3GPP TSG CN Plenary Meeting #12
Stockholm, Sweden, 13th - 15th June 2001

Tdoc NP-010285

Source: TSG CN WG4

Title: CRs on Rel-4 Work Item SS7IP

Agenda item: 8.13

Document for: APPROVAL

Introduction:

This document contains 1 CR on Rel-4 Work Item "SS7IP", that have been agreed by TSG CN WG4, and are forwarded to TSG CN Plenary meeting #12 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.205	001	1	N4-010706	Rel-4	Changes to provide interworking between signalling transport	F	4.0.0

CR-Form-v3

CHANGE REQUEST

⌘   **29.205 CR 001**   ⌘ rev **1** ⌘   Current version: **4.0.0** ⌘

*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: ⌘	Changes to provide interworking between signalling tansport	
Source: ⌘	CN4	
Work item code: ⌘	SS7IP	*Date:* ⌘ 16/05/08
Category: ⌘ **F**		*Release:* ⌘ REL-4

Use *one* of the following categories:
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.

Use *one* of the following releases:
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: ⌘	The signalling transport for BICC and 3GPP application of H.248 are defined for a pure ATM environment and pure IP environment. However interworking is not defined
Summary of change: ⌘	The CR proposes to add M3UA on top of SCTP in the IP environment for the interworking case
Consequences if not approved: ⌘	Interworking is not possible

Clauses affected: ⌘	
Other specs affected: ⌘	**X** Other core specifications ⌘ 29.232 CR 004
	☐ Test specifications
	☐ O&M Specifications
Other comments: ⌘	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. 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 ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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 Modified Section ****

2   References

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 23.205: "Bearer Independent CS Core Network – Stage 2"

[2]   3GPP TS 23153 "Out of Band Transcoder Control - Stage 2"

[3]   3GPP TS 29.232 "Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3"

[4]   3GGP TS 29.414 "Core Network Nb Data Transport and Signalling Transport"

[5]   ITU-T Q.765.5: "Application Transport Mechanism"

[6]   ITU-T Q.1902.1: "Bearer Independent Call Control CS2 Functional Description"

[7]   ITU-T Q.1902.2: "Bearer Independent Call Control CS2 General Functions of Messages and Signals"

[8]   ITU-T Q.1902.3: "Bearer Independent Call Control CS2 Formats and Codes"

[9]   ITU-T Q.1902.4: "Bearer Independent Call Control CS2 Basic Call Procedures"

[10]   ITU-T Q.1902.5: "Exceptions to the Application Transport Mechanism in the Context of Bearer Independent Call Control"

[11]   ITU-T Q.1902.5: "Generic Signalling Procedures and Support of the ISDN User Part Supplementary Services with the Bearer Independent Call Control Protocol

[12]   ITU-T Q.1950 "Call Bearer Control Protocol"

[13]   ITU-T Q.2630.1-2: "AAL type 2 signalling protocol"

[14]   ITU-T Q.1990 **"**BICC tunnelling control protocol"

[15]   ITU-T Q.1970 "IP Bearer Control protocol"

[16]   ITU-T Q.1912.1 "ISUP-BICC Interworking"

[17]   ITU-T Q.1912.2 Interworking between selected Signalling System (PSTN Access DSS1, C5, R1, R2, TUP) AND THE Bearer Independent Call Control Protocol

[18]   ITU-T Q.2150.0 Generic Signalling Transport Service

[19]   ITU-T Q.2150.1 Signalling Transport Converter MTP and MTP3 B.

 [20]   ITU-T Recommendation Q.2150.3   –Signalling Transport Converter on SCTP.

[21]   ITU-T H.248: "Media Gateway Control Protocol" (06/00)

[22]   3G TS 29.202: "SS7 signalling transport in core network"

Editors note: The references to the Q.19XX and Q.2150.X recommendations will be replaced by an URL pointing to the 3GPP web. These references will become dated references to those specifications when decided.

****Next Modified Section ****

3.3   Abbreviations

For the purposes of the present document, the following abbreviations apply:

BICC	Bearer Independent Call Control
MGC	Media Gateway Controller
AAL	ATM Adaptation layer
STC	Signalling Transport Converter
SCTP	Stream Control Transmission Protocol
MTP	Message Transfer Part
DSS 1	Digital Signalling System number 1
R1	Regional Signalling System 1
R2	Regional Signalling System 2
TUP	Telephony User Part
C5	CCITT signalling system number 5
M3UA	MTP3 – User Adaptation Layer

****Next Modified Section ****

4.5   Signalling Transport

4.5.1   Call Control protocols

Q.2150.0	Generic Signalling Transport Service [18]
Q.2150.1	Signalling Transport Converter on MTP3 and MTP3b[19]
Q.2150.3	Signalling Transport Converter on SCTP. [20]
3GPP TS 29.202	SS7 signalling transport in core network . [22] Annex A: SS7 MTP3-User Adaption Layer (M3UA). Note: This is only required if interworking between ATM & IP is desired.

****Next Modified Section ****

4.5.2   Resource control protocol (G)MSC and MGW (Mc Interface)

3GGP TS.29232.	Media Gateway Controller (MGC) – Media Gateway (MGW) Interface;Stage 3 [3] including H.248 [21] Annex H "Transport over SCTP", and H.248 [21] Annex I "Transport over ATM", and 3GPP TS 29.202 "SS7 signalling transport in core network" [22]. Annex A: SS7 MTP3-User Adaption Layer (M3UA). Note: This is only required if interworking between ATM & IP is desired.

****End of document****