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Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Telecommunication management;
Configuration Management (CM);
Transport Network (TN) Network Resource Model (NRM)
Integration Reference Point (IRP):
Common Management Information Protocol (CMIP)
Solution Set (SS)
(3GPP TS 32.714 version 6.0.0 Release 6)**



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Foreword

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Introduction

The present document is part a TS-family covering the 3rd Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management; Configuration Management (CM); as identified below:

TS 32.711	"Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements";
TS 32.712	"Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)";
TS 32.713	"Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)";
TS 32.714	"Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)".
TS 32.715	"Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition

The present document is part of a TS-family which describe the requirements and information model necessary for the Telecommunication Management (TM) of 3G systems. The TM principles and TM architecture are specified in 3GPP TS 32.101 [1] and 3GPP TS 32.102 [2].

1 Scope

The purpose of this Transport Network (TN) interface Network Resource Model IRP: CMIP Solution Set is to define the mapping of the IRP information model (see 3GPP TS 32.712 [4]) to the protocol specific details necessary for implementation of this IRP in a Q3 environment.

This Solution Set specification is related to 3GPP TS 32.712 V6.0.X

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 32.101: "Telecommunication management; Principles and high level requirements".
- [2] 3GPP TS 32.102: "Telecommunication management; Architecture".
- [3] 3GPP TS 32.600: "Telecommunication management; Configuration Management (CM); Concept and high-level requirements".
- [4] 3GPP TS 32.712: "Telecommunication management; Configuration Management (CM); Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)".
- [5] 3GPP TS 32.300: "Telecommunication management; Configuration Management (CM); Name convention for Managed Objects".
- [6] 3GPP TS 32.304: "Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol Solution Set (SS)".

3 Definitions and abbreviations

3.1 Definitions

For terms and definitions please refer to 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], 3GPP TS 32.600 [3] and 3GPP TS 32.712 [4].

3.2 Abbreviations

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

ASN.1	Abstract Syntax Notation 1
CMIP	Common Management Information Protocol
DN	Distinguished Name
GDMO	Guidelines for the Definition of Managed Objects
IS	Information Service

IOC	Information Object Class
IRP	Integration Reference Point
MO	Managed Object
MOC	Managed Object Class
NRM	Network Resource Model
SS	Solution Set

4 Architectural features

The overall architectural feature of Transport Network Resources IRP is specified in 3GPP TS 32.712 [4]. This clause specifies features that are specific to the CMIP SS.

4.1 Notifications

Notifications are sent according to the Notification IRP: CMIP SS (see 3GPP TS 32.304 [6]).

5 Mapping

5.1 Transport NRM Information Object Class (IOC) mapping

For the Transport Network NRM CMIP Solution Set the Information Object Classes (IOC) and the Interfaces defined in 3GPP TS 32.712 [7] are mapped onto Managed Object Classes (MOC) as given in Table 1. These MOC include all the Attributes, Actions and Notifications necessary to model performance management as described in 3GPP TS 32.712 [7].

Table 5.1: Mapping of Information Object Classes

IS IOC	CMIP SS MOC
TransportNetworkInterface	transportNetworkInterface
ATMChannelTerminationPoint	aTMChannelTerminationPoint
ATMPATHTerminationPoint	aTMPATHTerminationPoint

5.2 Mapping of IOC Attributes

5.2.1 General

The IS parameter name '*managedObjectInstance*' is mapped into DN.

Attributes modelling associations as defined in the NRM (here also called 'reference attributes') are mapped onto attributes in this SS. The names of the reference attributes in the NRM are mapped to the corresponding attribute names in the MOC. When the cardinality for an association is 0..1 or 1..1 the datatype for the reference attribute is defined as an MOfReference. The value of an MOfReference contains the distinguished name of the associated MO. When the cardinality for an association allows more than one referred MO, the reference attribute will be of type MOfReferenceSet, which contains a sequence of MOfReferences.

5.2.2 IOC TransportNetworkInterface

Table 5.2: Attribute Mapping of the IOC TransportNetworkInterface

IS Attribute	CMIP SS Attributes	Support Qualifier	Read Qualifier	Write Qualifier
transportNetworkInterfaceId	transportNetworkInterfaceId	M	M	-
userLabel	userLabel	M	M	M
transportNetworkType	transportNetworkType	M	M	-

5.2.3 IOC ATMChannelTerminationPoint

Table 5.3: Attribute Mapping of IOC ATMChannelTerminationPoint

IS Attribute	CMIP SS Attributes	Support Qualifier	Read Qualifier	Write Qualifier
aTMChannelTerminationPointId	aTMChannelTerminationPointId	M	M	--
usageChannel	usageChannel	M	M	--
virtualPathId	virtualPathId	M	M	O
virtualChannelId	virtualChannelId	M	M	O
physicalPortId	physicalPortId	M	M	O
physicalLinkType	physicalLinkType	M	M	O
serviceCategoryIn	serviceCategoryIn	M	M	O
serviceCategoryEg	serviceCategoryEg	M	M	O
usedAAL	usedAAL	M	M	O
peakCellRateIn	peakCellRateIn	M	M	O
peakCellRateEg	peakCellRateEg	M	M	O
sustainableCellRateIn	sustainableCellRateIn	O	M	O
sustainableCellRateEg	sustainableCellRateEg	O	M	O
maximumBurstSizeIn	maximumBurstSizeIn	M	M	O
maximumBurstSizeEg	maximumBurstSizeEg	M	M	O
minimumDesiredCellRateIn	minimumDesiredCellRateIn	O	M	O
minimumDesiredCellRateEg	minimumDesiredCellRateEg	O	M	O
minimumCellRateIn	minimumCellRateIn	O	M	O
minimumCellRateEg	minimumCellRateEg	O	M	O
aTMChannelTerminationPoint-ATMPATHTerminationPoint	aTMChannelTerminationPoint-ATMPATHTerminationPoint	M	M	--
aTMChannelTerminationPoint-IubLink	aTMChannelTerminationPoint-IubLink	M	M	--

5.2.4 IOC ATMPATHTerminationPoint

Table 5.4: Attribute Mapping of NRM IOC ATMPATHTerminationPoint

IS Attribute	CMIP SS Attributes	Support Qualifier	Read Qualifier	Write Qualifier
aTMPATHTerminationPointId	aTMPATHTerminationPointId	M	M	--
virtualPathId	virtualPathId	M	M	O
physicalPortIdList	physicalPortIdList	M	M	O
peakCellRateIn	peakCellRateIn	M	M	O
peakCellRateEg	peakCellRateEg	M	M	O
aTMPATHTerminationPoint-ATMChannelTerminationPoint	aTMPATHTerminationPoint-ATMChannelTerminationPoint	M	M	--

-- 6 GDMO Definitions

--Please do not remove the '—' in front of the headline numbering, as it is the CMIP code

--for a comment. This way the whole chapter can be put directly into a compiler.

-- 6.1 Managed Object Classes

-- 6.1.1 transportNetworkInterface

transportNetworkInterface **MANAGED OBJECT CLASS**

DERIVED FROM

"3GPP TS32.622" : managedFunction;

CHARACTERIZED BY

transportNetworkInterfaceMandatoryAttributesPackage;

REGISTERED AS {ts32-714ObjectClass 10600};

-- 6.1.2 aTMChannelTerminationPoint

aTMChannelTerminationPoint **MANAGED OBJECT CLASS**

DERIVED FROM

"3GPP TS32.622" : top;

CHARACTERIZED BY

aTMChannelTerminationPointMandatoryAttributesPackage;

CONDITIONAL PACKAGES

aTMChannelTerminationPointOptionalAttributesPackage1

PRESENT IF

"an instance supports it",

aTMChannelTerminationPointOptionalAttributesPackage2

PRESENT IF

"an instance supports it",

aTMChannelTerminationPointOptionalAttributesPackage3

PRESENT IF

"an instance supports it",

aTMChannelTerminationPointOptionalAttributesPackage4

PRESENT IF

"an instance supports it",

aTMChannelTerminationPointOptionalAttributesPackage5

PRESENT IF

"an instance supports it",

aTMChannelTerminationPointOptionalAttributesPackage6

PRESENT IF

"an instance supports it";

REGISTERED AS {ts32-714ObjectClass 20600};

-- 6.1.3 aTMPPathTerminationPoint

aTMPPathTerminationPoint **MANAGED OBJECT CLASS**

DERIVED FROM

"3GPP TS32.622" : top;

CHARACTERIZED BY

aTMPPathTerminationPointMandatoryAttributesPackage;

REGISTERED AS {ts32-714ObjectClass 30600};

-- 6.2 Packages**-- 6.2.1 transportNetworkInterfaceMandatoryAttributesPackage**

transportNetworkInterfaceMandatoryAttributesPackage **PACKAGE**

BEHAVIOUR

transportNetworkInterfaceMandatoryAttributesPackageBehaviour;

ATTRIBUTES

transportNetworkInterfaceId GET,

userLabel GET-REPLACE,

transportNetworkType GET;

REGISTERED AS {ts32-714Package 10600};

transportInterfaceMandatoryAttributesPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].";

-- 6.2.2 aTMChannelTerminationPointMandatoryAttributesPackage

aTMChannelTerminationPointMandatoryAttributesPackage **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointMandatoryAttributesPackageBehaviour;

ATTRIBUTES

aTMChannelTerminationPointId	GET,
usageChannel	GET,
virtualPathId	GET,
virtualChannelId	GET,
physicalPortId	GET,
physicalInterfaceType	GET,
serviceCategoryIn	GET,
serviceCategoryEg	GET,
usedAAL	GET,
peakCellRateIn	GET,
peakCellRateEg	GET,
maximumBurstSizeIn	GET,
maximumBurstSizeEg	GET,
aTMChannelTerminationPoint-aTMPATHTerminationPoint	GET,
aTMChannelTerminationPoint-iubLink	GET;

REGISTERED AS {ts32-714Package 20600};

aTMChannelTerminationPointMandatoryAttributesPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

aTMChannelTerminationPointId, usageChannel, aTMChannelTerminationPoint-aTMPATHTerminationPoint, aTMChannelTerminationPoint-iubLink are strictly read-only, all the others are read-write if an instance of the managed object supports read-write.";

-- 6.2.3 aTMChannelTerminationPointOptionalAttributesPackage1

aTMChannelTerminationPointOptionalAttributesPackage1 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage1Behaviour;

ATTRIBUTES

sustainableCellRateIn GET;

REGISTERED AS {ts32-714Package 30600};

aTMChannelTerminationPointOptionalAttributesPackage1Behaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.4 aTMChannelTerminationPointOptionalAttributesPackage2

aTMChannelTerminationPointOptionalAttributesPackage2 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage2Behaviour;

ATTRIBUTES

sustainableCellRateEg GET;

REGISTERED AS {ts32-714Package 40600};

aTMChannelTerminationPointOptionalAttributesPackage2Behaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.5 aTMChannelTerminationPointOptionalAttributesPackage3

aTMChannelTerminationPointOptionalAttributesPackage3 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage3Behaviour;

ATTRIBUTES

minimumDesiredCellRateIn GET;

REGISTERED AS {ts32-714Package 50600};

aTMChannelTerminationPointOptionalAttributesPackage3Behaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.6 aTMChannelTerminationPointOptionalAttributesPackage4

aTMChannelTerminationPointOptionalAttributesPackage4 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage4Behaviour;

ATTRIBUTES

minimumDesiredCellRateEg GET;

REGISTERED AS {ts32-714Package 60600};

aTMChannelTerminationPointOptionalAttributesPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.7 aTMChannelTerminationPointOptionalAttributesPackage5

aTMChannelTerminationPointOptionalAttributesPackage5 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage5Behaviour;

ATTRIBUTES

minimumCellRateIn GET;

REGISTERED AS {ts32-714Package 70600};

aTMChannelTerminationPointOptionalAttributesPackage5Behaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.8 aTMChannelTerminationPointOptionalAttributesPackage6

aTMChannelTerminationPointOptionalAttributesPackage6 **PACKAGE**

BEHAVIOUR

aTMChannelTerminationPointOptionalAttributesPackage6Behaviour;

ATTRIBUTES

minimumCellRateEg GET;

REGISTERED AS {ts32-714Package 80600};

aTMChannelTerminationPointOptionalAttributesPackage6Behaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

The attributes are read-only, unless an instance of the managed object supports read-write.";

-- 6.2.9 aTMPPathTerminationPointMandatoryAttributesPackage

aTMPPathTerminationPointMandatoryAttributesPackage **PACKAGE**

BEHAVIOUR

aTMPPathTerminationPointMandatoryAttributesPackageBehaviour;

ATTRIBUTES

aTMPPathTerminationPointId GET,

virtualPathId GET,

physicalPortIdList GET,

peakCellRateIn GET,

peakCellRateEg GET,

aTMPPathTerminationPoint-aTMChannelTerminationPoint GET;

REGISTERED AS {ts32-714Package 90600};

aTMPPathTerminationPointMandatoryAttributesPackageBehaviour **BEHAVIOUR**

DEFINED AS

"The attributes in this package are described in 3GPP TS32.712 [4].

aTMPPathTerminationPointId, aTMPPathTerminationPoint-aTMChannelTerminationPoint are strictly read-only, all the others are read-write, if an instance of the managed object supports read-write.";

-- 6.3 Attributes

-- 6.3.1 transportNetworkInterfaceId

transportNetworkInterfaceId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

transportNetworkInterfaceIdBehaviour;

REGISTERED AS {ts32-714Attribute 10600};

transportNetworkInterfaceIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.2 userLabel

userLabel **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.UserLabel;

MATCHES FOR

EQUALITY;

BEHAVIOUR

userLabelBehaviour;

REGISTERED AS {ts32-714Attribute 20600};

userLabelBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.3 transportNetworkType

transportNetworkType **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.TransportNetworkType;

MATCHES FOR

EQUALITY;

BEHAVIOUR

transportNetworkTypeBehaviour;

REGISTERED AS {ts32-714Attribute 30600};transportNetworkTypeBehaviour **BEHAVIOUR****DEFINED AS**

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.4 aTMChannelTerminationPointIdaTMChannelTerminationPointId **ATTRIBUTE****WITH ATTRIBUTE SYNTAX**

TS32-714TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

aTMChannelTerminationPointIdBehaviour;

REGISTERED AS {ts32-714Attribute 40600};aTMChannelTerminationPointIdBehaviour **BEHAVIOUR****DEFINED AS**

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.5 usageChannelusageChannel **ATTRIBUTE****WITH ATTRIBUTE SYNTAX**

TS32-714TypeModule.UsageChannel;

MATCHES FOR

EQUALITY;

BEHAVIOUR

usageChannelBehaviour;

REGISTERED AS {ts32-714Attribute 50600};

usageChannelBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.6 virtualPathId

virtualPathId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.VirtualPathId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

virtualPathIdBehaviour;

REGISTERED AS {ts32-714Attribute 60600};

virtualPathIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.7 virtualChannelId

virtualChannelId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.VirtualChannelId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

virtualChannelIdBehaviour;

REGISTERED AS {ts32-714Attribute 70600};

virtualChannelIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.8 physicalPortId

physicalPortId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PhysicalPortId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

physicalPortIdBehaviour;

REGISTERED AS {ts32-714Attribute 80600};

physicalPortIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.9 physicalLinkType

physicalLinkType **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PhysicalLinkType;

MATCHES FOR

EQUALITY;

BEHAVIOUR

physicalLinkTypeBehaviour;

REGISTERED AS {ts32-714Attribute 90600};

physicalLinkTypeBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.10 physicalInterfaceType

physicalInterfaceType **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PhysicalInterfaceType;

MATCHES FOR

EQUALITY;

BEHAVIOUR

physicalInterfaceTypeBehaviour;

REGISTERED AS {ts32-714Attribute 100600};

physicalInterfaceTypeBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.11 serviceCategoryIn

serviceCategoryIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.ServiceCategoryIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

serviceCategoryInBehaviour;

REGISTERED AS {ts32-714Attribute 110600};

serviceCategoryInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.12 serviceCategoryEg

serviceCategoryEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.ServiceCategoryEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

serviceCategoryEgBehaviour;

REGISTERED AS {ts32-714Attribute 120600};

serviceCategoryEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.13 usedAAL

usedAAL **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.UsedAAL;

MATCHES FOR

EQUALITY;

BEHAVIOUR

usedAALBehaviour;

REGISTERED AS {ts32-714Attribute 130600};

usedAALBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.14 peakCellRateIn

peakCellRateIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PeakCellRateIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

peakCellRateInBehaviour;

REGISTERED AS {ts32-714Attribute 140600};

peakCellRateInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.15 peakCellRateEg

peakCellRateEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PeakCellRateEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

peakCellRateEgBehaviour;

REGISTERED AS {ts32-714Attribute 150600};

peakCellRateEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.16 sustainableCellRateIn

sustainableCellRateIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.SustainableCellRateIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

sustainableCellRateInBehaviour;

REGISTERED AS {ts32-714Attribute 160600};

sustainableCellRateInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.17 sustainableCellRateEg

sustainableCellRateEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.SustainableCellRateEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

sustainableCellRateEgBehaviour;

REGISTERED AS {ts32-714Attribute 170600};

sustainableCellRateEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.18 maximumBurstSizeIn

maximumBurstSizeIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MaximumBurstSizeIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

maximumBurstSizeInBehaviour;

REGISTERED AS {ts32-714Attribute 1870600};

maximumBurstSizeInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.19 maximumBurstSizeEg

maximumBurstSizeEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MaximumBurstSizeEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

maximumBurstSizeEgBehaviour;

REGISTERED AS {ts32-714Attribute 190600};

maximumBurstSizeEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.20 minimumDesiredCellRateIn

minimumDesiredCellRateIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MinimumDesiredCellRateIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

minimumDesiredCellRateInBehaviour;

REGISTERED AS {ts32-714Attribute 200600};

minimumDesiredCellRateInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.21 minimumDesiredCellRateEg

minimumDesiredCellRateEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MinimumDesiredCellRateEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

minimumDesiredCellRateEgBehaviour;

REGISTERED AS {ts32-714Attribute 210600};

minimumDesiredCellRateEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.22 minimumCellRateIn

minimumCellRateIn **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MinimumCellRateIn;

MATCHES FOR

EQUALITY;

BEHAVIOUR

minimumCellRateInBehaviour;

REGISTERED AS {ts32-714Attribute 220600};

minimumCellRateInBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.23 minimumCellRateEg

minimumCellRateEg **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.MinimumCellRateEg;

MATCHES FOR

EQUALITY;

BEHAVIOUR

minimumCellRateEgBehaviour;

REGISTERED AS {ts32-714Attribute 230600};

minimumCellRateEgBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.24 aTMChannelTerminationPoint-aTMPATHTerminationPoint

aTMChannelTerminationPoint-aTMPATHTerminationPoint **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.ATMChannelTerminationPoint-aTMPATHTerminationPoint;

MATCHES FOR

EQUALITY;

BEHAVIOUR

aTMChannelTerminationPoint-aTMPATHTerminationPointBehaviour;

REGISTERED AS {ts32-714Attribute 240600};

aTMChannelTerminationPoint-aTMPATHTerminationPointBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.25 aTMChannelTerminationPoint-iubLink

aTMChannelTerminationPoint-iubLink **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.ATMChannelTerminationPoint-iubLink;

MATCHES FOR

EQUALITY;

BEHAVIOUR

aTMChannelTerminationPoint-iubLinkBehaviour;

REGISTERED AS {ts32-714Attribute 250600};

aTMChannelTerminationPoint-iubLinkBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.26 aTMPathTerminationPointId

aTMPathTerminationPointId **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.GeneralObjectId;

MATCHES FOR

EQUALITY;

BEHAVIOUR

aTMPathTerminationPointIdBehaviour;

REGISTERED AS {ts32-714Attribute 260600};

aTMPathTerminationPointIdBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.27 physicalPortIdList

physicalPortIdList **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.PhysicalPortIdList;

MATCHES FOR

EQUALITY;

BEHAVIOUR

physicalPortIdListBehaviour;

REGISTERED AS {ts32-714Attribute 270600};

physicalPortIdListBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.3.28 aTMPATHTerminationPoint-aTMChannelTerminationPoint

aTMPATHTerminationPoint-aTMChannelTerminationPoint **ATTRIBUTE**

WITH ATTRIBUTE SYNTAX

TS32-714TypeModule.ATMPATHTerminationPoint-aTMChannelTerminationPoint;

MATCHES FOR

EQUALITY;

BEHAVIOUR

aTMPATHTerminationPoint-aTMChannelTerminationPointBehaviour;

REGISTERED AS {ts32-714Attribute 280600};

aTMPATHTerminationPoint-aTMChannelTerminationPointBehaviour **BEHAVIOUR**

DEFINED AS

"This attribute is described in 3GPP TS32.712 [4].";

-- 6.4 Name-Binding

-- 6.4.1 transportNetworkInterface-managedElement

transportNetworkInterface-managedElement **NAME BINDING**

SUBORDINATE OBJECT CLASS

transportNetworkInterface;

NAMED BY SUPERIOR OBJECT CLASS

managedElement;

WITH ATTRIBUTE

aTMPPathTerminationPointId;

BEHAVIOUR

transportNetworkInterface-managedElementBehaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-714NameBinding 10600};

transportNetworkInterface-managedElementBehaviour **BEHAVIOUR**

DEFINED AS

"The name binding represents a relationship in which a managedElement montains and controls a Transport Network Interface. When automatic instance naming is used, the choice of name bindings left as a local matter.";

-- 6.4.2 aTMPPathTerminationPoint-transportNetworkInterface

aTMPPathTerminationPoint-transportNetworkInterface **NAME BINDING**

SUBORDINATE OBJECT CLASS

aTMPPathTerminationPoint;

NAMED BY SUPERIOR OBJECT CLASS

transportNetworkInterface;

WITH ATTRIBUTE

aTMPPathTerminationPointId;

BEHAVIOUR

aTMPPathTerminationPoint-transportNetworkInterfaceBehaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-714NameBinding 20600};

aTMPPathTerminationPoint-transportNetworkInterfaceBehaviour **BEHAVIOUR**

DEFINED AS

"The name binding represents a relationship in which a Transport Network Interface contains

and controls a aTMPathTerminationPoint. When automatic instance naming is used, the choice of name bindings left as a local matter.";

-- 6.4.3 aTMChannelTerminationPoint-transportNetworkInterface

aTMChannelTerminationPoint-transportNetworkInterface **NAME BINDING**

SUBORDINATE OBJECT CLASS

aTMChannelTerminationPoint;

NAMED BY SUPERIOR OBJECT CLASS

transportNetworkInterface;

WITH ATTRIBUTE

aTMChannelTerminationPointId;

BEHAVIOUR

aTMChannelTerminationPoint-transportNetworkInterfaceBehaviour;

CREATE

WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING;

DELETE

ONLY-IF-NO-CONTAINED-OBJECTS;

REGISTERED AS {ts32-714NameBinding 30600};

aTMChannelTerminationPoint-transportNetworkInterfaceBehaviour **BEHAVIOUR**

DEFINED AS

"The name binding represents a relationship in which a Transport Network Interface contains and controls a aTMChannelTerminationPoint. When automatic instance naming is used, the choice of name bindings left as a local matter.";

-- 7 ASN.1 definitions for the Transport Network NRM

TS32-714TypeModule {itu-t(0) identified-organization(4) etsi(0) mobileDomain(0) umts-Operation-Maintenance(3) ts-32-714(714) informationModel(0) asn1Module(2) version10600(10600)}

DEFINITIONS IMPLICIT TAGS ::=

BEGIN

--EXPORTS everything

--IMPORTS nothing

-- 3GPP TS 32.714 related Object Identifiers

baseNodeUMTS OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4)
etsi(0) mobileDomain(0)
umts-Operation-Maintenance(3)}

ts32-714 OBJECT IDENTIFIER ::= {baseNodeUMTS ts32-714(714)}

ts32-714InfoModel OBJECT IDENTIFIER ::= {ts32-714 informationModel(0)}

ts32-714ObjectClass OBJECT IDENTIFIER ::= {ts32-714InfoModel managedObjectClass(3)}

ts32-714Package OBJECT IDENTIFIER ::= {ts32-714InfoModel package(4)}

ts32-714Parameter OBJECT IDENTIFIER ::= {ts32-714InfoModel parameter(5)}

ts32-714NameBinding OBJECT IDENTIFIER ::= {ts32-714InfoModel nameBinding(6)}

ts32-714Attribute OBJECT IDENTIFIER ::= {ts32-714InfoModel attribute(7)}

ts32-714Action OBJECT IDENTIFIER ::= {ts32-714InfoModel action(9)}

ts32-714Notification OBJECT IDENTIFIER ::= {ts32-714InfoModel notification(10)}

-- Start of 3GPP SA5 own definitions

ATMChannelTerminationPointId ::= INTEGER

ATMChannelTerminationPoint-aTMPPathTerminationPoint ::= GraphicString

ATMChannelTerminationPoint-iubLink ::= GraphicString

ATMPATHTerminationPointId ::= INTEGER

ATMPATHTerminationPoint-aTMChannelTerminationPoint ::= GraphicString

MaximumBurstSizeIn ::= INTEGER

MaximumBurstSizeEg ::= INTEGER

MinimumCellRateIn ::= INTEGER

MinimumCellRateEg ::= INTEGER

MinimumDesiredCellRateIn ::= INTEGER

MinimumDesiredCellRateEg ::= INTEGER

PeakCellRateIn ::= INTEGER

PeakCellRateEg ::= INTEGER

PhysicalInterfaceType ::= ENUMERATED

```
{  
e1      (0),  
e3      (1),  
stm1    (2),  
stm4    (3),  
stm16   (4),  
stm64   (5),  
other   (255)  
}
```

PhysicalLinkType ::= GraphicString --same as physicalInterfaceType

PhysicalPortId ::= GraphicalString

PhysicalPortIdList ::= SEQUENCE OF GraphicString

ServiceCategoryIn ::= ENUMERATED

```
{  
  cbr      (0),  
  rt-vbr   (1),  
  nrt-vbr  (2),  
  abr      (3),  
  ubr      (4),  
  gfr      (5)  
}
```

ServiceCategoryEg ::= ENUMERATED

```
{  
  cbr      (0),  
  rt-vbr   (1),  
  nrt-vbr  (2),  
  abr      (3),  
  ubr      (4),  
  gfr      (5)  
}
```

SustainableCellRateIn ::= INTEGER

SustainableCellRateEg ::= INTEGER

TransportNetworkInterfaceId ::= INTEGER

TransportNetworkType ::= ENUMERATED

```
{  
  atm      (0),  
  ip       (1)  
}
```



```
}
```

UsageChannel ::= GraphicString --e.g. NBAP, ALCAP, ...

UsedAAL ::= ENUMERATED

```
{  
  aal0    (0),  
  aal1    (1),  
  aal2    (2),  
  aal34   (3),  
  aal5    (4)  
}
```

UserLabel ::= GraphicString

VirtualPathId ::= INTEGER

VirtualChannelId ::= INTEGER

END -- of module TS32-714TypeModule

Annex A (informative): List of assigned Object Identifiers

This annex provides a list with all object identifiers that have been assigned in TS 32.714. These object identifiers shall not be assigned to new objects (also not in new versions of this document).

Basic Name	Name and OID of the current TS Version	Name and OIDs of previous TS Versions
Managed Object Classes		
transportNetworkInterface	Name: transportNetworkInterface OID: ts32-714ObjectClass 10600	--
aTMChannelTerminationPoint	Name: aTMChannelTerminationPoint OID: ts32-714ObjectClass 20600	--
aTMPPathTerminationPoint	Name: aTMPPathTerminationPoint OID: ts32-714ObjectClass 30600	--
Packages		
transportNetworkInterfaceMandatoryAttributesPackage	Name: transportNetworkInterfaceMandatoryAttributesPackage OID: ts32-714Package 10600	--
aTMChannelTerminationPointMandatoryAttributesPackage	Name: aTMChannelTerminationPointMandatoryAttributesPackage OID: ts32-714Package 20600	--
aTMChannelTerminationPointOptionalAttributesPackage1	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 30600	--
aTMChannelTerminationPointOptionalAttributesPackage2	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 40600	--
aTMChannelTerminationPointOptionalAttributesPackage3	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 50600	--
aTMChannelTerminationPointOptionalAttributesPackage4	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 60600	---
aTMChannelTerminationPointOptionalAttributesPackage5	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 70600	--
aTMChannelTerminationPointOptionalAttributesPackage6	Name: aTMChannelTerminationPointOptionalAttributesPackage1 OID: : ts32-714Package 80600	--
aTMPPathTerminationPointMandatoryAttributesPackage	Name: aTMPPathTerminationPointMandatoryAttributesPackage OID: ts32-714Package 90600	--
Actions		
--	--	--
Notifications		
--	--	--
Attributes		
aTMChannelTerminationPointId	Name: aTMChannelTerminationPointId OID: ts32-714Action 40600	--
aTMChannelTerminationPoint-aTMPPathTerminationPoint	Name: aTMChannelTerminationPoint-aTMPPathTerminationPoint OID: ts32-714Action 240600	--

aTMChannelTerminationPoint- iubLink	Name: aTMChannelTerminationPoint-iubLink OID: ts32-714Action 250600	--
aTMPATHTerminationPointId	Name: aTMPATHTerminationPoint OID: ts32-714Action 260600	--
aTMPATHTerminationPoint- aTMChannelTerminationPoint	Name: aTMPATHTerminationPoint- aTMChannelTerminationPoint OID: ts32-714Action 280600	--
maximumBurstSizeIn	Name maximumBurstSizeIn OID: ts32-714Action 180600	--
maximumBurstSizeEg	Name: maximumBurstSizeEg OID: ts32-714Action 190600	--
minimumCellRateIn	Name: minimumCellRateIn OID: ts32-714Action 220600	--
minimumCellRateEg	Name: minimumCellRateEg OID: ts32-714Action 230600	--
minimumDesiredCellRateIn	Name: minimumDesiredCellRateIn OID: ts32-714Action 200600	--
minimumDesiredCellRateEg	Name: minimumDesiredCellRateEg OID: ts32-714Action 210600	--
peakCellRateIn	Name: peakCellRateIn OID: ts32-714Action 140600	--
peakCellRateEg	Name: peakCellRateEg OID: ts32-714Action 150600	--
physicalInterfaceType	Name: physicalInterfaceType OID: ts32-714Action 100600	--
physicalLinkType	Name: physicalLinkType OID: ts32-714Action 90600	--
physicalPortId	Name: physicalPortId OID: ts32-714Action 80600	--
physicalPortIdList	Name: physicalPortIdList OID: ts32-714Action 270600	--
serviceCategoryIn	Name: serviceCategoryIn OID: ts32-714Action 110600	--
serviceCategoryEg	Name: serviceCategoryEg OID: ts32-714Action 120600	--
sustainableCellRateIn	Name: sustainableCellRateIn OID: ts32-714Action 16600	--
sustainableCellRateEg	Name: sustainableCellRateEg OID: ts32-714Action 17600	--
transportNetworkInterfaceId	Name: transportNetworkInterfaceId OID: ts32-714Action 10600	--
transportNetworkType	Name: transportNetworkType OID: ts32-714Action 30600	--
usageChannel	Name: usageChannel OID: ts32-714Action 50600	--
usedAAL	Name: usedAAL OID: ts32-714Action 120600	--
userLabel	Name: userLabel OID: ts32-714Action 20600	--
virtualChannelId	Name: a virtualChannelId OID: ts32-714Action 70600	--
virtualPathId	Name: virtualPathId OID: ts32-714Action 60600	--
Parameters		
--	--	--
Name Bindings		
transportNetworkInterface- managedElement	Name: transportNetworkInterface-managedElement OID: ts32-714NameBinding 10600	--
aTMPATHTerminationPoint- transportNetworkInterface	Name: aTMPATHTerminationPoint- transportNetworkInterface OID: ts32-714NameBinding 20600	--
aTMChannelTerminationPoint- transportNetworkInterface	Name: aTMChannelTerminationPoint- transportNetworkInterface OID: ts32-714NameBinding 30600	--

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Dec 2004	S_26	SP-040818	--	--	Submitted to SA#26 for Approval	1.0.0	6.0.0

History

Document history		
V6.0.0	December 2004	Publication