ETSI TS 129 198-1 V9.0.0 (2010-01)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
LTE;
Open Service Access (OSA)
Application Programming Interface (API);
Part 1: Overview
(3GPP TS 29.198-01 version 9.0.0 Release 9)

Reference
RTS/TSGC-0029198-01v900

Keywords
GSM, LTE, 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

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

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 1 of a multi-part TS covering the 3rd Generation Partnership Project: Technical Specification Group Core Network and Terminals; 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 8)
Part 10:	"Connectivity Manager SCF";	(new in 3GPP Release 8)
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";	
Part 16:	"Service Broker SCF".	

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 API specifications 29.198-family						OSA API Mapping - 29.998-family	
29.198-01	**Overview**					29.998-01	Overview
29.198-02	Common Data Definitions					*29.998-02*	*Not Applicable*
29.198-03	Framework					*29.998-03*	*Not Applicable*
Call Control (CC) SCF	29.198-04-1 Common CC data definitions	29.198-04-2 Generic CC SCF	29.198-04-3 Multi-Party CC SCF	29.198-04-4 Multi-media CC SCF	29.198-04-5 Conf CC SCF	29.998-04-1	Generic Call Control – CAP mapping
						29.998-04-2	*Generic Call Control – 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 SCF					29.998-05-1	User Interaction – CAP mapping
						29.998-05-2	*User Interaction – INAP mapping*
						29.998-05-3	*User Interaction – Megaco mapping*
						29.998-05-4	User Interaction – SMS mapping
29.198-06	Mobility SCF					29.998-06-1	User Status and User Location – MAP mapping
						29.998-06-2	User Status and User Location – SIP mapping
29.198-07	Terminal Capabilities SCF					*29.998-07*	*Not Applicable*
29.198-08	Data Session Control SCF					29.998-08	Data Session Control – CAP mapping
29.198-09	*Generic Messaging SCF*					*29.998-09*	*Not Applicable*
29.198-10	Connectivity Manager SCF					*29.998-10*	*Not Applicable*
29.198-11	Account Management SCF					*29.998-11*	*Not Applicable*
29.198-12	Charging SCF					*29.998-12*	*Not Applicable*
29.198-13	Policy Management SCF					*29.998-13*	*Not Applicable*
29.198-14	Presence & Availability Management SCF					*29.998-14*	*Not Applicable*
29.198-15	Multi-media Messaging SCF					*29.998-15*	*Not Applicable*
29.198-16	Service Broker SCF					*29.998-16*	*Not Applicable*

The following table explains how the various releases of ETSI, Parlay and 3GPP OSA specifications correspond. Each ETSI and 3GPP specification carries a version number and is updated independently. The frequency of 3GPP updates may be up to every 3 months, which is greater than that of ETSI or Parlay, therefore, while there is a corresponding version of 3GPP TS 29.198 for every version of ETSI ES 201 915 or ES 202 915, there is not necessarily a corresponding version of the ETSI specification for each version of the 3GPP specification. For example, there is no ETSI/Parlay specification version which corresponds exactly to the 3GPP issue of TS 29.198 Release 4 from December 2001.

ETSI ES 201 915 / Parlay 3 / 3GPP TS 29.198 Release 4 (version 4.x.x)

ETSI OSA Specification Set	Parlay Phase	3GPP TS 29.198 version
-	-	Release 4, March 2001 Plenary
-	-	Release 4, June 2001 Plenary
ES 201 915 v.1.1.1 (complete release)	Parlay 3.0	Release 4, September 2001 Plenary
-	-	Release 4, December 2001 Plenary
ES 201 915 v.1.2.1 (complete release)	Parlay 3.1	Release 4, March 2002 Plenary
ES 201 915 v.1.3.1 (complete release)	Parlay 3.2	Release 4, June 2002 Plenary
-	-	Release 4, September 2002 Plenary
ES 201 915 v.1.4.1 (complete release)	Parlay 3.3	Release 4, March 2003 Plenary
-	-	Release 4, June 2003 Plenary
-	-	Release 4, December 2003 Plenary
-	-	Release 4, June 2004 Plenary
ES 201 915 v1.5.1 (Partial Release)	Parlay 3.4	Release 4, September 2004 Plenary
-	-	Release 4, December 2004 Plenary
-	-	Release 4, December 2005 Plenary
ES 201 915 v1.6.1 (Partial Release)	Parlay 3.5	Release 4, June 2006 Plenary

ETSI ES 202 915 / Parlay 4 / 3GPP TS 29.198 Release 5 (version 5.x.x)

ETSI OSA Specification Set	Parlay Phase	3GPP TS 29.198 version
-	-	Release 5, March 2002 Plenary
ES 202 915 v.1.1.1 (complete release)	Parlay 4.0	Release 5, September 2002 Plenary
ES 202 915 v.1.2.1 (not parts 9, 13, 14)	Parlay 4.1	Release 5, March 2003 Plenary
-	-	Release 5, June 2003 Plenary
-	-	Release 5, September 2003 Plenary
-	-	Release 5, December 2003 Plenary
-	-	Release 5, March 2004 Plenary
-	-	Release 5, June 2004 Plenary
ES 202 915 v1.3.1, (v1.2.1 for parts 9, 13, 14)	Parlay 4.2	Release 5, September 2004 Plenary
-	-	Release 5, December 2004 Plenary
-	-	Release 5, June 2005 Plenary
-	-	Release 5, December 2005 Plenary
ES 202 915 v1.4.1, (v1.3.1 for parts 9, 13)	Parlay 4.3	Release 5, June 2006 Plenary

ETSI ES 203 915 / Parlay 5 / 3GPP TS 29.198 Release 6 (version 6.x.x)

ETSI OSA Specification Set	Parlay Phase	3GPP TS 29.198 version
-	-	Release 6, June 2003 Plenary
-	-	Release 6, December 2003 Plenary
-	-	Release 6, June 2004 Plenary
ES 203 915 v1.1.1	Parlay 5.0	Release 6, September 2004 Plenary
-	-	Release 6, December 2004 Plenary
-	-	Release 6, March 2005 Plenary
-	-	Release 6, June 2005 Plenary
-	-	Release 6, December 2005 Plenary
ES 203 915 v1.2.1	Parlay 5.1	Release 6, June 2006 Plenary
-	-	Release 6, December 2006 Plenary
-	-	Release 6, March 2007 Plenary

ETSI ES 204 915 / Parlay 6 / 3GPP TS 29.198 Release 7 (version 7.x.x)

ETSI OSA Specification Set	Parlay Phase	3GPP TS 29.198 version
-	-	Release 7, June 2006 Plenary
-	-	Release 7, December 2006 Plenary
-	-	Release 7, March 2007 Plenary

1 Scope

The present document is the first part of the 3GPP Specification defining the Application Programming Interface (API) for Open Service Access (OSA), and provides an overview of the content and structure of the various parts of this specification, and of the relation to other standards documents.

The OSA-specifications define an architecture that enables service 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].

This specification has been defined jointly between 3GPP TSG CT WG5, ETSI TISPAN and The Parlay Group, in co-operation with a number of JAIN™ Community member companies.

Maintenance of up to 3GPP Rel-8 and new OSA Stage 1, 2 and 3 work beyond Rel-9 was moved to OMA in June 2008.

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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.127: "Service Requirement for the Open Service Access (OSA); Stage 1".

[3] 3GPP TS 23.198: "Open Service Access (OSA); Stage 2".

[4] Void.

[5] 3GPP TS 22.101: "Service Aspects; Service Principles".

[6] Void.

[7] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

[8] 3GPP TS 29.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 22.101 [5] and the following apply.

Applications: Services, which are designed using Service Capability Features (SCFs).

Gateway: Synonym for Service Capability Server (SCS). From the viewpoint of applications, an SCS can be seen as a gateway to the core network.