ETSI GS MEC-DEC 032-2 V3.2.1 (2024-11)

Multi-access Edge Computing (MEC); API Conformance Test Specification; Part 2: Test Purposes (TP)

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Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) Multi-access Edge Computing (MEC).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.9].

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

Based on the testing methodology guidelines and framework specified in ETSI GR MEC-DEC 025 [i.8], the present document specifies part 2 of a multi-part deliverable test specification for the MEC service APIs (currently ETSI GS MEC 012 [5], ETSI GS MEC 013 [6], ETSI GS MEC 014 [7], ETSI GS MEC 015 [8], ETSI GS MEC 016 [9], ETSI GS MEC 021 [10], ETSI GS MEC 028 [11], ETSI GS MEC 029 [12], ETSI GS MEC 030 [13]), ETSI GS MEC 033 [14], ETSI GS MEC 040 [15]), and the MEC APIs specified in ETSI GS MEC 010-2 [3] and ETSI GS MEC 011 [4].

The present document includes the Test Suite Structure (TSS) and Test Purposes (TPs) using the standardized notation Test Description Language - Test Objectives extension (TDL_TO).

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference/.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

[1] Void.

[2] ETSI GS MEC 009 (V2.2.1): "Multi-access Edge Computing (MEC); General principles, patterns and common aspects of MEC Service APIs".

[3] ETSI GS MEC 010-2 (V3.1.1): "Multi-access Edge Computing (MEC); MEC Management; Part 2: Application lifecycle, rules and requirements management".

[4] ETSI GS MEC 011 (V3.2.1): "Multi-access Edge Computing (MEC); Edge Platform Application Enablement".

[5] ETSI GS MEC 012 (V2.2.1): "Multi-access Edge Computing (MEC); Radio Network Information API".

[6] ETSI GS MEC 013 (V3.1.1): "Multi-access Edge Computing (MEC); Location API".

[7] ETSI GS MEC 014 (V3.1.1): "Multi-access Edge Computing (MEC); UE Identity API".

[8] ETSI GS MEC 015 (V2.2.1): "Multi-Access Edge Computing (MEC); Traffic Management APIs".

[9] ETSI GS MEC 016 (V2.2.1): "Multi-access Edge Computing (MEC); Device application interface".

[10] ETSI GS MEC 021 (V3.1.1): "Multi-access Edge Computing (MEC); Application Mobility Service API".

[11] ETSI GS MEC 028 (V2.3.1): "Multi-access Edge Computing (MEC); WLAN Access Information API".

[12] ETSI GS MEC 029 (V2.2.1): "Multi-access Edge Computing (MEC); Fixed Access Information API".

[13] ETSI GS MEC 030 (V3.1.1): "Multi-access Edge Computing (MEC); V2X Information Services API".

[14] ETSI GS MEC 033 (V3.1.1): "Multi-access Edge Computing (MEC); IoT API".

[15] ETSI GS MEC 040 (V3.1.1): "Multi-access Edge Computing (MEC); Federation enablement APIs".

[16] ETSI TS 102 894-2: "Intelligent Transport Systems (ITS); Users and applications requirements; Part 2: Applications and facilities layer common data dictionary".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] Void.

[i.2] Void.

[i.3] Void.

[i.4] Void.

[i.5] Void.

[i.6] Void.

[i.7] TTCN-3 abstract test language.

[i.8] ETSI GR MEC-DEC 025: "Multi-access Edge Computing (MEC); MEC Testing Framework".

[i.9] ETSI GS MEC-DEC 032-1: "Multi-access Edge Computing (MEC); API Conformance Test Specification; Part 1: Test Requirements and Implementation Conformance Statement (ICS)".

[i.10] ETSI GR MEC 001 (V3.1.1): "Multi-access Edge Computing (MEC); Terminology".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

certification/compliance assessment: major goal of a compliance assessment is to ensure the interoperability of implementations, and the conformance of implementations to the standard

conformance testing: purpose of conformance testing is to determine to what extent a single implementation of a particular standard conforms to the individual requirements of that standard

interoperability testing: purpose of interoperability testing is to prove that end-to-end functionality between (at least) two communicating systems is as required by the standard(s) on which those systems are based

Test Case (TC): complete and independent specification of the actions required to achieve a specific Test Purpose

NOTE: TCs are written in testing languages, e.g. TTCN-3 [i.7].

Test Descriptions (TD): specification of the sequence of actions required to realize the verdict identified in the TP

NOTE: TDs are primarily intended for use in interoperability test specifications. However, in some instances, particularly where there is a considerable difference in complexity between the TPs and the TCs, it is worthwhile adding TDs as an extra design stage in a conformance test specification.

Test Purpose (TP): definition in broad terms of the goal of a particular test

NOTE: A TP should be written for each potential test of each identified requirement. A TP is defined in prose, or in high level languages such as TDL-TO.

test suite: collection of Test Cases

testing framework: guidance for development of conformance and interoperability test strategies, test systems and the resulting test specifications

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI GR MEC 001 [i.10] apply.

4 Prerequisites and Test Configurations

4.1 Test Configurations

Test configurations capture and describe the components identified in the tests and the connections between them. In particular and as reported in ETSI GR MEC-DEC 025 [i.8], in the context of conformance testing the test configuration "defines how the test system connects to the SUT".

For the present test suite, six (6) configurations are identified and listed in the present clause.

For each test configuration two (2) main components are identified: the IUT implementing the API provider and the Tester implementing the API consumer. The IUT is part of a SUT (System Under Test), thus the component may be run together with other components of the MEC System that are required to enable the behaviour to be tested. The definition of the other components is out of scope.

Figure 4.1-1 depicts configuration Config_MEC_1 which includes a MEC Platform as the IUT and a MEC App as the Tester. This configuration is applicable for all test purposes in all subgroups of the SRV Group.

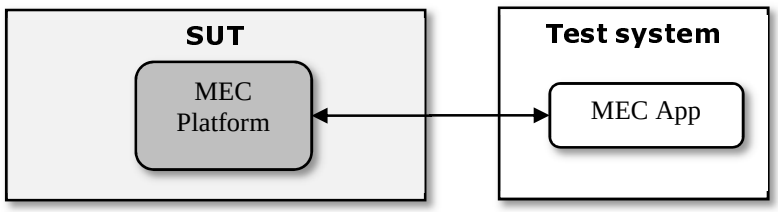

Figure 4.1-1: Config_MEC_1

Figure 4.1-2 depicts configuration Config_MEC_2 which includes a MEO as the IUT and OSS/BSS as the Tester. This configuration is applicable for group MEO, subgroup PKGM.

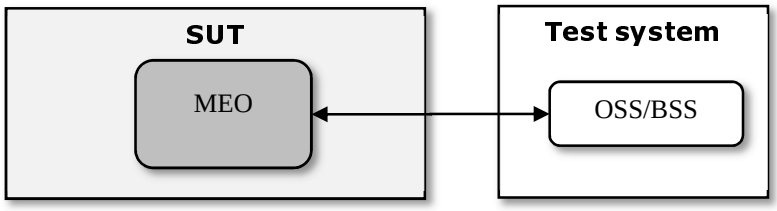

Figure 4.1-2: Config_MEC_2

Figure 4.1-3 depicts configuration Config_MEC_3 which includes a MEO as the IUT and a MEPM as the Tester. This configuration is applicable for subgroup MEO/GRANT and in subgroup MEPM/PKGM.

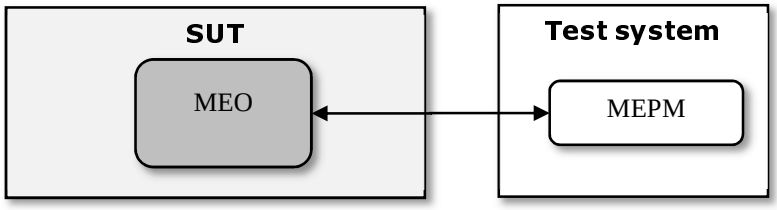

Figure 4.1-3: Config_MEC_3

Figure 4.1-4 depicts configuration Config_MEC_4 which includes a UALCM Proxy as the IUT and a DEV App as the Tester. This configuration is applicable for group MEO subgroups UEAPPCTX and UEAPPS.

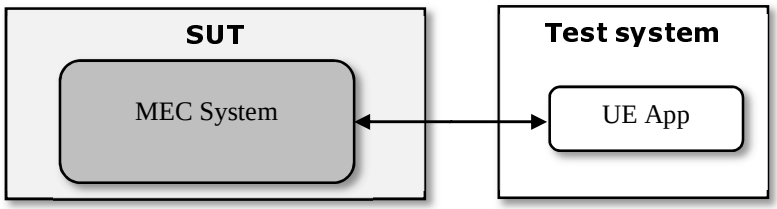

Figure 4.1-4: Config_MEC_4

Figure 4.1-5 depicts configuration Config_MEC_5 which includes a MEPM as the IUT and a MEO as the Tester. This configuration is applicable for group MEPM, subgroup PKGM.

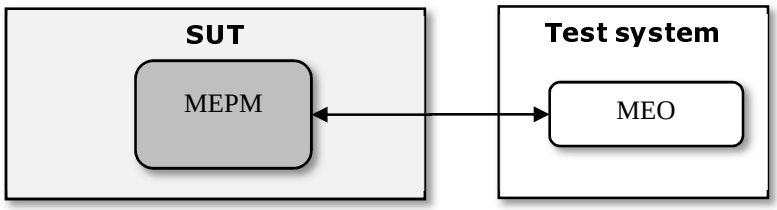

Figure 4.1-5: Config_MEC_5

Figure 4.1-6 depicts configuration Config_MEC_6 which includes a generic MEC API Provider as the IUT and a generic MEC API consumer as the Tester. This configuration is applicable for test targeting generic API behaviours, thus group MEX, subgroup ANY and LCM.

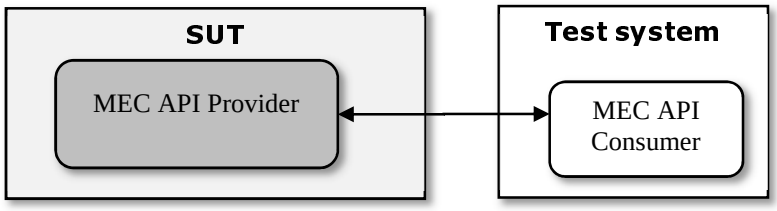

Figure 4.1-6: Config_MEC_6

Figure 4.1-7 depicts configuration Config_MEC_7 which includes a MEF as the IUT and a MEO as the Tester. This configuration is applicable for test targeting MEC Federation API behaviours [15].

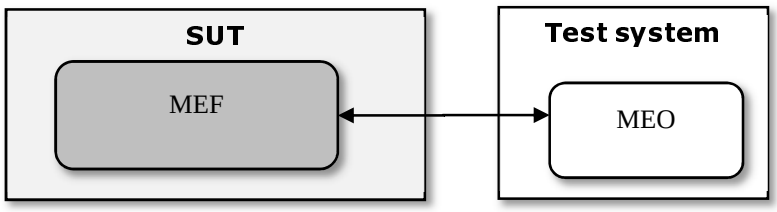

Figure 4.1-7: Config_MEC_7

5 Test Suite Structure (TSS)

5.1 Overview

The test suite structure identifies grouping of test purposes and serves as a base for grouping of Test Case in the ATS (Abstract Test Suite).

The Test Suite structure is used for the creation of identifiers of Test Purposes.

Table 5.1-1 identifies the Test Suite Structure for the MEC API Conformance test suites. Documentation on the groups and subgroups is provided in clause 5.2.

Table 5.1-1: Test Suite Structure for MEC API Conformance

TP_<root>_<doc>_<gr>_<subgr>_<nnn>_<xx>		
<root> = root	MEC	MEC
<doc> = base document	MEC009	Addressing base requirements in ETSI GS MEC 009 [2]
	MEC010p2	Addressing base requirements in ETSI GS MEC 010-2 [3]
	MEC011	Addressing base requirements in ETSI GS MEC 011 [4]
	MEC012	Addressing base requirements in ETSI GS MEC 012 [5]
	MEC013	Addressing base requirements in ETSI GS MEC 013 [6]
	MEC014	Addressing base requirements in ETSI GS MEC 014 [7]
	MEC015	Addressing base requirements in ETSI GS MEC 015 [8]
	MEC016	Addressing base requirements in ETSI GS MEC 016 [9]
	MEC021	Addressing base requirements in ETSI GS MEC 021 [10]
	MEC028	Addressing base requirements in ETSI GS MEC 028 [11]
	MEC029	Addressing base requirements in ETSI GS MEC 029 [12]
	MEC030	Addressing base requirements in ETSI GS MEC 030 [13]
	MEC033	Addressing base requirements in ETSI GS MEC 033 [14]
	MEC040	Addressing base requirements in ETSI GS MEC 040 [15]

TP_<root>_<doc>_<gr>_<subgr>_<nnn>_<xx>		
<gr> = group	SRV	MEC Services
	MEO	MEC Orchestrator
	MEPM	MEC Platform Manager
	PLAT	MEC platform
	MEX	Generic MEC API Producer
<subgr> = subgroup	AMS	Application Mobility Service
	ANY	Un-specified feature, used for generic test purposes
	APPASQ	Application Service Availability Query
	APPSUB	Application Subscriptions
	CONFTASK	Confirmation Tasks
	DNS	DNS rules
	FAIS	Fixed Access Information Service
	GRANT	Granting
	IOTDEV	IoT Device Provisioning
	IOTPLAT	IoT Platform Discovery
	LCM	Lifecycle Management
	LIV	Liveness
	MEF	MEC Federation
	MTS	Multi-access Traffic Steering
	PKGM	App Package Management
	REGAPPS	Register Apps
	RLOCLOOK	Radio Node Location Lookup
	RNIS	Radio Network Information Service
	SAQ	Service Availability Query
	SRVSUB	Service Subscriptions
	TIME	Timing capabilities
	TM	Traffic Management
	TRAF	Traffic rules
	TRANS	Transport
	UEAPPCTX	Device Application Contexts
	UEAPPS	Device Applications
	UEAPPLOC	UE App Location
	UEAREASUB	UE Area Subscribe
	UEDISTLOOK	UE Distance Lookup
	UEDISTSUB	UE Distance Subscribe
	UEINFOLOOK	UE Information Lookup
	UELOCLOOK	UE Location lookup
	UELOCSUB	UE Location Subscription
	UETAG	UE Identity Tag
	UETRACKSUB	UE Tracking Subscribe
	UETESTNOT	UE Test Notification
	UEZONELOOK	UE Zone Lookup
	UEZONESUB	UE Zone Subscription
	V2X	V2X Information Service
	WAI	WLAN Access Information
<nnn> = sequential number		001 to 999
<xx> = type of testing	OK	Valid/Successful behaviour (200, 201, 202, 204)
	BR	Bad request
	NT	No token
	WT	Wrong Token
	NF	Missing (404)
	CO	Conflict (409)
	PF	Precondition Failed (412)
	E1	Generic error condition 1
	E2	Generic error condition 2
	E3	Generic error condition 3
	…	

5.2 Test groups and subgroups specifications

The test grouping is organized on three (3) levels. The first level is the reference to the base Document that contains the requirements for the tests. The second level is the Group and identifies the MEC component that is providing the Service or Interface to be tested. The third level is called Subgroup and identifies a set of functionalities within an API. In general this is related to the entities and resources manipulated or served by the API.

Moreover, test purposes are identified and categorized by a sequential three-digits number (uniquely assigned upon definition of each test purpose) and by the type of test performed. The type of test helps quickly identify the type of behaviour that is expected by the IUT in the test purpose.

5.3 Conventions

Conventions reported in ETSI GR MEC-DEC 025 [i.8], clauses 4.3.3.2.3 and 4.3.3.2.4 shall apply.

The test purposes are primarily developed in textual syntax of TDL-TO. The sources for the Test Purposes are available in https://forge.etsi.org/rep/mec/gs032p2-test-purposes/-/tree/3.1.1.

The definitions of PICS, Entities, Events and data types are available in Domain section in the mec-common.tplan2 file.

6 Test Purposes (TP)

6.1 MEC009

6.1.1 Generic MEC API Producer (MEX)

6.1.1.1 Generic feature (Any)

Table 6.1.1.1-1: TP_MEC_MEC009_MEX_ANY_001_NT

TP Id	"TP_MEC_MEC009_MEX_ANY_001_NT"
Test Objective	Check that a MEC API provider responds with an error when it receives a request without token
Reference	ETSI GS MEC 009 V2.1.1 [2], clause 6.16.1
Configuration	Config_MEC_6
Initial Conditions	

with {
the IUT being_in idle_state
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a HTTP_REQUEST containing
uri indicating value ACCEPTABLE_URI,
not authorization
from the MEC_CONSUMER entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "401 Unauthorized"
to the MEC_CONSUMER entity
}
}	

TP Id	"TP_MEC_MEC009_MEX_ANY_001_WT"
Test Objective	Check that a MEC API provider responds with an error when it receives a request with a wrong token
Reference	ETSI GS MEC 009 V2.1.1 [2], clause 6.16.1
Configuration	Config_MEC_6
Initial Conditions	

with {
the IUT being_in idle_state
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a HTTP_REQUEST containing
uri indicating value ACCEPTABLE_URI,
headers containing
authorization set to NOT_VALID_TOKEN
 	
from the MEC_CONSUMER entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "401 Unauthorized"
to the MEC_CONSUMER entity
}
}	

6.2 MEC010p2

6.2.1 Multi-access Edge Orchestrator (MEO)

6.2.1.1 Granting (GRANT)

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_001_OK"
Test Objective	Check that MEO sends a synchronous grant response when a grant request is requested - INSTANTIATE
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	

with {
the IUT having a app_instance containing
appInstanceID indicating value APP_INSTANCE_ID,
link indicating value H_LINK
 	
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vPOST containing
uri indicating value "/granting/v1/grants",
body containing
GrantRequest containing
appInstanceId set to APP_INSTANCE_ID,
appLcmOpOccId set to any_value,
appDId set to any_value,
operation set to INSTANTIATE,
addResources set to INST_RESOURCES_LIST,
_links containing
appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
appInstance set to APP_INSTANCE_LINK
 	
from the MEPM entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "201 Created",	

```
         headers containing
             Location set to "/granting/v1/grants/{GRANTING_ID}"
         body containing
            Grant containing
               id set to any_value,
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               addResources set to INST_RESOURCES_LIST,
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK




      to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_001_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request when a new grant request is performed - INSTANTIATE
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a app_instance containing
   appInstanceID indicating value APP_INSTANCE_ID,
   link indicating value H_LINK
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/granting/v1/grants",
         body containing
            GrantRequest containing
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               appDId set to any_value,
               operationERROR set to INSTANTIATE,
               not addResources,
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK



       from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"

      to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_002_OK"
Test Objective	Check that MEO sends a synchronous grant response when a grant request is requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a app_instance containing
   appInstanceID indicating value APP_INSTANCE_ID,
   link indicating value H_LINK

      }
```

Expected Behaviour

```
ensure that {
   when {
    the IUT receives a vPOST containing
         uri indicating value "/granting/v1/grants",
         body containing
            GrantRequest containing
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               appDId set to any_value,
               operation set to OPERATION_TYPE,   //Shall be one from - OPERATE - TERMINATE
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK


      from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         headers containing
            Location set to "/granting/v1/grants/{GRANTING_ID}"
         body containing
            Grant containing
               id set to any_value,
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK




      to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_003_OK"
Test Objective	Check that MEO sends a asynchronous grant response when a grant request is requested - INSTANTIATE
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a app_instance containing
   appInstanceID indicating value APP_INSTANCE_ID,
   link indicating value H_LINK

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/granting/v1/grants",
         body containing
            GrantRequest containing
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               appDId set to any_value,
               operation set to INSTANTIATE,
               addResources set to INST_RESOURCES_LIST,
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK




      from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/granting/v1/grants/{GRANTING_ID}"

       to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_004_OK"
Test Objective	Check that MEO sends a asynchronous grant response when a grant request is requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a app_instance containing
   appInstanceID indicating value APP_INSTANCE_ID,
   link indicating value H_LINK

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/granting/v1/grants",
         body containing
            GrantRequest containing
               appInstanceId set to APP_INSTANCE_ID,
               appLcmOpOccId set to any_value,
               appDId set to any_value,
               operation set to OPERATION_TYPE,   //Shall be one from - OPERATE - TERMINATE
               _links containing
                   appLcmOpOcc set to APP_LCM_OP_OCC_LINK,
                   appInstance set to APP_INSTANCE_LINK




      from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/granting/v1/grants/{GRANTING_ID}"

       to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_005_OK"
Test Objective	Check that MEO sends the status of a grant request when a query on a granting ID is performed
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.4.4.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a grant containing
   id indicating value GRANTING_ID,
   link indicating value H_LINK
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/granting/v1/grants/{GRANTING_ID}"

      from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            Grant containing
               id set to GRANTING_ID,
               appInstanceId set to any_value,
               appLcmOpOccId set to any_value,
               _links set to H_LINK


       to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_006_OK"
Test Objective	Check that MEO sends the status of a grant request when a query on a granting ID is performed
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.2.3.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT

Initial Conditions

```
with {
the IUT having a grant containing
   id indicating value GRANTING_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/granting/v1/grants/{GRANTING_ID}"

      from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/granting/v1/grants/{GRANTING_ID}"

       to the MEPM entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_GRANT_006_NF"
Test Objective	Check that MEO responds with an error when it receives a request for returning a grant referred with a wrong ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.5.2.3.2
Configuration	Config_MEC_3
PICS Selection	PIC_GRANTS_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a grant containing
   id indicating value GRANTING_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/granting/v1/grants/{GRANTING_ID}"
       from the MEPM entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEPM entity
   }
}
```

6.2.1.2 App Package Management (PKGM)

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_001_OK"
Test Objective	Check that MEO creates a new App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.2.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_pkgm/v1/app_packages",
         body containing
            CreateAppPkg containing
               appPkgName set to APP_PKG_NAME,
               appPkgVersion set to APP_PKG_VERSION,
               checksum set to CHECKSUM,
               appPkgPath set to APP_PKG_PATH


       from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         Location indicating value any_value,
         body containing
            AppPkgInfo containing
              id set to any_value,
              appDId set to any_value,
              appSoftwareVersion set to any_value,
              appDVersion set to APP_PKG_VERSION,
              checksum set to CHECKSUM,
              softwareImages set to SW_IMAGES,
              onboardingState set to "CREATED",
              operationalState set to "ENABLED",
              usageState set to "NOT_IN_USE",
              mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
              _links containing
                  self set to any_value,
```

```
                appD set to any_value,
                appPkgContent set to any_value
                // No vnfPkgInfo



      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_001_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request for creating a new App Package
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.2.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_pkgm/v1/app_packages",
         body containing
            CreateAppPkg containing
               appPkgNameERR set to APP_PKG_NAME, //Wrong parameter name
               appPkgVersion set to APP_PKG_VERSION,
               checksum set to CHECKSUM,
               appPkgPath set to APP_PKG_PATH


       from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_01_OK"
Test Objective	Check that MEO returns the list of App packages when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having an App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages"

        from the MEC_OSS entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AppPkgInfoList containing
                   AppPkgInfo containing
                       id set to APP_PKG_ID,
                       appDId set to ON_BOARDED_APPD_ID,
```

```
                        appName set to any_value,
                        appSoftwareVersion set to any_value,
                        appDVersion set to any_value,
                        checksum set to any_value,
                        softwareImages set to SW_IMAGES,
                        onboardingState set to "CREATED",
                        operationalState set to any_value,
                        usageState set to any_value,
                        mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                        _links containing
                            self set to any_value,
                            appD set to any_value,
                            appPkgContent set to any_value




        to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_02_OK"
Test Objective	Check that MEO returns the list of on-boarded packages when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having an App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/onboarded_app_packages"

        from the MEC_OSS entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AppPkgInfoList containing
                   AppPkgInfo containing
                       id set to APP_PKG_ID,
                       appDId set to ON_BOARDED_APPD_ID,
                       appName set to any_value,
                       appSoftwareVersion set to any_value,
                       appDVersion set to any_value,
                       checksum set to any_value,
                       softwareImages set to SW_IMAGES,
                       onboardingState set to "CREATED",
                       operationalState set to any_value,
                       usageState set to any_value,
                       mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                       _links containing
                         self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                         appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                         appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content




        to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_002_BR"
Test Objective	Check that MEO responds with an error when it receives a malformed request for retrieving the list of existing App Packages
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_pkgm/v1/app_packages",
         query_parameters containing
            operationalStatus indicating value any_value  // the query parameter should be
operationalState not operationalStatus

       from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_01_OK"
Test Objective	Check that MEO returns the App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}"
            from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgInfo containing
                    id set to APP_PKG_ID,
                    appDId set to ON_BOARDED_APPD_ID,
                    appName set to any_value,
                    appSoftwareVersion set to any_value,
                    appDVersion set to any_value,
                    checksum set to any_value,
                    softwareImages set to SW_IMAGES,
                    onboardingState set to "CREATED",
                    operationalState set to any_value,
                    usageState set to any_value,
                    mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                    _links containing
                       self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                        appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                        appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content
```

```
      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_02_OK"
Test Objective	Check that MEO returns the on-boarded package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}"
            from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgInfo containing
                    id set to APP_PKG_ID,
                    appDId set to ON_BOARDED_APPD_ID,
                    appName set to any_value,
                    appSoftwareVersion set to any_value,
                    appDVersion set to any_value,
                    checksum set to any_value,
                    softwareImages,
                    onboardingState,
                    operationalState set to any_value,
                    usageState set to any_value,
                    mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                    softwareImages set to SW_IMAGES,
                    onboardingState set to "CREATED",
                    operationalState set to any_value,
                    usageState set to any_value,
                    _links containing
                       self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                        appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                        appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content




      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_003_NF"
Test Objective	Check that MEO responds with an error when it receives a request for retrieving a App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Package containing
   appPkgId indicating value NON_EXISTENT_APP_PKG_ID

      }
```

Expected Behaviour

ensure that {
when {
the IUT receives a vGET containing
uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}"
from the MEC_OSS entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "404 Not Found"
to the MEC_OSS entity
}
}

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_004_OK"
Test Objective	Check that MEO deletes an App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

with {
the IUT having a App_Package containing
appPkgId indicating value APP_PKG_ID
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vDELETE containing
uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}"
from the MEC_OSS entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "204 No Content"
to the MEC_OSS entity
}
}	

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_004_NF"
Test Objective	Check that MEO responds with an error when it receives a request for deleting an App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

with {
the IUT not having a App_Package containing
appPkgId indicating value NON_EXISTENT_APP_PKG_ID
 	
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vDELETE containing
uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}"
from the MEC_OSS entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "404 Not Found"
to the MEC_OSS entity
}
}	

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_005_OK"
Test Objective	Check that MEO updates the operational state of an individual application package resource
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.5 ETSI GS MEC 010-2 V3.1.1 [3, clause 6.2.3.8.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    operationalState set to DISABLED
       }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}",
            body containing
                appPkgInfoModifications containing
                    operationalState set to ENABLE



        from the MEC_OSS entity
 }
 then {
     the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
             appPkgInfoModifications containing
                 operationalState set to ENABLE



      to the MEC_OSS entity
 }
       }
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_005_BR"
Test Objective	Check that MEO sends an error when it receives a malformed request to modify the operational state of an application package
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.5 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.8.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
   appPkgId indicating value ON_BOARDED_APP_PKG_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPATCH containing
         uri indicating value "/app_pkgm/v1/app_packages/{ON_BOARDED_APP_PKG_ID}",
         body containing
             appPkgInfoModifications containing
                 appPkgOperation indicating value "DISABL" //it should be DISABLE



      from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_005_NF"
Test Objective	Check that MEO responds with an error when it receives a request for updating an App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.5 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.8.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Package containing
   appPkgId indicating value NON_EXISTENT_APP_PKG_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPATCH containing
         uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}",
           body containing
             appPkgInfoModifications containing
                 appPkgOperation indicating value "DISABL"



      from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_006_OK"
Test Objective	Check that MEO service returns an application package subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.7 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
       the IUT receives a vPOST containing
           uri indicating value "/app_pkgm/v1/subscriptions"
           body containing
               AppPkgSubscription containing
                   callbackUri set to URI,
                   subscriptionType set to SUBSCRIPTION_TYPE //It could be either
AppPackageOnBoardingSubscription or AppPackageChangeSubscription or AppPackageDeletionSubscription



       from the MEC_OSS entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "201 Created",
           body containing
               AppPkgSubscriptionInfo containing
                   subscriptionId set to any_value,
                   subscriptionType set to SUBSCRIPTION_TYPE,
                   callbackUri set to URI,
                   _links



       to the MEC_OSS entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_006_BR"
Test Objective	Check that MEO service sends an error when it receives a malformed request for creating a new subscription on AppPackages
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.7.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT being_in idle_state
       }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a POST containing
            uri indicating value "/app_pkgm/v1/subscriptions",
            body containing
                AppPkgSubscription containing
                    subscriptionType set to "ON-BOARDING"  // Enum should be "ONBOARDING"



        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"

        to the MEC_OSS entity
   }
      }
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_007_OK_01"
Test Objective	Check that MEO service returns the list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.5.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/subscriptions"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgSubscriptionLinkList containing
                    AppPkgSubscriptionInfo containing
                        links containing
                            self indicating value any_value,
                            subscriptions containing
                                href set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}",
                                subscriptionType indicating value SUBSCRIPTION_TYPE //It must be
either AppPackageOnBoardingSubscription or

//AppPackageChangeSubscription or AppPackageDeletionSubscription
```

```
        to the MEC_OSS entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_007_OK_02"
Test Objective	Check that MEO service returns an empty list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.5.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a Subscription
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/subscriptions"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgSubscriptionLinkList containing
                    AppPkgSubscriptionInfo containing
                        links containing
                            self indicating value any_value,
                            subscriptions containing
                                href set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}",
                                subscriptionType set to omit









        to the MEC_OSS entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_008_OK"
Test Objective	Check that MEO service returns an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
```

```
               AppPkgSubscriptionInfo containing
                   subscriptionId set to SUBSCRIPTION_ID,
                   subscriptionType indicating value SUBSCRIPTION_TYPE, //It must be either
AppPackageOnBoardingSubscription or AppPackageChangeSubscription or AppPackageDeletionSubscription
                   callbackUri set to any_value,
                   _links containing
                       self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"




       to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_008_NF"
Test Objective	Check that MEO service sends an error when it receives a query for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a Subscription containing
   subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_pkgm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"

      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_009_OK"
Test Objective	Check that MEO service deletes an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"

        to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_009_NF"
Test Objective	Check that MEO service sends an error when it receives a deletion request for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.4
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a Subscription containing
   subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_pkgm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"

      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_010_OK"
Test Objective	Check that the MEO service sends a application package notification if the MEO service has an associated subscription and the event is generated
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.5.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.6.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a Subscription containing
    subscriptionId set to SUBSCRIPTION_ID,
    subscriptionType set to AppPackageOnBoardingSubscription,
    callbackUri set to CALLBACK_URI,
     _links containing
                self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT generates a on_boarding_event containing
            notificationId set to NOTIFICATION_ID
    }
    then {
        the IUT sends a vPOST containing
            uri indicating value CALLBACK_URI,
            body containing
              AppPkgNotification containing
                notificationId set to NOTIFICATION_ID,
                notificationType indicating value AppPackageOnBoarded,
                subscriptionId set to SUBSCRIPTION_ID,
                timeStamp set to any_value,
                appPkgId set to any_value,
                appDId set to any_value,
                _links containing
                    self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"




        to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_011_OK"
Test Objective	Check that MEO reads the content of the AppD of on-boarded individual application package resources when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.1.2.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd",
            accept set to "application/zip"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                payload set to ZIP_FILE


         to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_011_NF"
Test Objective	Check that MEO responds with an error when it receives a request to retrieve an application descriptor referred with a wrong app package ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Package containing
   appPkgId indicating value NON_EXISTENT_APP_PKG_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}/appd"
       from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_01_OK"
Test Objective	Check that MEO fetches the application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID
```

```
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content",
            accept set to "application/zip"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                payload set to ZIP_FILE


         to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_02_OK"
Test Objective	Check that MEO fetches the on-boarded application package content identified by appDId when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}/package_content",
            accept set to "application/zip"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                payload set to ZIP_FILE


         to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_BR"
Test Objective	Check that MEO service sends an error when it receives a malformed request
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content",
         accept set to "wrong_parameter"
```

```
      from the MEC_OSS entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"

      to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_01_NF"
Test Objective	Check that MEO service sends an error when it receives a request referring a wrong appPkgId
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/app_pkgm/v1/app_packages/{NON_EXISTING_APP_PKG_ID}/package_content",
            accept set to "application/zip"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

         to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_012_02_NF"
Test Objective	Check that MEO service sends an error when it receives a request referring a wrong on-boarded appPkgId
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/app_pkgm/v1/onboarded_app_packages/{NON_EXISTING_ON_BOARDED_APPD_ID}/package_content",
            accept set to "application/zip"

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

         to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_013_OK"
Test Objective	Check that MEO accepts application package when submitted
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.3 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.1.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content",
            accept set to ACCEPTED_CONTENT_TYPE

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "202 Accepted",
            not body

        to the MEC_OSS entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEO_PKGM_013_NF"
Test Objective	Check that MEO service sends an error when it receives a query to accept an application package with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.3 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.1.2
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value
"/app_pkgm/v1/app_packages/{APP_NON_EXISTANT_PKG_ID}/package_content",
            accept set to ACCEPTED_CONTENT_TYPE

        from the MEC_OSS entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

        to the MEC_OSS entity
   }
}
```

6.2.2 Multi-access Edge Platform Manager (MEPM)

6.2.2.1 Lifecycle Management (LCM)

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_OK"
Test Objective	Check that MEC API provider has created the configuration information in AppD to the MEPM-V
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.21.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Expected Behaviour	

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value
"/app_lcm/v1/app_instances/{appInstanceId}/configure_platform_for_app",
            body containing
            ConfigPlatformForAppRequest containing
               appServiceRequired set to some_values



        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "202 Accepted",
           headers containing
            Location set to "/app_lcm/v1/app_lcm_op_occs/APP_LCM_OP_OCC_ID"


        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_BR"
Test Objective	Check that MEC API provider sends an error when it receives a malformed request for the configuration information in AppD to the MEPM-V
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.21.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Expected Behaviour	

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value
"/app_lcm/v1/app_instances/{appInstanceId}/configure_platform_for_app",
            body containing
            ConfigPlatformForAppRequest containing
               appServiceWrongRequired set to some_values //Wrong Param



        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "400 Bad Request"

        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_LCM_01_NF"
Test Objective	Check that MEC API provider sends an error when it receives a request for the configuration information in AppD to the MEPM-V with not valid app instance ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.7.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.21.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT "not" having a AppInstanceInfo containing
    id indicating value NOT_EXISTING_APP_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value
"/app_lcm/v1/app_instances/{NOT_EXISTING_APP_ID}/configure_platform_for_app",
            body containing
            ConfigPlatformForAppRequest containing
               appServiceRequired set to some_values



        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "404 Not Found"

        to the MEO entity
   }
}
```

6.2.2.2 App Package Management (PKGM)

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_01_OK"
Test Objective	Check that MEPM returns the list of App Packages when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having an App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages"

        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AppPkgInfoList containing
                   AppPkgInfo containing
                       id set to APP_PKG_ID,
                       appDId set to ON_BOARDED_APPD_ID,
                       appName set to any_value,
                       appSoftwareVersion set to any_value,
                       appDVersion set to any_value,
                       checksum set to any_value,
                       softwareImages set to SW_IMAGES,
                       onboardingState set to "CREATED",
                       operationalState set to any_value,
```

```
                      usageState set to any_value,
                      mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                      _links containing
                        self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                        appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                        appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content




        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_02_OK"
Test Objective	Check that MEPM returns the list of on-boarded App Packages when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having an App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/onboarded_app_packages"

        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AppPkgInfoList containing
                   AppPkgInfo containing
                       id set to APP_PKG_ID,
                       appDId set to ON_BOARDED_APPD_ID,
                       appName set to any_value,
                       appSoftwareVersion set to any_value,
                       appDVersion set to any_value,
                       checksum set to any_value,
                       softwareImages set to SW_IMAGES,
                       onboardingState set to "CREATED",
                       operationalState set to any_value,
                       usageState set to any_value,
                       mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                       _links containing
                         self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                         appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                         appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content




        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_001_BR"
Test Objective	Check that MEPM responds with an error when it receives a malformed request for requesting the list of existing App Packages
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.1.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages",
            query_parameters containing
               operationalStatus indicating value ENABLED // the query parameter should be
operationalState not operationalStatus


        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"

        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_01_OK"
Test Objective	Check that MEPM returns the an App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}"
            from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgInfo containing
                    id set to APP_PKG_ID,
                    appDId set to ON_BOARDED_APPD_ID,
                    appName set to any_value,
                    appSoftwareVersion set to any_value,
                    appDVersion set to any_value,
                    checksum set to any_value,
                    softwareImages set to SW_IMAGES,
                    onboardingState set to "CREATED",
                    operationalState set to any_value,
                    usageState set to any_value,
                    mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                    _links containing
                       self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                       appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                       appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content
```

```
      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_02_OK"
Test Objective	Check that MEPM returns the an App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}"
            from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgInfo containing
                    id set to APP_PKG_ID,
                    appDId set to ON_BOARDED_APPD_ID,
                    appName set to any_value,
                    appSoftwareVersion set to any_value,
                    appDVersion set to any_value,
                    checksum set to any_value,
                    softwareImages set to SW_IMAGES,
                    onboardingState set to "CREATED",
                    operationalState set to any_value,
                    usageState set to any_value,
                    mecInfo set to ARRAY_OF_MEC_INFO_COMPATIBLE_VERSIONS,
                    _links containing
                       self set to app_pkgm/v1/app_packages/APP_PKG_ID,
                       appD set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID,
                       appPkgContent set to
app_packages/APP_PKG_ID/onboarded_app_packages/ON_BOARDED_APPD_ID/package_content




      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_002_NF"
Test Objective	Check that MEPM responds with an error when it receives a request for returning a App Package referred with a wrong ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.2.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Package containing
    appPkgId indicating value NON_EXISTENT_APP_PKG_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
```

```
            uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}"

        from the MEO entity
     }
     then {
         the IUT sends a HTTP_RESPONSE containing
             status set to "404 Not Found"

         to the MEO entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_003_OK"
Test Objective	Check that MEPM service returns an application package subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.7.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
       the IUT receives a vPOST containing
           uri indicating value "/app_pkgm/v1/subscriptions"
           body containing
               AppPkgSubscription containing
                   callbackUri set to URI,
                   subscriptionType set to SUBSCRIPTION_TYPE



       from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "201 Created",
           body containing
               AppPkgSubscriptionInfo containing
                   subscriptionId set to any_value,
                   subscriptionType set to SUBSCRIPTION_TYPE,
                   callbackUri set to URI,
                   _links



       to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_003_BR"
Test Objective	Check that MEPM service sends an error when it receives a malformed request for creating a new subscription on AppPackages
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.1
Configuration	Config_MEC_2
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a POST containing
         uri indicating value "/app_pkgm/v1/subscriptions",
         body containing
            AppPkgSubscription containing
               callbackUri set to URI,
               subscriptionType set to "ON-BOARDING"  // Enum should be "ONBOARDING"
```

```
      from the MEO entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"

      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_004_OK"
Test Objective	Check that MEPM service returns the list of Application Package Subscriptions when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.3.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.5.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/subscriptions"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                AppPkgSubscriptionInfoList containing
                    AppPkgSubscriptionInfo containing
                        links containing
                            self indicating value any_value,
                            subscriptions containing
                                href set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}",
                                subscriptionType indicating value any_value







        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_005_OK"
Test Objective	Check that MEPM service returns an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.4.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"
```

```
        from the MEO entity
   }
   then {
       the IUT sends a HTTP_RESPONSE containing
          status set to "200 OK",
          body containing
              AppPkgSubscriptionInfo containing
                  subscriptionId set to SUBSCRIPTION_ID,
                  subscriptionType set to any_value,
                  callbackUri set to any_value,
                  _links containing
                      self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"



       to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_005_NF"
Test Objective	Check that MEPM service sends an error when it receives a query for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a Subscription containing
   subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_pkgm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEO entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"

      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_006_OK"
Test Objective	Check that MEPM service deletes an Application Package Subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.4
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"
```

```
        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_006_NF"
Test Objective	Check that MEPM service sends an error when it receives a deletion request for a subscription on AppPackages with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.4.3.4
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a Subscription containing
   subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_pkgm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEO entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"

      to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_007_OK"
Test Objective	Check that the MEPM service sends a application package notification if the MEPM service has an associated subscription and the event is generated
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.5.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.3.6.2
Configuration	Config_MEC_3
PICS Selection	PIC_APP_PACKAGE_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId set to SUBSCRIPTION_ID,
    subscriptionType set to AppPackageOnBoardingSubscription,
    callbackUri set to CALLBACK_URI,
    _links containing
        self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT generates a on_boarding_event containing
            notificationId set to NOTIFICATION_ID
    }
    then {
        the IUT sends a vPOST containing
            uri indicating value CALLBACK_URI,
            body containing
                notificationId set to NOTIFICATION_ID,
                notificationType indicating value AppPackageOnBoarded,
                subscriptionId set to SUBSCRIPTION_ID,
                timeStamp set to any_value,
                appPkgId set to any_value,
                appDId set to any_value,
                _links containing
                    self set to "/app_pkgm/v1/subscriptions/{SUBSCRIPTION_ID}"
```

```
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_008_NA"
Test Objective	Check that MEPM responds with an error when it receives a POST request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.1
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "405 Method Not Allow"

        to the MEO entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_009_OK"
Test Objective	Check that MEPM returns the Application Descriptor contained on an on-boarded Application Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.1.2.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd",
            accept set to ACCEPTED_CONTENT_TYPE

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            content_type,
            body containing
                payload set to FILE


        to the MEO entity
    }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_009_NF"
Test Objective	Check that MEPM responds with an error when it receives a request for returning a App Descriptor referred with a wrong App Package ID
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Package containing
    appPkgId indicating value NON_EXISTENT_APP_PKG_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/app_pkgm/v1/app_packages/{NON_EXISTENT_APP_PKG_ID}/appd"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_010_FO"
Test Objective	Check that MEPM responds with an error when it receives a PUT request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.3
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "403 Forbidden"

        to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_011_NA"
Test Objective	Check that MEPM responds with an error when it receives a DELETE request referring an application descriptor AppD
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.6.3.4
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

ensure that {
  when {
  the IUT receives a vDELETE containing
  uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/appd"
 	
  from the MEO entity
  }
  then {
  the IUT sends a HTTP_RESPONSE containing
  status set to "405 Method Not Allow"
 	
  to the MEO entity
  }
}

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_01_OK"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

with {
the IUT having a App_Package containing
  appPkgId indicating value APP_PKG_ID,
  appDId indicating value ON_BOARDED_APPD_ID
 	
  }	

Expected Behaviour	

ensure that {
  when {
  the IUT receives a vGET containing
  uri indicating value "/app_pkgm/v1/app_packages/{APP_PKG_ID}/package_content",
  accept set to "application/zip"
 	
  from the MEO entity
  }
  then {
  the IUT sends a HTTP_RESPONSE containing
  status set to "200 OK",
  body containing
  payload set to ZIP_FILE
 	
  to the MEO entity
  }
}	

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_02_OK"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appDId when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

with {
the IUT having a App_Package containing
  appPkgId indicating value APP_PKG_ID,
  appDId indicating value ON_BOARDED_APPD_ID
 	
  }	

Expected Behaviour	

ensure that {
  when {
  the IUT receives a vGET containing
  uri indicating value
"/app_pkgm/v1/onboarded_app_packages/{ON_BOARDED_APPD_ID}/package_content",
  accept set to "application/zip"
 	
  from the MEO entity
  }	

```
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                payload set to ZIP_FILE


         to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_01_NF"
Test Objective	Check that MEPM fetches the on-boarded application package content identified by appPkgId when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/app_pkgm/v1/app_packages/{NON_EXISTING_APP_PKG_ID}/package_content",
            accept set to "application/zip"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

         to the MEO entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEPM_PKGM_012_02_NF"
Test Objective	Check that MEPM service sends an error when it receives a query with an application package with a wrong identifier
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.3.7.3.2
Configuration	Config_MEC_5
PICS Selection	PIC_APP_PACKAGE_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Package containing
    appPkgId indicating value APP_PKG_ID,
    appDId indicating value ON_BOARDED_APPD_ID

      }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/app_pkgm/v1/onboarded_app_packages/{NON_EXISTING_ON_BOARDED_APPD_ID}/package_content",
            accept set to "application/zip"

        from the MEO entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"

         to the MEO entity
   }
}
```

6.2.3 Generic MEC API Producer (MEX)

6.2.3.1 Lifecycle management (LCM)

TP Id	"TP_MEC_MEC010p2_MEX_LCM_001_OK"
Test Objective	Check that MEC API provider creates a new App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.4.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances",
         body containing
            CreateAppInstanceRequest containing
               appDId set to APP_D_ID


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         body containing
            AppInstanceInfo containing
               id set to any_value,
               appDId set to APP_D_ID,
               appProvider set to any_value,
               appName set to any_value,
               appSoftVersion set to any_value,
               appDVersion set to any_value,
               appPkgId set to any_value,
               instantiationState set to NOT_INSTANTIATED,
               _links containing
                   self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}",
                   instantiate set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/instantiate"



       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_001_BR"
Test Objective	Check that MEC API provider sends an error when it receives a malformed request for the creation of a new App Instance
Reference	ETSI GS MEC 010-2V3.1.1 [3], clause 7.4.1.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.4.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances",
         body containing
            CreateAppInstanceRequest containing
               appDDDId set to APP_D_ID //Wrong parameter into the request body
```

```
      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_002_OK"
Test Objective	Check that MEC API provider retrieves the list of App instances when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.1.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.4.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_instances"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            AppInstanceInfoList containing
               AppInstanceInfo containing
                  appInstanceId set to APP_INSTANCE_ID,
                  appDId set to any_value,
                  appProvider set to any_value,
                  appName set to any_value,
                  appSoftVersion set to any_value,
                  appDVersion set to any_value,
                  appPkgId set to any_value,
                  instantiationState set to any_value,
                  _links containing
                      self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"




       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_003_OK"
Test Objective	Check that MEC API provider retrieves an App Package when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.4.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
```

```
         status set to "200 OK",
         body containing
            AppInstanceInfo containing
               appInstanceId set to APP_INSTANCE_ID,
               appDId set to any_value,
               appProvider set to any_value,
               appName set to any_value,
               appSoftVersion set to any_value,
               appDVersion set to any_value,
               appPkgId set to any_value,
               instantiationState set to any_value,
               _links containing
                      self set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"



       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_003_NF"
Test Objective	Check that MEC API provider fails on retrieving an App Instance when requested using wrong appInstanceId
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.2.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.4.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Instance containing
   appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_004_OK"
Test Objective	Check that MEC API provider service deletes an App Instance when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.2.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "204 No Content"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_004_NF"
Test Objective	Check that MEC API provider fails on deletion of an App Instance when requested using wrong appInstanceId
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.2.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Instance containing
   appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_OK"
Test Objective	Check that MEC API provider service instantiates an App Instance when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.7.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID,
   instantiationState indicating value NOT_INSTANTIATED

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/instantiate",
         body containing
            InstantiateAppRequest containing
               selectedMECHostInfo set to SELECTED_MEC_HOST_INFO


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}"

       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_BR"
Test Objective	Check that MEC API provider service fails to instantiate an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.7.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID,
```

```
   instantiationState indicating value NOT_INSTANTIATED

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/instantiate",
         body containing
            InstantiateAppRequest containing
               appERRORId set to APP_INSTANCE_ID    //wrong name of the parameter


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad request"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_005_NF"
Test Objective	Check that MEC API provider service fails to instantiate an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.6.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.7.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Instance containing
   appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/instantiate"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_OK"
Test Objective	Check that MEC API provider service terminates an App Instance when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.9.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID,
   instantiationState indicating value INSTANTIATED

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/terminate",
         body containing
            TerminateAppRequest containing
               terminationType set to TERMINATION_TYPE //It must be either FORCEFUL or GRACEFUL
```

```
      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_BR"
Test Objective	Check that MEC API provider service fails to terminate an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.9.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID,
   instantiationState indicating value INSTANTIATED

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/terminate",
         body containing
            TerminateAppRequest containing
               terminationERRORType set to GRACEFUL        //wrong parameter


      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad request"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_006_NF"
Test Objective	Check that MEC API provider service fails to terminate an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.7.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.9.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Instance containing
   appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/terminate"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_OK"
Test Objective	Check that MEC API provider service changes the status of an App Instance
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.8.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID,
   instantiationState indicating value INSTANTIATED,
   operationalState indicating value INITIAL_STATE

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/operate",
         body containing
            OperateAppRequest containing
               changeStateTo set to STOPPED


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted",
         headers containing
            Location set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}"

       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_BR"
Test Objective	Check that MEC API provider service fails to operate on an App Instance when it receives a malformed request
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.8.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Instance containing
   appInstanceId indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}/operate",
         body containing
            OperateAppRequest containing
               changeERRORStateTo set to any_value        //wrong parameter


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad request"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_007_NF"
Test Objective	Check that MEC API provider service fails to change the status of an App Instance when it receives a request related to a not existing App Instance
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.8.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.8.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Instance containing
   appInstanceId indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/{NON_EXISTENT_APP_INSTANCE_ID}/operate"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_008_OK"
Test Objective	Check that MEC API provider service retrieves info about LCM Operation Occurrence on App Instances when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.9.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.13.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_Lcm_Op_Occ containing
   appLcmOpOccId indicating value APP_LCM_OP_OCC_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            AppLcmOpOccList containing
               AppLcmOpOcc containing
                  id set to APP_LCM_OP_OCC_ID,
                  operationState set to OPERATIONAL_STATE,//It must be either STARTING or
PROCESSING or COMPLETED or FAILED or FAILED_TEMP
                  stateEnteredTime set to any_value,
                  startTime set to any_value,
                  lcmOperation set to LCM_OPERATION, //It must be either INSTANTIATE or OPERATE or
TERMINATE
                  _links containing
                     self set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}",
                     appInstance set to any_value




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_009_OK"
Test Objective	Check that MEC API provider service retrieves info about LCM Operation Occurrence on an App Instance when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.10.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.14.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_Lcm_Op_Occ containing
   appLcmOpOccId indicating value APP_LCM_OP_OCC_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            AppLcmOpOcc containing
               id set to APP_LCM_OP_OCC_ID,
               operationState set to OPERATIONAL_STATE,//It must be either STARTING or PROCESSING
or COMPLETED or FAILED or FAILED_TEMP
               stateEnteredTime set to any_value,
               startTime set to any_value,
               lcmOperation set to LCM_OPERATION, //It must be either INSTANTIATE or OPERATE or
TERMINATE
               _links containing
                  self set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}",
                  appInstance set to any_value




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_009_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a query for a not existing LCM Operation Occurrence
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.10.1.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Lcm_Op_Occ containing
   appLcmOpOccId indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{NON_EXISTENT_APP_LCM_OP_OCC_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_010_OK"
Test Objective	Check that MEC API provider service creates a LCM Subscription when requested, where the subscription request can have SUBSCRIPTION_TYPE AppInstanceStateChangeSubscription or AppLcmOpOccStateChangeSubscription
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.12.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.14.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.25.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.28.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.10.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.15.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.26.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.29.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

with {
the IUT being_in idle_state
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vPOST containing
uri indicating value "/app_lcm/v1/subscriptions"
body containing
AppInstSubscriptionRequest containing
callbackUri set to CALLBACK_URI,
subscriptionType set to SUBSCRIPTION_TYPE
 	
from the MEC_CONSUMER entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "201 Created",
body containing
AppInstSubscriptionRequest containing
subscriptionId set to any_value,
subscriptionType set to SUBSCRIPTION_TYPE,
callbackUri set to CALLBACK_URI,
_links containing
_self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"
 	
to the MEC_CONSUMER entity
}
}	

TP Id	"TP_MEC_MEC010p2_MEX_LCM_010_BR"
Test Objective	Check that MEC API provider service sends an error when it receives a malformed request to create a LCM Subscription
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.12.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.14.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.25.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.28.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.10.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.15.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.26.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.29.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

with {
the IUT being_in idle_state
}	

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/subscriptions"
         body containing
            AppInstSubscriptionRequest containing
               callbackERRORUri set to CALLBACK_URI        //wrong parameter



      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_011_OK"
Test Objective	Check that MEC API provider service sends the list of LCM Subscriptions when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.3.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.12.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.14.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.25.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.28.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.10.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.15.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.26.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.29.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID,
    subscriptionType indicating value SUBSCRIPTION_TYPE,
    callbackUri indicating value URI

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/subscriptions"

      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            SubscriptionInfoList containing
               SubscriptionInfo containing
                  subscriptionId set to SUBSCRIPTION_ID,
                  subscriptionType set to SUBSCRIPTION_TYPE,
                  callbackUri set to URI,
                  _links containing
                   _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_012_OK"
Test Objective	Check that MEC API provider service sends the information about an existing LCM subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.4.3.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.10.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.15.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.26.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.29.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a Subscription containing
   subscriptionId indicating value SUBSCRIPTION_ID,
   subscriptionType indicating value SUBSCRIPTION_TYPE,
   callbackUri indicating value URI

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"

      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            SubscriptionInfo containing
               subscriptionId set to SUBSCRIPTION_ID,
               subscriptionType set to SUBSCRIPTION_TYPE,
               callbackUri set to URI,
               _links containing
                   _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_012_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a query for a not existing LCM Subscription
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.3.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_Instance_Subscription containing
   subscriptionId set to NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/app_lcm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_013_OK"
Test Objective	Check that MEC API provider service delete an existing LCM Subscription when requested
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.4.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a Subscription containing
   subscriptionId indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"

      from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "204 No Content"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_013_NF"
Test Objective	Check that MEC API provider service sends an error when it receives a deletion request for a not existing LCM Subscription
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.3.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_Instance_Subscription containing
   subscriptionId set to NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/app_lcm/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_OK"
Test Objective	Check that MEC API provider service cancels an on going LCM Operation
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.32.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a AppLcmOpOcc containing
   id indicating value APP_LCM_OP_OCC_ID,
   operationState indicating value PROCESSING,
   stateEnteredTime indicating value any_value,
   startTime indicating value any_value,
   lcmOperation indicating value INSTANTIATE,
   _links containing
     _self set to "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}",
     appInstance set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"
```

```
    }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/cancel"
         body containing
            CancelMode containing
               CancelMode set to GRACEFUL


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "202 Accepted"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_BR"
Test Objective	Check that MEC API provider service fails to cancel an on going LCM Operation when it receives a malformed request
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.32.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT having a App_LCM_op_occ containing
   id indicating value APP_LCM_OP_OCC_ID
}
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/cancel",
         body containing
            CancelMode containing
               CancelMode set to GRACEFULLL        //It should be GRACEFUL


       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad request"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_014_NF"
Test Objective	Check that MEC API provider service fails to cancel an on going LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2V3.1.1 [3], clause 7.4.11.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.32.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT

Initial Conditions

```
with {
the IUT not having a App_LCM_op_occ containing
   id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/cancel"
       from the MEC_CONSUMER entity
```

```
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_015_OK"
Test Objective	Check that MEC API provider service makes failed an on going LCM Operation
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.12.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_LCM_op_occ containing
   id indicating value APP_LCM_OP_OCC_ID,
   operationStates indicating value FAILED_TEMP
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_instances/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/fail"
         from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK"
         body containing
            AppLcmOpOcc containing
               SubscriptionInfo containing
                  id set to APP_LCM_OP_OCC_ID,
                  operationState set to FAILED,
                  stateEnteredTime set to any_value,
                  startTime set to any_value,
                  lcmOperation set to any_value,
                  _links containing
                   _self set to "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}",
                   appInstance set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"




       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_015_NF"
Test Objective	Check that MEC API provider service fails to make failed an on going LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.12.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_LCM_op_occ containing
  id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/fail"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_016_OK"
Test Objective	Check that MEC API provider service retries an on going LCM Operation
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.13.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT having a App_LCM_op_occ containing
   id indicating value APP_LCM_OP_OCC_ID,
   operationStates indicating value FAILED_TEMP
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{APP_LCM_OP_OCC_ID}/retry"
         from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 Accepted"
         to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_016_NF"
Test Objective	Check that MEC API provider service fails to retry an LCM Operation when it receives a request related to a not existing application LCM Operation
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.13.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_MANAGEMENT
Initial Conditions	

```
with {
the IUT not having a App_LCM_op_occ containing
   id indicating value NON_EXISTENT_APP_LCM_OP_OCC_ID
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/app_lcm/v1/app_lcm_op_occs/{NON_EXISTENT_APP_INSTANCE_ID}/retry"
       from the MEC_CONSUMER entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC010p2_MEX_LCM_017_OK"
Test Objective	Check that MEC API provider sends a notification to the subscriber when an application LCM change event occurs
Reference	ETSI GS MEC 010-2 V3.1.1 [3], clause 7.4.5.3.1 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.11.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.3.1.16.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.27.2 ETSI GS MEC 010-2 V3.1.1 [3], clause 6.2.2.30.2
Configuration	Config_MEC_6
PICS Selection	PIC_APP_LCM_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a App_Instance_Subscription containing
   subscriptionType indicating value SUBSCRIPTION_TYPE,
   callbackUri indicating value CALLBACK_URI,
   _links containing
```

```
   self indicating value "/app_lcm/v1/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
       the IUT generates a application_lcm_change_event containing
         notificationId set to NOTIFICATION_ID
      }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            Notification containing
               id set to NOTIFICATION_ID,
               notificationType set to NOTIFICATION_TYPE,
               subscriptionId set to SUBSCRIPTION_ID,
               timeStamp set to any_value,
               appInstanceId set to APP_INSTANCE_ID,
               appDId set to any_value,
               _links containing
                      subscription set to "/app_lcm/v1/app_instances/{APP_INSTANCE_ID}"



       to the MEC_SUB entity
   }
}
```

6.3 MEC011

6.3.1 Services (SRV)

6.3.1.1 Application Service Availability Query (APPSAQ)

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_001_OK"
Test Objective	Check that the IUT responds with a list of available MEC services for a given application instance when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.6.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceInfo set to any_value // @TODO: Should be a list of ServiceInfos. How can we
express it in TDL?
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services"
         query_parameters containing
            instance_id indicating value any_value // Wrong parameter name should trigger an error
response.
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.6.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_002_OK"
Test Objective	Check that the IUT notifies the authorised relevant (subscribed) application instances when a new service for a given application instance is registered
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_Services and PIC_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the MEC_APP_Registrant being_in idle_state and
the MEC_APP_Subscriber subscribed_to the MP1_SUBSCRIPTION_A
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services",
         body containing
            ServiceInfo containing
               serName indicating value SERVICE_NAME
      from the MEC_APP_Registrant entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.6.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            ServiceInfo containing
               serName set to SERVICE_NAME
      to the MEC_APP_Registrant entity
      and the IUT sends a notification_message containing
         body containing
            notificationType set to "SerAvailabilityNotificationSubscription",
            services containing
```

```
               serName set to SERVICE_NAME
            _links containing
               subscription set to MP1_SUBSCRIPTION_A
      to the MEC_APP_Subscriber entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the MEC_APP_Registrant being_in idle_state and
the MEC_APP_Subscriber subscribed_to the MP1_SUBSCRIPTION_A
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services",
         body containing
            ServiceInfo containing
               Name indicating value SERVICE_NAME // Wrong parameter name should trigger an error
response.
      from the MEC_APP_Registrant entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.6.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP_Registrant entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID and
the MEC_APP_Registrant being_in idle_state and
the MEC_APP_Subscriber subscribed_to the MP1_SUBSCRIPTION_A
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/services",
         body containing
            ServiceInfo containing
               serName indicating value SERVICE_NAME
      from the MEC_APP_Registrant entity
   }
   then {
```

```
      // MEC 011 V3.2.1, clause 8.2.6.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP_Registrant entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_003_OK"
Test Objective	Check that the IUT responds with the information on a specific service for a given application instance when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceInfo containing
               serInstanceId set to SERVICE_ID
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a services_running containing
   service_id indicating value NON_EXISTENT_SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{NON_EXISTENT_SERVICE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
```

```
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_004_OK"
Test Objective	Check that the IUT updates a service information for a given application instance when commanded by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}",
         body containing
            ServiceInfo containing
               version indicating value NEW_VERSION
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceInfo containing
               version set to NEW_VERSION
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}",
         body containing
            ServiceInfo containing
               a_version indicating value NEW_VERSION // Wrong parameter name should trigger an
error response.
      from the MEC_APP entity
   }
```

```
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT andPLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a services_running containing
   service_id indicating value NON_EXISTENT_SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{NON_EXISTENT_SERVICE_ID}",
         body containing
            ServiceInfo containing
               version indicating value NEW_VERSION
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_004_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
 and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID

      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}",
         if_match indicating value INVALID_ETAG,
         body containing
            ServiceInfo containing
               version indicating value NEW_VERSION
```

```
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "412 Precondition Failed"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_005_OK"
Test Objective	Check that the IUT executes the deletion of a service for a given application instance when requested by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{SERVICE_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSAQ_005_NF"
Test Objective	Check that the IUT responds with an error when a request for deletion of a unknown service is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 8.2.7.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.4
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/services/{NON_EXISTENT_SERVICE_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.7.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
```

```
      to the MEC_APP entity
   }
}
```

6.3.1.2 Application Subscriptions (APPSUB)

TP Id	"TP_MEC_MEC011_SRV_APPSUB_001_OK"
Test Objective	Check that the IUT responds with a list of subscriptions for notifications on services availability when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            SubscriptionLinkList set to any_value
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_002_OK"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications on termination events
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.3.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having any subscriptions
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 7.2.3.3.4
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions"
         body containing
            AppTerminationNotificationSubscription containing
               subscriptionType indicating value "AppTerminationNotificationSubscription",
               callbackReference indicating value some_uri
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.1.4.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            AppTerminationNotificationSubscription containing
               subscriptionType set to "AppTerminationNotificationSubscription",
               callbackReference set to some_uri
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.3.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having any subscriptions
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6.2
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions"
         body containing
            AppTerminationNotificationSubscription containing
               subscriptionType indicating value "INVALID_SUBSCRIPTION_TYPE", // Unknown value
should trigger an error response.
               callbackReference indicating value some_uri
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.3.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_003_OK"
Test Objective	Check that the IUT responds with the information on a specific subscription when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            AppTerminationNotificationSubscription containing
               subscriptionType set to "AppTerminationNotificationSubscription"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a subscriptions containing
   subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_004_OK"
Test Objective	Check that the IUT acknowledges the unsubscribe from app termination event notifications when commanded by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.4.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_APPSUB_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.4.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.3.1.3 Confirmation Tasks (CONFTASK)

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_001_OK"
Test Objective	Check that the IUT responds that it has completed the application level termination
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.4.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.3
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/confirm_termination"
         body containing
            AppTerminationConfirmation containing
               operationAction indicating value "TERMINATING"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.11.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an operationAction is sent to an unknown application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.4.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXSITENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXSITENT_APP_INSTANCE_ID}/confirm_termination"
         body containing
            AppTerminationConfirmation containing
               operationAction indicating value "TERMINATING"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_002_OK"
Test Objective	Check that the IUT responds that the MEC application is up and running
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.4.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.12.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.2
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/confirm_ready"
         body containing
            AppReadyConfirmation containing
               indication indicating value "READY"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.12.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_CONFTASK_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an indication is sent to an unknown application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.4.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.12.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXSITENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXSITENT_APP_INSTANCE_ID}/confirm_ready"
         body containing
            AppReadyConfirmation containing
               indication indicating value "READY"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.12.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.3.1.4 DNS rules (DNS)

TP Id	"TP_MEC_MEC011_SRV_DNS_001_OK"
Test Objective	Check that the IUT responds with a list of active DNS rules when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.9.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            DnsRule set to any_value //@TODO: Should be a list of DnsRules. How can this be
expressed in TDL?
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_001_NF"
Test Objective	Check that the IUT responds with a list of active DNS rules when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTANT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXISTANT_APP_INSTANCE_ID}/dns_rules"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.9.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_002_OK"
Test Objective	Check that the IUT responds with the information on a specific DNS rule when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a dns_rules containing
   rule_id indicating value DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            DnsRule containing
               dnsRuleId set to DNS_RULE_ID
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a dns_rules containing
   rule_id indicating value NON_EXISTENT_DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{NON_EXISTENT_DNS_RULE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_003_OK"
Test Objective	Check that the IUT updates a specific DNS rule when commanded by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a dns_rules containing
   rule_id indicating value DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}",
         if_match indicating value PROPER_ETAG
         body containing
            dnsRuleId indicating value DNS_RULE_NAME,
            ipAddress indicating value SOME_IP_ADDRESS
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            DnsRule containing
               dnsRuleId set to DNS_RULE_NAME,
               ipAddress set to SOME_IP_ADDRESS
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID  and
the IUT having a dns_rules containing
   rule_id indicating value DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}",
         if_match indicating value PROPER_ETAG
         body containing
            dnsRuleId indicating value DNS_RULE_NAME,
            state indicating value UNKNOWN_VALUE // Unknown parameter value should trigger an
error response.
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.2
      the IUT sends a HTTP_RESPONSE containing
```

```
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a dns_rules containing
   rule_id indicating value NON_EXISTENT_DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{NON_EXISTENT_DNS_RULE_ID}",
         if_match indicating value PROPER_ETAG
         body containing
            dnsRuleId indicating value DNS_RULE_NAME,
            ipAddress indicating value SOME_IP_ADDRESS
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.10.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_DNS_003_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.8 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a dns_rules containing
   rule_id indicating value DNS_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.8
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/dns_rules/{DNS_RULE_ID}",
         if_match indicating value INVALID_ETAG
         body containing
            dnsRuleId indicating value DNS_RULE_NAME,
            ipAddress indicating value SOME_IP_ADDRESS
      from the MEC_APP entity
   }
   then {
```

```
      // MEC 011 V3.2.1, clause 7.2.10.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "412 Precondition Failed"
      to the MEC_APP entity
   }
}
```

6.3.1.5 MEC Service Liveness (LIV)

TP Id	"TP_MEC_MEC011_SRV_MSL_001_OK"
Test Objective	Check that the IUT responds with the liveness of a MEC service instance when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.12
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "link/to/individual/mecServiceLiveness"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.10.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceLivenessInfo containing
               ServiceState set to "ACTIVE"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_MSL_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "not_existing_link/to/individual/mecServiceLiveness"
      from the MEC_APP entity
   }
   then {
```

```
      // MEC 011 V3.2.1, clause 8.2.10.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_MSL_002_OK_01"
Test Objective	Check that the IUT updates the liveness of a MEC service instance when requested by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   state set to "SUSPENDED",
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.12
ensure that {
   when {
      the IUT receives a vPATCH containing
         Uri indicating value "link/to/individual/mecServiceLiveness",
         body containing
         ServiceLivenessUpdate containing
               state set to "ACTIVE"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.10.3.3
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceLivenessInfo containing
               state set to "ACTIVE"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_MSL_002_OK_02"
Test Objective	Check that the IUT updates the liveness of a MEC service instance when requested by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   state set to "ACTIVE",
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.12
ensure that {
   when {
      the IUT receives a vPATCH containing
         Uri indicating value "link/to/individual/mecServiceLiveness",
         body containing
```

```
         ServiceLivenessUpdate containing
               state set to "ACTIVE"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.10.3.3
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_MSL_002_BR"
Test Objective	Check that the IUT responds with an error when incorrect parameters were sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   state set to "INACTIVE",
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.12
ensure that {
   when {
      the IUT receives a vPATCH containing
         Uri indicating value "link/to/individual/mecServiceLiveness",
         body containing
         ServiceLivenessInfo containing
               state set to "INACTIVE"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.10.3.3
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_MSL_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.12 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.10.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID,
   state set to "INACTIVE",
   _links containing
      self set to "link/to/this/resource",
      liveness set to "link/to/individual/mecServiceLiveness"
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.12
ensure that {
   when {
      the IUT receives a vPATCH containing
```

```
         Uri indicating value "not_existing_link/to/individual/mecServiceLiveness",
         body containing
         ServiceLivenessInfo containing
               state set to "ACTIVE"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.10.3.3
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.3.1.6 Service Availability Query (SAQ)

TP Id	"TP_MEC_MEC011_SRV_SAQ_001_OK"
Test Objective	Check that the IUT responds with a list of available MEC services when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value"/mec_service_mgmt/v1/services"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceInfo set to any_value // @TODO: It should be a list of ServiceInfos. How to
express it in TDL?
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SAQ_001_BR"
Test Objective	Check that the IUT responds with an error when incorrect parameters were sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value"/mec_service_mgmt/v1/services"
         query_parameters containing
            instance_id indicating value any_value // Wrong parameter name should trigger an error
response.
      from the MEC_APP entity
   }
   then {
```

```
      // MEC 011 V3.2.1, clause 8.2.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SAQ_002_OK"
Test Objective	Check that the IUT responds with the information on a specific service when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a services_running containing
   service_id indicating value SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value"/mec_service_mgmt/v1/services/{SERVICE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            ServiceInfo containing
               serInstanceId set to SERVICE_ID,
               _links containing
                   self set to "link/to/resource",
                   liveness set to "ACTIVE"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SAQ_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a services_running containing
   service_id indicating value NON_EXISTENT_SERVICE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value"/mec_service_mgmt/v1/services/{NON_EXISTENT_SERVICE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.3.1.7 Service Subscriptions (SRVSUB)

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_001_OK"
Test Objective	Check that the IUT responds with a list of subscriptions for notifications on services availability when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.8.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            SubscriptionLinkList containing
               links containing
                  self set to any_value
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{NON_EXISTENT_APP_INSTANCE_ID}/subscriptions"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.8.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_002_OK"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications on service availability events
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.8.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6.2
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions"
         body containing
            SerAvailabilityNotificationSubscription containing
               subscriptionType indicating value "SerAvailabilityNotificationSubscription",
               callbackReference indicating value some_uri
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.8.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            SerAvailabilityNotificationSubscription containing
               subscriptionType set to "SerAvailabilityNotificationSubscription",
               callbackReference set to some_uri
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.8.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6.2
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions"
         body containing
            SerAvailabilityNotificationSubscription containing
               subscriptionType indicating value INVALID_SUBSCRIPTION, // Unknown value should
trigger an error response.
               callbackReference indicating value some_uri
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.8.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_003_OK"
Test Objective	Check that the IUT responds with the information on a specific subscription when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.9.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            SerAvailabilityNotificationSubscription containing
               subscriptionType set to "SerAvailabilityNotificationSubscription"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a subscriptions containing
   subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.9.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_004_OK"
Test Objective	Check that the IUT acknowledges the unsubscribe from service availability event notifications when commanded by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.9.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.9.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_SRVSUB_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.9.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a subscriptions containing
   subscription_id indicating value NOT_EXISTENT_SUBSCRIPTION_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.6
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value
"/mec_service_mgmt/v1/applications/{APP_INSTANCE_ID}/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.9.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.3.1.8 Timing capabilities (TIME)

TP Id	"TP_MEC_MEC011_SRV_TIME_001_OK"
Test Objective	Check that the IUT responds with timing capabilities when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.10.3 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.4 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.10.3
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "mec_app_support/v2/timing/timing_caps"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            TimingCaps set to any_value
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TIME_002_OK"
Test Objective	Check that the IUT responds with current time when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.10.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.5 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.10.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "mec_app_support/v2/timing/current_time"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.6.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            CurrentTime containing
               seconds set to CURRENT_TIME_SECONDS,
               nanoSeconds set to CURRENT_TIME_NANOSECONDS,
               timeSourceStatus set to TIME_SOURCE_STATUS
      to the MEC_APP entity
   }
}
```

6.3.1.9 Traffic rules (TRAF)

TP Id	"TP_MEC_MEC011_SRV_TRAF_001_OK"
Test Objective	Check that the IUT responds with a list of available traffic rules when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            TrafficRule set to any_value //@TODO: Should be a list of TrafficRules. How can this
be expressed in TDL
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{NON_EXISTENT_APP_INSTANCE_ID}/traffic_rules"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown traffic rule when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT entity having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT entity having a traffic_rules containing
   rule_id indicating value UNKNOWN_TRAFFIC_RULE_ID
}
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
    when {
        the IUT entity receives a vGET containing
            uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{UNKNOWN_TRAFFIC_RULE_ID}"
        from the MEC_APP entity
}
    then {
        // MEC 011 V3.2.1, clause 7.2.8.3.1
        the IUT entity sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_002_OK"
Test Objective	Check that the IUT responds with the information on a specific traffic rule when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a traffic_rules containing
   rule_id indicating value TRAFFIC_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.8.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            TrafficRule containing
               trafficRuleId set to TRAFFIC_RULE_ID
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_OK"
Test Objective	Check that the IUT updates a specific traffic rule when commanded by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a traffic_rules containing
   rule_id indicating value TRAFFIC_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}",
         body containing
            TrafficRule containing
               action indicating value "DROP"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            TrafficRule containing
               trafficRuleId set to TRAFFIC_RULE_ID,
               action set to "DROP"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a traffic_rules containing
   rule_id indicating value TRAFFIC_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}",
         body containing
            TrafficRule containing
               action indicating value UNKNOWN_VALUE // Invalid parameter value should trigger an
error response.
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"
      to the MEC_APP entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT not having a traffic_rules containing
   rule_id indicating value NON_EXISTENT_TRAFFIC_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{NON_EXISTENT_TRAFFIC_RULE_ID}",
         body containing
            TrafficRule containing
               action indicating value "DROP"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_TRAF_003_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.7 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.2 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   instance_id indicating value APP_INSTANCE_ID and
the IUT having a traffic_rules containing
   rule_id indicating value TRAFFIC_RULE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.7
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value
"mec_app_support/v2/applications/{APP_INSTANCE_ID}/traffic_rules/{TRAFFIC_RULE_ID}",
         if_match indicating value INVALID_ETAG,
         body containing
            TrafficRule containing
               action indicating value "DROP"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "412 Precondition Failed"
```

```
      to the MEC_APP entity
   }
}
```

6.3.1.10 Transport (TRANS)

TP Id	"TP_MEC_MEC011_SRV_TRANS_001_OK"
Test Objective	Check that the IUT responds with a list of available transports when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.9 ETSI GS MEC 011 V3.2.1 [4], clause 8.1.2.3 ETSI GS MEC 011 V3.2.1 [4], clause 8.2.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.9
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/mec_service_mgmt/v1/transports"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 8.2.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
             TransportInfo set to any_value // @TODOL Should be a TransportInfo list. How to
express this in TDL?
      to the MEC_APP entity
   }
}
```

6.3.1.11 Register Apps Service (REGAPPS)

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_OK_01"
Test Objective	Check that the IUT acknowledges the registration by a MEC Application to the MEC platform
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   appName indicating value APP_NAME
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         headers containing
            Location indicating value "{RESOURCE_ID}",
         body containing
            AppInfo containing
```

```
               appName indicating value APP_NAME
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_OK_02"
Test Objective	Check that the IUT acknowledges the registration by a MEC Application to the MEC platform
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   appName indicating value APP_NAME,
   appInstanceID indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceID indicating value APP_INSTANCE_ID
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         headers containing
            Location indicating value "{RESOURCE_ID}",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceID indicating value APP_INSTANCE_ID
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_OK_03"
Test Objective	Check that the IUT acknowledges the registration by a MEC Application instantiated by the MEC platform
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   appName indicating value APP_NAME,
   appInstanceID indicating value APP_INSTANCE_ID,
   appDId indicating value APP_D_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceID indicating value APP_INSTANCE_ID,
               appDId indicating value APP_D_ID,
```

```
               endpoint indicating value any_value
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         headers containing
            Location indicating value "{RESOURCE_ID}",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceID indicating value APP_INSTANCE_ID,
               appDId indicating value APP_D_ID,
               endpoint indicating value any_value
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_01"
Test Objective	Check that the IUT responds with an error message when the IUT received a registration with missing fields from a MEC Application instantiated by the MEC platform
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having an app_instance containing
   appName indicating value APP_NAME,
   appInstanceID indicating value APP_INSTANCE_ID,
   appDId indicating value APP_D_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceID indicating value APP_INSTANCE_ID,
               appDId indicating value omit
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_02"
Test Objective	Check that the IUT responds with an error message when the IUT received by a MEC Application registration with missing endpoint
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having an app_instance containing
   appName indicating value APP_NAME_REGISTERED,
   appInstanceID indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

// MEC 011 V3.2.1, clause 5.2.13
ensure that {
when {
the IUT receives a vPOST containing
uri indicating value "/mec_app_support/v2/registrations",
body containing
AppInfo containing
appName indicating value APP_NAME,
appInstanceID indicating value APP_INSTANCE_ID,
isInsByMec indicating value false,
endpoint indicating value omit
from the MEC_APP entity
}
then {
// MEC 011 V3.2.1, clause 7.2.13.3.4
the IUT sends a HTTP_RESPONSE containing
status set to "400 Bad Request"
to the MEC_APP entity
}
}

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_03"
Test Objective	Check that the IUT responds with an error message when the IUT received by a MEC Application registration with unexpected appServiceRequired
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having an app_instance containing
appName indicating value APP_NAME_REGISTERED,
appDId indicating value APP_D_ID
}	

Expected Behaviour	

// MEC 011 V3.2.1, clause 5.2.13
ensure that {
when {
the IUT receives a vPOST containing
uri indicating value "/mec_app_support/v2/registrations",
body containing
AppInfo containing
appName indicating value APP_NAME,
appIappServiceRequirednstanceID indicating value APP_D_ID,
appServiceRequired indicating value any_value
from the MEC_APP entity
}
then {
// MEC 011 V3.2.1, clause 7.2.13.3.4
the IUT sends a HTTP_RESPONSE containing
status set to "400 Bad Request"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_04"
Test Objective	Check that the IUT responds with an error message when the IUT received by a MEC Application registration with unexpected appServiceOptional
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the IUT having an app_instance containing appName indicating value APP_NAME_REGISTERED,	

```
   appDId indicating value APP_D_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appIappServiceRequirednstanceID indicating value APP_D_ID,
               appServiceOptional indicating value any_value
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_05"
Test Objective	Check that the IUT responds with an error message when the IUT received by a MEC Application registration with unexpected appFeatureRequired
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having an app_instance containing
   appName indicating value APP_NAME_REGISTERED,
   appDId indicating value APP_D_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appIappServiceRequirednstanceID indicating value APP_D_ID,
               appFeatureRequired indicating value any_value
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_001_BR_06"
Test Objective	Check that the IUT responds with an error message when the IUT received by a MEC Application registration with unexpected appFeatureOptional
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.13.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having an app_instance containing
   appName indicating value APP_NAME_REGISTERED,
```

```
   appDId indicating value APP_D_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/mec_app_support/v2/registrations",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appIappServiceRequirednstanceID indicating value APP_D_ID,
               appFeatureOptional indicating value any_value
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.13.3.4
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_002_OK"
Test Objective	Check that the IUT responds with the AppInfo description when queried by a MEC Application
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/mec_app_support/v2/registrations/{APP_INSTANCE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.14.3.1
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceId indicating value APP_INSTANCE_ID
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_002_NF"
Test Objective	Check that the IUT responds with an error when it receives a request for returning an AppInfo with a wrong ID
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

// MEC 011 V3.2.1, clause 5.2.13
ensure that {
  when {
  the IUT receives a vGET containing
  uri indicating value "/mec_app_support/v2/registrations/{NOT_EXISTING_APP_INSTANCE_ID}"
  from the MEC_APP entity
  }
  then {
  // MEC 011 V3.2.1, clause 7.2.14.3.1
  the IUT sends a HTTP_RESPONSE containing
  status set to "404 Not Found"
  to the MEC_APP entity
  }
}

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_003_OK"
Test Objective	Check that the IUT responds with 204 No Content when queried to update MEC Application registration
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
  appName indicating value APP_NAME,
  appInstanceId indicating value APP_INSTANCE_ID
  }	

Expected Behaviour	

// MEC 011 V3.2.1, clause 5.2.13
ensure that {
  when {
  the IUT receives a vPUT containing
  uri indicating value "/mec_app_support/v2/registrations/{APP_INSTANCE_ID}",
  body containing
  AppInfo containing
  appName indicating value APP_NAME,
  appInstanceId indicating value APP_INSTANCE_ID,
  appCategory indicating value any_value
  from the MEC_APP entity
  }
  then {
  // MEC 011 V3.2.1, clause 7.2.14.3.2
  the IUT sends a HTTP_RESPONSE containing
  status set to "204 No Content"
  to the MEC_APP entity
  }
}	

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_003_NF"
Test Objective	Check that the IUT responds with an error when queried to update MEC Application registration with a wrong ID
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
  appName indicating value APP_NAME,
  appInstanceId indicating value APP_INSTANCE_ID
  }	

Expected Behaviour	

// MEC 011 V3.2.1, clause 5.2.13
ensure that {
  when {
  the IUT receives a vPUT containing	

```
         uri indicating value "/mec_app_support/v2/registrations/{NOT_EXISTING_APP_INSTANCE_ID}",
         body containing
            AppInfo containing
               appName indicating value APP_NAME,
               appInstanceId indicating value APP_INSTANCE_ID,
               appCategory indicating value any_value
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.14.3.2
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_004_OK"
Test Objective	Check that the IUT responds with 204 No Content when queried to delete an existing MEC Application registration
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a apps_instance containing
   appName indicating value APP_NAME,
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/mec_app_support/v2/registrations/{APP_INSTANCE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.14.3.2
      the IUT sends a HTTP_RESPONSE containing
         status set to "204 No Content"
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC011_SRV_REGAPPS_004_NF"
Test Objective	Check that the IUT responds with an error when queried to delete an unknown MEC Application registration
Reference	ETSI GS MEC 011 V3.2.1 [4], clause 5.2.13 ETSI GS MEC 011 V3.2.1 [4], clause 7.1.2.6 ETSI GS MEC 011 V3.2.1 [4], clause 7.2.14.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a apps_instance containing
   appName indicating value APP_NAME,
   appInstanceId indicating value APP_INSTANCE_ID
      }
```

Expected Behaviour

```
// MEC 011 V3.2.1, clause 5.2.13
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/mec_app_support/v2/registrations/{NOT_EXISTING_APP_INSTANCE_ID}"
      from the MEC_APP entity
   }
   then {
      // MEC 011 V3.2.1, clause 7.2.14.3.2
```

```
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
      to the MEC_APP entity
   }
}
```

6.4 MEC012

6.4.1 Services (SRV)

6.4.1.1 Radio Network Information Service (RNIS)

TP Id	"TP_MEC_MEC012_SRV_RNIS_001_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about cell change if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.2 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "CellChangeSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaAssocHo containing
      associateIdList containing
         associateId set to ASSOCIATE_ID



      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a cell_change_event containing
         associateId set to ASSOCIATE_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "CellChangeNotification",
            associateId set to ASSOCIATE_ID,
            srcEcgi set to any_value,
            trgEcgi set to any_value,
            hoStatus set to any_value

       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_002_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB establishment if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.3 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "RabEstSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaQci containing
      qci set to QCI


      }
```

Expected Behaviour

ensure that {
  when {
  the IUT generates a rab_establish_event containing
  erabQosParameters containing
  qci set to QCI
 	
  }
  then {
  the IUT sends a vPOST containing
  uri indicating value CALLBACK_URI,
  body containing
  notificationType indicating value "RabEstNotification",
  ecgi set to any_value,
  erabId set to any_value,
  erabQosParameters containing
  qci set to QCI,
  qosInformation set to any_value
 	
  to the MEC_SUB entity
  }
}

TP Id	"TP_MEC_MEC012_SRV_RNIS_003_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB modification if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.4 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

with {
the IUT having a RNIS_subscription containing
  subscriptionType indicating value "RabModSubscription",
  callbackReference indicating value CALLBACK_URI,
  filterCriteriaQci containing
  erabId set to E_RAB_ID
 	
  }	

Expected Behaviour	

ensure that {
  when {
  the IUT generates a rab_modification_event containing
  erabId set to E_RAB_ID
  }
  then {
  the IUT sends a vPOST containing
  uri indicating value CALLBACK_URI,
  body containing
  notificationType indicating value "RabModNotification",
  ecgi set to any_value,
  erabId set to E_RAB_ID
 	
  to the MEC_SUB entity
  }
}	

TP Id	"TP_MEC_MEC012_SRV_RNIS_004_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about RAB release if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.5 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

with {
the IUT having a RNIS_subscription containing
  subscriptionType indicating value "RabRelSubscription",
  callbackReference indicating value CALLBACK_URI,
  filterCriteriaQci containing	

```
      erabId set to E_RAB_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a rab_release_event containing
         erabId set to E_RAB_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "RabRelNotification",
            ecgi set to any_value,
            erabReleaseInfo containing
               erabId set to E_RAB_ID


       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_005_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE measurement report if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.6 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "MeasRepUeSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaAssocTri containing
      ecgi set to ECGI


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a measurement_repost_event containing
         ecgi set to ECGI
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "MeasRepUeNotification",
            ecgi set to ECGI,
            rsrp set to any_value,
            rsrq set to any_value,
            trigger set to any_value

       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_006_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE timing advance if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.7 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "MeasTaSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaAssoc containing
      ecgi set to ECGI


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a timing_advance_event containing
         ecgi set to ECGI
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "MeasTaNotification",
            ecgi set to ECGI,
            timingAdvance set to any_value

       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_007_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about UE carrier aggregation reconfiguration if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.8 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS
Initial Conditions	

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "CaReconfSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaAssoc containing
      associateId set to ASSOCIATE_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a carrier_aggregation_reconfiguration_event containing
         associateId set to ASSOCIATE_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "CaReConfNotification",
            ecgi set to any_value,
            associateId set to ASSOCIATE_ID

       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_008_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about S1-U bearer if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.10 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "S1BearerSubscription",
   callbackReference indicating value CALLBACK_URI,
   s1BearerSubscriptionCriteria containing
      associateId set to ASSOCIATE_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a S1_bearer_event containing
         associateId set to ASSOCIATE_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "S1BearerNotification",
            s1Event set to any_value,
            s1UeInfo containing
               associateId set to ASSOCIATE_ID,
               ecgi set to any_value,
               s1BearerInfo set to any_value


       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_009_OK"
Test Objective	Check that the RNIS service sends an RNIS notification about 5G NR UE measurement report if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.11 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "NrMeasRepUeSubscription",
   callbackReference indicating value CALLBACK_URI,
   filterCriteriaNrMrs containing     //the attributes of filterCriteriaNrMrs are FFS - ref.
clause 6.3.11
   associateId indicating value ASSOCIATE_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a nr_measurement_repost_event containing
         associateId set to ASSOCIATE_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "NrMeasRepUeNotification",
            trigger set to any_value,
            associateId set to ASSOCIATE_ID

       to the MEC_SUB entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_010_OK"
Test Objective	Check that the RNIS service sends an RNIS notification on subscription expiration if the RNIS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 6.4.9 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value any_value, //VALID for all subscription types
   callbackReference indicating value CALLBACK_URI,
    _links containing
      self set to SUBSCRIPTION_HREF_VALUE
   ,
   subscriptionId set to SUBSCRIPTION_ID,
   expiryDeadline set to EXPIRY_DEADLINE

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT generates a expiry_notification_event containing
         subscriptionId set to SUBSCRIPTION_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "ExpiryNotification",        //this field is not in
the spec. - ref. clause 6.4.9
            _link containing
              self set to SUBSCRIPTION_HREF_VALUE
            ,
            expiryDeadline set to EXPIRY_DEADLINE

       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_011_BR"
Test Objective	Check that the RNIS service responds with an error when it receives a request to get all RNIS subscriptions with a wrong subscription type
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.6.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionHref indicating value SUBSCRIPTION_HREF_VALUE,
   subscriptionType indicating value SUBSCRIPTION_TYPE

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/subscriptions",
         query_parameters containing
            subscriptionType indicating value "wrongSubscriptionType"    //wrong subscription type

       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_SUB entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_012_BR"
Test Objective	Check that the RNIS service responds with an error when it receives a request to create a new RNIS subscription with a wrong format
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.6.3.4 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/CellChangeSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/rni/v2/subscriptions",
         body containing
            CellChangeSubscription containing
               subscritionType indicating value "CelCangeSubscription",    //wrong subscription
type
               callbackReference indicating value any_value,
               filterCriteriaAssocHo indicating value  any_value,
               expiryDeadline set to any_value


       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_011_OK"
Test Objective	Check that the RNIS service sends the list of links to the relevant RNIS subscriptions when requested. Acceptable SUBSCRIPTION_TYPE are the following: - cell_change Cell Change - rab_est RAB Establishment - rab_mod RAB Modification - rab_rel RAB Release - meas_rep_ue UE Measurement Report - nr_meas_rep_ue 5G NR UE Measurement Report - timing_advance_ue UE Timing Advance - ca_reconf Carrier Aggregation Reconfig - s1_bearer S1 Bearer Notification
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.6.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/SubscriptionLinkList
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionHref indicating value SUBSCRIPTION_HREF_VALUE,
   subscriptionType indicating value SUBSCRIPTION_TYPE

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/subscriptions",
         query_parameters containing
            subscription_type indicating value SUBSCRIPTION_TYPE
```

```
      from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            subscriptionLinkList containing
               subscription containing
                  href indicating value SUBSCRIPTION_HREF_VALUE,
                  subscriptionType indicating value SUBSCRIPTION_TYPE



      to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_012_OK"
Test Objective	Check that the RNIS service creates a new RNIS subscription. Acceptable SUBSCRIPTION_TYPE are the following: - CellChangeSubscription - RabEstSubscription - RabModSubscription - RabRelSubscription - MeasRepUeSubscription - MeasTaSubscription - CaReconfSubscription - S1BearerSubscription - NrMeasRepUeSubscription
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_ALL_SUBSCRIPTIONS

Initial Conditions

```
with {
the IUT being_in idle_state
     }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/rni/v2/subscriptions",
         body containing
            CellChangeSubscription containing
               subscriptionType indicating value SUBSCRIPTION_TYPE,
               callbackReference indicating value CALLBACK_URI


      from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "201 Created",
         body containing
            CellChangeSubscription containing
               subscriptionType indicating value SUBSCRIPTION_TYPE,
               callbackReference indicating value CALLBACK_URI,
               _links containing
               self indicating value URI_TO_SUBSCRIPTION



      to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_013_NF"
Test Objective	Check that the RNIS service responds with error when a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION

Initial Conditions

```
with {
the IUT not having a RNIS_subscription containing
   _links containing
      self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}"
       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_BR"
Test Objective	Check that the RNIS service sends an error when it receives a malformed modify request for a RNIS subscription
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.2 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/CellChangeSubscription
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value "CellChangeSubscription",
   callbackReference indicating value CALLBACK_URI,
   _links containing
      self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}",
         body containing
            subscription containing
               callbackRefer indicating value NEW_CALLBACK_URI,        //wrong field, it should be
callbackReference
               _links containing
                  self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"



       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_NF"
Test Objective	Check that the RNIS service responds with error when a modification for a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.2 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	

```
with {
the IUT not having a RNIS_subscription containing
   _links containing
      self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}"
       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_015_NF"
Test Objective	Check that the RNIS service responds with error when the deletion of a not existing RNIS subscription is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.5 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	

```
with {
the IUT not having a RNIS_subscription containing
   _links containing
      self set to "/rni/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/rni/v2/subscription/{NON_EXISTENT_SUBSCRIPTION_ID}"
       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_013_OK"
Test Objective	Check that the RNIS service sends a RNIS subscription when requested. Acceptable SUBSCRIPTION_TYPE are the following: - CellChangeSubscription - RabEstSubscription - RabModSubscription - RabRelSubscription - MeasRepUeSubscription - MeasTaSubscription - CaReconfSubscription - S1BearerSubscription - NrMeasRepUeSubscription
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value SUBSCRIPTION_TYPE,
   callbackReference indicating value CALLBACK_URI,
   _links containing
      self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"
       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            subscription containing
               subscriptionType indicating value SUBSCRIPTION_TYPE,
               callbackReference indicating value CALLBACK_URI,
               _links containing
                  self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"



       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_014_OK"
Test Objective	Check that the RNIS service modifies a RNIS subscription when requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION

Initial Conditions

```
with {
the IUT having a RNIS_subscription containing
   subscriptionType indicating value SUBSCRIPTION_TYPE,
   callbackReference indicating value CALLBACK_URI,
   _links containing
      self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}",
         body containing
            subscription containing
               subscriptionType indicating value SUBSCRIPTION_TYPE,
               callbackReference indicating value NEW_CALLBACK_URI,
               _links containing
```

```
                self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"



      from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            subscription containing
               subscriptionType indicating value SUBSCRIPTION_TYPE,
               callbackReference indicating value NEW_CALLBACK_URI,
               _links containing
                  self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"



      to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_015_OK"
Test Objective	Check that the RNIS service deletes a RNIS subscription when requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.8.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_SPECIFIC_SUBSCRIPTION
Initial Conditions	

```
with {
the IUT having a RNIS_subscription containing
   callbackReference indicating value CALLBACK_URI,
   _links containing
      self set to "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/rni/v2/subscriptions/{SUBSCRIPTION_ID}"
       from the MEC_SUB entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "204 No Content"
       to the MEC_SUB entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_BR"
Test Objective	Check that the RNIS service returns an error when the RAB information is requested with a malformatted message
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.3.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	

```
with {
the IUT having a RabInfo containing
    cellUserInfo containing
       ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/rab_info",
         query_parameters containing
            cId indicating value C_ID                    //wrong parameter
```

```
      from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_NF"
Test Objective	Check that the RNIS service returns an error when the RAB information for a not existing element is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.3.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT not having a RabInfo containing
   cellUserInfo containing
       ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rnis/v2/queries/rab_info",
         query_parameters containing
            cell_id indicating value NOT_EXISTING_CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_BR"
Test Objective	Check that the RNIS service returns an error when the PLMN information is requested with a malformatted message
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.4.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a PlmnInfo containing
    appInstanceId indicating value APP_INSTANCE_INFO

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/plmn_info",
         query_parameters containing
            cId indicating value C_ID                    //wrong parameter

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_NF"
Test Objective	Check that the RNIS service returns an error when the PLMN information for a not existing element is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.4.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	

```
with {
the IUT not having a PlmnInfo containing
   appInstanceId indicating value NOT_EXISTENT_APP_INSTANCE_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rnis/v2/queries/plmn_info",
         query_parameters containing
            appInstanceId indicating value NOT_EXISTENT_APP_INSTANCE_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_BR"
Test Objective	Check that the RNIS service returns an error when the S1 bearer information is requested with a malformatted message
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY
Initial Conditions	

```
with {
the IUT having a S1BearerInfo containing
   s1UeInfo containing
     ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/s1_bearer_info",
         query_parameters containing
            cId indicating value C_ID                    //wrong parameter

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_NF"
Test Objective	Check that the RNIS service returns an error when the S1 bearer information for a not existing element is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT not having a S1BearerInfo containing
   s1UeInfo containing
     ecgi indicating value NOT_EXISTENT_CELL_ID


     }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rnis/v2/queries/s1_bearer_info",
         query_parameters containing
            cell_id indicating value NOT_EXISTENT_CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_BR"
Test Objective	Check that the RNIS service returns an error when the L2 measurements information is requested with a malformatted message
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5a.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a L2_Meas_information containing
   cellInfo containing
     ecgi indicating value CELL_ID


     }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/layer2_meas",
         query_parameters containing
            cId indicating value C_ID                    //wrong parameter

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "400 Bad Request"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_NF"
Test Objective	Check that the RNIS service returns an error when the L2 measurements information for a not existing element is requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5a.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT not having a L2_Meas_information containing
   cellInfo containing
     ecgi indicating value NOT_EXISTENT_CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rnis/v2/queries/layer2_meas",
         query_parameters containing
            cell_id indicating value NOT_EXISTENT_CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "404 Not Found"
       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_016_OK"
Test Objective	Check that the RNIS service returns the RAB information when requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.3.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/RabInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a RabInfo containing
   cellUserInfo containing
       ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/rab_info",
         query_parameters containing
            cell_id indicating value CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            RabInfo containing
              appInstanceId set to any_value,
              requestId set to any_value,
              cellUserInfo containing
                ecgi indicating value CELL_ID,
                ueInfo indicating value any_value



       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_017_OK"
Test Objective	Check that the RNIS service returns the PLMN information when requested
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.4.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/PlmnInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a PlmnInfo containing
   appInstanceId indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/plmn_info",
         query_parameters containing
            app_ins_id indicating value APP_INSTANCE_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            PlmnInfo containing
                appInstanceId indicating value APP_INSTANCE_ID,
                plmn  indicating value   any_value


       to the RNIS_CLIENT entity
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_018_OK"
Test Objective	Check that the RNIS service returns the S1 bearer information
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml#/definitions/S1BearerInfo
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a S1BearerInfo containing
   s1UeInfo containing
     ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/s1_bearer_info",
         query_parameters containing
            cell_id indicating value CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            S1BearerInfo containing
               s1UeInfo containing
                  tempUeId indicating value any_value,
                  associateId  indicating value any_value,
                    ecgi indicating value CELL_ID,
                    s1BearerInfoDetailed  indicating value any_value



       to the RNIS_CLIENT entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC012_SRV_RNIS_019_OK"
Test Objective	Check that the RNIS service returns the L2 measurements information
Reference	ETSI GS MEC 012 V2.2.1 [5], clause 7.5a.3.1 https://forge.etsi.org/gitlab/mec/gs012-rnis-api/blob/master/RniAPI.yaml
Configuration	Config_MEC_1
PICS Selection	PIC_RNIS_QUERY

Initial Conditions

```
with {
the IUT having a L2_Meas_information containing
   cellInfo containing
     ecgi indicating value CELL_ID


      }
```

Expected Behaviour

```
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/rni/v2/queries/layer2_meas",
         query_parameters containing
            cell_id indicating value CELL_ID

       from the RNIS_CLIENT entity
   }
   then {
      the IUT sends a HTTP_RESPONSE containing
         status set to "200 OK",
         body containing
            L2_Meas_information containing
              cellInfo containing
                  ecgi indicating value CELL_ID



       to the RNIS_CLIENT entity
   }
}
```

6.5 MEC013

6.5.1 Services (SRV)

6.5.1.1 Radio Node Location Lookup (RLOCLOOK)

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_001_OK"
Test Objective	Check that the IUT responds with the list of radio nodes currently associated with the MEC host and the location of each radio node when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.1 ETSI GS MEC 013 V3.1.1 [6], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    zoneId indicating value ZONE_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/zones/{ZONE_ID}/accessPoints"
        from the MEC_APP entity
```

```
    }
    then {
        // MEC 013, clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                accessPointList containing
                    accessPointInfo containing
                        zoneId set to ZONE_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.1 ETSI GS MEC 013 V3.1.1 [6], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a ue_location containing
    zoneId indicating value NON_EXISTENT_ZONE_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/zones/{NON_EXISTENT_ZONE_ID}/accessPoints"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.3.7
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_002_OK"
Test Objective	Check that the IUT responds with the radio nodes when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.1 ETSI GS MEC 013 V3.1.1 [6], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    zoneId indicating value ZONE_ID,
    accessPointId indicating value ACCESS_POINT_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"location/v3/queries/zones/{ZONE_ID}/accessPoints/{ACCESS_POINT_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.10.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                accessPointInfo containing
                    zoneId indicating value ZONE_ID,
```

```
                    accessPointId indicating value ACCESS_POINT_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_RLOCLOOK_002_NF"
Test Objective	Check that the IUT responds with an error when the radio nodes does not exist
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.1 ETSI GS MEC 013 V3.1.1 [6], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a ue_location containing
    zoneId indicating value ZONE_ID,
    accessPointId indicating value NON_EXISTING_ACCESS_POINT_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"location/v3/queries/zones/{ZONE_ID}/accessPoints/{NON_EXISTING_ACCESS_POINT_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.10.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.2 UE Area Subscribe (UEAREASUB)

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_001_OK"
Test Objective	Check that the IUT acknowledges the creation of UE area subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/area"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.16.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
```

```
            body containing
                userAreaNotification containing
                    notificationType indicating value "UserAreaNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value USER_LOCATION_EVENT,
                    _links indicating value LINKS
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                userAreaNotification containing
                    notificationType indicating value "UserAreaNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value any_value,
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Neither callbackReference nor websockNotifConfig provided
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/area"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_002_OK"
Test Objective	Check that the IUT acknowledges the change of UE area subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID,
    callbackReference indicating value CALLBACK_URL
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/area/{SUBSCRIPTION_ID}"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.17.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/area/{NON_EXISTING_SUBSCRIPTION_ID}"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.17.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_003_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE area change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/area/{SUBSCRIPTION_ID}"
    from the MEC_APP entity
 }
 then {
      // MEC 013, clause 7.17.3.4
     the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
     to the MEC_APP entity
 }
         }
```

TP Id	"TP_MEC_MEC013_SRV_UEAREASUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/area/{NON_EXISTING_SUBSCRIPTION_ID}"
    from the MEC_APP entity
 }
 then {
      // MEC 013, clause 7.17.3.4
     the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
     to the MEC_APP entity
 }
         }
```

6.5.1.3 UE Area Lookup (UEAREALOOK)

TP Id	"TP_MEC_MEC013_SRV_UEAREALOOK_001_OK_01"
Test Objective	Check that the IUT responds with a list of UE area subscriptions when queried by a MEC Application - No filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserAreaSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/area"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.16.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserAreaSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREALOOK_001_OK_02"
Test Objective	Check that the IUT responds with a list of UE area subscriptions when queried by a MEC Application - event filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/area",
            query_parameters containing
                subscription_type indicating value "event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.16.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
```

```
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserAreaSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREALOOK_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Invalid filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/area",
            query_parameters containing
                subscription_type indicating value "dummy"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREALOOK_002_OK"
Test Objective	Check that the IUT acknowledges the change of UE area subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID,
    allbackReference indicating value CALLBACK_URL
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/area/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.17.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userAreaNotification containing
                    notificationType indicating value "UserAreaNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value USER_LOCATION_EVENT,
                    _links indicating value LINKS
        to the MEC_APP entity
```

```
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEAREALOOK_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.17.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/area/{NON_EXISTING_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.17.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.4 UE Distance Lookup (UEDISTLOOK)

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_001_OK"
Test Objective	Check that the IUT responds with the list of UE distance subscriptions to a UE when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserDistanceSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/distance"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.14.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserDistanceSubscription",
                    resourceURL indicating value LINKS_SELF
```

```
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having any UserDistanceSubscription
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.9
ensure that {
    when {
        the IUT receives a vGET containing//Wrong URL structure: no URI query parameters supported
            uri indicating value "location/v3/subscriptions/distance"
            query_parameters containing
                subscriptionType indicating value any_value
        ;;
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.14.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_002_OK"
Test Objective	Check that the IUT responds with the distance to a UE when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.9 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.9 ETSI GS MEC 013 V3.1.1 [6], clause 7.15.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserDistanceSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/distance/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.15.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userDistanceSubscription containing
                    subscriptionType indicating value "UserDistanceSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    monitoredAddress indicating value MONITORED_IP_ADDRESS,
```

```
                    distance indicating value any_value,
                    trackingAccuracy indicating value any_value,
                    criteria indicating value any_value,
                    checkImmediate indicating value true
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTLOOK_002_NF"
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.9 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.9 ETSI GS MEC 013 V3.1.1 [6], clause 7.15.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"location/v3/subscriptions/distance/{NON_EXISTING_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.15.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.5 UE Distance Subscribe (UEDISTSUB)

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_001_OK"
Test Objective	Check that the IUT responds with the list of UE distance subscriptions to a UE when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserDistanceSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/distance"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.14.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
```

```
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserDistanceSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Invalid filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.14.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having any UserDistanceSubscription
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.9
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/distance&event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.14.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_002_OK"
Test Objective	Check that the IUT responds with the distance to a UE when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.9 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.9 ETSI GS MEC 013 V3.1.1 [6], clause 7.15.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserDistanceSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID,
    _links containing
        self indicating value LINKS_SELF
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/distance/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.15.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userDistanceSubscription containing
                    subscriptionType indicating value "UserDistanceSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
```

```
                    monitoredAddress indicating value MONITORED_IP_ADDRESS,
                    distance indicating value any_value,
                    trackingAccuracy indicating value any_value,
                    criteria indicating value any_value,
                    checkImmediate indicating value true
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEDISTSUB_002_NF"
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.9 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.9 ETSI GS MEC 013 V3.1.1 [6], clause 7.15.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"location/v3/subscriptions/distance/{NON_EXISTING_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.15.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.6 UE Information Lookup (UEINFOLOOK)

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_OK_01"
Test Objective	Check that the IUT responds with the information pertaining to one or more UEs in a particular location when queried by a MEC Application - No Filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/users"
        from the MEC_APP entity
    } then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userList set to any_value
```

```
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_OK_02"
Test Objective	Check that the IUT responds with the information pertaining to one or more UEs in a particular location when queried by a MEC Application - Filter with one address
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/users",
            query_parameters containing
                address indicating value ACR_SOME_IP
        from the MEC_APP entity
    } then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userList set to any_value
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_OK_03"
Test Objective	Check that the IUT responds with the information pertaining to one or more UEs in a particular location when queried by a MEC Application - Filter with several addresses
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    address1 indicating value ACR_SOME_IP,
    address2 indicating value ACR_IP_UE2,
    address3 indicating value ACR_IP_UE3
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/users",
            query_parameters containing
                address2 indicating value ACR_IP_UE2,
                address3 indicating value ACR_IP_UE3
        from the MEC_APP entity
    } then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
```

```
            body containing
                userList containing
                    userLocation2,
                    userLocation3
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_OK_04"
Test Objective	Check that the IUT responds with the information pertaining to one or more UEs in a particular location when queried by a MEC Application - Filter with several zoneIds
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    zoneId1 indicating value ZONE_ID1,
    zoneId2 indicating value ZONE_ID2,
    zoneId3 indicating value ZONE_ID3
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/users",
            query_parameters containing
                zoneId1 indicating value ZONE_ID1,
                zoneId3 indicating value ZONE_ID3
        from the MEC_APP entity
    } then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userList containing
                    userLocation1,
                    userLocation3
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/queries/users",
            query_parameters containing
                addr indicating value ACR_SOME_IP // Wrong name should trigger an error response.
```

```
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEINFOLOOK_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.2.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/users",
            query_parameters containing
                address indicating value ACR_UNKNOWN_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.7 UE Location Lookup (UELOCLOOK)

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_001_OK"
Test Objective	Check that the IUT responds with a list for the location of User Equipments when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    zoneId indicating value ZONE_ID

        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
```

```
            body containing
                notificationSubscriptionList
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_002_OK_01"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users",
            query_parameters containing
                subscription_type indicating value "event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserLocationEventSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_002_OK_02"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Periodic
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
```

```
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users",
            query_parameters containing
                subscription_type indicating value "periodic"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserLocationPeriodicSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_002_OK_03"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Event and address
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1 and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_2,
    subscriptionId indicating value SUBSCRIPTION_ID_2,
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users",
            query_parameters containing
                subscription_type indicating value "event",
                address  indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "UserLocationEventSubscription",
                    resourceURL indicating value LINKS_SELF_2
```

```
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_002_BR"
Test Objective	Check that the IUT responds with an error when inconsistent request was sent by a MEC Application - Invalid filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users",
            query_parameters containing
                subscription_type indicating value "dummy"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_002_NF"
Test Objective	Check that the IUT responds with an error when inconsistent request was sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having any subscriptions
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_003_OK_01"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_003_OK_02"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Periodic
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.5 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
```

```
                userLocationEventSubscription containing
                    userLocationPeriodicSubscription containing
                        subscriptionType indicating value "UserLocationPeriodicSubscription",
                        clientCorrelator indicating value CLIENT_ID,
                        callbackReference indicating value NEW_CALLBACK_URL,
                        _links indicating value LINKS,
                        address indicating value ACR_SOME_IP,
                        periodicEventInfo indicating value PERIODIC_EVENT_INFO
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCLOOK_003_NF"
Test Objective	Check that the IUT responds with an error when the non existing subscription is queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.5 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/users/{NON_EXISTING_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.8 UE Location Subscription (UELOCSUB)

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_001_OK_01"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications user location event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.4
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
```

```
                    callbackReference indicating value CALLBACK_URL,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                userLocationEventNotification containing
                    notificationType indicating value "UserLocationEventNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value any_value,
                    zoneId indicating value ZONE_ID,
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_001_OK_02"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications user location periodic
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.5 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.4
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    address indicating value ACR_SOME_IP,
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP,
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
```

```
                userLocationPeriodicNotification containing
                    notificationType indicating value "UserLocationPeriodicNotification",
                    address indicating value ACR_SOME_IP,
                    result indicating value SUCCESS,
                    _links indicating value LINKS,
                    locationInfo indicating value any_value,
                    zoneId indicating value ZONE_ID,
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_001_BR_01"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Neither callbackReference nor websockNotifConfig provided
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.5
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_001_BR_02"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Neither callbackReference nor websockNotifConfig provided
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.5 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.5
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    address indicating value ACR_SOME_IP,
```

```
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_002_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE information change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/users/{SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.6.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "204 No Content"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/users/{NON_EXISTENT_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    } then {
        // MEC 013, clause 7.3.6.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_003_OK_01"
Test Objective	Check that the IUT acknowledges a request to modify an existing subscription by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.4
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/users/{SUBSCRIPTION_ID}"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.6.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_003_OK_02"
Test Objective	Check that the IUT acknowledges a request to modify an existing subscription by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.5 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.5 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    address indicating value ACR_SOME_IP,
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        from the MEC_APP entity
```

```
    }
    then {
        // MEC 013, clause 7.6.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP,
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_003_BR_01"
Test Objective	Check that the IUT responds with an error when received an inconsistent request
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationPeriodicSubscription containing
                    subscriptionType indicating value "UserLocationPeriodicSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    address indicating value ACR_SOME_IP,
                    periodicEventInfo indicating value PERIODIC_EVENT_INFO
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.6.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_003_BR_02"
Test Objective	Check that the IUT responds with an error when received an inconsistent request
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationPeriodicSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/users/{SUBSCRIPTION_ID}"
            body containing
```

```
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.6.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UELOCSUB_003_NF"
Test Objective	Check that the IUT acknowledges a request to modify a not existing subscription by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.4 ETSI GS MEC 013 V3.1.1 [6], clause 7.6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "UserLocationEventSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/users/{NON_EXISTENT_SUBSCRIPTION_ID}"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.6.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.9 UE Zone Lookup (UEZONELOOK)

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_001_OK"
Test Objective	Check that the IUT responds with a list zones when queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a ue_location containing
    zoneId indicating value ZONE_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones"
```

```
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_002_OK_01"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - Zone location Event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneStatusSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones",
            query_parameters containing
                subscription_type indicating value "event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "ZoneLocationEventSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_002_OK_02"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - Zone Status
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneStatusSubscription",
    _links containing
```

```
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones",
            query_parameters containing
                subscription_type indicating value "status"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "ZoneStatusSubscription",
                    resourceURL indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_002_OK_03"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - UE location Event and address
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1 and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_2,
    subscriptionId indicating value SUBSCRIPTION_ID_2,
    address indicating value ACR_SOME_IP
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones",
            query_parameters containing
                subscription_type indicating value "event",
                address  indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
```

```
            body containing
                notificationSubscriptionList containing
                    subscription containing
                        href indicating value any_value,
                        subscriptionType indicating value "ZoneLocationEventSubscription",
                    resourceURL indicating value LINKS_SELF_2
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_002_BR"
Test Objective	Check that the IUT responds with an error when inconsistent request was sent by a MEC Application - Invalid filter
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones",
            query_parameters containing
                subscription_type indicating value "dummy"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_002_NF"
Test Objective	Check that the IUT responds with an error when inconsistent request was sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.2 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having any subscriptions
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones"
        from the MEC_APP entity
    }
    then {
```

```
        // MEC 013, clause 7.11.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_003_OK_01"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - Zone location Event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneStatusSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones/{SUBSCRIPTION_ID}",
            query_parameters containing
                subscription_type indicating value "event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.12.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    _links containing
                        self indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_003_OK_02"
Test Objective	Check that the IUT responds with the subscription when queried by a MEC Application - Zone status Event
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneStatusSubscription",
    _links containing
        self indicating value LINKS_SELF,
    subscriptionId indicating value SUBSCRIPTION_ID and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    _links containing
        self indicating value LINKS_SELF_1,
```

```
    subscriptionId indicating value SUBSCRIPTION_ID_1
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones/{SUBSCRIPTION_ID}",
            query_parameters containing
                subscription_type indicating value "event"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.12.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    _links containing
                        self indicating value LINKS_SELF
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONELOOK_003_NF"
Test Objective	Check that the IUT responds with an error when the non existing subscription is queried by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionType indicating value "ZoneLocationEventSubscription",
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "location/v3/subscriptions/zones/{NON_EXISTING_SUBSCRIPTION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.12.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.5.1.10 UE Zone Subscription (UEZONESUB)

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_001_OK"
Test Objective	Check that the IUT acknowledges the creation of UE zone subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/zones"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                zoneLocationEventNotification containing
                    notificationType indicating value "ZoneLocationEventNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value any_value,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_001_OK_02_01"
Test Objective	Check that the IUT acknowledges the creation of UE zone subscription request when commanded by a MEC Application - OperationStatus constraint
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/zones"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    zoneId indicating value ZONE_ID,
                    operationStatus indicating value OPER_STATUS
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
```

```
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    operationStatus indicating value OPER_STATUS
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                zoneStatusNotification containing
                    notificationType indicating value "ZoneStatusNotification",
                    address indicating value ACR_SOME_IP,
                    operationStatus indicating value OPER_STATUS,
                    zoneId indicating value ZONE_ID,
                    accessPointId indicating value any_value,
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_001_OK_02_02"
Test Objective	Check that the IUT acknowledges the creation of UE zone subscription request when commanded by a MEC Application - UserNumEvent constraint
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/zones"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    zoneId indicating value ZONE_ID,
                    upperNumberOfUser indicating value UPPER_NUM_USER_THRESHOLD,
                    lowerNumberOfUser indicating value LOWER_NUM_USER_THRESHOLD
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    upperNumberOfUser indicating value UPPER_NUM_USER_THRESHOLD,
                    lowerNumberOfUser indicating value LOWER_NUM_USER_THRESHOLD
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                zoneStatusNotification containing
                    notificationType indicating value "ZoneStatusNotification",
                    address indicating value ACR_SOME_IP,
                    userNumEvent indicating value any_value,
```

```
                    zoneId indicating value ZONE_ID,
                    accessPointId indicating value any_value,
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - Neither callbackReference nor websockNotifConfig provided
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.11.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.5
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/zones"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_002_OK_01"
Test Objective	Check that the IUT acknowledges the change of UE area subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID,
    callbackReference indicating value CALLBACK_URL
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/zones/{SUBSCRIPTION_ID}"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
```

```
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.12.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_002_OK_02"
Test Objective	Check that the IUT acknowledges the change of UE area subscription request when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.7 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.7 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/zones"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    operationStatus indicating value OPER_STATUS
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.11.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                zoneStatusSubscription containing
                    subscriptionType indicating value "ZoneStatusSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    operationStatus indicating value OPER_STATUS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "location/v3/subscriptions/zones/{NON_EXISTING_SUBSCRIPTION_ID}"
            body containing
                zoneLocationEventSubscription containing
                    subscriptionType indicating value "ZoneLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value NEW_CALLBACK_URL,
                    _links indicating value LINKS,
                    zoneId indicating value ZONE_ID,
                    addressList containing
                        address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.12.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_003_OK"
Test Objective	Check that the IUT acknowledges the cancellation of UE area change notifications when commanded by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
    subscriptionId indicating value SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/zones/{SUBSCRIPTION_ID}"
    from the MEC_APP entity
 }
 then {
      // MEC 013, clause 7.12.3.4
     the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
     to the MEC_APP entity
 }
         }
```

TP Id	"TP_MEC_MEC013_SRV_UEZONESUB_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.6 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.6 ETSI GS MEC 013 V3.1.1 [6], clause 7.12.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
    subscriptionId indicating value NON_EXISTING_SUBSCRIPTION_ID
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.6
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "location/v3/subscriptions/zones/{NON_EXISTING_SUBSCRIPTION_ID}"
    from the MEC_APP entity
 }
 then {
      // MEC 013, clause 7.12.3.4
     the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"
     to the MEC_APP entity
 }
         }
```

6.5.1.11 UE Test Notification (UETESTNOT)

TP Id	"TP_MEC_MEC013_SRV_UETESTNOT_001_OK"
Test Objective	Check that the IUT provides a test notification when requested by a MEC Application
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.4 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.3 ETSI GS MEC 013 V3.1.1 [6], clause 7.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.4
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/users"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    requestTestNotification indicating value true,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.5.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value "UserLocationEventSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
```

```
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                testNotification containing
                    notificationType indicating value "TestNotification",
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC013_SRV_UETESTNOT_002_OK"
Test Objective	Check that the IUT terminates notifications after time expiration
Reference	ETSI GS MEC 013 V3.1.1 [6], clause 5.3.11 ETSI GS MEC 013 V3.1.1 [6], clause 6.3.8 ETSI GS MEC 013 V3.1.1 [6], clause 6.4.8 ETSI GS MEC 013 V3.1.1 [6], clause 7.16.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 013, clause 5.3.11
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "location/v3/subscriptions/area"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD,
                    expiryDeadline indicating value EXPIRY_DEADLINE
        from the MEC_APP entity
    }
    then {
        // MEC 013, clause 7.16.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userAreaSubscription containing
                    subscriptionType indicating value "UserAreaSubscription",
                    clientCorrelator indicating value CLIENT_ID,
                    callbackReference indicating value CALLBACK_URL,
                    _links indicating value LINKS,
                    areaDefine indicating value AREA,
                    addressList containing
                        address indicating value ACR_SOME_IP,
                    trackingAccuracy indicating value TRACKING_ACCURACY_THRESHOLD,
                    expiryDeadline indicating value EXPIRY_DEADLINE
        to the MEC_APP entity
        // MEC 013, clause 5.3.4
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                userAreaNotification containing
                    notificationType indicating value "UserAreaNotification",
                    address indicating value ACR_SOME_IP,
                    userLocationEvent indicating value any_value,
                    _links indicating value LINKS
        to the MEC_APP entity
        and the IUT not sends a vPOST after expiry_notification_event
```

6.6 MEC014

6.6.1 Services (SRV)

6.6.1.1 UE Identity tag (UETAG)

TP Id	"TP_MEC_MEC014_SRV_UETAG_001_OK"
Test Objective	Check that the IUT responds with the information on a UE Identity tag when queried by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 6.2.2 ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_identity_tag_info",
         query_parameters containing
            ueIdentityTag indicating value UE_IDENTITY_TAG


      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            UeIdentityTagInfo containing
               ueIdentityTagsList containing
                  ueIdentityTags containing
                     ueIdentityTag set to UE_IDENTITY_TAG,
                     state set to REGISTERED




      to the MEC_APP entity
  }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_identity_tag_info",
```

```
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            ueTag indicating value UE_IDENTITY_TAG //The query param. should be ueIdentityTag and
not ueTag


      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
  }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an URI that cannot be mapped to a valid resource URI is sent by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP not having a app_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "ui/v1/{NON_EXISTENT_APP_INSTANCE_ID}/ue_identity_tag_info",
         query_parameters containing
            ueIdentityTag indicating value UE_IDENTITY_TAG


      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
  }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_002_OK"
Test Objective	Check that the IUT registers a tag (representing a UE) or a list of tags when commanded by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 6.2.2 ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.2
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_identity_tag_info",
```

```
          if_match indicating value PROPER_ETAG,
         body containing
            ueIdentityTagsList containing
               ueIdentityTags containing
                  ueIdentityTag set to UE_IDENTITY_TAG,
                  state set to REGISTERED




      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            UeIdentityTagInfo containing
               ueIdentityTagsList containing
                  ueIdentityTags containing
                     ueIdentityTag set to UE_IDENTITY_TAG,
                     state set to REGISTERED






      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_002_BR"
Test Objective	Check that the IUT responds with an error when an unauthorised request is sent by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 6.2.2 ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.3
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_identity_tag_info",
x                 if_match indicating value PROPER_ETAG,
         body containing
            ueIdentityTagsList containing
               ueIdentityTags containing
                  ueIdentityTag set to UE_IDENTITY_TAG,
                  state set to INVALID_STATE




      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP not having a app_instance containing
   instance_id indicating value NON_EXISTENT_APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.3
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "ui/v1/{NON_EXISTENT_APP_INSTANCE_ID}/ue_identity_tag_info",
x                 if_match indicating value PROPER_ETAG,
         body containing
            ueIdentityTagsList containing
               ueIdentityTags containing
                  ueIdentityTag set to UE_IDENTITY_TAG,
                  state set to REGISTERED




      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC014_SRV_UETAG_002_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 014 V3.1.1 [7], clause 7.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
   instance_id indicating value APP_INSTANCE_ID

      }
```

Expected Behaviour

```
// MEC 014, clause 5.2.3
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "ui/v1/{APP_INSTANCE_ID}/ue_identity_tag_info",
x                 if_match indicating value INVALID_ETAG,
         body containing
            ueIdentityTagsList containing
               ueIdentityTags containing
                  ueIdentityTag set to UE_IDENTITY_TAG,
                  state set to UNREGISTERED




      from the MEC_APP entity
   }
   then {
      // MEC 014, clause 7.3.3.2
      the IUT sends a HTTP_RESPONSE containing
```

```
         status_code set to "412 Precondition Failed"

      to the MEC_APP entity
   }
}
```

6.7 MEC015

6.7.1 Services (SRV)

6.7.1.1 Multi-access Traffic Steering (MTS)

TP Id	"TP_MEC_MEC015_SRV_MTS_001_OK"
Test Objective	Check that the IUT responds with the Multi-access Traffic Steering information when queried by a MEC Application
Reference	ETSI GS MEC 015 [8] V2.1.1, clause 6.2.6 ETSI GS MEC 015 V2.1.1, clause 7.2.4 ETSI GS MEC 015 V2.1.1, clause 9.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_Services and PICS_MULTI_ACCESS_TRAFFIC_STEERING_API_SUPPORTED
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a mtsCapabilityInfo
        }
```

Expected Behaviour

```
// MEC 015 Clause 7.2.4
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "mts/v1/mts_capability_info"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 9.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                mtsCapabilityInfo
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_MTS_002_OK_01"
Test Objective	Check that the IUT responds with the list of configured Multi-access Traffic Steering when queried by a MEC Application - none
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.6 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 9.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_Services and PICS_MULTI_ACCESS_TRAFFIC_STEERING_API_SUPPORTED
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having several mtsSessionInfo
        }
```

Expected Behaviour

```
// MEC 015 Clause 7.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "mts/v1/mts_sessions"
        from the MEC_APP entity
    }
    then {
```

```
        // MEC 015 Clause 9.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                mtsSessionInfoList
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_MTS_002_OK_02"
Test Objective	Check that the IUT responds with the list of configured Multi-access Traffic Steering when queried by a MEC Application - app_instance_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.6 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 9.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_Services and PICS_MULTI_ACCESS_TRAFFIC_STEERING_API_SUPPORTED

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a mtsSessionInfo containing
    appInsId indicating value APP_INSTANCE_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 7.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "mts/v1/mts_sessions",
            query_parameters containing
                app_instance_id indicating value APP_INSTANCE_ID
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 9.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                mtsSessionInfo containing
                    appInsId indicating value APP_INSTANCE_ID
        to the MEC_APP entity
```

6.7.1.2 Traffic Management (TM)

TP Id	"TP_MEC_MEC015_SRV_TM_001_OK_01"
Test Objective	Check that the IUT responds with the list of configured bandwidth allocations when queried by a MEC Application - none
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having several bwInfo
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
```

```
            body containing
                bwInfoList
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_OK_02"
Test Objective	Check that the IUT responds with a configured bandwidth allocation when queried by a MEC Application - app_instance_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appInsId indicating value APP_INSTANCE_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                app_instance_id indicating value APP_INSTANCE_ID
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                bwInfoList containing
                    bwInfo containing
                        appInsId set to APP_INSTANCE_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_OK_03"
Test Objective	Check that the IUT responds with a configured bandwidth allocation when queried by a MEC Application - app_name
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appInsId indicating value APP_INSTANCE_ID,
    appName indicating value APP_NAME
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                app_name indicating value APP_NAME
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
```

```
                bwInfoList containing
                    bwInfo containing
                        appInsId set to APP_INSTANCE_ID,
                        appName indicating value APP_NAME
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_OK_04"
Test Objective	Check that the IUT responds with a configured bandwidth allocation when queried by a MEC Application - session_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appInsId indicating value APP_INSTANCE_ID,
    allocationId indicating value APP_ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                session_id indicating value APP_ALLOCATION_ID
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                bwInfoList containing
                    bwInfo containing
                        appInsId set to APP_INSTANCE_ID,
                        appName indicating value APP_NAME,
                        allocationId indicating value APP_ALLOCATION_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - app_instance_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appInsId indicating value APP_INSTANCE_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                appInsId indicating value APP_INSTANCE_ID // appInsId instead of app_instance_id
        from the MEC_APP entity
    }
    then {
```

```
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_NF_01"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application - app_instance_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appInsId indicating value APP_INSTANCE_ID,
    appName indicating value APP_NAME
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                appInsId indicating value APP_UNKNOWN_INSTANCE_ID
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_NF_02"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application - app_name
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appName indicating value APP_NAME
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                app_name indicating value APP_UNKNOWN_APP_NAME
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_001_NF_03"
Test Objective	Check that the IUT responds with an error when a request with an unknown resource URI is sent by a MEC Application - session_id
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    appName indicating value APP_NAME,
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations",
            query_parameters containing
                session_id indicating value APP_UNKNOWN_ALLOCATION_ID
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_002_OK"
Test Objective	Check that the IUT acknowledges a creation of a bandwidthAllocation resource
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
    appInsId indicating value APP_INSTANCE_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.2 and Table 7.2.2-1: Elements of BwInfo, sessionFilter
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "bwm/v1/bw_allocations",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
                    sessionFilter indicating value omit,
                    fixedAllocation indicating value SOME_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 6.2.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created",
            Location set to BW_ALLOCATION_ID,
            body containing
                bwInfo containing
                    appInsId set to APP_INSTANCE_ID,
                    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
                    sessionFilter indicating value omit,
```

```
                    fixedAllocation indicating value SOME_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_002_BR_01"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be omitted
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
    appInsId indicating value APP_INSTANCE_ID

        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.2
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "bwm/v1/bw_allocations",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
                    // MEC015 Clause 7.2.2 Type: BwInfo Table 7.2.2-1: Elements of BwInfo,
sessionFilter shall be omit
                    sessionFilter indicating value SESSION_FILTER_VALUE,
                    fixedAllocation indicating value INVALID_ALLOCATION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_002_BR_02"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be present
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.4.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a app_instance containing
    appInsId indicating value APP_INSTANCE_ID

        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.2
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "bwm/v1/bw_allocations",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
                    // MEC015 Clause 7.2.2 Type: BwInfo Table 7.2.2-1: Elements of BwInfo,
sessionFilter shall be present
```

```
                    sessionFilter indicating value omit,
                    fixedAllocation indicating value INVALID_ALLOCATION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_003_OK"
Test Objective	Check that the IUT responds with the configured bandwidth allocation when queried by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.5
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                bwInfo containing
                    appInsId set to APP_INSTANCE_ID
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.5 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.2
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "bwm/v1/bw_allocations/{BW_UNKNOWN_ALLOCATION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
```

```
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_004_OK"
Test Objective	Check that the IUT updates the requested bandwidth requirements when commanded by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    fixedAllocation indicating value SOME_NEW_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                bwInfo containing
                    appInsId set to APP_INSTANCE_ID,
                    fixedAllocation set to SOME_ALLOCATION,
                    allocationDirection set to SOME_DIRECTION
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_004_BR_01"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be omitted
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID,
    appInsId indicating value APP_INSTANCE_ID,
    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
    sessionFilter indicating value omit
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
                    sessionFilter indicating value SESSION_FILTER_VALUE
        from the MEC_APP entity
```

```
    }
    then {
        // MEC 015 Clause 8.3.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_004_BR_02"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be present
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8] clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID,
    appInsId indicating value APP_INSTANCE_ID,
    requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
    sessionFilter indicating value SESSION_FILTER_VALUE
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
                    sessionFilter indicating value omit
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_004_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "bwm/v1/bw_allocations/{BW_UNKNOWN_ALLOCATION_ID}",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    fixedAllocation indicating value SOME_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
```

```
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_005_OK"
Test Objective	Check that the IUT when provided with just the changes (deltas) updates the requested bandwidth requirements when commanded by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID,
    fixedAllocation indicating value SOME_ALLOCATION,
    allocationDirection indicating value SOME_DIRECTION
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
            body containing
                bwInfoDeltas containing
                    appInsId indicating value APP_INSTANCE_ID,
                    fixedAllocation indicating value NEW_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                bwInfo containing
                    appInsId set to APP_INSTANCE_ID,
                    fixedAllocation set to NEW_ALLOCATION,
                    allocationDirection set to SOME_DIRECTION
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_005_BR_01"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be omitted
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID,
    appInsId indicating value APP_INSTANCE_ID,
    requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
    sessionFilter indicating value omit
        }
```

Expected Behaviour

// MEC 015 Clause 6.2.4
ensure that {
when {
the IUT receives a vPATCH containing
uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
body containing
bwInfo containing
appInsId indicating value APP_INSTANCE_ID,
requestType indicating value APPLICATION_SPECIFIC_BW_ALLOCATION,
sessionFilter indicating value SESSION_FILTER_VALUE
from the MEC_APP entity
}
then {
// MEC 015 Clause 8.3.3.3
the IUT sends a HTTP_RESPONSE containing
status_code set to "400 Bad Request"
to the MEC_APP entity
}
}

TP Id	"TP_MEC_MEC015_SRV_TM_005_BR_02"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application - sessionFilter shall be present
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
allocationId indicating value ALLOCATION_ID,
appInsId indicating value APP_INSTANCE_ID,
requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
sessionFilter indicating value SESSION_FILTER_VALUE
}	

Expected Behaviour	

// MEC 015 Clause 6.2.4
ensure that {
when {
the IUT receives a vPATCH containing
uri indicating value "bwm/v1/bw_allocations/{BW_ALLOCATION_ID}",
body containing
bwInfo containing
appInsId indicating value APP_INSTANCE_ID,
requestType indicating value SESSION_SPECIFIC_BW_ALLOCATION,
sessionFilter indicating value omit
from the MEC_APP entity
}
then {
// MEC 015 Clause 8.3.3.3
the IUT sends a HTTP_RESPONSE containing
status_code set to "400 Bad Request"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC015_SRV_TM_005_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.4 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.3
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	
with { the IUT being_in idle_state and the MEC_APP having a bwInfo containing	

```
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.4
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "bwm/v1/bw_allocations/{BW_UNKNOWN_ALLOCATION_ID}",
            body containing
                bwInfo containing
                    appInsId indicating value APP_INSTANCE_ID,
                    fixedAllocation indicating value NEW_ALLOCATION,
                    allocationDirection indicating value SOME_DIRECTION
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_006_OK"
Test Objective	Check that the IUT unregisters from the Bandwidth Management Service when commanded by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.3 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.3ALLOCATION_ID
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "bwm/v1/bw_allocations/{ALLOCATION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "204 No Content"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC015_SRV_TM_006_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 015 V2.1.1 [8], clause 6.2.3 ETSI GS MEC 015 V2.1.1 [8], clause 7.2.2 ETSI GS MEC 015 V2.1.1 [8], clause 8.3.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a bwInfo containing
    allocationId indicating value ALLOCATION_ID
        }
```

Expected Behaviour

```
// MEC 015 Clause 6.2.3
ensure that {
    when {
        the IUT receives a vDELETE containing
```

```
            uri indicating value "bwm/v1/bw_allocations/{BW_UNKNOWN_ALLOCATION_ID}"
        from the MEC_APP entity
    }
    then {
        // MEC 015 Clause 8.3.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

6.8 MEC016

6.8.1 Multi-access Edge Orchestrator (MEO)

6.8.1.1 UE Application Contexts (UEAPPCTX)

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_OK"
Test Objective	Check that the IUT acknowledges the creation of the application context when requested by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.4.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.3
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/dev_app/v1/app_contexts",
         body containing
            AppContext containing
               appInfo containing
                  appName set to APP_NAME




      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.4.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            AppContext containing
               appInfo containing
                  appName set to APP_NAME




      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect URL is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.4.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.3
ensure that {
   when {
      the IUT receives a vPOST containing
         // Wrong URL parameter should trigger an error response.
         uri indicating value "/dev_app/v1/app_contexts_error",
         body containing
            AppContext containing
               appInfo containing
                  appName set to APP_NAME




      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.4.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the Dev_App entity
   }
        }
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.4.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.3
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/dev_app/v1/app_contexts",
         body containing
            AppContext containing
               appInfo containing
                  // Wrong parameter name should trigger an error response.
                  app set to APP_NAME




      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.4.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_OK"
Test Objective	Check that the IUT updates the application callback reference when commanded by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.5.3.2 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App having a appContext containing
   contextId indicating value CONTEXT_ID

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.5
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}"
         body containing
            AppContext containing
               callbackReference indicating value some_uri



      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.5.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.5.3.2 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App having a appContext containing
   contextId indicating value CONTEXT_ID

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.5
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}"
         body containing
            AppContext containing
               // A parameter not legible for update should trigger an error response.
               associateUeAppId indicating value some_value



      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.5.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the Dev_App entity
```

```
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_002_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.5.3.2 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App not having a appContext containing
   contextId indicating value NON_EXISTENT_CONTEXT_ID

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.5
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/dev_app/v1/app_contexts/{NON_EXISTENT_CONTEXT_ID}",
         body containing
            AppContext containing
               callbackReference indicating value some_uri



      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.5.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_003_OK"
Test Objective	Check that the IUT deletes the application context when commanded by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.5.3.5 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App having a appContext containing
   contextId indicating value CONTEXT_ID

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.4
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/dev_app/v1/app_contexts/{CONTEXT_ID}"

      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.5.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPCTX_003_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.5.3.5 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the Dev_App not having a appContext containing
   contextId indicating value NON_EXISTENT_CONTEXT_ID

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.4
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/dev_app/v1/app_contexts/{NON_EXISTENT_CONTEXT_ID}"

      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.5.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the Dev_App entity
   }
}
```

6.8.1.2 UE Applications Location (UEAPPLOC)

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_OK"
Test Objective	Check that the IUT sends the locations available for instantiation of a specific user application when requested by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.6.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the Dev_App having a appInfo containing
       appName indicating value APP_NAME

      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.7
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/dev_app/v1/obtain_app_loc_availability",
         body containing
            ApplicationLocationAvailability containing
                  appInfo containing
                      appName set to APP_NAME




      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.6.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK",
         body containing
            ApplicationLocationAvailability containing
               appInfo containing
                  appName set to APP_NAME
```

```
      to the Dev_App entity
   }
}
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.6.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.7
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/dev_app/v1/obtain_app_loc_availability",
         body containing
            ApplicationLocationAvailability containing
               appInfo containing
                  // Wrong parameter name should trigger an error response.
                  app set to APP_NAME




      from the Dev_App entity
   }
   then {
      // MEC 016, clause 7.4.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the Dev_App entity
   }
      }
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPLOC_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect URL is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.6.3.4 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 016, clause 5.1.7
ensure that {
   when {
      the IUT receives a vPOST containing
         // Wrong URI should trigger an error response.
         uri indicating value "/dev_app/v1/obtain_app_loc_availability_error",
         body containing
            ApplicationLocationAvailability containing
               appInfo containing
                  appName set to APP_NAME




      from the Dev_App entity
```

```
   }
   then {
      // MEC 016, clause 7.4.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the Dev_App entity
   }
}
```

6.8.1.3 UE Applications (UEAPPS)

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_001_OK"
Test Objective	Check that the IUT responds with the list of user applications available when requested by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.3.3.1 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml#/definitions/ApplicationList
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App having a appInfo containing
    appName indicating value APP_NAME

         }
```

Expected Behaviour

```
// MEC 016, clause 5.1.2
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/dev_app/v1/app_list"

        from the Dev_App entity
    }
    then {
        // MEC 016, clause 7.3.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                body containing
                     ApplicationList containing
                        appInfo containing
                               appName set to APP_NAME




        to the Dev_App entity
    }
 }
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_001_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
// MEC 016, clause 5.1.2
ensure that {
when {
    the IUT receives
        a vGET containing
            // wrong url should generate a "Not Found" error response
```

```
            uri indicating value "/dev_app/v1/app_list_error"

    from the Dev_App entity
}
then {
    // MEC 016, clause 7.3.3.1
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

    to the Dev_App entity
}
             }
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_002_OK"
Test Objective	Check that the IUT responds with the list of user applications available when requested by an UE Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.3.3.1 https://forge.etsi.org/gitlab/mec/gs016-ue-app-api/blob/master/UEAppInterfaceApi.yaml#/definitions/ApplicationList
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the Dev_App having a appInfo containing
    appName indicating value APP_NAME

          }
```

Expected Behaviour

```
// MEC 016, clause 5.1.2
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/dev_app/v1/app_list",
                query_parameters containing
                    appName indicating value APP_NAME


        from the Dev_App entity
    }
    then {
        // MEC 016, clause 7.3.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                  body containing
                    ApplicationList containing
                        appInfo containing
                          appName set to APP_NAME




        to the Dev_App entity
    }
 }
```

TP Id	"TP_MEC_MEC016_MEO_UEAPPS_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
// MEC 016, clause 5.1.2
ensure that {
```

```
when {
    the IUT receives
        a vGET containing
            uri indicating value "/dev_app/v1/app_list",
            query_parameters containing
                // Wrong parameter name should trigger an error response correct parameter is
appName
                 app indicating value APP_NAME


    from the Dev_App entity
}
then {
    // MEC 016, clause 7.3.3.1
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

    to the Dev_App entity
}
             }
```

TP Id	TP_MEC_MEC016_MEO_UEAPPS_001_ERR
Test Objective	Check that the ITU responds with 404 Not Found and 400 Bad request when a request with incorrect parameters and for an unknown URI is sent by a MEC Application, respectively.
Reference	ETSI GS MEC 016 V2.2.1 [9], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
ensure that {
when {
    the IUT receives
        a vGET request containing
            uri set to URI,
            query_parameters containing
                // Wrong parameter name should trigger an error response correct parameter is
appName
                 appName indicating value APP_NAME_VALUE


}
then {
    // MEC 016, clause 7.3.3.1
    the IUT sends
        a HTTP response containing
            status set to HTTP_STATUS

}
            }
```

TP Id	Description	URI	APP_NAME_VALUE	HTTP_STATUS
TP_MEC_MEC016_MEO_UEAPPS_001_NF	"Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application"	"/dev_app/v1/app_list_error"	APP_NAME	"404 Not found"
TP_MEC_MEC016_MEO_UEAPPS_001_BR	"Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application"	"/dev_app/v1/app_list"	APP_NAME_ERROR	"400 Bad Request"

6.9 MEC021

6.9.1 Services (SRV)

6.9.1.1 Application Mobility Service (AMS)

TP Id	"TP_MEC_MEC021_SRV_AMS_001_OK_01"
Test Objective	Check that the AMS service returns information about the registered application mobility services when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/app_mobility_services"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               RegistrationInfoList containing
                   RegistrationInfo containing
                       appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
                   RegistrationInfo containing
                       appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_001_OK_02"
Test Objective	Check that the AMS service returns information about the a specific registered application mobility service when requested - filter
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/app_mobility_services?filter=eq,appMobilityServiceId,{APP_MOBILITY_SERVICE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                RegistrationInfoList containing
                    RegistrationInfo containing
                        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_001_OK_03"
Test Objective	Check that the AMS service returns information about the a specific registered application mobility service when requested - filter
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value APP_INSTANCE_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/app_mobility_services?filter=eq,serviceConsumerId[appInstanceId],{APP_INSTANCE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                RegistrationInfoList containing
                    RegistrationInfo containing
                        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
                        serviceConsumerId containing
                            appInstanceId indicating value APP_INSTANCE_ID_1
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_001_OK_04"
Test Objective	Check that the AMS service returns information about the specific registered application mobility service when requested - exclude fields
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/app_mobility_services?filter=eq,appMobilityServiceId,{APP_MOBILITY_SERVICE_ID_1}&exclude
_fields=[serviceConsumerId]"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                RegistrationInfoList containing
                    RegistrationInfo containing
                        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
                        not serviceConsumerId
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_001_OK_05"
Test Objective	Check that the AMS service returns information about the registered application mobility services when requested - No registered application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT not having a RegistrationInfoList
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/app_mobility_services"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body indicating value omit
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_001_BR"
Test Objective	Check that the AMS service returns an error when receives a query about a registered application mobility service with wrong parameters
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

with {
}
Expected Behaviour	

ensure that {
when {
the IUT receives a vGET containing
uri indicating value
"/amsi/v1/app_mobility_services?filter=appMobilityServiceId,eq,{APP_MOBILITY_SERVICE_ID_1}" //
Wrong filter arguments
from the AMS_CLIENT entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "400 Bad Request"
to the AMS_CLIENT entity
}
}	

TP Id	"TP_MEC_MEC021_SRV_AMS_002_OK"
Test Objective	Check that the AMS service creates a new application mobility services when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

with {
the IUT being_in idle_state
}
Expected Behaviour	

ensure that {
when {
the IUT receives a vPOST containing
uri indicating value "/amsi/v1/app_mobility_services",
body containing
RegistrationInfo containing
serviceConsumerId containing
appInstanceId set to APP_INS_ID
from the AMS_CLIENT entity
}
then {
the IUT sends a HTTP_RESPONSE containing
status set to "201 Created",
body containing
RegistrationInfo containing
appMobilityServiceId set to any_value,
serviceConsumerId containing
appInstanceId set to APP_INS_ID
to the AMS_CLIENT entity
}
}	

TP Id	"TP_MEC_MEC021_SRV_AMS_002_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed request to create a new application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.3.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "/amsi/v1/app_mobility_services",
            body containing
                RegistrationRequest containing
                    appMobilityServiceId indicating value any_value // wrong field value: Shall be
absent in POST requests, and present otherwise
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_003_OK"
Test Objective	Check that the AMS service returns information about the available subscriptions when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.4 ETSI GS MEC 021 V3.1.1 [10], clause 8.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    subscriptionType indicating value SUBSCRIPTION_TYPE
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/subscriptions",
            query_parameters containing
                subscriptionType indicating value SUBSCRIPTION_TYPE // mobility_proc or
adj_app_info
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                SubscriptionLinkList containing
                    subscription containing
                        _links containing
                            self indicating value SUBSCRIPTION_HREF_VALUE,
                        subscriptionType indicating value SUBSCRIPTION_TYPE, // mobility_proc or
adj_app_info
                        callbackReference set to any_value
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_003_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed query about the available subscriptions
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.4 ETSI GS MEC 021 V3.1.1 [10], clause 8.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    subscriptionType indicating value SUBSCRIPTION_TYPE
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/subscriptions/",
                query_parameters containing
                    subscriptionType indicating value "info_app_adj" // Wrong parameter
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_004_OK"
Test Objective	Check that the AMS service creates a notification subscriptions when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "/amsi/v1/subscriptions",
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value CALLBACK_REFERENCE,
                    filterCriteria set to any_value
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "201 Created",
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE,
                    callbackReference indicating value CALLBACK_REFERENCE
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_004_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed request to create a notification subscription
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "/amsi/v1/subscriptions/",
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value "Subscription", // wrong parameter:
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value CALLBACK_REFERENCE
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_005_OK"
Test Objective	Check that the AMS service returns information about a given subscription when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.4.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.4.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS
Initial Conditions	

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    callbackReference indicating value CALLBACK_REFERENCE,
    subscriptionType indicating value SUBSCRIPTION_TYPE // MobilityProcedureSubscription or
AdjacentAppInfoSubscription
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value SUBSCRIPTION_HREF_VALUE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value CALLBACK_REFERENCE
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_005_NF"
Test Objective	Check that the AMS service returns an error when receives a query about a not existing subscription
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.4.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.4.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    callbackReference indicating value CALLBACK_REFERENCE,
    subscriptionType indicating value SUBSCRIPTION_TYPE // MobilityProcedureSubscription or
AdjacentAppInfoSubscription
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value UNKNOWN_SUBSCRIPTION_HREF_VALUE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_006_OK"
Test Objective	Check that the AMS service deletes a given subscription when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.7 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value SUBSCRIPTION_HREF_VALUE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_006_NF"
Test Objective	Check that the AMS service sends an error when it receives a delete request for a not existing subscription
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.7 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value UNKNOWN_SUBSCRIPTION_HREF_VALUE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_007_OK"
Test Objective	Check that the AMS service modifies a given subscription when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    callbackReference indicating value CALLBACK_REFERENCE,
    subscriptionType indicating value SUBSCRIPTION_TYPE // MobilityProcedureSubscription or
AdjacentAppInfoSubscription
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value SUBSCRIPTION_HREF_VALUE,
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value NEW_CALLBACK_REFERENCE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value NEW_CALLBACK_REFERENCE
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_007_BR"
Test Objective	Check that the AMS service sends an error when it receives a malformed modify request for a given subscription
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    callbackReference indicating value CALLBACK_REFERENCE,
    subscriptionType indicating value SUBSCRIPTION_TYPE // MobilityProcedureSubscription or
AdjacentAppInfoSubscription
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value SUBSCRIPTION_HREF_VALUE,
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value "Subscription", // Wrong parameter:
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value NEW_CALLBACK_REFERENCE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_007_NF"
Test Objective	Check that the AMS service sends an error when it receives a modify request for a not existing subscription
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.7.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    _link containing
        self indicating value SUBSCRIPTION_HREF_VALUE,
    callbackReference indicating value CALLBACK_REFERENCE,
    subscriptionType indicating value SUBSCRIPTION_TYPE // MobilityProcedureSubscription or
AdjacentAppInfoSubscription
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value UNKNOWN_SUBSCRIPTION_HREF_VALUE,
            body containing
                NotificationSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value NEW_CALLBACK_REFERENCE
        from the MEC_SUB entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_008_OK"
Test Objective	Check that the AMS service sends an AMS notification about a mobility procedure if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.4.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    subscriptionType indicating value "MobilityProcedureSubscription",
    callbackReference indicating value CALLBACK_URI,
    filterCriteria containing
        appInstanceId set to APP_INSTANCE_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT generates a mobility_procedure_event containing
            appInstanceId set to APP_INSTANCE_ID
    }
    then {
        the IUT sends a vPOST containing
            uri indicating value CALLBACK_URI,
            body containing
                notificationType indicating value "MobilityProcedureNotification",
                targetAppInfo containing
                   appInstanceId set to APP_INSTANCE_ID,
               mobilityStatus set to any_value
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_009_OK"
Test Objective	Check that the AMS service sends an AMS notification about adjacent application instances if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.4.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    subscriptionType indicating value "AdjacentAppInfoSubscription",
    callbackReference indicating value CALLBACK_URI,
    filterCriteria containing
        appInstanceId set to APP_INSTANCE_ID
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT generates a adjacent_app_info_event containing
            appInstanceId set to APP_INSTANCE_ID
    }
    then {
        the IUT sends a vPOST containing
            uri indicating value CALLBACK_URI,
            body containing
                notificationType indicating value "AdjacentAppInfoNotification",
                adjacentAppInfo containing
                   appInstanceId set to APP_INSTANCE_ID
         to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_010_OK"
Test Objective	Check that the AMS service sends an AMS notification on subscription expiration if the AMS service has an associated subscription and the event is generated
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.4.4 ETSI GS MEC 021 V3.1.1 [10], clause 8.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a AMS_subscription containing
    subscriptionType indicating value any_value, // A valid subscription types
    callbackReference indicating value CALLBACK_URI,
    _links containing
        self set to SUBSCRIPTION_HREF_VALUE ,
    subscriptionId set to SUBSCRIPTION_ID,
    expiryDeadline set to EXPIRY_DEADLINE
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT generates a expiry_notification_event containing
             subscriptionId set to SUBSCRIPTION_ID
    }
    then {
        the IUT sends a vPOST containing
            uri indicating value CALLBACK_URI,
            body containing
               notificationType indicating value "ExpiryNotification",
               expiryDeadline set to EXPIRY_DEADLINE
        to the MEC_SUB entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_011_OK"
Test Objective	Check that the AMS service returns information about this individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/app_mobility_services/{APP_MOBILITY_SERVICE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                RegistrationInfo containing
                   appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_011_NF"
Test Objective	Check that the AMS service sends an error when receives a query about a not existing individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/app_mobility_services/{NON_EXISTENT_APP_MOBILITY_SERVICE_ID}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_012_OK"
Test Objective	Check that the AMS service modifies the individual application mobility service when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.4 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
       the IUT receives a vPUT containing
            uri indicating value "/amsi/v1/app_mobility_services/{APP_MOBILITY_SERVICE_ID_1}",
            body containing
                RegistrationInfo containing
                    serviceConsumerId containing
                        appInstanceId indicating value NEW_APP_INS_ID_NEW_1
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "200 OK",
            body containing
                RegistrationInfo containing
                    appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
                    serviceConsumerId containing
                        appInstanceId indicating value NEW_APP_INS_ID_NEW_1
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_012_BR"
Test Objective	Check that the AMS service sends an error when receives a request to modify a individual application mobility service using bad parameters
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.4 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
           uri indicating value "/amsi/v1/app_mobility_services/{APP_MOBILITY_SERVICE_ID_1}",
           body containing
               RegistrationInfo containing
                   appMobilityServiceId indicating value omit // Wrong field value: Shall be
present
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "400 Bad Request"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_012_NF"
Test Objective	Check that the AMS service sends an error when receives a request to modify a not existing individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.4 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
       the IUT receives a vPUT containing
            uri indicating value
"/amsi/v1/app_mobility_services/{NON_EXISTENT_APP_MOBILITY_SERVICE_ID}",
            body containing
                RegistrationInfo containing
                    serviceConsumerId containing
                        appInstanceId indicating value NEW_APP_INS_ID_NEW_1
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_013_OK"
Test Objective	Check that the AMS service de-register the individual application mobility service and delete the resource that represents the individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.3 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "/amsi/v1/app_mobility_services/{APP_MOBILITY_SERVICE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_013_NF"
Test Objective	Check that the AMS service sends an error when is requested to delete the resource that represents the individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.3 ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.4.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value
"/amsi/v1/app_mobility_services/{NON_ESISTENT_APP_MOBILITY_SERVICE_ID}"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_014_OK"
Test Objective	Check that the AMS service deregister an individual application mobility service on expiry of the timer associated with the service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value
"/amsi/v1/app_mobility_services/{APP_MOBILITY_SERVICE_ID}/deregisterTask"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "204 No Content"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_014_NF"
Test Objective	Check that the AMS service send an error when is requested to deregister a not existent individual application mobility service
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.2 ETSI GS MEC 021 V3.1.1 [10], clause 8.5.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a RegistrationInfoList containing
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_1,
        serviceConsumerId containing
            appInstanceId indicating value SERVICE_CONSUMER_ID_1,
    RegistrationInfo containing
        appMobilityServiceId indicating value APP_MOBILITY_SERVICE_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value
"/amsi/v1/app_mobility_services/{NON_EXISTENT_APP_MOBILITY_SERVICE_ID}/deregisterTask"
        from the AMS_CLIENT entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status set to "404 Not Found"
        to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_015_OK_01"
Test Objective	Check that the AMS service returns information about the registered application mobility services when requested
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AdjacentAppInstanceInfoList containing
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_1,
        appDId indicating value APP_ID_1,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_2,
        appDId indicating value APP_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/queries/adjacent_app_instances"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AdjacentAppInstanceInfoList containing
                   AdjacentAppInstanceInfo containing
                       appInstanceId indicating value APP_INSTANCE_ID_1,
                       appDId indicating value APP_ID_1,
                   AdjacentAppInstanceInfo containing
                       appInstanceId indicating value APP_INSTANCE_ID_2,
                       appDId indicating value APP_ID_2
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_015_OK_02"
Test Objective	Check that the AMS service returns information about the adjacent application instances when requested - filter
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AdjacentAppInstanceInfoList containing
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_1,
        appDId indicating value APP_ID_1,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_2,
        appDId indicating value APP_ID_2
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/queries/adjacent_app_instances?filtereq,appInstanceId,{APP_INSTANCE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AdjacentAppInstanceInfoList containing
                   AdjacentAppInstanceInfo containing
                       appInstanceId indicating value APP_INSTANCE_ID_1,
                       appDId indicating value APP_ID_1
       to the AMS_CLIENT entity
```

```
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_015_OK_03"
Test Objective	Check that the AMS service returns information about a specified adjacent application instances when requested - filter
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AdjacentAppInstanceInfoList containing
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_1,
        appDId indicating value APP_ID_1,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_2,
        appDId indicating value APP_ID_2,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_3,
        appDId indicating value APP_ID_3
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/queries/adjacent_app_instances?filtereq,appInstanceId,{APP_INSTANCE_ID_1}&filtereq,appDI
d,{APP_ID_3}"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "200 OK",
           body containing
               AdjacentAppInstanceInfoList containing
                   AdjacentAppInstanceInfo containing
                       appInstanceId indicating value APP_INSTANCE_ID_1,
                       appDId indicating value APP_ID_1,
                   AdjacentAppInstanceInfo containing
                       appInstanceId indicating value APP_INSTANCE_ID_3,
                       appDId indicating value APP_ID_3
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_015_OK_04"
Test Objective	Check that the AMS service returns information about a specified adjacent application instances when requested - No adjacent application instances
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT not having a AdjacentAppInstanceInfoList
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "/amsi/v1/queries/adjacent_app_instances"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status indicating value "200 OK",
           body indicating value omit
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_AMS_015_BR"
Test Objective	Check that the AMS service sends an error about a specified adjacent application instances when request is inconsistent
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 7.2.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_AMS

Initial Conditions

```
with {
the IUT having a AdjacentAppInstanceInfoList containing
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_1,
        appDId indicating value APP_ID_1,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_2,
        appDId indicating value APP_ID_2,
    AdjacentAppInstanceInfo containing
        appInstanceId indicating value APP_INSTANCE_ID_3,
        appDId indicating value APP_ID_3
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value
"/amsi/v1/queries/adjacent_app_instances?filterappInstanceId,eq,{APP_INSTANCE_ID_1}"
        from the AMS_CLIENT entity
    }
    then {
       the IUT sends a HTTP_RESPONSE containing
           status set to "400 Bad Request"
       to the AMS_CLIENT entity
    }
}
```

TP Id	"TP_MEC_MEC021_SRV_UETESTNOT_001_OK"
Test Objective	Check that the IUT provides a test notification when requested by a MEC Application
Reference	ETSI GS MEC 021 V3.1.1 [10], clause 6.9 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.2 ETSI GS MEC 021 V3.1.1 [10], clause 7.3.3 ETSI GS MEC 021 V3.1.1 [10], clause 8.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "/amsi/v1/subscriptions"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value CALLBACK_URL,
                    requestTestNotification indicating value true,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                userLocationEventSubscription containing
                    subscriptionType indicating value SUBSCRIPTION_TYPE, //
MobilityProcedureSubscription or AdjacentAppInfoSubscription
                    callbackReference indicating value CALLBACK_URL,
                    requestTestNotification indicating value true, // FIXME: To be confirmed
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
        to the MEC_APP entity
```

```
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                testNotification containing
                    notificationType indicating value "TestNotification",
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

6.10 MEC028

6.10.1 Services (SRV)

6.10.1.1 WLAN Access Information (WAI)

TP Id	"TP_MEC_MEC028_SRV_WAI_001_OK"
Test Objective	Check that the IUT responds with the list of WLAN Access Point
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.3.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1258
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT
Initial Conditions	

```
with {
the IUT having a ApInfo containing
    apId containing
        bssid indicating value BSSID


          }
```

Expected Behaviour

```
// MEC 028, clause 5.2.2
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/ap/ap_information"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                ApInfoList containing
                     ApInfo containing
                        apId containing
                               bssid set to BSSID







        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_002_OK"
Test Objective	Check that the IUT responds with the list of WLAN Access Point filtered by the bssid provided as query parameter
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.3.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1258
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT having a ApInfo containing
    apId containing
        bssid indicating value BSSID


          }
```

Expected Behaviour

```
// MEC 028, clause 5.2.2
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/ap/ap_information",
                query_parameters containing
                      bssid indicating value BSSID


        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                ApInfoList containing
                 ApInfo containing
                    apId containing
                           bssid indicating value BSSID







        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.3.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
// MEC 028, clause 5.2.2
            //     Invalid filter should trigger an error response.
ensure that {
when {
    the IUT receives
        a vGET containing
            uri indicating value "/wai/v2/queries/ap/ap_information",
            query_parameters containing
                bss_id indicating value BSSID //Correct parameter is bssid w/o underscore


    from the MEC_APP entity
}
then {
    // MEC 028, clause 7.3.3.1
```

```
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
            body containing
             ProblemDetails containing
                details set to "Invalid filtering: macIdentifer does not exist."



    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_003_OK"
Test Objective	Check that the IUT responds with the list of Station Point
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.4.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.3 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.3.1/WlanInformationApi.yaml#L2374
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT having a StaInfo containing
    StaIdentity containing
        macId indicating value MAC_ID


          }
```

Expected Behaviour

```
// MEC 028, clause 5.2.3
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/sta/sta_information"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.4.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                body containing
                     StaInfo containing
                        StaIdentity containing
                               macId set to MAC_ID




        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_004_OK"
Test Objective	Check that the IUT responds with the list of Station Point filtered by the macId provided as query parameter
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.4.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.3 https://forge.etsi.org/rep/mec/gs028-wai-api/-/blob/v2.3.1/WlanInformationApi.yaml#L2374
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT having a StaInfo containing
    StaIdentity containing
        macId indicating value MAC_ID


          }
```

Expected Behaviour

```
// MEC 028, clause 5.2.3
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/sta/sta_information",
                query_parameters containing
                    macId set to MAC_ID


        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.4.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                body containing
                     StaInfo containing
                        StaIdentity containing
                               macId set to MAC_ID




        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.4.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
// MEC 028, clause 5.2.3
            //     Invalid filter should trigger an error response.
ensure that {
when {
    the IUT receives
        a vGET containing
            uri indicating value "/wai/v2/queries/sta/sta_information",
            query_parameters containing
                mac set to MAC_ID


    from the MEC_APP entity
}
then {
    // MEC 028, clause 7.4.3.1
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        body containing
             ProblemDetails containing
                details set to "Invalid filtering: mac does not exist."



    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_005_OK"
Test Objective	Check that the IUT responds with the requested list of subscription
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.4 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L2625
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT having a AssocStaSubscription containing
    _link containing
        self containing
            href set to "uri/to/subscription"



          }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.1
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/subscriptions"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.5.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                body containing
                     SubscriptionLinkList containing
                         assocStaSubscription containing
                             _link containing
                                 self containing
                                         href set to "uri/to/subscription"









        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_006_OK"
Test Objective	Check that the IUT responds with the requested list of subscription when the MEC Platform is queried using a filter on subscription type.
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT having a AssocStaSubscription containing
    _link containing
        self containing
            href set to "uri/to/subscription"



          }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.1
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/subscriptions"
```

```
                query_parameters containing
                    subscription_type indicating value "assoc_sta"


        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.5.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                body containing
                     SubscriptionLinkList containing
                         assocStaSubscription containing
                             _link containing
                                 self containing
                                     LinkType containing
                                         href set to "uri/to/subscription"









        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT
Initial Conditions	

```
with {
the IUT being_in idle_state
          }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.1
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/subscriptions"
                query_parameters containing
                    subscription_type indicating value "assocStaSub"


        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.5.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "400 Bad Request"

        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_006_NF"
Test Objective	Check that the IUT responds with an error when a request with not existing parameters is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
              }
```

Expected Behaviour

//MEC 028, clause 5.2.4.1
ensure that {
when {
the IUT receives
a vGET containing
uri indicating value "/wai/v2/subscriptions_INVALID_URI"
 	
from the MEC_APP entity
}
then {
// MEC 028, clause 7.5.3.1
the IUT sends
a HTTP_RESPONSE containing
status_code set to "404 Not Found"
 	
to the MEC_APP entity
}
}

TP Id	"TP_MEC_MEC028_SRV_WAI_007_OK"
Test Objective	Check that the IUT responds with a Notification Subscription
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.4 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state
}	

Expected Behaviour	

ensure that {
when {
the IUT receives
a vPOST containing
uri indicating value "/wai/v2/subscriptions"
body containing
AssocStaSubscription containing
subscriptionType set to "AssocStaSubscription",
callbackReference set to CALLBACK_URI,
apId containing
bssid set to BSSID
 	
from the MEC_APP entity
}
then {
// MEC 028, clause 7.5.3.4
the IUT sends
a HTTP_RESPONSE containing
status_code set to "201 Created",
Location set to LOCATION,
body containing
AssocStaSubscription containing
subscriptionType set to "AssocStaSubscription",
callbackReference set to CALLBACK_URI,
self containing
href set to "/wai/v2/subscriptions/{SUBSCRIPTION_ID}",
apId containing
bssid set to BSSID
 	
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC028_SRV_WAI_007_BR"
Test Objective	Check that the IUT responds with an error when an invalid Subscription request is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.4 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
//     Invalid subscriptionType should trigger an error response.
ensure that {
when {
    the IUT receives
        a vPOST containing
            uri indicating value "/wai/v2/subscriptions"
            body containing
                 AssocStaSubscription containing
                     subscriptionType set to "INVALID_VALUE"



    from the MEC_APP entity
}
then {
    // MEC 028, clause 7.5.3.4
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_007_NF"
Test Objective	Check that the IUT responds with an error when a request with not existing parameters is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.5.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
             }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.1
ensure that {
when {
    the IUT receives
        a vPOST containing
            uri indicating value "/wai/v2/subscriptions_INVALID_URI",
            body containing
                 AssocStaSubscription containing
                     subscriptionType set to "AssocStaSubscription",
                     callbackReference set to CALLBACK_URI,
                     apId containing
                         macId set to MAC_ID




    from the MEC_APP entity
}
then {
    // MEC 028, clause 7.5.3.1
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_008_OK"
Test Objective	Check that the IUT responds with the list of Subscription
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT having a subscription containing
    subscriptionId indicating value SUBSCRIPTION_ID

          }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.6.3.1
        the IUT sends
            a HTTP_RESPONSE containing
                status_code set to "200 OK"
                    body containing
                         AssocStaSubscription containing
                             subscriptionType set to "AssocStaSubscription",
                             callbackReference set to CALLBACK_URI,
                             apId containing
                                 bssid indicating value BSSID




        to the MEC_APP entity
    }
 }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_008_NF"
Test Objective	Check that the IUT responds with an error when a request for existing subscription with incorrect parameters is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT not having a subscription containing
                subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

             }
```

Expected Behaviour

```
ensure that {
when {
    the IUT receives
        a vGET containing
            uri indicating value "/wai/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

    from the MEC_APP entity
}
then {
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "404 Not found"

    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_009_OK"
Test Objective	Check that the IUT responds with a Notification Subscription when it is modified
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.2 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT having a
        AssocStaSubscription containing
             subscriptionType set to "AssocStaSubscription",
             callbackReference set to CALLBACK_URI,
             _links containing
                 self set to URI_TO_RESOURCE,
                 apId containing
                     bssid indicating value BSSID



              }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.3
ensure that {
when {
    the IUT receives
        a vPUT containing
            uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}"
            body containing
                 AssocStaSubscription containing
                         subscriptionType set to "AssocStaSubscription",
                         callbackReference set to NEW_CALLBACK_URI,
                         _links containing
                             self set to URI_TO_RESOURCE,
                         apId containing
                             bssid indicating value BSSID







    from the MEC_APP entity
}
then {
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                 AssocStaSubscription containing
                         subscriptionType set to "AssocStaSubscription",
                         callbackReference set to NEW_CALLBACK_URI,
                         _links containing
                             self set to "uri/to/resource",
                         apId containing
                             bssid indicating value BSSID







    to the MEC_APP entity
}
              }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_009_BR"
Test Objective	Check that the IUT responds with an error when an invalid field is set in the subscription modification request
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.2
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES
Initial Conditions	

```
with {
the IUT having a
        AssocStaSubscription containing
```

```
             subscriptionType set to "AssocStaSubscription",
             callbackReference set to CALLBACK_URI,
             _links containing
                 self set to URI_TO_RESOURCE,
                 apId containing
                      bssid indicating value BSSID



              }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.3
            //     Invalid subscriptionType should trigger an error response.
ensure that {
when {
    the IUT receives
        a vPUT containing
            uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}"
            body containing
                 AssocStaSubscription containing
                         subscriptionType set to "INVALID_VALUE",
                         callbackReference set to CALLBACK_URI,
                         _links containing
                             self set to "uri/to/resource",
                         apId containing
                             bssid indicating value BSSID







    from the MEC_APP entity
}
then {
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_010_OK"
Test Objective	Check that the IUT responds with 204 when an existing subscription is correctly deleted
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT having a
        AssocStaSubscription containing
             subscriptionType set to "AssocStaSubscription",
             callbackReference set to CALLBACK_URI,
             _links containing
                 self set to URI_TO_RESOURCE,
                 apId containing
                         bssid indicating value BSSID



              }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.4
ensure that {
when {
    the IUT receives
        a vDELETE containing
            uri indicating value "/wai/v2/subscriptions/{SUBSCRIPTION_ID}"

    from the MEC_APP entity
}
then {
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "204 No Content"
```

```
    to the MEC_APP entity
}
            }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_010_NF"
Test Objective	Check that the IUT responds with an error when an not existing subscription cannot be deleted
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.6.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_MEC_SYSTEM and PIC_SERVICES

Initial Conditions

```
with {
the IUT not having a subscriptions containing
                subscriptionId indicating value NON_EXISTENT_SUBSCRIPTION_ID

             }
```

Expected Behaviour

```
//MEC 028, clause 5.2.4.4
ensure that {
when {
    the IUT receives
        a vDELETE containing
            uri indicating value "/wai/v2/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

    from the MEC_APP entity
}
then {
    the IUT sends
        a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

    to the MEC_APP entity
}
             }
```

TP Id	"TP_MEC_MEC028_SRV_WAI_011_OK"
Test Objective	Check that the IUT sends a notification about WLAN event notification if the MEC service has an associated subscription and the event is generated
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 6.4.2 ETSI GS MEC 028 V2.3.1 [11], clause 6.3.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1309 ETSI GS MEC 028 V2.3.1 [11], clause 6.4.2 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1292
Configuration	Config_MEC_4
PICS Selection	PIC_NOTIFICATIONS

Initial Conditions

```
with {
the IUT having a AssocStaSubscription containing
   subscriptionType indicating value "AssocStaSubscription",
   callbackReference indicating value CALLBACK_URI,
   apId containing
         bssid set to BSSID


      }
```

Expected Behaviour

```
// MEC 028, clause 5.2.6
ensure that {
   when {
      the IUT generates a ap_identity_event containing
         macId set to MAC_ID
   }
   then {
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URI,
         body containing
            notificationType indicating value "AssocStaNotification",
            apId containing
                    bssid set to BSSID
```

```
      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_012_OK"
Test Objective	Check that the IUT responds with a list of measurement configurations available from the WLAN Access Information Service
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.7.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.5 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1961
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a MeasurementConfigLinkList containing
    _links containing
      href indicating value "/wai/v2/queries/measurements/MEASUREMENT_ID",
    measurementConfig containing
         href set to ANY_VALUE,
         measurementId set to MEASUREMENT_ID



        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/measurements"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.7.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                MeasurementConfigLinkList containing
                    _links containing
                      href indicating value "/wai/v2/queries/measurements/MEASUREMENT_ID",
                    measurementConfig containing
                         href set to ANY_VALUE,
                         measurementId set to MEASUREMENT_ID







        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_013_OK"
Test Objective	Check that the IUT responds with a new measurement configuration
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.7.3.4 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.4 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1941
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vPOST containing
```

```
                uri indicating value "/wai/v2/queries/measurements",
                body containing
                    MeasurementConfig containing
                        measurementId set to MEAS_ID,
                        measurementInfo set to CONFIG_VALUE,
                        staId containing
                            macId set to MAC_ID




        from the MEC_APP entity
    } then {
        // MEC 028, clause 7.7.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                MeasurementConfig containing
                    measurementId set to MEAS_ID,
                    measurementInfo set to CONFIG_VALUE
                    staId containing
                        macId set to MAC_ID




        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_013_BR"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.7.3.4 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.4 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1941
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vPOST containing
                uri indicating value "/wai/v2/queries/measurements"
                // How to trigger an error response.
                body containing
                    MeasurementConfig containing
                        measurementId set to MEAS_ID,
                        measurementInfo set to CONFIG_VALUE
                        statId containing     //staId is misspelled
                            macId set to MAC_ID




        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.7.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_014_OK"
Test Objective	Check that the IUT responds with the specified measurement configuration
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.1 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.4 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1941
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a MeasurementConfig containing
   measurementConfig containing
      measurementId set to MEASUREMENT_CONFIG_ID


      }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                MeasurementConfig containing
                    measurementId set to MEASUREMENT_CONFIG_ID,
                    measurementInfo set to CONFIG_VALUE
                    staId containing
                        macId set to MAC_ID




        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_014_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.1
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a MeasurementConfig containing
    measurementConfig containing
        measurementId set to MEASUREMENT_CONFIG_ID


        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vGET containing
                uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_APP entity
```

```
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_015_OK"
Test Objective	Check that the IUT responds with the modified measurement configuration
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.2 ETSI GS MEC 028 V2.3.1 [11], clause 6.2.4 https://forge.etsi.org/rep/mec/gs028-wai-api/blob/v2.3.1/WlanInformationApi.yaml#L1941
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a MeasurementConfig containing
    measurementConfig containing
        measurementId set to MEASUREMENT_CONFIG_ID,
        measurementInfo set to CONFIG_VALUE
        staId containing
            macId set to MAC_ID




        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vPUT containing
                uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}",
                body containing
                    MeasurementConfig containing
                        measurementId set to MEASUREMENT_CONFIG_ID,
                        measurementInfo set to NEW_CONFIG_VALUE,
                        staId containing
                            macId set to MAC_ID




        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                MeasurementConfigLinkList containing
                    measurementId set to MEASUREMENT_CONFIG_ID,
                    measurementInfo set to NEW_CONFIG_VALUE,
                    staId containing
                        macId set to MAC_ID




        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_015_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.2
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a MeasurementConfig containing
    measurementConfig containing
        measurementId set to MEASUREMENT_CONFIG_ID
```

```
        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vPUT containing
                uri indicating value
"/wai/v2/queries/measurements/{INVALID_MEASUREMENT_CONFIG_ID}",
                body containing
                    MeasurementConfigLinkList containing
                        measurementId set to MEASUREMENT_CONFIG_ID,
                        measurementInfo set to NEW_CONFIG_VALUE,
                        staId containing
                            macId set to MAC_ID




        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_016_OK"
Test Objective	Check that the IUT responds with 204 when requested to delete the specified measurement configuration
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a MeasurementConfig containing
    measurementConfig containing
        measurementId set to MEASUREMENT_CONFIG_ID,
        measurementInfo set to NCONFIG_VALUE,
        staId containing
            macId set to MAC_ID




        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vDELETE containing
                uri indicating value "/wai/v2/queries/measurements/{MEASUREMENT_CONFIG_ID}"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "204 No Content"

        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC028_SRV_WAI_016_NF"
Test Objective	Check that the IUT responds with an error when an invalid request is sent
Reference	ETSI GS MEC 028 V2.3.1 [11], clause 7.8.3.5
Configuration	Config_MEC_4
PICS Selection	PIC_Services and PIC_MEC_PLAT
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a
    MeasurementConfig containing
        measurementId set to MEASUREMENT_CONFIG_ID

        }
```

Expected Behaviour

```
// MEC 028, clause 5.2.7
ensure that {
    when {
        the IUT receives
            a vDELETE containing
                uri indicating value
"/wai/v2/queries/measurements/{INVALID_MEASUREMENT_CONFIG_ID}"

        from the MEC_APP entity
    }
    then {
        // MEC 028, clause 7.8.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_APP entity
    }
}
```

6.11 MEC029

6.11.1 Services (SRV)

6.11.1.1 Fixed Access Information Service (FAIS)

TP Id	"TP_MEC_MEC029_SRV_FAIS_001_OK"
Test Objective	Check that the IUT responds with the current status of the fixed access information when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/fa_info"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            FaInfo set to any_value


      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/fa_info"
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            interface indicating value 1


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_001_NF"
Test Objective	Check that the IUT responds with an error when a request for non-existing data is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.2
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/fa_info"
         query_parameters containing
            interfaceType indicating value 999


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_002_OK"
Test Objective	Check that the IUT responds with the current status of the device information when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.3
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/device_info"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            DeviceInfo set to any_value


      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.3
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/device_info"
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            device indicating value any_value


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_002_NF"
Test Objective	Check that the IUT responds with an error when a request for non-existing data is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.3
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/device_info"
         query_parameters containing
            gwId indicating value NON_EXISTING_FAI_GW_ID


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_003_OK"
Test Objective	Check that the IUT responds with the current status of the cable line information when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/cable_line_info"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            CableLineInfo set to any_value


      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/cable_line_info"
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            cm indicating value any_value


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_003_NF"
Test Objective	Check that the IUT responds with an error when a request for non-existing data is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/cable_line_info"
         query_parameters containing
            cmId indicating value NON_EXISTING_FAI_CM_ID


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_004_OK"
Test Objective	Check that the IUT responds with the current status of the optical network information when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/optical_network_info"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.6.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            PonInfo set to any_value


      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/optical_network_info"
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            onu indicating value any_value


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.6.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_004_NF"
Test Objective	Check that the IUT responds with an error when a request for non-existing data is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.6.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/queries/optical_network_info"
         query_parameters containing
            onuId indicating value NON_EXISTING_FAI_ONU_ID


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_005_OK"
Test Objective	Check that the IUT responds with the subscriptions for fixed access information notifications when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.8
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.1
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/subscriptions"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.8
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            SubscriptionLinkList set to any_value


      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_005_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.1
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/subscriptions"
         query_parameters containing
            // Wrong parameter name should trigger an error response.
            subscription indicating value any_value


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_005_NF"
Test Objective	Check that the IUT responds with an error when a request for non-existing data is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.1
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/subscriptions"
         query_parameters containing
            subscription_type indicating value NON_EXISTING_FAI_SUB_ID


      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_006_OK"
Test Objective	Check that the IUT acknowledges the subscription by a MEC Application to notifications on Optical Network Unit alarm events
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.1
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "fai/v1/subscriptions"
         body containing
            OnuAlarmSubscription containing
               subscriptionType indicating value "OnuAlarmSubscription",
               callbackReference indicating value CALLBACK_URL



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      to the MEC_APP entity
      and
      // MEC 029, clause 7.7.3.4
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URL
         body containing
            OnuAlarmNotification containing
               notificationType set to "OnuAlarmSubscription"



      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.1
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "fai/v1/subscriptions"
         body containing
            OnuAlarmSubscription containing
               // Unknown value should trigger an error response.
               subscriptionType indicating value UNKNOWN_SUSCRIPTION,
               callbackReference indicating value CALLBACK_URL
```

```
      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_007_OK"
Test Objective	Check that the IUT responds with the information on a given subscription when queried by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/subscriptions/{SUBSCRIPTION_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_007_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/fai/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.1
```

```
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_008_OK"
Test Objective	Check that the IUT updates an existing subscription when commanded by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/fai/v1/subscriptions/{SUBSCRIPTION_ID}",
         if_match indicating value PROPER_ETAG,
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_008_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/fai/v1/subscriptions/{SUBSCRIPTION_ID}",
         if_match indicating value PROPER_ETAG,
         body containing
            OnuAlarmSubscription containing
            // Wrong parameter name should trigger an error response.
```

```
               subscription set to "OnuAlarmSubscription"



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_008_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
   subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/fai/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}",
         if_match indicating value PROPER_ETAG,
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_008_PF"
Test Objective	Check that the IUT responds with an error when a request sent by a MEC Application does not comply with a required condition
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.4
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/fai/v1/subscriptions/{SUBSCRIPTION_ID}",
         if_match indicating value INVALID_ETAG,
```

```
         body containing
            OnuAlarmSubscription containing
               subscriptionType set to "OnuAlarmSubscription"



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "412 Precondition Failed"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_009_OK"
Test Objective	Check that the IUT cancels an existing subscription when commanded by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscription_id indicating value SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/fai/v1/subscriptions/{SUBSCRIPTION_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_009_NF"
Test Objective	Check that the IUT responds with an error when a request for an unknown URI is sent by a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.8.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT not having a subscriptions containing
   subscription_id indicating value NON_EXISTENT_SUBSCRIPTION_ID

      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.5
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/fai/v1/subscriptions/{NON_EXISTENT_SUBSCRIPTION_ID}"

      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.8.3.5
```

```
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_010_OK"
Test Objective	Check that the IUT sends notification on expiry of Fixed Access Information event subscription to a MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.6.2
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "fai/v1/subscriptions"
         body containing
            OnuAlarmSubscription containing
               subscriptionType indicating value "DevInfoSubscription",
               callbackReference indicating value CALLBACK_URL,
               expiryDeadline indicating value NOW_PLUS_X_SECONDS    // TODO: how to set this?



      from the MEC_APP entity
   }
   then {
      // MEC 029, clause 7.7.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location set to LOCATION,
         body containing
            DevInfoSubscription containing
               subscriptionType set to "DevInfoSubscription"



      to the MEC_APP entity
      // TODO: how to wait for a timeout of NOW_PLUS_X_SECONDS - guard time? which guard time
value to use?
      and
      // MEC 029, clause 5.2.6.2
      the IUT sends a vPOST containing
         uri indicating value CALLBACK_URL
         body containing
            ExpiryNotification containing
               expiryDeadline indicating value NOW_PLUS_X_SECONDS    // TODO: how to set this?



      to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC029_SRV_FAIS_011_OK"
Test Objective	Check that the IUT sends notifications on Fixed Access Information events to a subscribed MEC Application
Reference	ETSI GS MEC 029 V2.2.1 [12], clause 5.2.7
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a subscriptions containing
   subscriptionType indicating value "OnuAlarmSubscription",
   callbackReference indicating value CALLBACK_URL
```

```
      }
```

Expected Behaviour

```
// MEC 029, clause 5.2.7
ensure that {
   when {
      the IUT generates a onu_alarm_event
   }
   then {
      // MEC 029, clause 5.2.7
      the IUT sends a vPOST containing
         Uri set to CALLBACK_URL
         body containing
            OnuAlarmSubscription containing
               notificationType set to "OnuAlarmSubscription"



      to the MEC_APP entity
   }
}
```

6.12 MEC030

6.12.1 Services (SRV)

6.12.1.1 V2X Information Service (V2X)

TP Id	"TP_MEC_MEC030_SRV_V2X_001_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu unicast when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuUnicastProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO_ECGI
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_unicast_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_ECGI
       from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.3.3.1
       the IUT sends a HTTP_RESPONSE containing
          status_code set to "200 OK"
          body containing
             uuUnicastProvisioningInfo containing
                 locationInfo indicating value LOCATION_INFO_ECGI
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_001_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu unicast when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuUnicastProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO_LATITUDE
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_unicast_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                uuUnicastProvisioningInfo containing
                 locationInfo indicating value LOCATION_INFO_LATITUDE
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_001_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuUnicastProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO_LATITUDE
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_unicast_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE_AND_ECGI // Wrong parameter:
Either ecgi or geoArea shall be present, but not both
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_001_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.3.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuUnicastProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO_ECGI
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.2 Type: UuUnicastProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_unicast_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_UNKNOWN_ECGI
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_002_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu MBMS when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuMbmsProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO_ECGI
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_mbms_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_ECGI
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                uuMbmsProvisioningInfo containing
                    locationInfo indicating value LOCATION_INFO_ECGI
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_002_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over Uu MBMS when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuMbmsProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_mbms_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                uuMbmsProvisioningInfo containing
                    locationInfo indicating value LOCATION_INFO_LATITUDE
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_002_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
 the MEC_APP having a uuMbmsProvisioningInfo containing
     locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_mbms_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE_AND_ECGI // Wrong parameter:
Either ecgi or geoArea shall be present, but not both
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_002_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.4.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a uuMbmsProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.3 Type: UuMbmsProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/uu_mbms_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_UNKNOWN_LATITUDE
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_003_OK_01"
Test Objective	Check that the IUT responds with a configured provisioning information over PC5 when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a pc5ProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/pc5_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_ECGI
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                pc5ProvisioningInfo containing
                    locationInfo indicating value LOCATION_INFO_ECGI
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_003_OK_02"
Test Objective	Check that the IUT responds with a configured provisioning information over PC5 when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a pc5ProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/pc5_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                pc5ProvisioningInfo set to any_value containing
                    locationInfo indicating value LOCATION_INFO_LATITUDE
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_003_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a pc5ProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/pc5_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_LATITUDE_AND_ECGI // Wrong parameter:
Either ecgi or geoArea shall be present, but not both
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_003_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.5.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a pc5ProvisioningInfo containing
    locationInfo indicating value LOCATION_INFO
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.4 Type: Pc5ProvisioningInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/queries/pc5_provisioning_info"
            query_parameters containing
                locationInfo indicating value LOCATION_INFO_UNKNOWN_ECGI
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.5.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_004_OK"
Test Objective	Check that the IUT processes properly a request to information of V2X Message Distribution servers
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having V2xMsgDistributionServerMqtt
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.5 Type: V2xMsgDistributionServerInfo
ensure that {
    when {
        the IUT sends a vPOST containing
            uri indicating value "vis/v2/provide_v2x_msg_distribution_server_info",
            body containing
                V2xMsgDistributionServerInfo containing
                    v2xMsgDistributionServer containing
                        infoProtocol containing
                            msgProtocol indicating value 0,
                    not infoConnection // MQTT v3.1.0
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.6.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                V2xMsgDistributionServerInfo containing
                    v2xMsgDistributionServer containing
                        infoProtocol containing
                            msgProtocol indicating value 0, // MQTT v3.1.0
                    infoConnection indicating value any_value
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_004_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having V2xMsgDistributionServerMqtt
}	

Expected Behaviour	

// MEC 030 Clause 6.2.5 Type: V2xMsgDistributionServerInfo
ensure that {
when {
the IUT sends a vPOST containing
uri indicating value "vis/v2/provide_v2x_msg_distribution_server_info",
body containing
V2xMsgDistributionServerInfo containing
v2xMsgDistributionServer containing
infoProtocol containing
msgProtocol indicating value 0,
infoConnection indicating value any_value // Wrong field value: Shall only be included in the response
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.7.3.4
the IUT sends a HTTP_RESPONSE containing
status_code set to "400 Bad Request"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC030_SRV_V2X_004_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.6.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT not havingV2xMsgDistributionServerMqtt
}	

Expected Behaviour	

// MEC 030 Clause 6.2.5 Type: V2xMsgDistributionServerInfo
ensure that {
when {
the IUT sends a vPOST containing
uri indicating value "vis/v2/provide_v2x_msg_distribution_server_info",
body containing
V2xMsgDistributionServerInfo containing
v2xMsgDistributionServer containing
infoProtocol containing
msgProtocol indicating value 0,
not infoConnection
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.7.3.4
the IUT sends a HTTP_RESPONSE containing
status_code set to "404 Not Found"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC030_SRV_V2X_005_OK"
Test Objective	Check that the IUT sends a request about QoS information for a vehicular UE when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.6 ETSI GS MEC 030 V3.1.1 [13], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a predictedQos
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.5 Type: PredictedQos
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/provide_predicted_qos"
            body containing
                predictedQos containing
                    predictionTarget indicating value 1, // SINGLE_UE_PREDICTION
                    locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY,
                    routes indicating value PREDICTED_ROUTES,
                    not qos
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.6.3.4
        the IUT sends a HTTP_RESPONSE containing
           status_code set to "200 OK"
           body containing
               predictedQos containing
                   locationGranularity indicating value any_value,
                   routes indicating value any_value,
                   qos indicating value any_value
        to the MEC_APP entity
     }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_005_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.6 ETSI GS MEC 030 V3.1.1 [13], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a predictedQos
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.5 Type: PredictedQos
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/provide_predicted_qos"
            body containing
                predictedQos containing
                    predictionTarget indicating value 1, // SINGLE_UE_PREDICTION
                    locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY,
                    routes indicating value PREDICTED_ROUTES,
                    qos indicating value any_value // Wrong field value: Shall only be included in
the response
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.6.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
```

```
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_005_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.6 ETSI GS MEC 030 V3.1.1 [13], clause 7.7.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_APP having a predictedQos
        }
```

Expected Behaviour

```
// MEC 030 Clause 6.2.5 Type: PredictedQos
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/provide_predicted_qos"
            body containing
                predictedQos containing
                    predictionTarget indicating value 1, // SINGLE_UE_PREDICTION
                    locationGranularity indicating value PREDICTED_LOCATION_GRANULARITY,
                    routes indicating value PREDICTED_UNKNOWN_ROUTES,
                    not qos // Wrong field value: Shall only be included in the response
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.6.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_006_OK"
Test Objective	Check that the IUT processes properly a request to publish a V2X message
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.10.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.8.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/publish_v2x_message"
            body containing
                V2xMsgPublication containing
                    msgPropertiesValues containing
                        stdOrganization indicating value "ETSI",
                        msgType indicating value 2,
                        msgProtocolVersion indicating value 3, // ETSI TS 102 894-2 [16]
                        locationInfo indicating value any_value, // ETSI ITS CAM, See ETSI TS 102
894-2[16]
                    msgRepresentationFormat indicating value "base64",
                    msgContent indicating value CAM_VALUE_BASE_64
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.7.3.4
       the IUT sends a HTTP_RESPONSE containing
           status_code set to "204 No Content"
       to the MEC_APP entity
```

```
   }
        }
```

TP Id	"TP_MEC_MEC030_SRV_V2X_006_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.10.1 ETSI GS MEC 030 V3.1.1 [13], clause 6.2.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.8.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
       }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/publish_v2x_message"
            body containing
                V2xMsgPublication containing
                    msgPropertiesValues containing
                        stdOrganization indicating value "UNKNOWN_ORGANIZATION",
                        msgType indicating value 2,
                        msgProtocolVersion indicating value 3, // ETSI TS 102 894-2 [16]
                        locationInfo indicating value any_value, // ETSI ITS CAM, See ETSI TS 102
894-2 [16]
                    msgRepresentationFormat indicating value "base64",
                    msgContent indicating value CAM_VALUE_BASE_64
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.7.3.4
       the IUT sends a HTTP_RESPONSE containing
           status_code set to "400 Bad Request"
       to the MEC_APP entity
   }
          }
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_01"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application - prov_chg_uu_uni
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "prov_chg_uu_uni"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                subscriptionLinkList containing
                    _links containing
                        self indicating value HREF_SUBSCRIPTION_1,
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_1,
                            subscriptionType indicating value "prov_chg_uu_uni"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_02"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application - prov_chg_uu_mbms
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "prov_chg_uu_mbms"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                subscriptionLinkList containing
                    _links containing
                        self indicating value HREF_SUBSCRIPTION_2,
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_2,
```

```
                            subscriptionType indicating value "prov_chg_uu_mbms"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_03"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application - prov_chg_pc5
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "prov_chg_pc5"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                subscriptionLinkList containing
                    _links containing
                        self indicating value HREF_SUBSCRIPTION_3,
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_3,
                            subscriptionType indicating value "prov_chg_pc5"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_04"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application - v2x_msg
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
```

```
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "v2x_msg"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                subscriptionLinkList containing
                    _links containing
                        self indicating value HREF_SUBSCRIPTION_4,
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_4,
                            subscriptionType indicating value "v2x_msg"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_05"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application - pred_qos
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
```

```
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "pred_qos"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                subscriptionLinkList containing
                    _links containing
                        self indicating value HREF_SUBSCRIPTION_5,
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_5,
                            subscriptionType indicating value "pred_qos"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_OK_05"
Test Objective	Check that the IUT responds with the requested list of subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.6 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
```

```
                subscriptionLinkList containing
                _links containing
                    self indicating value TODO,
                    subscriptionList containing
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_1,
                            subscriptionType indicating value "prov_chg_uu_uni",
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_2,
                            subscriptionType indicating value "prov_chg_uu_mbms",
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_3,
                            subscriptionType indicating value "prov_chg_pc5",
                        subscriptions containing
                            href indicating value HREF_SUBSCRIPTION_4,
                            subscriptionType indicating value "v2x_msg"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_007_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.6 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions",
            query_parameters containing
                subscriptionType indicating value "unknow_subscription" // Wrong parameter value
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_08_OK_01"
Test Objective	Check that the IUT responds with the requested to create a subscription - ProvChgUuUniSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions",
            body containing
                provChgUuUniSubscription containing
                    subscriptionType indicating value "ProvChgUuUniSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created" containing
            body containing
                provChgUuUniSubscription containing
                    subscriptionType indicating value "ProvChgUuUniSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA,
                    _links containing
                        self indicating value HREF_SUBSCRIPTION
       to the MEC_APP entity
       and the IUT sends a vPOST containing
           Uri set to CALLBACK_URL
           body containing
               provChgUuUniNotification containing
                   notificationType indicating value "ProvChgUuUniSubscription",
                   locationInfo indicating value any_value,
                   v2xApplicationServer indicating value any_value,
                   neighbourCellInfo indicating value any_value
       to the MEC_APP entity
       and the IUT doNotSendNotificationAfterTimerExpiry
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_08_OK_02"
Test Objective	Check that the IUT responds with the requested to create a subscription - ProvChgUuMbmsSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions",
            body containing
                provChgUuMbmsSubscription containing
                    subscriptionType indicating value "ProvChgUuMbmsSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
```

```
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created" containing
            body containing
                provChgUuMbmsSubscription containing
                    subscriptionType indicating value "ProvChgUuMbmsSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA,
                    _links containing
                        self indicating value HREF_SUBSCRIPTION
        to the MEC_APP entity
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                provChgUuMbmsNotification containing
                    notificationType indicating value "ProvChgUuMbmsNotification",
                    locationInfo indicating value any_value,
                    v2xServerUsd indicating value any_value,
                    neighbourCellInfo indicating value any_value
        to the MEC_APP entity
        and the IUT doNotSendNotificationAfterTimerExpiry
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_08_OK_03"
Test Objective	Check that the IUT responds with the requested to create a subscription - ProvChgPc5Subscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions",
            body containing
                provChgPc5Subscription containing
                    subscriptionType indicating value "ProvChgPc5Subscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created" containing
            body containing
                provChgPc5Subscription containing
                    subscriptionType indicating value "ProvChgPc5Subscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA,
                    _links containing
                        self indicating value HREF_SUBSCRIPTION
        to the MEC_APP entity
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                provChgPc5Notification containing
                    notificationType indicating value "ProvChgPc5Notification",
                    locationInfo indicating value any_value,
                    dstLayer2Id indicating value any_value,
                    neighbourCellInfo indicating value any_value
        to the MEC_APP entity
        and the IUT doNotSendNotificationAfterTimerExpiry
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_08_OK_04"
Test Objective	Check that the IUT responds with the requested to create a subscription - V2xMsgSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions",
            body containing
                v2xMsgSubscription containing
                    subscriptionType indicating value "V2xMsgSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created" containing
            body containing
                v2xMsgSubscription containing
                    subscriptionType indicating value "V2xMsgSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA,
                    _links containing
                        self indicating value HREF_SUBSCRIPTION
       to the MEC_APP entity
       and the IUT sends a vPOST containing
           Uri set to CALLBACK_URL
           body containing
               v2xMsgNotification containing
                   notificationType indicating value "V2xMsgNotification",
                   msgPropertiesValues indicating value any_value,
                   msgRepresentationFormat indicating value any_value,
                   msgContent indicating value any_value,
                   _links containing
                       self indicating value HREF_SUBSCRIPTION
       to the MEC_APP entity
       and the IUT doNotSendNotificationAfterTimerExpiry
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_08_OK_05"
Test Objective	Check that the IUT responds with the requested to create a subscription - PredQosSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions",
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
        the IUT sends a HTTP_RESPONSE containing
```

```
            status_code set to "201 Created" containing
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA,
                    _links containing
                        self indicating value HREF_SUBSCRIPTION
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_008_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.6 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions"
            body containing
                provChgUuMbmsSubscription containing
                    subscriptionType indicating value "InvalidProvChgUuMbmsSubscription", //
Invalid SubscriptionType
                    callbackReference indicating value CALLBACK_SUBSCRIPTION,
                    filterCriteria indicating value FILTER_CRITERIA
       from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.8.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_01"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application - ProvChgUuUniSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
```

```
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgUuUniSubscription containing
                subscriptionType indicating value "ProvChgUuUniSubscription",
                callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                filterCriteria indicating value FILTER_CRITERIA_1,
                _links indicating value HREF_SUBSCRIPTION_1
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_02"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application - ProvChgUuMbmsSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_2}"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgUuMbmsSubscription containing
                subscriptionType indicating value "ProvChgUuMbmsSubscription",
                callbackReference indicating value CALLBACK_SUBSCRIPTION_2,
```

```
                filterCriteria indicating value FILTER_CRITERIA_2,
                _links indicating value HREF_SUBSCRIPTION_2
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_03"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application - ProvChgPc5Subscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_3}"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgPc5Subscription containing
                subscriptionType indicating value "ProvChgPc5Subscription",
                callbackReference indicating value CALLBACK_SUBSCRIPTION_3,
                filterCriteria indicating value FILTER_CRITERIA_3,
                _links indicating value HREF_SUBSCRIPTION_3
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_04"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application - V2xMsgSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
```

```
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_4}"
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                v2xMsgSubscription containing
                subscriptionType indicating value "V2xMsgSubscription",
                callbackReference indicating value CALLBACK_SUBSCRIPTION_4,
                filterCriteria indicating value FILTER_CRITERIA_4,
                _links indicating value HREF_SUBSCRIPTION_4
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_OK_05"
Test Objective	Check that the IUT responds with the requested of subscription information when queried by a MEC Application - PredQosSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_5}"
        from the MEC_APP entity
```

```
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                predQosSubscription containing
                subscriptionType indicating value "PredQosSubscription",
                callbackReference indicating value CALLBACK_SUBSCRIPTION_5,
                filterCriteria indicating value FILTER_CRITERIA_5,
                _links indicating value HREF_SUBSCRIPTION_5
       to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_BR"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subs/{HREF_SUBSCRIPTION_1}" // Wrong URL
         from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_009_NF"
Test Objective	Check that the IUT responds with an error when a request with incorrect parameters is sent by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.1
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription" and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_2,
    subscriptionType indicating value "ProvChgUuMbmsSubscription" and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_3,
    subscriptionType indicating value "ProvChgPc5Subscription" and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_4,
    subscriptionType indicating value "V2xMsgSubscription" and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_5,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "vis/v2/subscription/{UNKNOWN_HREF_SUBSCRIPTION}" // subscription
id
         from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_01"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application - ProvChgUuUniSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
            body containing
                provChgUuUniSubscription containing
```

```
                    subscriptionType indicating value "ProvChgUuUniSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgUuUniSubscription containing
                    subscriptionType indicating value "ProvChgUuUniSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_02"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application - ProvChgUuMbmsSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuMbmsSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuMbmsSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
            body containing
                provChgUuMbmsSubscription containing
                    subscriptionType indicating value "ProvChgUuMbmsSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgUuMbmsSubscription containing
                    subscriptionType indicating value "ProvChgUuMbmsSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_03"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application - ProvChgPc5Subscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a provChgPc5Subscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgPc5Subscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
            body containing
                provChgPc5Subscription containing
                    subscriptionType indicating value "ProvChgPc5Subscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                provChgPc5Subscription containing
                    subscriptionType indicating value "ProvChgPc5Subscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_04"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application - V2xMsgSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "V2xMsgSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
            body containing
                v2xMsgSubscription containing
                    subscriptionType indicating value "V2xMsgSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        from the MEC_APP entity
    }
    then {
```

```
        // MEC 030 Clause 7.9.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                v2xMsgSubscription containing
                    subscriptionType indicating value "V2xMsgSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_OK_05"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application - PredQosSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.6 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPUT containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        from the MEC_APP entity
    }
    then {
        // MEC 030 Clause 7.9.3.2
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK" containing
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
                    filterCriteria indicating value NEW_FILTER_CRITERIA_1,
                    _links indicating value HREF_SUBSCRIPTION_1
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_010_BR"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "ProvChgUuUniSubscription"
        }
```

Expected Behaviour

ensure that {
when {
the IUT receives a vPUT containing
uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
body containing
provChgUuUniSubscription containing
subscriptionType indicating value "UnknownSubscription",
callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
filterCriteria indicating value NEW_FILTER_CRITERIA_1,
_links indicating value HREF_SUBSCRIPTION_1
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.9.3.2
the IUT sends a HTTP_RESPONSE containing
status_code set to "400 Bad Request"
to the MEC_APP entity
}
}

TP Id	"TP_MEC_MEC030_SRV_V2X_010_NF"
Test Objective	Check that the IUT responds with the requested of updating subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.3 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT not having a provChgUuUniSubscription
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vPUT containing
uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}",
body containing
provChgUuUniSubscription containing
subscriptionType indicating value "ProvChgUuUniSubscription",
callbackReference indicating value CALLBACK_SUBSCRIPTION_1,
filterCriteria indicating value NEW_FILTER_CRITERIA_1,
_links indicating value HREF_SUBSCRIPTION_1
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.9.3.2
the IUT sends a HTTP_RESPONSE containing
status_code set to "404 Not Found"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC030_SRV_V2X_011_OK_01"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application - ProvChgUuUniSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having a provChgUuUniSubscription containing
_links containing
self indicating value HREF_SUBSCRIPTION_1,
subscriptionType indicating value "ProvChgUuUniSubscription"
}	

Expected Behaviour

ensure that {
when {
the IUT receives a vDELETE containing
uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.9.3.2
the IUT sends a HTTP_RESPONSE containing
status_code set to "204 No Content"
to the MEC_APP entity
}
}

TP Id	"TP_MEC_MEC030_SRV_V2X_011_OK_02"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application - ProvChgUuMbmsSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.3 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having a provChgUuMbmsSubscription containing
_links containing
self indicating value HREF_SUBSCRIPTION_1,
subscriptionType indicating value "ProvChgUuMbmsSubscription"
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vDELETE containing
uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.9.3.2
the IUT sends a HTTP_RESPONSE containing
status_code set to "204 No Content"
to the MEC_APP entity
}
}	

TP Id	"TP_MEC_MEC030_SRV_V2X_011_OK_03"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application - ProvChgPc5Subscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.4 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT having a provChgPc5Subscription containing
_links containing
self indicating value HREF_SUBSCRIPTION_1,
subscriptionType indicating value "ProvChgPc5Subscription"
}	

Expected Behaviour	

ensure that {
when {
the IUT receives a vDELETE containing
uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
from the MEC_APP entity
}
then {
// MEC 030 Clause 7.9.3.2
the IUT sends a HTTP_RESPONSE containing	

```
          status_code set to "204 No Content"
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_011_OK_04"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application - V2xMsgSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a v2xMsgSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "V2xMsgSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.9.3.2
       the IUT sends a HTTP_RESPONSE containing
          status_code set to "204 No Content"
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_011_OK_05"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application - PredQosSubscription
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.5 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT having a predQosSubscription containing
    _links containing
        self indicating value HREF_SUBSCRIPTION_1,
    subscriptionType indicating value "PredQosSubscription"
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION_1}"
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.9.3.2
       the IUT sends a HTTP_RESPONSE containing
          status_code set to "204 No Content"
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_011_NF"
Test Objective	Check that the IUT responds with the requested of removing subscription when queried by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.6.4 ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2 ETSI GS MEC 030 V3.1.1 [13], clause 7.10.3.5
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "vis/v2/subscriptions/{HREF_SUBSCRIPTION}"
        from the MEC_APP entity
    }
    then {
       // MEC 030 Clause 7.9.3.2
       the IUT sends a HTTP_RESPONSE containing
          status_code set to "404 Not Found"
       to the MEC_APP entity
   }
}
```

TP Id	"TP_MEC_MEC030_SRV_UETESTNOT_012_OK"
Test Objective	Check that the IUT provides a test notification when requested by a MEC Application
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 6.3.2
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "vis/v2/subscriptions"
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_URL,
                    requestTestNotification indicating value true,
                    address indicating value ACR_SOME_IP
        from the MEC_APP entity
    }
    then {
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created"
            body containing
                predQosSubscription containing
                    subscriptionType indicating value "PredQosSubscription",
                    callbackReference indicating value CALLBACK_URL,
                    requestTestNotification indicating value true, // FIXME: To be confirmed
                    _links indicating value LINKS,
                    address indicating value ACR_SOME_IP
        to the MEC_APP entity
        and the IUT sends a vPOST containing
            Uri set to CALLBACK_URL
            body containing
                testNotification containing
                    notificationType indicating value "TestNotification",
                    _links indicating value LINKS
        to the MEC_APP entity
    }
}
```

TP Id	"TP_MEC_MEC030_SRV_V2X_013_OK"
Test Objective	Check that the IUT sends a notification about the provisioning information changes for V2X communication over Uu unicast
Reference	ETSI GS MEC 030 V3.1.1 [13], clause 5.5.7 ETSI GS MEC 030 V3.1.1 [13], clause 7.9.3.4
Configuration	Config_MEC_1
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_APP having a ProvChgUuUniSubscription containing
   callbackReference indicating value CALLBACK_UU_UNI_URI
        }
```

Expected Behaviour

```
ensure that {
    when {
        the IUT isTriggeredToSend a ProvChgUuUniNotification
    }
    then {
        the IUT generates a provChgUuUniNotification containing
            notificationType indicating value "ProvChgUuUniNotification",
            locationInfo indicating value LOCATION_INFO
    }
}
```

6.13 MEC033

6.13.1 Services (SRV)

6.13.1.1 Device provisioning (IOTDEV)

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_001_OK_01"
Test Objective	Check that the IUT responds with the list of registered IoT devices when queried by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
   SUPI indicating value SUPI_DEVICE,
   IMSI indicating value IMSI_DEVICE,
   enabled set to false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_devices"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            arrayOfDeviceInfo containing
                DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE,
                   enabled set to false
```

```
      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_001_OK_02"
Test Objective	Check that the IUT responds with the list of registered IoT devices when queried using a filter by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled set to false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_devices?filter=eq,enabled,false"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            arrayOfDeviceInfo containing
                DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE,
                   enabled set to false




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_001_OK_03"
Test Objective	Check that the IUT responds with the list of registered IoT devices when queried by a Service Consumer filtering one field
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled set to false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_devices?fields=deviceId"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            arrayOfDeviceInfo containing
                DeviceInfo containing
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_001_OK_04"
Test Objective	Check that the IUT responds with the list of registered IoT devices when queried by a Service Consumer filtering the number of fields and applying a filter to a specific field
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled set to false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value
"/iots/v1/registered_devices?fields=deviceId&filter=eq,enabled,false"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK"
         body containing
            arrayOfDeviceInfo containing
                DeviceInfo containing
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_002_OK"
Test Objective	Check that the IUT registers the information of an IoT device when requested by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/iots/v1/registered_devices"
         body containing
            DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE



      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location indicating value LOCATION,
         body containing
            DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE,
                   enabled indicating value false



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_002_BR"
Test Objective	Check that the IUT returns an error when Service Consumer request to register an IoT device with incorrect parameters
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.3.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state
      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/iots/v1/registered_devices"
         body containing
            DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE,
                   enabled indicating value false



      from the MEC_CONSUMER entity
   }
```

```
   then {
      // MEC 033 Clause 7.3.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request",
         body containing
            ProblemDetails containing
                        details indicating value ERROR_DETAILS



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_003_OK"
Test Objective	Check that the IUT returns the IoT device information when requested by Service Consumer specifying the device identifier
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK",
         body containing
            DeviceInfo containing
                   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                   deviceId set to registeredDeviceId,
                   IMSI indicating value IMSI_DEVICE,
                   SUPI indicating value SUPI_DEVICE,
                   enabled indicating value false



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_003_NF"
Test Objective	Check that the IUT returns error when Service Consumer request to retrieve a not registered IoT device
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false
```

```
      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_004_OK"
Test Objective	Check that the IUT updates the information about a registered IoT device when requested by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false

         }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"
             body containing
                DeviceInfo containing //Updating TrafficRuleDescriptor and the
requestedIoTPlatformId associated with
                       deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                       deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                       IMSI indicating value IMSI_DEVICE,
                       SUPI indicating value SUPI_DEVICE,
                       requestedIotPlatformId indicating value REQ_IOT_PLATFORM,
                       requestedMecTrafficRule containing
                           TrafficRuleDescriptor containing
                               trafficRuleId indicating value TRAFFIC_RULE_ID,
                               filterType set to "FLOW",
                               action set to "FORWARD_AS_IS",
                               trafficFilter containing
                                   qCI indicating value QCI_VALUE




      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK",
         body containing
                DeviceInfo containing
                       deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                       deviceId indicating value HUMAN_READABLE_IDENTIFIER,
                       IMSI indicating value IMSI_DEVICE,
```

```
                        SUPI indicating value SUPI_DEVICE,
                        requestedIotPlatformId indicating value REQ_IOT_PLATFORM,
                        requestedMecTrafficRule containing
                            TrafficRuleDescriptor containing
                                trafficRuleId indicating value TRAFFIC_RULE_ID,
                                filterType set to "FLOW",
                                action set to "FORWARD_AS_IS",
                                enabled set to TRUE
                                trafficFilter containing
                                    qCI indicating value QCI_VALUE




      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_004_NF"
Test Objective	Check that the IUT returns an error when a Service Consumer requests to update a not registered IoT device
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false

          }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"
             body containing
                DeviceInfo containing
                       deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                       deviceId set to registeredDeviceId,
                       IMSI indicating value IMSI_DEVICE,
                       SUPI indicating value SUPI_DEVICE,
                       requestedIotPlatformId indicating value REQ_IOT_PLATFORM,
                       requestedMecTrafficRule containing
                           TrafficRuleDescriptor containing
                               trafficRuleId indicating value TRAFFIC_RULE_ID,
                               filterType set to "FLOW",
                               action set to "FORWARD_AS_IS",
                               trafficFilter containing
                                   qCI indicating value QCI_VALUE









      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_004_BR"
Test Objective	Check that the IUT returns an error when a Service Consumer requests to update an existing IoT device with incorrect parameters
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false

         }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"
             body containing
                DeviceInfo containing
                       deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
                       deviceId set to registeredDeviceId,
                       IMSI indicating value IMSI_DEVICE,
                       SUPI indicating value SUPI_DEVICE,
                       enabled set to TRUE,                        requestedMecTrafficRule
containing
                           TrafficRuleDescriptor containing
                               trafficRuleId indicating value TRAFFIC_RULE_ID,
                               filterType set to "FLOW",
                               action set to "FORWARD_AS_IS",
                               trafficFilter containing
                                   qCI indicating value QCI_VALUE









      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request",
         body containing
                ProblemDetails containing
                       details indicating value ERROR_DETAILS



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_005_OK"
Test Objective	Check that the IUT deregisters an IoT device information when requested by a Service Consumer specifying the IoT registered device identifier
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.5
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId set to registeredDeviceId,
   IMSI indicating value IMSI_DEVICE,
   SUPI indicating value SUPI_DEVICE,
   enabled indicating value false
```

```
      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_IOTS_IOTDEV_005_NF"
Test Objective	Check that the IUT returns an error when a Service Consumer requests to deregisters an IoT device using incorrect parameters
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.4.3.5
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a DeviceInfo containing
   deviceAuthenticationInfo indicating value SOME_CUSTOM_VALUES,
   deviceId indicating value registeredDeviceId,
   SUPI indicating value SUPI_DEVICE,
   IMSI indicating value IMSI_DEVICE,
   enabled indicating value false

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.2 Type: DeviceInfo
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/iots/v1/registered_devices/{registeredDeviceId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.4.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not found"

      to the MEC_CONSUMER entity
   }
}
```

6.13.1.2 IoT platform discovery (IOTPLAT)

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_001_OK"
Test Objective	Check that the IUT responds with the list of registered IoT platforms when queried by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a IoTPlatformInfo containing
    iotPlatformId indicating value IOT_PLATFORM_ID,
    userTransportInfo indicating value USER_TRANSPORT_INFO,
    enabled indicating value BOOLEAN_VALUE
```

```
        }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
    when {
        the IUT receives a vGET containing
        uri indicating value "/iots/v1/registered_iot_platforms"

        from the MEC_CONSUMER entity
    }
    then {
       // MEC 033 Clause 7.5.3.1
       the IUT sends a HTTP_RESPONSE containing
          status_code set to "200 OK"
          body containing
             arrayOfIoTPlatformInfo containing
                 IoTPlatformInfo containing
                    iotPlatformId indicating value IOT_PLATFORM_ID,
                    userTransportInfo indicating value USER_TRANSPORT_INFO,
                    enabled indicating value BOOLEAN_VALUE




       to the MEC_CONSUMER entity
    }
 }
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_002_OK"
Test Objective	Check that the IUT registers the information of a new IoT platform when requested by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
        }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/iots/v1/registered_iot_platforms"
         body containing
            IotPlatformInfo containing
                   iotPlatformId indicating value IOT_PLATFORM_ID,
                   userTransportInfo indicating value USER_TRANSPORT_INFO,
                   enabled indicating value BOOLEAN_VALUE



      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "201 Created",
         Location indicating value LOCATION,
         body containing
            IotPlatformInfo containing
                   iotPlatformId indicating value IOT_PLATFORM_ID,
                   userTransportInfo indicating value USER_TRANSPORT_INFO,
                   enabled indicating value BOOLEAN_VALUE



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_002_BR"
Test Objective	Check that the IUT returns an error when Service Consumer request to register an IoT device with incorrect parameters
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.4
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state
       }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vPOST containing
         uri indicating value "/iots/v1/registered_iot_platforms"
         body containing
            IotPlatformInfo containing //userTransportInfo is a mandatory attribute of
IotPlatformInfo, below not provided.
                  iotPlatformId indicating value IOT_PLATFORM_ID,
                  enabled indicating value BOOLEAN_VALUE



      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.3.3.4
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "400 Bad Request"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_003_OK"
Test Objective	Check that the IUT returns the IoT platform information when requested by Service Consumer specifying the IoT platform identifier
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a IotPlatformInfo containing
   iotPlatformId set to registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK",
         body containing
            IotPlatformInfo containing
               iotPlatformId indicating value IOT_PLATFORM_ID,
               userTransportInfo indicating value USER_TRANSPORT_INFO,
               enabled indicating value BOOLEAN_VALUE



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_003_NF"
Test Objective	Check that the IUT returns error when Service Consumer request to retrieve a not registered IoT platform
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.1
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a IotPlatformInfo containing
   iotPlatformId  set to  registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vGET containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.5.3.1
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_004_OK"
Test Objective	Check that the IUT updates the information about a registered IoT platform when requested by a Service Consumer
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a IotPlatformInfo containing
   iotPlatformId set to registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

         }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"
             body containing
                IotPlatformInfo containing //Updating TrafficRuleDescriptor and the
requestedIoTPlatformId associated with
                      iotPlatformId set to registeredIotPlatformId,
                      userTranspostInfo indicating value USER_TRANSPORT_INFO,
                      enabled indicating value BOOLEAN_VALUE



      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.5.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "200 OK",
         body containing
                IotPlatformInfo containing
```

```
                        iotPlatformId set to registeredIotPlatformId,
                        userTranspostInfo indicating value USER_TRANSPORT_INFO,
                        enabled indicating value BOOLEAN_VALUE



      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_004_NF"
Test Objective	Check that the IUT returns an error when a Service Consumer requests to update a not registered IoT platform
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.2
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a IotPlatformInfo containing
   iotPlatformId  set to  registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

         }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vPUT containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"
             body containing
                IotPlatformInfo containing
                        iotPlatformId set to registeredIotPlatformId,
                        userTranspostInfo indicating value USER_TRANSPORT_INFO,
                        enabled indicating value BOOLEAN_VALUE



      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.5.3.2
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not Found"
      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_005_OK"
Test Objective	Check that the IUT deregisters an IoT platform information when requested by a Service Consumer specifying the registered IoT platform identifier
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.5
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER having a IotPlatformInfo containing
   iotPlatformId set to registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

         }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"

      from the MEC_CONSUMER entity
```

```
   }
   then {
      // MEC 033 Clause 7.5.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "204 No Content"

      to the MEC_CONSUMER entity
   }
}
```

TP Id	"TP_MEC_MEC033_MEX_IOTS_IOTPLAT_005_NF"
Test Objective	Check that the IUT returns an error when a Service Consumer request to deregister an IoT platform using incorrect parameters
Reference	ETSI GS MEC 033 V3.1.1 [14], clause 7.5.3.5
Configuration	Config_MEC_6
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the MEC_PROVIDER not having a IotPlatformInfo containing
   iotPlatformId set to registeredIotPlatformId,
   userTransportInfo indicating value USER_TRANSPORT_INFO,
   enabled indicating value BOOLEAN_VALUE

      }
```

Expected Behaviour

```
// MEC 033 V3.1.1 Clause 6.2.3 Type: IotPlatformInfo
ensure that {
   when {
      the IUT receives a vDELETE containing
         uri indicating value "/iots/v1/registered_iot_platforms/{registeredIotPlatformId}"

      from the MEC_CONSUMER entity
   }
   then {
      // MEC 033 Clause 7.5.3.5
      the IUT sends a HTTP_RESPONSE containing
         status_code set to "404 Not found"

      to the MEC_CONSUMER entity
   }
}
```

6.14 MEC040

6.14.1 Services (SRV)

6.14.1.1 MEC Federation (MEF)

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK"
Test Objective	Check that the IUT responds with a list of all available systemInfo when requested by a MEC Orchestrator - No query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED are_aware_of_eachother and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

      }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
```

```
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info"

        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo0 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_2,
                        systemName indicating value SYSTEM_NAME_2,
                        systemProvider indicating value SYSTEM_PROVIDER_2
                    ,
                    systemInfo2 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_02"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - SystemId query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemId indicating value SYSTEM_ID_1


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
```

```
        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_03"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Multiple SystemId query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemId indicating value SYSTEM_ID_1,
                systemId indicating value SYSTEM_ID_3


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_04"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Empty SystemId query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemId indicating value empty


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_2,
                        systemName indicating value SYSTEM_NAME_2,
                        systemProvider indicating value SYSTEM_PROVIDER_2
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_05"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - SystemName query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_NAME_1,
   systemInfoN indicating value SYSTEM_NAME_2,
   systemInfoN indicating value SYSTEM_NAME_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemName indicating value SYSTEM_NAME_1


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
```

```
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_06"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Multiple SystemName query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_NAME_1,
   systemInfoN indicating value SYSTEM_NAME_2,
   systemInfoN indicating value SYSTEM_NAME_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemName indicating value SYSTEM_NAME_1,
                systemName indicating value SYSTEM_NAME_3


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_07"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Empty SystemName query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_NAME_1,
   systemInfoN indicating value SYSTEM_NAME_2,
   systemInfoN indicating value SYSTEM_NAME_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemName indicating value empty


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_2,
                        systemName indicating value SYSTEM_NAME_2,
                        systemProvider indicating value SYSTEM_PROVIDER_2
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_08"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - systemProvider query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_PROVIDER_1,
   systemInfoN indicating value SYSTEM_PROVIDER_2,
   systemInfoN indicating value SYSTEM_PROVIDER_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemProvider indicating value SYSTEM_PROVIDER_1


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_09"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Multiple systemProvider query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_PROVIDER_1,
   systemInfoN indicating value SYSTEM_PROVIDER_2,
   systemInfoN indicating value SYSTEM_PROVIDER_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemProvider indicating value SYSTEM_PROVIDER_1,
                systemProvider indicating value SYSTEM_PROVIDER_3


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3
```

```
        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_10"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Empty systemProvider query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_PROVIDER_1,
   systemInfoN indicating value SYSTEM_PROVIDER_2,
   systemInfoN indicating value SYSTEM_PROVIDER_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemProvider indicating value empty


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                        systemName indicating value SYSTEM_NAME_1,
                        systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_2,
                        systemName indicating value SYSTEM_NAME_2,
                        systemProvider indicating value SYSTEM_PROVIDER_2
                    ,
                    systemInfo3 containing
                        systemId indicating value SYSTEM_ID_3,
                        systemName indicating value SYSTEM_NAME_3,
                        systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_OK_11"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator - Multiple query parameters
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
```

```
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo1 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3,
   systemInfoN indicating value SYSTEM_ID_4

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemId indicating value SYSTEM_ID_1,
                systemName indicating value SYSTEM_NAME_3


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfoList containing
                    systemInfo1 containing
                        systemId indicating value SYSTEM_ID_1,
                            systemName indicating value SYSTEM_NAME_1,
                            systemProvider indicating value SYSTEM_PROVIDER_1
                    ,
                    systemInfo3 containing
                        systemId indicating value any_value,
                            systemName indicating value SYSTEM_NAME_3,
                            systemProvider indicating value SYSTEM_PROVIDER_3




        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_NF_01"
Test Objective	Check that the IUT responds with an error when selection is not applicable - SystemId
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo1 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemId indicating value SYSTEM_ID_4


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
```

```
        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_NF_02"
Test Objective	Check that the IUT responds with an error when selection is not applicable - SystemName
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_NAME_1,
   systemInfo1 indicating value SYSTEM_NAME_2,
   systemInfo3 indicating value SYSTEM_NAME_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                systemName indicating value SYSTEM_NAME_4


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_NF_03"
Test Objective	Check that the IUT responds with an error when selection is not applicable - SystemProvider
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_PROVIDER_1,
   systemInfo1 indicating value SYSTEM_PROVIDER_2,
   systemInfo3 indicating value SYSTEM_PROVIDER_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            query_parameters containing
                SystemProvider indicating value SYSTEM_PROVIDER_4


        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"
```

```
        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_001_BR"
Test Objective	Check that the IUT responds with an error when request is malformed
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.1, clause 5.2.2.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v10/fed_resources/system_info",
            query_parameters containing
                system indicating value any_value // Wrong query parameter: system instead of
systemId
        ;;

        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_002_OK"
Test Objective	Check that the IUT creates a new systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.4, clause 5.2.2.1.1
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED not having a systemInfoList containing
   systemInfo2 indicating value SYSTEM_ID_2

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            body containing
                systemInfo containing
                    systemId indicating value omit, // Shall be absent in POST request
                    systemName indicating value SYSTEM_NAME_1,
                    systemProvider indicating value SYSTEM_PROV_1



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "201 Created",
            body containing
```

```
                systemInfo containing
                    systemId indicating value SYSTEM_ID_1,
                    systemName indicating value SYSTEM_NAME_1,
                    systemProvider indicating value SYSTEM_PROV_1



        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_002_BR"
Test Objective	Check that the IUT responds with an error on creating an existing systemInfo
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.4, clause 5.2.2.1.1
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED not having a systemInfoList containing
   systemInfo2 indicating value SYSTEM_ID_2

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_2, // Shall be absent in POST request
                    systemName indicating value SYSTEM_NAME_2,
                    systemProvider indicating value SYSTEM_PROV_2



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_002_BR_02"
Test Objective	Check that the IUT responds with an error on providing inconsistent data
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.3.3.4, clause 5.2.2.1.1
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo2 indicating value SYSTEM_ID_2

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPOST containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_1, // Shall be omit in the request
                    systemName indicating value SYSTEM_NAME_1,
                    systemProvider indicating value SYSTEM_PROV_1
```

```
        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.3.3.4
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_003_OK"
Test Objective	Check that the IUT responds with a selection of all available systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.1, clause 5.2.2.1.1
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo3 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vGET containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_2}"

        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.1
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_2,
                    systemName indicating value SYSTEM_NAME_2,
                    systemProvider indicating value SYSTEM_PROVIDER_2



        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_003_NF"
Test Objective	Check that the IUT responds with an error when it receives a request for returning a systemInfo referred with a wrong systemId
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.1, clause 5.2.2.1.1 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo1 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

// MEC 040 Clause 6.2.2 Type: SystemInfo
ensure that {
when {
the IUT receives a vGET containing
uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_4}"
 	
from the MEC_FED entity
}
then {
// MEC 040 Clause 7.4.3.1
the IUT sends a HTTP_RESPONSE containing
status_code set to "404 Not Found"
 	
to the MEC_FED entity
}
}

TP Id	"TP_MEC_MEC040_SRV_MEF_003_BR"
Test Objective	Check that the IUT responds with an error when it receives a request with an inconsistent URI
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.1, clause 5.2.2.1.1
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
systemInfo1 indicating value SYSTEM_ID_1,
systemInfo2 indicating value SYSTEM_ID_2,
systemInfo1 indicating value SYSTEM_ID_3
 	
}	

Expected Behaviour	

// MEC 040 Clause 6.2.2 Type: SystemInfo
ensure that {
when {
the IUT receives a vGET containing
uri indicating value "fed_enablement/v10/fed_resources/system_info/{SYSTEM_ID_2}" //
Inconsistent URI
 	
from the MEC_FED entity
}
then {
// MEC 040 Clause 7.4.3.1
the IUT sends a HTTP_RESPONSE containing
status_code set to "400 Bad Request"
 	
to the MEC_FED entity
}
}	

TP Id	"TP_MEC_MEC040_SRV_MEF_004_OK_01"
Test Objective	Check that the IUT updates the systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.3, clause 5.2.2.1.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
systemInfo1 indicating value SYSTEM_ID_1,
systemInfo2 indicating value SYSTEM_ID_2,
systemInfo1 indicating value SYSTEM_ID_3
 	
}	

Expected Behaviour	

// MEC 040 Clause 6.2.2 Type: SystemInfo
ensure that {
when {
the IUT receives a vPATCH containing	

```
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_1}"
            body containing
                SystemInfoUpdate containing
                    systemName indicating value omit,
                    endpoint indicating value SYSTEM_NEW_ENDPOINT_1



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_1,
                    systemName indicating value SYSTEM_NAME_1,
                    systemProvider indicating value SYSTEM_NEW_ENDPOINT_1



        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_004_OK_02"
Test Objective	Check that the IUT updates the systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.3, clause 5.2.2.1.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo1 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_1}"
            body containing
                SystemInfoUpdate containing
                    systemName indicating value SYSTEM_NEW_NAME_1,
                    endpoint indicating value omit



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_1,
                    systemName indicating value SYSTEM_NEW_NAME_1,
                    systemProvider indicating value SYSTEM_ENDPOINT_1



        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_004_OK_03"
Test Objective	Check that the IUT updates the systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.3, clause 5.2.2.1.2 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1,
   systemInfo2 indicating value SYSTEM_ID_2,
   systemInfo1 indicating value SYSTEM_ID_3

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_1}"
            body containing
                SystemInfoUpdate containing
                    systemName indicating value SYSTEM_NEW_NAME_1,
                    endpoint indicating value SYSTEM_NEW_ENDPOINT_1



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK",
            body containing
                systemInfo containing
                    systemId indicating value SYSTEM_ID_1,
                    systemName indicating value SYSTEM_NEW_NAME_1,
                    systemProvider indicating value SYSTEM_NEW_ENDPOINT_1



        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_004_NF"
Test Objective	Check that the IUT responds with an error when requested to update an unknown systemInfo
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.3, clause 5.2.2.1.2 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_2}"
            body containing
                SystemInfoUpdate containing
                    systemName indicating value omit,
                    endpoint indicating value SYSTEM_NEW_ENDPOINT_1
```

```
        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_004_BR"
Test Objective	Check that the IUT responds with an error when requested to update with no data provided
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.3, clause 5.2.2.1.2
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vPATCH containing
            uri indicating value "fed_enablement/v10/fed_resources/system_info/{SYSTEM_ID_1}"
            body containing
                SystemInfoUpdate containing // At least one attribute shall exist
                    systemName indicating value omit,
                    endpoint indicating value omit



        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.3
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "400 Bad Request"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_005_OK"
Test Objective	Check that the IUT deletes the systemInfo when requested by a MEC Orchestrator
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.5, clause 5.2.2.1.3
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES
Initial Conditions	

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_1}"
            body containing
                SystemInfoUpdate containing
                    systemName indicating value SYSTEM_NAME_1,
                    endpoint indicating value NEW_ENDPOINT_1
```

```
        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "204 No Content"

        to the MEC_FED entity
    }
}
```

TP Id	"TP_MEC_MEC040_SRV_MEF_005_NF"
Test Objective	Check that the IUT responds with an error when requested to delete an unknown systemInfo
Reference	ETSI GS MEC 040 V3.1.1 [15], clause 7.4.3.5, clause 5.2.2.1.3 https://forge.etsi.org/rep/mec/gs040-fed-enablement-api
Configuration	Config_MEC_7
PICS Selection	PIC_MEC_PLAT and PIC_SERVICES

Initial Conditions

```
with {
the IUT being_in idle_state and
the IUT is_registered to the MEC_FED and
the MEC_FED having a systemInfoList containing
   systemInfo1 indicating value SYSTEM_ID_1

        }
```

Expected Behaviour

```
// MEC 040 Clause 6.2.2   Type: SystemInfo
ensure that {
    when {
        the IUT receives a vDELETE containing
            uri indicating value "fed_enablement/v1/fed_resources/system_info/{SYSTEM_ID_UNKNOWN}"

        from the MEC_FED entity
    }
    then {
        // MEC 040 Clause 7.4.3.5
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "404 Not Found"

        to the MEC_FED entity
    }
}
```

Annex A (informative): Information on the tools to generate the present document

The Test Purposes have been first developed in textual syntax of TDL-TO, following recommendation and process reported in ETSI GR MEC-DEC 025 [i.8].

The sources are available at https://forge.etsi.org/rep/mec/gs032p2-test-purposes/-/tree/3.2.1 via web access or using the Git versioning system.

The reader may make use of the IDE available as part of the TDL Open Source project (TOP), freely available at https://top.etsi.org.

Annex B (informative): Change history

Date	Version	Information about changes
June 2019	0.0.1	First proposal.
August 2019	0.0.2	Included changes approved in the following contributions: - MECDECODE(19)000030 - MECDECODE(19)000033 - MECDECODE(19)000034 - MECDECODE(19)000035 - MECDECODE(19)000036 - MECDECODE(19)000037 - MECDECODE(19)000038r1 - MECDECODE(19)000039 - MECDECODE(19)000040 - MECDECODE(19)000041 - MECDECODE(19)000042 - MECDECODE(19)000043 - MECDECODE(19)000044 - MECDECODE(19)000045 - MECDECODE(19)000047 - MECDECODE(19)000048 - MECDECODE(19)000049 - MECDECODE(19)000050 - MECDECODE(19)000051 - MECDECODE(19)000052 - MECDECODE(19)000053 - MECDECODE(19)000054 - MECDECODE(19)000055 - MECDECODE(19)000056 - MECDECODE(19)000057 - MECDECODE(19)000058 - MECDECODE(19)000059 - MECDECODE(19)000060 - MECDECODE(19)000061
August 2019	0.0.3	Incorporated changes proposed by editHelp
October 2020	0.0.4	Included changes approved in the following contributions: - MECDECODE(20)000050 - MECDECODE(20)000051 - MECDECODE(20)000052r1 - MECDECODE(20)000054 - MECDECODE(20)000055
May 2021	3.0.1	Updated TPs definitions according to tag v3.0.1 on the source repository and updated to the new TSS.
July 2021	3.0.2	Updated TPs definitions according to tag v3.0.2 on the source repository and updated to the new TSS: - MECDECODE(21)000060r2
February 2022	3.0.4	Updated MEC-010-2 V2.2.1 TPs definitions and updated to the new TSS: - MECDECODE(22)000004

History

Document history		
V2.1.1	December 2020	Publication
V3.1.1	April 2022	Publication
V3.2.1	November 2024	Publication