

Source: SA1
Title: CR to 22.129-020r1 on Release 5 IMS Service Continuity Requirements
Document for: Approval
Agenda Item: 7.1.3

Doc-1st-Level	Spec	CR	Rev	Phase	Cat	Subject	Vers	Vers New	Doc-2nd-Level
SP-010434	22.129	020	1	Rel-5	B	Release 5 IMS Service Continuity Requirements	4.3.0	5.0.0	S1-010859

CHANGE REQUEST

⌘ **22.129 CR 020** ⌘ ev **1** ⌘ Current version: **4.3.0** ⌘

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:	⌘	Release 5 IMS Service Continuity Requirements	
Source:	⌘	SA1	
Work item code:	⌘	IMS	Date: ⌘ 13 July 2001
Category:	⌘	B	Release: ⌘ REL-5
		<i>Use <u>one</u> of the following categories:</i> 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 .	<i>Use <u>one</u> of the following releases:</i> 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:	⌘	Inclusion of IMS Service Continuity requirements for Release 5	
Summary of change:	⌘	IMS Service Continuity Scenarios and Requirements added.	
Consequences if not approved:	⌘		

Clauses affected:	⌘	4	
Other specs affected:	⌘	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘	This CR is based on text previously-agreed in SA1 as capturing the operator requirements, but at that point in time SA1 could not agree which requirements to include in which Release.	

4 General Principles governing service continuity

This section describes the general principles for service continuity within the UTRAN, within the GERAN and between the UTRAN and other radio systems such as GERAN. As a principle, the requirements on service continuity characteristics should be according to the target network on which the service is maintained.

4.1 Service Continuity Scenarios

Service continuity shall support the following scenarios:

1. ~~1.~~ Continuity of active CS services when moving within UTRAN, within GERAN and between UTRAN and GERAN coverage areas.
2. ~~2.~~ Continuity of active GPRS sessions when moving within UTRAN, within GERAN and between UTRAN and GERAN coverage areas.
3. Continuity of active IM Services when moving within UTRAN, within GERAN and between UTRAN and GERAN coverage areas (that support those IM services).

Service continuity is not applicable for any call or session using resources specific to the source domain that cannot be maintained using resources in the target domain.

4.2 Service Continuity requirements

For all scenarios, the specifications shall cover both service continuity within the same PLMN (intra-PLMN) and between PLMNs (inter-PLMN) including the case where the PLMNs involved are operated by different network operators.

4.2.1 Service continuity for CS

The scenario numbers in this table refer to the scenarios in section 4.1.

		To CS services	
		UTRAN	GERAN
From CS services	UTRAN	Yes - Scenario 1	Yes - Scenario 1
	GERAN	Yes – Scenario 1	Yes – Scenario 1

4.2.2 Service continuity for GPRS

Service continuity of GPRS sessions (conversation, streaming, interactive and background) is required within the GERAN, within the UTRAN, and between the UTRAN and GERAN (scenario 2 in section 4.1 above).

Note: Service continuity for conversational, streaming and interactive GPRS sessions is not applicable to and from GERAN Release ~~994~~ or earlier, due to the lack of support for the conversational, streaming and interactive GPRS within GERAN Release ~~994~~ or earlier. In these cases ~~of continuity to GERAN R99~~, although the QoS required may not be available in the target, the bearer shall be maintained as long as possible. If the QoS supported by GERAN ~~R99~~ is not acceptable, the user/application may terminate the session.

4.2.3 Service continuity for IM Services

Service continuity of IM services is required within the GERAN, within the UTRAN, and between the UTRAN and GERAN (scenario 3 in section 4.1 above).

Note: Service continuity of IM Services is not applicable to and from GERAN Release 4 or earlier as the IM Services service classes are not supported by GERAN Release 4 or earlier. In these cases, although the QoS required may not be available in the target, the bearer shall be maintained as long as possible. If the QoS supported by GERAN is not acceptable, the user/application may terminate the session.

4.3 General Operational Considerations

4.3.1 Coverage environment