

Technical Specification Group Services and System Aspects **TSGS#16(02)0314**

Meeting #16, Marco Island, USA, 10-13 June 2002

Source: TSG SA WG2
Title: CRs on 23.127
Agenda Item: 7.2.3

The following Change Requests (CRs) have been approved by TSG SA WG2 and are requested to be approved by TSG SA plenary #16.

Note: the source of all these CRs is now S2, even if the name of the originating company(ies) is still reflected on the cover page of all the attached CRs.

S2 Tdoc #	Spec	CR #	re v	Rel	Title	cat	V in	V out	WI
S2-021429	23.127	41	1	Rel-5	Removal of Mapping of Presence OSA APIs	F	5.1.0	5.2.0	OSA1
S2-021453	23.127	42	1	Rel-5	Proposal to remove the feature "Retrieval of visited network capabilities"	F	5.1.0	5.2.0	OSA1
S2-021452	23.127	43	1	Rel-5	Reduction of scope of OSA Rel5	F	5.1.0	5.2.0	OSA1

CHANGE REQUEST

⌘ **23.127 CR 41** ⌘ rev **1** ⌘ Current version: **5.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Removal of Mapping of Presence OSA APIs		
Source:	⌘ S2		
Work item code:	⌘ OSA1	Date:	⌘ 24 April 2002
Category:	⌘ F	Release:	⌘ REL-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ Presence Service has been decided by SA#15 to be moved from Rel5 to Rel6. However requirements on Presence related capability functions are retained in OSA stage 1 specification TS 22.127. Also OSA stage 3 work on the support of presence related capability functions has already been almost completed by CN5. Therefore VHE/OSA stage 2 specification must be aligned with OSA stage 1 and 3 specifications.
Summary of change:	⌘ Mapping of Presence OSA APIs to reference points Peu and Pw of the Presence Server (subclause 7.9.1) has been removed. Detailed information on the presence information has been removed. References [11] and [12] to the Presence Service stage 1 and stage 2 specifications have also been removed.
Consequences if not approved:	⌘ Misalignment between OSA specifications in Rel5.

Clauses affected:	⌘ 2.1, 7.9, 7.9.1		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘ 29.198	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

— **First modified section** —

2.1 Normative references

- [1] 3G TS 23.057: "Mobile Execution Environment (MExE); Functional description - Stage 2".
- [2] 3G TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) (Phase3); Functional description - Stage 2".
- [3] 3G TS 31.111: "USIM Application Toolkit (USAT)".
- [4] 3G TS 22.101: "Service Aspects; Service Principles".
- [5] 3G TS 22.121: "Service Aspects; The Virtual Home Environment".
- [6] 3G TR 21.905: "Vocabulary for 3GPP Specifications".
- [7] 3G TS 22.127: "Service Aspects; Stage 1 Service Requirement for the Open Service Access (OSA)".
- [8] 3G TS 23.228: "IP Multimedia Subsystem (IMS) Stage 2".
- [9] 3G TS 22.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); Service description, Stage 1".
- [10] 3G TS 23.218: "IP Multimedia (IM) Session Handling; IP Multimedia (IM) call model".
- [11] ~~void3G-TS-22.141: "Presence Service; Stage 1".~~
- [12] ~~void3G-TR-23.841: "Presence Service; Architecture and Functional Description".~~
- [13] 3G TS 23.271: "Functional stage 2 description of LCS".

— **Second modified section** —

7.9 Presence

The Presence SCF addresses stage 1 requirements on presence related capability functions.

OSA shall allow an application access to presence capabilities within the network. Presence related information may be requested or supplied by an OSA application and may include, but not be limited to presence information pertaining to the presence service or user availability. ~~Presence information, i.e. a set of attributes characterising current properties of a presentity, is described in TS 22.141 [11].~~

An OSA application shall be able:

- to register as a watcher, to request a presentity's presence information and to be notified of changes in the presence information.
- to register as a presentity, to publish presence information, to retrieve watcher information and to manage related parameters (e.g. access rules). Presence management may include the setting of user preferences, the update of access rules...etc.

~~7.9.1 Mapping of OSA APIs~~

~~The Presence OSA APIs can be mapped to reference points *Peu* and *Pw* of the Presence Server.~~

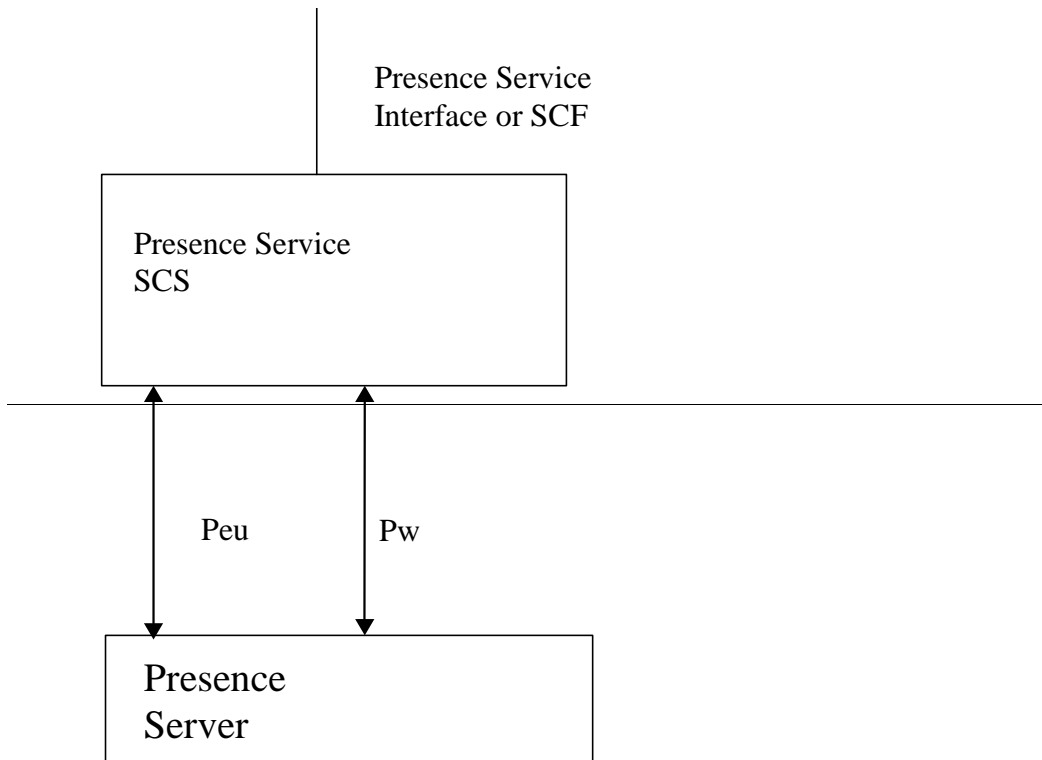


Figure 7: Mapping of OSA Presence APIs

Reference points *Peu* (i.e. between a User Agent and the Presence Server) and *Pw* (i.e. between watcher applications and the Presence Server) are described in TR-23.841 [12].

— End of document —

CHANGE REQUEST

⌘ **23.127 CR 42** ⌘ rev **1** ⌘ Current version: **5.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Proposal to remove the feature "Retrieval of Visited Network capability"		
Source:	⌘ S2		
Work item code:	⌘ OSA1	Date:	⌘ 24 th April 2002
Category:	⌘ F	Release:	⌘ REL-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change: ⌘ In a review of the work plan for Release 5 during CN#15, the report from CN5 indicated a significant delay in certain requirements. A companion contribution, viable in S2-020143, proposes a reduction of the scope of OSA, based on an informal agreement during the SA1 OSA SWG held on the 11th April 2002. During this meeting, some reservations were expressed about the deletion of the feature "Retrieval of Visited Network Information". Lucent Technologies still believe that the work in CN5 on this feature is inadequate and would propose that it should be removed to allow CN5 to focus on the completion a reduced feature set with a higher degree of completeness.

This CR removes the stage 2 descriptions of the features that are planned for removal in Stage 1 (as indicated by the change to TS 22.127CR number 45).

Summary of change: ⌘ Removal of the sub-clause relating to "Network Capabilities"

Consequences if not approved: ⌘ Delay in the release of the OSA API, together with potential errors due to the insufficient time required to verify the interface. This may lead to a lack of confidence in the stability of the APIs which would inhibit the uptake of OSA within the service provider community.

Clauses affected: ⌘ 7.11

Other specs affected: ⌘ Other core specifications ⌘ TS 22.127 (CR-45)
 Test specifications
 O&M Specifications

Other comments: ⌘ It is expected that this feature be re-introduced in Release 6.

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First Modified Section

7.11 Network Capabilities

The Network Capabilities SCF addresses stage 1 requirements for retrieval of network capabilities based on network-related information.

This SCF is used by the applications to retrieve the capabilities of the visited network where the user is roaming at a certain moment. The range of capabilities required by an application may consist of some of the following data:

- Domains supported in the serving network (CS, PS, IMS)
- In case of domain not supported, the reason:
 - domain not available in the network
 - barring of roaming imposed by the operator
 - roaming restriction in the area, imposed by the operator
 - barring of roaming imposed by the user
 - Other reasons (for extensibility purposes)
- CAMEL phase supported

End of Document

CHANGE REQUEST

⌘ **23.127 CR 43** ⌘ rev **1** ⌘ Current version: **5.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Reductions of scope of OSA Release 5		
Source:	⌘ S2		
Work item code:	⌘ OSA1	Date:	⌘ 24 th April 2002
Category:	⌘ F	Release:	⌘ REL-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change: ⌘ In a review of the work plan for Release 5 during CN#15, the report from CN5 indicated a significant delay in certain requirements. This was confirmed during the recent SA1 OSA SWG meeting held on the 11th April, which CN5 was invited to attend. In order to allow CN5 to focus on completing work items it proposed that OSA features should be deleted. An informal agreement was reached during the SA1 OSA SWG, but this still requires official approval at the SA1 Plenary scheduled for May 13th.
 This CR removes the stage 2 descriptions of the features that are planned for removal in Stage 1 (as indicated by the change in to 22.127CR number 44).

Summary of change: ⌘ Removal of the descriptions that relate to the following :

- Information Services
- User Data Management
- Journaling

The definition of local services has been removed as an editorial correction since it is not used in the document. As a result of this, there are no further citations to reference 6 (3GPP vocabulary) and as a result this reference is removed.

Consequences if not approved: ⌘ Delay in the release of the OSA API, together with potential errors due to the insufficient time required verify the interface. This may lead to a lack of confidence in the stability of the APIs which would inhibit the uptake of OSA within the service provider community.

Clauses affected: ⌘ 3.1, 4.1.1, 6.4, 7.6, 7.10

Other specs affected: ⌘ Other core specifications ⌘ TS 22.127(CR-44)
 Test specifications
 O&M Specifications

Other comments: ⌘ It is expected that these features be re-introduced in Release 6 after a closer re-evaluation of the service drivers.



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First Modified Section

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- [5] 3G TS 22.121: "Service Aspects; The Virtual Home Environment".
- [6] [3G TR 21.905: "Vocabulary for 3GPP Specifications"-void](#)
- [7] 3G TS 22.127: "Service Aspects; Stage 1 Service Requirement for the Open Service Access (OSA)".
- [8] 3G TS 23.228: "IP Multimedia Subsystem (IMS) Stage 2".
- [9] 3G TS 22.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); Service description, Stage 1".
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- [11] 3G TS 22.141: "Presence Service; Stage 1".
- [12] 3G TR 23.841: "Presence Service; Architecture and Functional Description".
- [13] 3G TS 23.271: "Functional stage 2 description of LCS".

First Modified Section

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and given in 3G TS 22.101 and 3G TR 22.905 and the following definitions apply:

Applications: software components providing services to end-users by utilising service capability features.

Home Environment: responsible for overall provision of services to users.

Home Environment Value Added Service Provider: see [5].

Interface: listing and semantics of the methods and attributes provided by an object that belongs to a Service Capability Feature.

Local Service: See [6].

OSA API: standardised API used by applications to access service capability features.

OSA Internal API: standardised API between framework and service capability servers.

Personal Service Environment: contains personalised 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: See [7].

Service Capability Feature: See [7].

Service Capability Server: Functional Entity providing OSA interfaces towards an application.

Services: See [5].

User Profile: See [5].

User Services Profile: See [5].

Value Added Service Provider: See [5].

Virtual Home Environment: See [5].

Next Modified Section

4 Virtual Home Environment

The Virtual Home Environment (VHE) is an important portability concept of the 3G mobile systems. It enables end users to bring with them their personal service environment whilst roaming between networks, and also being independent of terminal used.

The Personal Service Environment (PSE) describes how the user wishes to manage and interact with her communication services. It is a combination of a list of subscribed to services, service preferences and terminal interface preferences. PSE also encompasses the user management of multiple subscriptions, e.g. business and private, multiple terminal types and location preferences. The PSE is defined in terms of one or more User Profiles.

Please see TS 22.121 [5] for more details.

4.1 Personal Service Environment

4.1.1 User ProfileVoid

Editor's Note: Pending input from SA1 on Generic User Profile requirements.

Next Modified Section

6.4 — Journaling

Applications, that use OSA, may perform actions in the network that might cause costs or potentially undesired effects to the user or operator. There shall be an interface for the OSA Framework to request and receive journaling information from the applications using some OSA SCS. Furthermore an interface shall be defined between the Framework and an application which collects and stores the journaling information.

Next Modified Section

7.6 — User Profile Management

User Profile information may be distributed between the Home Environment and the Home Environment Value Added Services Providers. The HE-VASP may manage information specific to the services supported by their OSA applications. For this, they may use models and mechanisms, which are out of the scope of OSA release 5.

Home Environment User Profile information consists of various user interface and service related information. Of particular interest in the context of release 5 is the following information:

- list of services to which the end-user is subscribed;
- service status (active/inactive);
- privacy status with regards to network service capabilities (e.g. user location, user interaction);
- terminal capabilities.

Home Environment user profile information may be stored centrally, or the information may be distributed over relevant physical entities.

Terminal capabilities may be accessed by OSA applications through the network Terminal Capabilities SCF.

Last Modified Section

7.10 — Information Services

The Information Services SCF enable applications to supply information that is available for later retrieval from applications as determined by the Home Environment. The OSA applications are able to supply and update information, and to retrieve information.

Editor's note: Architectural aspects may include storage and access to the information for sharing between OSA applications and associated OSA SCS.