
Source: SA1
Title: CR to 22.127 to Introduce High Availability requirement for OSA (Rel-6)
Document for: Approval
Agenda Item: 7.1.3

Meet	Doc. No.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	Doc. SA1
SP-22	SP-030703	22.127	069	-	Rel-6	F	Introduce High Availability requirement for OSA	6.3.0	6.4.0	S1-031232

- 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.

In addition, OSA shall support high availability between OSA entities (i.e. Service Capability Features, Framework and Applications) including geographical redundancy. This means that in the event of failure or planned outage, communications between OSA entities can be restored with minimal disruption and minimal manual intervention, independent from the physical location of the OSA entities involved;

**End of Change in Clause 6
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