Technical Specification Group Services and System Aspects

Meeting #22, Maui, Hawaii, USA, 15-18 December 2003

Source:	Alcatel, Ericsson, Lucent Technologies	
Title:	CR to 22.127 on High Availability requirement for OSA (Rel-6) – Proposed changes to coversheet	
Document for:	Approval	
Agenda Item:	7.1.3	

		CR-Form-v7	
CHANGE REQUEST			
ж	22.127 CR 070 #rev 1- [#]	Current version: 6.4.0 [#]	
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the \Re symbols.			
Proposed change affects: UICC apps ME Radio Access Network Core Network			
Title: ೫	High Availability requirement for OSA		
Source: ೫	SA1 (3, KPN, TIM, Ericsson)		
Work item code: ೫	OSA3	Date:	
Category: Ж	E B Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier releases B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u> .	Release: # Rel-6 Use one of the following releases: 2 (GSM Phase 2) 3 se) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)	
Reason for change	* # The support for High Availability in-OSA is of increasing the availability of applications by capability to inform the network that both pri- application exist and the means to commun- reflected in sthe stage 1 and in the stage 3 to of the available OSA features, e.g., Call Con- confirm the need for this capability to be available features. The absence of a fully defined high requires vendor specific solutions for realizing geographical redundancy. These vendor spe- independent nor interoperable in a multi-ven-	providing the application with the imary and backup versions of the icate with them. This is currently not this may be limited to a small subset ntrol. The purpose of this CR is to ailable across all of the OSA n availability approach for OSA ng high availability including pecific solutions are neither technology	
Summary of chang Consequences if not approved:	nces if # Currently, OSA only provides High Availability support for a small subset of the		
Clauses affected:	쁐 <mark>6</mark>		
Other specs Affected:		2 23.127, CN5 29.198-xy (To be omitted at a later TSG meeting)	
Other comments:	策 This CR is a revision of S1-031232.		

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 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.

Change in Clause 6

6 High level requirements to OSA

The following high level requirements apply to the OSA application programming interface (API). The standardised API shall be:

- independent of vendor specific solutions;
- independent of programming languages, operating systems, underlying communication technologies, etc. used in the service capabilities;
- secure, scalable and extensible;
- independent of the location where service capabilities are implemented;
- independent of supported server capabilities in the network;
- independent of the transport mechanism between the service capability features server and the application server;
- It shall be possible for an OSA application to continue operation in case of a consecutive upgrade of the underlying OSA capabilities. This ability to operate may be limited to a specific time period which is managed by the network operator.
- Access to Service Capability Features shall be realised using modern state of the art access technologies, e.g. distributed object oriented technique and Web Services technologies might be considered.;
- OSA shall be aligned as far as possible with equivalent work in other bodies, such as ETSI SPAN, Parlay and JAIN;
- OSA shall allow applications access to home network service capability features. Access to Service capability features in another network shall be possible.;
- When access to Service capability features in another network or administrative domain exists, the following requirements apply:
 - The application shall not be aware that the SCF is in another network
 - The SCF shall not need to support additional functionality in order to be accessed from a different network
 - The network providing the SCF shall be able to control the visibility and usage of the SCF by another network.
- It is not required that network entities, which provide the implementation of OSA interfaces (SCFs), be mappable to 3GPP standardised functionality, nor that the existence of a standardised interface / protocol to communicate with 3GPP standardized network elements is required. Thus it is permissible to e.g. build a OSA API function into a WAP gateway to retrieve terminal capabilities from terminal supporting the WAP protocol.
- Note: If the network entity, to which OSA provides an API interface, is a 3GPP standardised entity and if a standardised interface / protocol to communicate with that network entity exists it is recommended that 3GPP defines a mapping of the OSA API functions to that interface / protocol.

OSA shall allow Service Capability Features to communicate with backup instances of an application in the case where the primary application instance is not responding. This shall be possible also when the primary and backup instances of the application are physically located in different locations.

End of Change in Clause 6 End of Document