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**Odprti dostop do storitve (OSA) - Aplikacijski programski vmesnik (API) - 1. del:  
Pregled (Parlay 5)**

Open Service Access (OSA) - Application Programming Interface (API) - Part 1:  
Overview (Parlay 5)

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# ETSI ES 203 915-1 V1.3.1 (2008-04)

ETSI Standard

## Open Service Access (OSA); Application Programming Interface (API); Part 1: Overview (Parlay 5)



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## Reference

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## Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

The present document is part 1 of a multi-part deliverable covering Open Service Access (OSA); Application Programming Interface (API), as identified below. The API specification (ES 203 915) is structured in the following parts:

**Part 1: "Overview";**

Part 2: "Common Data Definitions";

Part 3: "Framework";

Part 4: "Call Control";

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";

Part 10: "Connectivity Manager SCF";

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".

The present document has been defined jointly between ETSI, The Parlay Group (<http://www.parlay.org>) and the 3GPP, in co-operation with a number of JAIN™ Community (<http://www.java.sun.com/products/jain>) member companies.

**The present document forms part of the Parlay 5.2 set of specifications.**

**The present document is equivalent to 3GPP TS 29.198-1 V6.5.0 (Release 6).**

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# 1 Scope

The present document is part 1 of the Stage 3 specification for an Application Programming Interface for Open Service Access (OSA), and provides an overview of the content and structure of the various parts of the present document, 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 standardized interface, i.e. the OSA APIs.

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The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

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<http://octopus.hit.bme.hu/tkatona/mirrors/WGS84/www.wgs84.com/files/wgsman24.pdf>
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- [74] ETSI ES 203 915-4-1: "Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control; Sub-part 1: Call Control Common Definitions (Parlay 5)".
- [75] ETSI ES 203 915-4-2: "Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control; Sub-part 2: Generic Call Control SCF (Parlay 5)".
- [76] ETSI ES 203 915-4-3: "Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control; Sub-part 3: Multi-Party Call Control SCF (Parlay 5)".
- [77] IEEE Std 1003.2 (POSIX 1003.2): "IEEE Standard for Information Technology-Portable Operating System Interface (POSIX®)-Part 2: Shell and Utilities".

## 2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Not applicable.

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in TS 122 101 [5] and the following apply:

**applications:** services, which are designed using service capability features

**gateway:** synonym for Service Capability Server

NOTE: From the viewpoint of applications, a Service Capability Server can be seen as a gateway to the core network.

**HE-VASP:** Home Environment Value Added Service Provider

NOTE: This is a VASP that has an agreement with the Home Environment to provide services.

**Home Environment (HE):** responsible for overall provision of services to users

**local service:** service which can be exclusively provided in the current serving network by a Value Added Service Provider

**OSA Interface:** standardized Interface used by application to access service capability features

**Personal Service Environment (PSE):** contains personalized information defining how subscribed services are provided and presented towards the user

NOTE: The Personal Service Environment is defined in terms of one or more User Profiles.

**Service Capabilities (SC):** bearers defined by parameters, and/or mechanisms needed to realize services

NOTE: These are within networks and under network control.

**Service Capability Feature (SCF):** functionality offered by service capabilities that are accessible via the standardized OSA interface

**Service Capability Server (SCS):** Functional Entity providing OSA interfaces towards an application

**service:** alternative for Service Capability Feature (in ES 203 915-1)

**user interface profile:** contains information to present the personalized user interface within the capabilities of the terminal and serving network

**user profile:** label identifying a combination of one user interface profile, and one user services profile

**user services profile:** contains identification of subscriber services, their status and reference to service preferences

**Value Added Service Provider (VASP):** provides services other than basic telecommunications service for which additional charges may be incurred

**Virtual Home Environment (VHE):** concept for personal service environment portability across network boundaries and between terminals

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations defined in TR 121 905 [1] and the following apply:

AoC	Advice of Charge
API	Application Programming Interface
ASP	Application Service Provider
CAMEL	Customized Application for Mobile network Enhanced Logic
CGI	Cell Global Identification
CI	Cell Identification

CIC	Carrier Identification Code
CIM	DMTF Common Information Model
CMS	Cryptographic Message Syntax
CNF	Conjunctive Normal Form
CSE	Camel Service Environment
DMTF	Distributed Management Task Force
DNF	Disjunctive Normal Form
FSM	Finite State Model
GCC	Generic Call Control
GCCS	Generic Call Control Service
GMS	Generic Messaging Service
GPS	Global Positioning System
GUIS	Generic User Interaction Service
HE	Home Environment
HE-VASP	Home Environment Value Added Service Provider
HPLMN	Home Public Land Mobile Network
IDL	Interface Description Language
IMEI	International Mobile station Equipment Identity
JSR	Java™ Specification Request
LAC	Location Area Code
LAI	Location Area Identification
LCS	LoCation Services
MAP	Mobile Application Part
MCC	Mobile Country Code
MEExE	Mobile station (application) Execution Environment
MMCC	Multi-Media Call Control
MNC	Mobile Network Code
MPCC	Multi-Party Call Control
MS	Mobile Station
MSC	Mobile Switching Centre
NA-ESRD	North American Emergency Services Routing Digits
NA-ESRK	North American Emergency Services Routing Key
OSA	Open Service Access
PAM	Presence and Availability Management
PCIM	Policy Core Information Model, as defined in RFCs 3060 and 3460
PLMN	Public Land Mobile Network
PM	Policy Management
PPA	Pre-Paid Application
PSE	Personal Service Environment
QoS	Quality of Service
RMI	Java™ Remote Method Invocation
SAG	Subscription Assignment Group
SAP	Service Access Point
SC	Service Capabilities
SCF	Service Capability Feature
SCS	Service Capability Server
SIM	Subscriber Identity Module
SMS	Short Message Service
SMTP	Simple Mail Transfer Protocol
SOAP	Simple Object Access Protocol
SPA	Service Provider API
STD	State Transition Diagrams
UI	User Interaction
ULE	User Location Emergency
UML	Unified Modelling Language
USSD	Unstructured Supplementary Service Data
VASP	Value Added Service Provider
VHE	Virtual Home Environment
VLR	Visited Location Register
VPLMN	Visited Public Land Mobile Network
WAP	Wireless Application Protocol
WSDL	Web Services Definition Language

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## 4 Open Service Access APIs

The OSA specifications define an architecture that enables service application developers to make use of network functionality through an open standardized interface, i.e. the OSA APIs. The network functionality is describes as Service Capability Features or Services (see note). The OSA Framework is a general component in support of Services (Service Capabilities) and Applications.

The OSA API is split into four types of interface classes, Service and Framework:

- Interface classes between the Applications and the Framework, that provide applications with basic mechanisms (e.g. Authentication) that enable them to make use of the service capabilities in the network.
- Interface classes between Applications and Service Capability Features (SCF), which are individual services that may be required by the client to enable the running of third party applications over the interface e.g. Messaging type service.
- Interface classes between the Framework and the Service Capability Features, that provide the mechanisms necessary for multi-vendorship.
- Interface classes between the Enterprise Operator and the Framework that provides the Enterprise Operator with basic mechanisms to allow them to administer client application accounts and to manage their service contracts and profiles.

These interfaces represent interfaces 1, 2, 3 and 4 of the figure 1. The other interfaces are not yet part of the scope of the work.

