3GPP TSG CN Plenary Meeting #27 **NP-050023**
09-11 March 2005, Tokyo, JAPAN

Source:	**CN5 (OSA)**
Title:	**Rel-7 SA1 Draft WID and CR 22.127 (OSA Stage 1) to go for SA March 2005 Approval – for CN Information & endorsement of the WID**
Agenda item:	**10.1 (OSA Enhancements [OSA4])**
Document for:	**APPROVAL**

TSG-SA WG1 #27
Cape Town, South Africa, 17th to 21st January 2005

Document	Title	Source	Result
S1-050248	Rel 7 WI 22.217 Add Service Broker Requirement	Orange	Agreed to be sent to SA for approval
S1-050249	Rel 7 CR 22.217 Add Service Broker Requirement	AePONA, Orange	Agreed to be sent to SA for approval

TSG-SA WG1 #27 **S1-050248**
Cape Town, South Africa, 17th to 21st January 2005 **Agenda Item:**

Title: Feature-level WID for Rel-7 OSA enhancements

Source: AePONA, Orange, Incomit, Alcatel, IBM

Contact: eamonn.murray@aepona.com, christian.nord@orange.co.uk

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Work Item Description

Title: **Rel-7 OSA enhancements**

Acronym: **OSA7**

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

None

3 Justification

The work item describes NEW requirement(s) on the Open Service Access to offer opportunities for the creation and delivery of value added services by third parties.

4 Objective

The objective of this work item is to add new functionality to the OSA interface of previous 3GPP releases.

5 Service Aspects

The OSA Release 7 API shall support the following function(s):

- **service broker function** support that enables the delivery of multiple services in the network of an operator in a managed and controlled fashion, providing an API that supports functionality including Service Selection, Service Provisioning, Feature Interaction and Service Chaining.

6 MMI-Aspects

None identified

7 Charging Aspects

None identified

8 Security Aspects

None identified

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No			X		
Don't know	X	X			X

10 Expected Output and Time scale (to be updated at each plenary)

The results of this Work Item shall be provided in new or updated a Technical Specifications (stage 1, stage 2 and 3). The work shall be aligned as far as possible with other bodies, such as Parlay, ETSI TISPAN, 3GPP2 and OMA.

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS 22.127		Add requirement for OSA Service Broker		SA1: Stage 1 Service Requirement for OSA
TS 23.198		Add **service broker function**		CN5: Stage 2 OSA Architecture;
TS 29.198-n (n= based on stage 2 work)		Add **service broker function**		CN5: Open Service Access; API
TS 29.199-n (n= based on stage 2 work)		Add **service broker function**		CN5: OSA ; Parlay-X Web Services
TR 29.998-n (n= based on stage 2 work)		Add **service broker function**		CN5: OSA; Mapping for OSA

11 Work item rapporteur(s)

Eamonn Murray, AePONA (eamonn.murray@aepona.com)

12 Work item leadership

SA1 (Stage 1) having primary responsibility;
plus
CN5 (Stage 2 and 3) having secondary responsibility

13 Supporting Companies

AePONA, Orange, Incomit, Alcatel, IBM, BT, Telcordia

14 Classification of the WI (if known)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

OSA Stage 2 and 3 (under CN5 responsibility)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

TSG-SA WG1 #27 **S1-050249**
Cape Town, South Africa, 17th to 21st January 2005 **Agenda Item:**

CR-Form-v7.1

CHANGE REQUEST

⌘ **22.127** **CR** **076** ⌘**rev** **-** ⌘ Current version: **6.7.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Add requirement for OSA Service Broker
Source:	⌘	Orange, Alcatel, AePONA
Work item code:	⌘	OSA4
Date:	⌘	19/01/2004
Category:	⌘	**B**
Release:	⌘	Rel-7

Use one 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 one of the following releases:
Ph2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*
Rel-7 *(Release 7)*

Reason for change:	⌘	Service brokering is a term used to encapsulate the functions of service selection, service provisioning, feature or service interaction and service chaining. The OSA APIs provide a suite of APIs that address many of the functional and operational aspects of enabling service delivery through open standardised specifications. However there are no defined mechanisms or semantics that address the full scope of service brokering, in particular selection and provisioning for multi service usage requireing service interaction and service chaining. The functions of service brokering apply equally to legacy circuit switched environments and next generation IMS, and it is therefore necessary to introduce an OSA requirement for Service brokering that will allow a suitable solution for service brokering consistent with the OSA and broader 3GPP architecure and specifications to be provided.
Summary of change:	⌘	Introduce a new section outlining the service brokering requirement.
Consequences if not approved:	⌘	The OSA APIs will remain limited to a restricted set of the functions necessary to succesfuly deliver and deploy services. In particular the absence of a suitable service brokering solution may result in the inability to successfully co-deploy OSA with legacy and future next generation IMS services in the absence of proprietary technology solutions.

Clauses affected:	⌘	New Clause introduced

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	29.198
			X	Test specifications		
			X	O&M Specifications		

Other comments:	⌘	This requirement has been agreed for Parlay (Release 6) and ETSI (OSA 4) versions of the OSA specifications, and as such a technical solution shall be produced through contributions and consensus reached in the joint specification workgroup, CN5. Including this requirement in 3GPP Release 7 shall maintain consistency between the 3GPP version of the specifications and the other published versions.

12 Service Brokering Function

OSA Service Brokering support requires API level capabilities like Service Selection, Service Provisioning, Feature Interaction and Service Chaining. The concept of Service brokering in this context is the ability to package, provision and supply a set of applications or services onwards to the application server implementing the business logic that requires the use of such a service broker functionality.

Service broker function shall enable the delivery of multiple services in an operator network in a managed and controlled fashion. Therefore whenever an event occurs, there is a need to ensure that the set of applications or services that may act upon that event are invoked in a manner that does not conflict with any other application or service defined in the provisioned package of applications or services.

OSA Service Brokering API should be capable of supporting the following features;

- Provisioning and Management of all data necessary to support OSA service brokering
- Evaluation of OSA service brokering data to control execution of service scenarios
- Be transparent of OSA service brokering location, including support for network service brokering, OSA SCS service brokering and OSA application service brokering.

Note:

Examples where a OSA service brokering solution may apply include:

- A network event such as a call trigger may result in the need to resolve conflicts between different services and service delivery platforms.
- A OSA SCS may receive or generate an event that requires the use of further OSA SCSs, for example Policy Management, Charging etc., transparent to the application using the SCS.
- A OSA SCS may generate an event that may result in the need to resolve conflicts between multiple OSA applications.