# Technical Specification Group Services and System Aspects \*\*Meeting #25, Palm Springs, USA\*\* \*\*TSGS#25(04)0522\*\* \*\*TSGS#25(04)052\*\* \*\*TSGS#25(04)052\*\*

Source: TSG SA WG2

Title: CRs on 23.221 (Architecture Requirements)

Agenda Item: 7.2.3

The following Change Requests have been approved by TSG SA WG2 and are requested to be approved by TSG SA plenary #25.

S2 doc #	Title	Spec	CR#	cat	Versi on in	Rel	WI	S2 meeting	Clauses affected
S2-042695	Referencing TR 23.981	23.221	050	F	5.10. 0	5	IPv4IM S	S2 #41	2, 5.1

#### 3GPP TSG-SA WG2 Meeting #41 Montreal, Canada, 16-20 August 2004

CHANGE REQUEST									
<b></b>	23.221	CR	050	жrev	<b>-</b> [#	C C	urrent vers	5.1	<b>0.0</b>
For <u>HELP</u> on us	sing this fo	rm, see bo	ottom of th	nis page or	look at	the p	oop-up text	over the	₭ symbols.
Proposed change a	affects:	UICC app	s <mark>#</mark>	ME X	Radio	Acc	ess Networ	·k Co	re Network X
Title: ♯	Referenc	ing TR 23	.981						
Source:	SA2 (Sie	mens)							
Work item code: ₩	IPv4IMS						Date: ♯	11/08/2	004
Category: 黑	A (co releas B (ad C (fu D (ed	rrection) presponds plaining dition of feactional modifications planations	to a correctature), odification of the above	etion in an ea		F	2 R96 R97 R98		(1996) (1997) (1998) (1999) (1)
Reason for change		24 asked renced from			rsion of	TR 2	23.981, so t	hat it coul	d be
Summary of chang				nes and rec MS impler			ons in TR 2	3.981 sho	ould be
Consequences if not approved:	₩ Insu	fficient gui	idance for	· IPv4 base	ed IMS i	mple	mentations		
Clauses affected:	<b>≋</b> 2, 5.	1							
Other specs affected:	æ X	Test spe	ore specifi ecification pecificatio	S	<b></b>				
Other comments:	assu		a Rel-5 ve				version of available, i.		1. It is 2 against TR

#### **How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked  $\mathbb R$  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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

## \*\*\* FIRST CHANGE\*\*\*

## 2 References

[21]

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]	3GPP TS 23.002: "Network Architecture".			
[2]	3GPP TS 23.060: "General Packet Radio Service (GPRS) Service description; Stage 2".			
[3]	3GPP TS 23.012: ì Location management proceduresî			
[5]	3GPP TS 25.331: ì Radio Resource Control (RRC) Protocol Specificationî			
[6]	3G TS 25.301: ì Radio interface protocol architectureî			
[7]	3G TS 25.303: ì UE functions and inter-layer procedures in connected modeî			
[8]	3GPP TR 21.905: "3G Vocabulary".			
[9]	3GPP TS 25.413: ì UTRAN Iu interface RANAP signallingî			
[10]	3GPP TS 25.410: ì UTRAN Iu Interface: General Aspects and Principlesî			
[11]	3G TS 23.228 ì IP Multimedia Subsystem ñ Stage 2î			
[12]	3G TS 43.051 ì GERAN Overall Descriptionî			
[13]	3G TS 23.153 ,"Out of Band Transcoder Control - Stage 2".			
[14]	3G TS 23.205, ì Bearer Independent CS Core Network ñ Stage 2î			
[15]	3G TR 25.931: ì UTRAN Functions, examples on signalling proceduresî			
[16]	RFC2766 "Network Address Translation - Protocol Translation (NAT-PT)", G. Tsirtsis, P. Srisuresh. February 2000.			
[17]	RFC2893 î Transition Mechanisms for IPv6 Hosts and Routersî , R. Gilligan, E. Nordmark, August 2000.			
[17a]	RFC 3041: "Privacy Extensions for Stateless Address Autoconfiguration in IPv6", T. Narten, R. Daves, January 2001.			
[18]	3G TS 25.401 î UTRAN Overall Descriptionî			
[19]	3G TS 25.304: "UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode"			
[20]	3G TS 45.008: "Radio subsystem link control"			

RFC3316 î IPv6 for Some Second and Third Generation Cellular Hostsî, June 2002

<b>–</b> [22]	3GPP TS 24.007: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface signalling layer 3 General aspects".
[23]	3G TS 24.229 ì IP Multimedia Call Control Protocol based on SIP and SDPî
[24]	3G TR 23.981 "Interworking aspects and migration scenarios for IPv4 based IMS implementations"

### \*\*\* NEXT CHANGE\*\*\*

## 5 IP addressing

## 5.1 IP version issues

The UMTS/GSM architecture shall support IPv4 / IPv6 based on the statements below.

- IP transport between network elements of the IP Connectivity services (between RNC, SGSN and GGSN) and IP transport for the CS Domain: both IPv4 and IPv6 are options for IP Connectivity
- IM CN subsystem elements (UE to CSCF and the other elements e.g. MRF):
  - The architecture shall make optimum use of IPv6.
  - 3GPP specifications design the IM CN subsystem elements and interfaces to exclusively support IPv6. However, early IMS implementations and deployments may use IPv4; if IPv4 is used, the guidelines and recommendations in TR 23.981 [24] should be followed.guidelines for interworking and migration are not part of this release of specifications.
  - 3GPP specifications design the UE to exclusively support IPv6 for the connection to the IM CN subsystem. The UE shall support IPv6 for the connection to the IM CN subsystem. However, UEs may in addition support IPv4 which allows for the connection to early IM CN subsystem implementations that use IPv4 only; in this case the guidelines and recommendations in TR 23.981 [24] should be followed.guidelines for interworking and migration are not part of this release of specifications.
- Access to existing data services (Intranet, Internet,Ö):
- The UE can access IPv4 and IPv6 based services.