

Source: SA1
Title: CRs to 22.101 to include Voice Call Continuity requirements (Rel-7)
Document for: Approval
Agenda Item: 7.1.3

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	Vers New	SA1 Doc
SP-28	SP-050225	22.101	164	-	Rel-7	B	Voice Call Continuity requirements	7.1.0	7.2.0	S1-050581

CR-Form-v7

CHANGE REQUEST

⌘ **22.101 CR 164** ⌘ rev **-** ⌘ Current version: **7.1.0** ⌘

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

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

Title:	⌘ Voice call continuity requirements		
Source:	⌘ SA1		
Work item code:	⌘ VCC	Date:	⌘ 02/05/2005
Category:	⌘ B		Release: ⌘ Rel-7
Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:	
F (correction)		2 (GSM Phase 2)	
A (corresponds to a correction in an earlier release)		R96 (Release 1996)	
B (addition of feature),		R97 (Release 1997)	
C (functional modification of feature)		R98 (Release 1998)	
D (editorial modification)		R99 (Release 1999)	
Detailed explanations of the above categories can		Rel-4 (Release 4)	
be found in 3GPP TR 21.900 .		Rel-5 (Release 5)	
		Rel-6 (Release 6)	

Reason for change:	⌘ Work is ongoing on the architecture to support a function known as 'voice call continuity' as described within the WID approved in SP-050177. No service requirements exist for this functionality within the 3GPP specifications. Specification of service requirements is needed to ensure the specification of the architecture and protocol enhancements provide a functionality that satisfies the needs of the mobile telecommunications industry, in particular to ensure that the specified functionality satisfies the requirements of mobile network operators. Also, 3GPP working practices usually require the specification of service requirements for a particular functionality before its technical implementation is specified.
Summary of change:	⌘ Addition of requirements for voice call continuity.
Consequences if not approved:	⌘ No service requirements for voice call continuity will exist within 3GPP specifications preventing the specification of its technical realisation within 3GPP.

Clauses affected:	⌘ A new section is added for Voice Call Continuity.										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ To be determined by the appropriate 3GPP TSG WG.
Y	N										
X											
	X										
	X										
Other comments:	⌘ New section should be added immediately following section 18.										

1st Modified Section

x Voice Call Continuity

The 3GPP system shall be able to provide continuity between CS voice services (Teleservice 11[14]) and IMS voice services [27] with no negative impact upon the user's experience of the voice service. This functionality is known as voice call continuity. Voice call continuity shall be executed when continuation of a voice service is required based on operator policy across a change in the connection of the UE to the 3GPP system as the user moves from using the CS domain to using IMS and vice versa.

The user experience shall be unaffected by the transition from a CS voice service to an IMS voice service and vice versa, and the user shall experience no disruption in the voice service provided.

It shall be possible to support Voice call continuity between IMS and the CS domain belonging to different operators: i.e., when the user's IMS services are under the control of the home IMS and the user is roaming in the coverage of the visited CS network.

x.1 Support of Supplementary Services

The minimum set of supplementary services which are available to the user shall continue to work during and after voice call continuity has been performed.

Note: The support of specific supplementary services (e.g. a minimum set of supplementary services for voice call continuity) and the detailed definition of supplementary services within IMS is under consideration.

x.2 Quality of Service

Voice call continuity shall not adversely impact the quality of the voice service experienced by the user.

x.3 Security

Voice call continuity shall not adversely impact the security of the 3GPP system.

Security mechanisms of the 3GPP system shall be reused for voice call continuity.

x.4 Emergency calls

Voice call continuity of emergency calls shall only be performed in the case that the target network supports emergency calls and the user is moving out of coverage.

End of changes