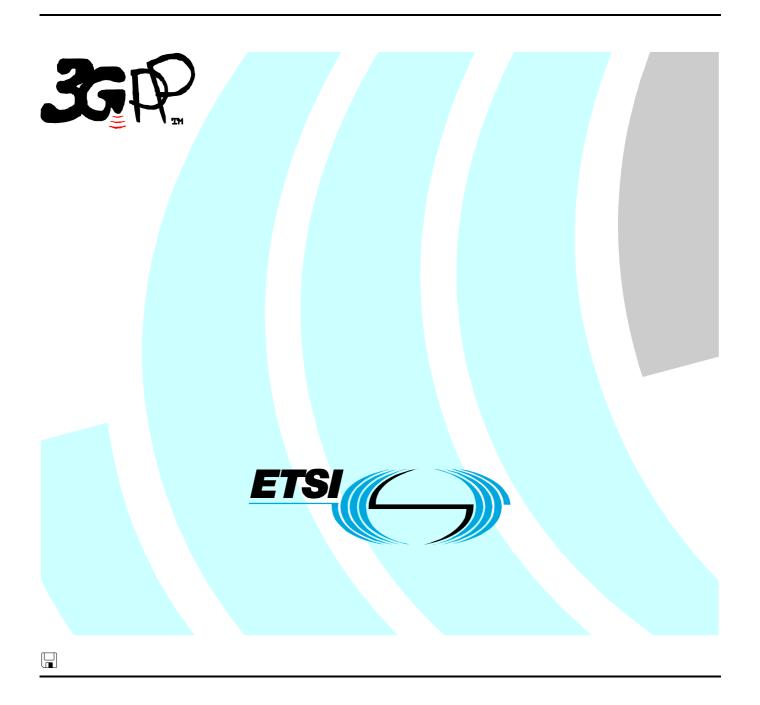
ETSITS 129 198-16 V7.0.0 (2007-06)

Technical Specification

Universal Mobile Telecommunications System (UMTS);
Open Service Access (OSA)
Application Programming Interface (API);
Part 16: Service broker Service Capability Feature (SCF)
(3GPP TS 29.198-16 version 7.0.0 Release 7)



Reference RTS/TSGC-0529198-16v700 Keywords UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services: http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2007.
All rights reserved.

DECTTM, **PLUGTESTS**TM and **UMTS**TM are Trade Marks of ETSI registered for the benefit of its Members. **TIPHON**TM and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members. **3GPP**TM is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Contents

Intelle	ntellectual Property Rights				
Forev	word	2			
Forev	word	5			
Introd	duction	5			
1	Scope				
	•				
2	References	/			
3	Definitions and abbreviations				
3.1	Definitions				
3.2	Abbreviations	8			
4	Service Broker SCF	8			
4.1	General requirements on support of methods	8			
5	Sequence Diagrams	8			
6	Class Diagrams				
7	The Service Interface Specifications	9			
7.1	Interface Specification Format				
7.1.1	Interface Class				
7.1.2 7.1.3	Method descriptions.				
7.1.3	Parameter descriptions State Model				
7.1.4	Base Interface				
7.2.1	Interface Class IpInterface				
7.3	Service Interfaces				
7.3.1	Overview	10			
7.4	Generic Service Interface				
7.4.1	Interface Class IpService				
7.4.1.1	V				
7.4.1.2	V				
8	Service Broker Interface Classes				
8.1	Interface Class IpServiceBroker				
8.1.1	Method registerServiceInteraction()				
8.1.2	Method unregisterServiceInteraction()	13			
9	State Transition Diagrams	13			
10	Service Broker Service Properties	13			
11	Data Definitions				
11.1 11.1.1					
11.1.2					
11.1.3					
11.1.4					
11.1.5	· · · · · · · · · · · · · · · · · · ·				
12	Exception Classes	15			
Anne	ex A (normative): OMG IDL Description of Service Broker SCF	16			
Anne	ex B (informative): W3C WSDL Description of Service Broker SCF	17			
Anne	ex C (informative): Java API Description of the Service Broker SCF	18			

Anne	ex D (informative): Description of Service Broker for 3GPP2 cdma2000 netwo	orks19
D.1	General Exceptions.	19
D.2	Specific Exceptions	19
D.2.1	Clause 1: Scope	19
D.2.2		19
D.2.3	Clause 3: Definitions and abbreviations	19
D.2.4	Clause 4: Service Broker SCF	19
D.2.5	Clause 5: Sequence Diagrams	19
D.2.6	Clause 6 Class Diagrams	20
D.2.7	Clause 7: The Service Interface Specifications	20
D.2.8	Clause 8: Service Broker Interface Classes	20
D.2.9	Clause 9: State Transition Diagrams	20
D.2.10	· · · · · · · · · · · · · · · · · · ·	
D.2.11		
D.2.12	2 Annex A (normative): OMG IDL Description of Service Broker SCF	20
D.2.13	Annex B (informative): W3C WSDL Description of Service Broker SCF	20
Anne	ex E (informative): Change history	21
Histor	ory	22

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part 16 of a multi-part TS covering the 3rd Generation Partnership Project: Technical Specification Group Core Network; Open Service Access (OSA); Application Programming Interface (API), as identified below. The **API specification** (3GPP TS 29.198) is structured in the following Parts:

```
Part 1:
                "Overview";
Part 2:
                "Common Data Definitions";
Part 3:
                "Framework":
Part 4:
                "Call Control";
                Sub-part 1: "Call Control Common Definitions";
                Sub-part 2: "Generic Call Control SCF";
                Sub-part 3: "Multi-Party Call Control SCF";
                Sub-part 4: "Multi-Media Call Control SCF";
                Sub-part 5: "Conference Call Control SCF";
Part 5:
                "User Interaction SCF";
Part 6:
                "Mobility SCF";
Part 7:
                "Terminal Capabilities SCF";
Part 8:
                "Data Session Control SCF";
Part 9:
                "Generic Messaging SCF";
                                                                      (not part of 3GPP Release 7)
                "Connectivity Manager SCF";
Part 10:
                                                                      (not part of 3GPP Release 7)
Part 11:
                "Account Management SCF";
Part 12:
                "Charging SCF".
Part 13:
                "Policy Management SCF";
Part 14:
                "Presence and Availability Management SCF";
Part 15:
                "Multi Media Messaging SCF";
                "Service Broker SCF";
Part 16:
                                                                      (new in Release 7)
```

The **Mapping specification of the OSA APIs and network protocols** (3GPP TR 29.998) is also structured as above. A mapping to network protocols is however not applicable for all Parts, but the numbering of Parts is kept. Also in case a Part is not supported in a Release, the numbering of the parts is maintained.

Table: Overview of the OSA APIs & Protocol Mappings 29.198 & 29.998-family

	OSA		OSA API Ma	apping - 29.998-family			
29.198-01	Overview	-			29.998-01	Overview	
29.198-02	Common Data	a Definitions			29.998-02	Not Applicable	
29.198-03	Framework					29.998-03	Not Applicable
Call	29.198-04-1	29.198-04-2	29.198-04-3	29.198-04-4	29.198-04-5	29.998-04-1	Generic Call Control -
Control	Common	Generic CC	Multi-Party	Multi-media	Conference		CAP mapping
(CC) SCF	CC data	SCF	CC SCF	CC SCF	Call Control	29.998-04-2	Generic Call Control –
	definitions				SCF		INAP mapping
						29.998-04-3	Generic Call Control –
							Megaco mapping
						29.998-04-4	Multiparty Call Control
							– ISC mapping
29.198-05	User Interaction	on SCF				29.998-05-1	User Interaction – CAP
						29.998-05-2	mapping
							User Interaction –
							INAP mapping
				29.998-05-3	User Interaction –		
						20,000,05,4	Megaco mapping
					29.998-05-4	User Interaction – SMS	
20.100.06	Mobility SCF					20,000,00	mapping User Status and User
29.198-06	Mobility SCF					29.998-06	Location – MAP
29.198-07	Terminal Capa	abilities SCE				29.998-07	mapping Not Applicable
29.198-08	Data Session (29.998-08	Data Session Control –
29.196-06	Data Session (connor ser				29.990-00	CAP mapping
29.198-09	Generic Messo	aoino SCF				29.998-09	Not Applicable
29.198-10	Connectivity N			29.998-10	Not Applicable		
29.198-11	Account Mana		29.998-11	Not Applicable			
29.198-12	Charging SCF		29.998-12	Not Applicable			
29.198-13	Policy Manage	ement SCF		29.998-13	Not Applicable		
29.198-14	Presence & Availability Management SCF 29.998						Not Applicable
29.198-15	Multi-media Messaging SCF 29						Not Applicable
29.198-16	Service Broke	er SCF			29.998-16	Not Applicable	

1 Scope

The present document is Part 16 of the Stage 3 specification for an Application Programming Interface (API) for Open Service Access (OSA).

The OSA specifications define an architecture that enables application developers to make use of network functionality through an open standardised interface, i.e. the OSA APIs. The concepts and the functional architecture for the OSA are contained in 3GPP TS 23.198 [3]. The requirements for OSA are contained in 3GPP TS 22.127 [2].

The present document specifies the Service Broker Capability Feature (SCF) aspects of the interface. All aspects of the Service Broker SCF are defined here, these being:

- Sequence Diagrams
- Class Diagrams
- Interface specification plus detailed method descriptions
- State Transition diagrams
- Data definitions
- IDL Description of the interfaces
- WSDL Description of the interfaces

The process by which this task is accomplished is through the use of object modelling techniques described by the Unified Modelling Language (UML).

This specification has been defined jointly between 3GPP TSG CT WG5, ETSI TISPAN and the Parlay Group, in cooperation with a number of JAINTM Community member companies.

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 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.198: "Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 29.198-2: "Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data definitions".
- [5] ITU-T Recommendation Q.713: "Signalling connection control part formats and codes".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 29.198-1 [1] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TS 29.198-1 [1] apply.

4 Service Broker SCF

The following clauses describe each aspect of the Service Broker Capability Feature (SCF).

The order is as follows:

- The Sequence diagrams give the reader a practical idea of how each SCF is implemented.
- The Class relationships clause show how each of the interfaces applicable to the SCF, relate to one another.
- The Interface specification clause describes in detail each of the interfaces shown within the Class diagram part.
- The State Transition Diagrams (STD) show the transition between states in the SCF. The states and transitions are well-defined; either methods specified in the Interface specification or events occurring in the underlying networks cause state transitions.

The Data Definitions clause show a detailed expansion of each of the data types associated with the methods within the classes. Note that some data types are used in other methods and classes and are therefore defined within the Common Data types part of this specification.

4.1 General requirements on support of methods

An implementation of this API which supports or implements a method described in the present document, shall support or implement the functionality described for that method, for at least one valid set of values for the parameters of that method.

Where a method is not supported by an implementation of a Service interface, the exception P_METHOD_NOT_SUPPORTED shall be returned to any call of that method.

Where a method is not supported by an implementation of an Application interface, a call to that method shall be possible, and no exception shall be returned.

5 Sequence Diagrams

There are no Sequence Diagrams for the Service Broker SCF.

6 Class Diagrams

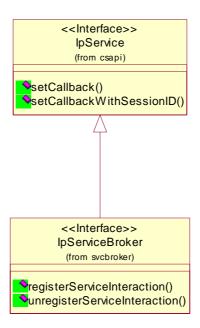


Figure: Service Broker Interfaces Overview

7 The Service Interface Specifications

7.1 Interface Specification Format

This clause defines the interfaces, methods and parameters that form a part of the API specification. The Unified Modelling Language (UML) is used to specify the interface classes. The general format of an interface specification is described below.

7.1.1 Interface Class

This shows a UML interface class description of the methods supported by that interface, and the relevant parameters and types. The Service and Framework interfaces for enterprise-based client applications are denoted by classes with name Ip<name>. The callback interfaces to the applications are denoted by classes with name IpApp<name>. For the interfaces between a Service and the Framework, the Service interfaces are typically denoted by classes with name IpSvc<name>, while the Framework interfaces are denoted by classes with name IpFw<name>.

7.1.2 Method descriptions

Each method (API method "call") is described. Both synchronous and asynchronous methods are used in the API. Asynchronous methods are identified by a 'Req' suffix for a method request, and, if applicable, are served by asynchronous methods identified by either a 'Res' or 'Err' suffix for method results and errors, respectively. To handle responses and reports, the application or service developer must implement the relevant IpApp<name> or IpSvc<name> interfaces to provide the callback mechanism.

7.1.3 Parameter descriptions

Each method parameter and its possible values are described. Parameters described as 'in' represent those that must have a value when the method is called. Those described as 'out' are those that contain the return result of the method when the method returns.

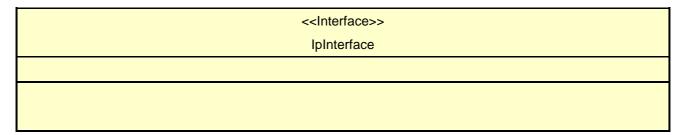
7.1.4 State Model

If relevant, a state model is shown to illustrate the states of the objects that implement the described interface.

7.2 Base Interface

7.2.1 Interface Class IpInterface

All application, framework and service interfaces inherit from the following interface. This API Base Interface does not provide any additional methods.



7.3 Service Interfaces

7.3.1 Overview

The Service Interfaces provide the interfaces into the capabilities of the underlying network - such as call control, user interaction, messaging, mobility and connectivity management.

The interfaces that are implemented by the services are denoted as 'Service Interface'. The corresponding interfaces that must be implemented by the application (e.g. for API callbacks) are denoted as 'Application Interface'.

7.4 Generic Service Interface

7.4.1 Interface Class IpService

Inherits from: IpInterface

.All service interfaces inherit from the following interface.

	< <interface>></interface>	
	IpService	
setCallback (appInterface : in I	pInterfaceRef) : void	
setCallbackWithSessionID (ap	oInterface : in IpInterfaceRef, sessionID : in TpSessionID) : void	
setCallbackWithSessionID (ap	oInterface : in IpInterfaceRef, sessionID : in TpSessionID) : void	

7.4.1.1 Method setCallback()

This method specifies the reference address of the callback interface that a service uses to invoke methods on the application. It is not allowed to invoke this method on an interface that uses SessionIDs. Multiple invocations of this method on an interface shall result in multiple callback references being specified. The SCS shall use the most recent callback interface provided by the application using this method. In the event that a callback reference fails or is no longer available, the next most recent callback reference available shall be used.

Parameters

appInterface: in IpInterfaceRef

Specifies a reference to the application interface, which is used for callbacks

Raises

TpCommonExceptions, P INVALID INTERFACE TYPE

7.4.1.2 Method setCallbackWithSessionID()

This method specifies the reference address of the application's callback interface that a service uses for interactions associated with a specific session ID: e.g. a specific call, or call leg. It is not allowed to invoke this method on an interface that does not use SessionIDs. Multiple invocations of this method on an interface shall result in multiple callback references being specified. The SCS shall use the most recent callback interface provided by the application using this method. In the event that a callback reference fails or is no longer available, the next most recent callback reference available shall be used.

Parameters

appInterface : in IpInterfaceRef

Specifies a reference to the application interface, which is used for callbacks

sessionID : in TpSessionID

Specifies the session for which the service can invoke the application's callback interface.

Raises

TpCommonExceptions, P INVALID SESSION ID, P INVALID INTERFACE TYPE

8 Service Broker Interface Classes

The Service Broker SCF enables the application to register its interest in particular traffic as part of service interactions. The Service Broker service provides a SCF interface that is called IpServiceBroker. There is no need for an application interface, since IpServiceBroker only contains two synchronous methods registerServiceInteraction and unregisterServiceInteraction.

8.1 Interface Class IpServiceBroker

Inherits from: IpService.

The ServiceBroker SCF interface IpServiceBroker contains two synchronous methods, registerServiceInteraction and unregisterServiceInteraction. The application has to provide its name, endpoint address and optionally a service identifier as input to the registerServiceInteraction method. The result indicates whether or not the service brokering scenario is available in the Service Broker SCF and, in case they are, it will return an assignment identifier in order to identify the particular interworking scenario. An application may register multiple times with the same clientBrokerID. This is to facilitate, though not mandate, load sharing to be possible and the ability of two or more instances of an application to be involved in service interworking. Moreover, the same application may register with the service broker using more than one clientBrokerID to facilitate partitioning of services among subscribers.

<<Interface>>
IpServiceBroker

registerServiceInteraction (clientBrokerID : in TpString, endpointAddress : in TpEndpointAddress, serviceKey : in TpServiceKey) : TpAssignmentID

unregisterServiceInteraction (assignmentID: in TpAssignmentID): void

8.1.1 Method registerServiceInteraction()

This method is used by an application or SCF to register interest in a particular service interaction which has already been provisioned on the Service Broker entity.

The method may be called multiple times for individual instances of the same application or service i.e. individual instances using the same clientBrokerID. The behaviour of the Service Broker SCF for this scenario is regarded as implementation detail but may include such behaviour as round robining of traffic to the applications or services identified by the clientBrokerId or implementing a primary/secondary hot standby traffic distribution for high availability.

The method may also be called multiple times by the same application instances but each identified by a unique clientBrokerID, in order to facilitate partitioning of subscribers. For example, where multiple charging platforms have been provisioned by subscriber number.

If two applications attempt to call registerServiceInteraction() with the same clientBrokerID but on different service managers then a P_INVALID_CRITERIA exception will be returned.

Returns assignmentID: Specifies an instance of a registered service interaction. This is used by the application in order to unregister the service interaction at a later stage. If the service or application calls registerServiceInteraction() multiple times with the same clientBrokerID, endpointAddress and serviceKey then the service Broker SCF will return the same assignmentID.

The method will return an unique assignmentID for each invocation of the registerServiceInteraction() method specified with an unique clientBrokerID.

A P_INVALID_SERVICE_INTERACTION is returned if the Service Broker entity has no prior knowledge of the service or application.

Parameters

clientBrokerID : in TpString

Identifies the name of the service or application requiring service interaction.

endpointAddress : in TpEndpointAddress

Identifies the network address of the service or application. This is to allow the Service Broker SCF to direct network traffic to the service or application at a later stage.

serviceKey : in TpServiceKey

Identifies the service for which applications require service interaction. Service interactions may be grouped or assigned by a single service key. This parameter is optional; if the application does not use this parameter then its value will be assigned NULL by the application.

Returns

TpAssignmentID

Raises

TpCommonExceptions, P INVALID SERVICE INTERACTION, P INVALID CRITERIA

8.1.2 Method unregisterServiceInteraction()

This method is used by a service or application to unregister previously registered service interactions on the Service Broker SCF.

As a result of calling this method, the service or application will no longer receive network traffic from the Service Broker SCF for that service interaction identified by the specific assignmentID. However, if the service or application has previously called registerServiceInteraction() more than once then it may still receive network traffic. In order to completely unregister from all service interactions, the service or applications must call unregisterServiceInteraction() for each previously allocated assignmentID.

The method returns P_INVALID_ASSIGNMENT_ID if the supplied assignmentID value does not correspond to a previously returned assignmentID value via the registerServiceInteraction() method.

Parameters

assignmentID: in TpAssignmentID

Identifies the specific service interaction

Raises

TpCommonExceptions, P INVALID ASSIGNMENT ID

9 State Transition Diagrams

There are no State Transition Diagrams for the Service Broker SCF.

10 Service Broker Service Properties

The following table lists properties relevant for the Service Broker API.

Property	Туре	Description/Interpretation
P_ADDRESSPLAN	INTEGER_SET	Indicates the supported address plans (defined
		in TpAddressPlan.) E.g.
		P_ADDRESS_PLAN_IP. Note that more than
		one address plan may be supported.

11 Data Definitions

All data types referenced but not defined in this clause are common data definitions which may be found in 3GPP TS 29.198-2 [4].

11.1 Service Broker Data Definitions

11.1.1 clientBrokerID

Identifies the application or service requiring interaction

Name	Туре	Documentation
clientBrokerID	TpString	Identifies the application or service requiring the service interaction

11.1.2 TpEndpointAddress

This data type defines the Tagged Choice of Data Elements that specify the address of the end point to which network traffic should be sent as a result of service interactions.

Tag Element Type	
TpEndpointAddressCategory	

Tag Element Value	Choice Element Type	Choice Element Name
P_NETWORK_ADDRESS	TpAddress	NetworkAddress
P_SS7_ADDRESS	TpOctetSet	SS7Address

11.1.3 TpEndpointAddressCategory

Name	Value	Description
P_NETWORK_ADDRESS	0	Network address for protocol specific traffic
P_SS7_ADDRESS 1		SS7 Address for endpoint. For example, encoded Global Title or
		Point Code with SSN as specified in ITU-T Q.713 [5]

11.1.4 TpServiceKey

Defines a Tagged Choice of Data Elements that specify services on which the application is requesting interaction.

Tag Element Type	
TpServiceKeyType	

Tag Element Value Choice Element Type		Choice Element Name	
P_SERVICE_KEY	TpInt32	ServiceKeyValue	

11.1.5 TpServiceKeyType

Defines the type of service key used

Name	Value	Description
P_SERVICE_KEY_UNDEFINED	0	Undefined
P_SERVICE_KEY	1	The service key value

12 Exception Classes

The following are the list of exception classes that are used in this interface of the API.

Name	Description
	The request cannot be processed as there is insufficient information for the Service Broker SCF to carry out the service interaction.

Each exception class contains the following structure:

Structure Element Name	Structure Element Type	Structure Element Description
ExtraInformation	TpString	Carries extra information to help identify the source of
		the exception, e.g. a parameter name

Annex A (normative): OMG IDL Description of Service Broker SCF

The OMG IDL representation of this interface specification is contained in a text file (svcbroker.idl contained in archive 2919816V700IDL.ZIP) which accompanies the present document.

Annex B (informative): W3C WSDL Description of Service Broker SCF

The W3C WSDL representation of this interface specification is contained in zip file 2919816V700WSDL.ZIP, which accompanies the present document.

Annex C (informative): Java API Description of the Service Broker SCF

The JavaTM API realisation of this interface specification is produced in accordance with the JavaTM Realisation rules defined in Part 1 of this specification series. These rules aim to deliver for JavaTM, a developer API, provided as a realisation, supporting a JavaTM API that represents the UML specifications. The rules support the production of both J2SETM and J2EETM versions of the API from the common UML specifications.

The J2SETM representation of this interface specification is provided as JavaTM Code, contained in archive 2919816V700J2SE.ZIP that accompanies the present document.

The J2EETM representation of this interface specification is provided as JavaTM Code, contained in archive 2919816V700J2EE.ZIP that accompanies the present document.

Annex D (informative): Description of Service Broker for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in:

- [1] 3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.
- [2] 3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.
- [3] 3GPP2 X.S0013: "All-IP Core Network Multimedia Domain", December 2003.

These requirements are expressed as additions to and/or exclusions from the 3GPP Release 7 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

D.1 General Exceptions

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

D.2 Specific Exceptions

D.2.1 Clause 1: Scope

There are no additions or exclusions.

D.2.2 Clause 2: References

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

D.2.3 Clause 3: Definitions and abbreviations

There are no additions or exclusions.

D.2.4 Clause 4: Service Broker SCF

There are no additions or exclusions.

D.2.5 Clause 5: Sequence Diagrams

There are no additions or exclusions.

D.2.6 Clause 6 Class Diagrams

There are no additions or exclusions.

D.2.7 Clause 7: The Service Interface Specifications

There are no additions or exclusions.

D.2.8 Clause 8: Service Broker Interface Classes

There are no additions or exclusions.

D.2.9 Clause 9: State Transition Diagrams

There are no additions or exclusions.

D.2.10 Clause 10: Service Broker Service Properties

There are no additions or exclusions.

D.2.11 Clause 11: Data Definitions

There are no additions or exclusions.

D.2.12 Annex A (normative): OMG IDL Description of Service Broker SCF

There are no additions or exclusions.

D.2.13 Annex B (informative): W3C WSDL Description of Service Broker SCF

There are no additions or exclusions.

Annex E (informative): Change history

	Change history							
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Jun 2006	CT_32	CP-060212			Submitted to TSG CT#32 for Information.		1.0.0	
					Aligned with Stage 2 CR 23.198 in CP-060204.			
Nov 2006	CT_34	CP-060608			Submitted to TSG CT#34 for Approval.		2.0.0	7.0.0

History

Document history				
V7.0.0	June 2007	Publication		