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# 1. General

## 1.1 Last Meetings

Only one CN3 meeting has taken place since the last TSG-CN plenary:

?? CN3#18 09.07.01 - 13.07.01 Dresden, Germany, hosted by Mannesmann Mobilfunk. This included:-

?? a joint session with CN1 on TS 23.218,

?? a joint session with CN1 on TS 24.228

?? a joint session with CN1 and CN4 on the work split concerning end-to-end QoS for IMS.

The detailed CN3#18 meeting report is contained in **NP-010431**. This status report summarises the results from that meeting and presents the current status of work in CN3.

## 1.2 Administrative Work

CN3 has reviewed and provided comments to the 3GPP work plan. These comments have been sent to MCC.

CN3 has reviewed the list of specifications for which it is responsible. Some remarks have been reported back to MCC, and will be incorporated into the master specifications database.

Dependencies to IETF specs have been identified. The 3GPP IETF Co-ordination Group was informed via e-mail.

The liaison statement by GERAN [**GP-011437**] on terminology clarifications concerning the use of the terms GSM and UMTS was received by CN3. The rapporteurs have been tasked to consider this issue and to bring appropriate change requests to next CN3 meeting if necessary.

# 2. Work Items R99 and earlier

## 2.1 Circuit Switched Bearers in UMTS

Change requests for circuit switched bearer services are summarised in document **NP-010438**. It contains corrections in TS 27.001

?? to remove erroneous values for some parameters in the Bearer Capability

?? to correct the negotiation of the parameter Rate Adaptation in the Bearer Capability for the multimedia service 64 kbit/s.

All of these changes are necessary to align TS 27.001 with TS 24.008 or TS 29.007, respectively.

## 2.2 GPRS

Initiated by a liaison statement from T2 [**T2-010606**] requesting CN3 to provide a solution to transfer the user identity (e.g., MSISDN or IP address) from GGSN to an application server (e.g., WAP Gateway or MMS Relay / Server), CN3 started investigating this issue. Based on an initial proposal by Nokia that uses RADIUS Accounting procedures for the transfer of these information and based on several contributions by other companies, the solution was improved in several steps and finally approved by e-mail after the meeting. The change requests against TS 29.061 are contained in document **NP-010440**. Although one could think that these CRs add a new function, CN3 has classified these CRs as (essential) corrections that are necessary from Release 97 because of the following reasons:-

?? The solution provided by CN3 was agreed by consensus. There is also consensus to provide CRs back until R97.

?? TS 29.061 / 09.61 have been specified RADIUS as means for authentication since R97. Now, these CRs clarify the transfer of user identification information.

?? A specification of these functions is needed urgently to avoid interoperability problems.

### **3. Rel-4 Work Items**

#### **3.1 Bearer independent circuit switched Core Network**

One change request against TS 29.415 was agreed by CN3 that clarifies the handling of failure codes and provides an alignment with TS 29.323. It also provides an alignment with TS 25.415 to avoid double descriptions.

Another change request to TS 29.414 clarifies in the transport of data in the Iu FP.

Both of the CRs are contained in document **NP-010439**.

### **4. Rel-5 Work Items**

#### **4.1 Interworking between the IM Subsystem and IP networks**

There were some discussions about which network entities will provide the functions necessary for interworking between the IMS and external IP networks. MGCF, IMS-MGW or MRF are favoured candidates for this purpose. Also, CN3 has recognised that transcoding may be required if the two end points in an IMS to IP network session do not agree on a common codec (i.e. AMR codec is default for voice in IMS and G.711 is mandatory codec in H.323).

A liaison statement [N3-010330] was sent to SA2 asking for guidance and clarification (included in document **NP-010432**). This will probably delay the work progress.

A finalisation date of 03/02 was estimated to be realistic. The work item description sheet was changed accordingly and is presented in document **NP-010434**.

#### **4.2 Interworking between the IM Subsystem and CS networks**

CN3 proposes to extend the scope of the work item and of TS 29.163 to include SIP-BICC interworking. The main reasons for this are:

?? ISUP interworking is implicitly defined via ITU-T BICC/ISUP interworking

?? BICC interworking is required for CS Domain and future PLMNs

?? The specification of SIP-ISUP interworking is based on an IETF draft that will become an informational RFC only, SIP-BICC interworking can be based on ITU-T work

A finalisation date of 03/02 was estimated to be realistic. The work item description sheet was changed accordingly and is presented in document **NP-010435**.

TS 29.163 was also updated. It now also includes SIP-BICC interworking. The IETF draft for SIP-ISUP interworking was removed from the Appendix. M3UA is specified in the transport plane for BICC and ISUP. However, most of the details are still for further study. A new version 0.2.0 has been uploaded to the 3GPP FTP server 'Draft specifications' area.

There were also some discussions about the user plane for voice in the IMS. CN3 agreed to use "draft-ietf-avt-rtp-amr-10.txt" as working assumption and sent an liaison statement [N3-010331] to SA2 asking for verification (included in **NP-010432**).

#### **4.3 End-to-end QoS**

End-to-end Quality of Service is gradually becoming the main work item within CN3.

In order to derive a work split between the CN1, CN3, and CN4, the potential impact of Stage 3 QoS work on several specifications was estimated by Lucent, and their results discussed in a joint CN3 meeting with CN1 and CN4. The updated list of impacted specifications including the needed work

can be found in the updated version of the work item description sheet for 'End-to-end QoS Stage 3' in **NP-010437**.

A first draft for TS 29.207 "Policy Control over Go interface", containing the preliminary structure of the document was agreed in CN3. Additional text about requirements for the Go interface was proposed and to a large extent included in 29.207. The version 0.1.0 is available and has been uploaded to the 3GPP FTP server 'Draft specifications' area.

At the moment it is still unclear whether end-to-end QoS has also to be specified for interworking scenarios with CS networks. A liaison statement [N3-010328] was sent to SA2 asking for guidance (included in document **NP-010432**).

#### **4.4 Service Change and UDI fall back for CS Multimedia**

CN3 proposes a new work item for service change and UDI fall back for CS multimedia. This function was already specified for audio (modem) calls in Release 99. Now CN3 proposes a solution for UDI using BICC capabilities. Completion date is 12/01. The proposed work item description sheet is provided in document **NP-010436**. Also this new Feature has been included in the 3GPP Workplan.

## **5. Output Documents**

### **5.1 Change Request**

<b>CN Doc #</b>	<b>CN3 Doc #</b>	<b>Spec</b>	<b>Tdoc Title</b>	<b>Rel</b>	<b>CR #</b>	<b>Rev</b>	<b>CAT</b>	<b>C_Vers</b>	<b>N_Vers</b>	<b>WI</b>
NP-010438	N3-010305	27.001	Negotiation of Rate adaptation/Other rate adaptation	R99	065	1	F	3.9.0	3.10.	CS Bearers
NP-010438	N3-010306	27.001	Negotiation of Rate adaptation/Other rate adaptation	Rel-4	066	1	A	4.4.0	4.5.0	CS Bearers
NP-010438	N3-010308	27.001	Removal of erroneous information in B.1.3.1.6	R99	067		F	3.9.0	3.10.	CS Bearers
NP-010438	N3-010307	27.001	Removal of erroneous information in B.1.3.1.6	Rel-4	063	1	A	4.4.0	4.5.0	CS Bearers
NP-010438	N3-010271	27.001	Removal of erroneous IR value	R99	061		F	3.9.0	3.10.	CS Bearers
NP-010438	N3-010304	27.001	Removal of erroneous IR value	Rel-4	062	1	A	4.4.0	4.5.0	CS Bearers
NP-010439	N3-010302	29.415	Clarification on FQC handling and alignment with TS 25.415	Rel-4	001	1	F	4.0.0	4.1.0	CSSPLIT
NP-010439	N3-010341	29.414	Transport of data in the luFP	Rel-4	003	2	F	4.1.0	4.2.0	CSSPLIT
NP-010440	N3-010345	09.61	Standard method for information delivery (MSISDN; IP address...) between GPRS and external PDN using RADIUS	R97	A017	1	F	6.4.0	6.5.0	GPRS
NP-010440	N3-010346	09.61	Standard method for information delivery (MSISDN; IP address...) between GPRS and external PDN using RADIUS	R98	A018	1	A	7.3.0	7.4.0	GPRS
NP-010440	N3-010347	29.061	Standard method for information delivery (MSISDN; IP address...) between GPRS and external PDN using RADIUS	R99	22	1	A	3.6.0	3.7.0	GPRS
NP-010440	N3-010348	29.061	Standard method for information delivery (MSISDN; IP address...) between GPRS and external PDN using RADIUS	Rel-4	21	4	A	4.1.0	4.2.0	GPRS

## 5.2 Liaison Statements

The Liaison Statements are contained in **NP-010432**.

Tdoc #	Tdoc Title	LS to	LS cc	Attachment
N3-010311	LS on User Plane protocol stacks for IMS to PSTN Interworking	SA2		none
N3-010324	LS on the RADIUS Solution for information delivery (Response to LS IN T2-010606)	T2 SWG3	SA2	none
N3-010328	LS on Requirement for QoS for CS IW.	SA2		none
N3-010330	LS on IMS to IP Networks Interworking Functions	SA2		none

## 5.3 Work Items

The Work Item Description sheets are contained in the following documents:

Tdoc #	Tdoc Title
NP-010434	Interworking between IM CN subsystem and IP networks
NP-010435	Interworking between IM CN subsystem and CS networks
NP-010436	Service Change and UDI Fallback
NP-010437	e2e QoS stage 3

## 5.4 New TRs and TSs

Tdoc #	Number	Owner	Rel	Title	Rapporteur	Company
not provided to CN#13	29.207	CN3	Rel-5	Policy Control over Go interface	Daisuke Yokota	Lucent

## 6. Next Meetings

Next CN3 meetings are scheduled as follows:

Meeting	Date	Location, Host
TSG-CN3#19	15 <sup>th</sup> – 19 <sup>th</sup> Oct 2001	Vodafone & BT, Brighton, UK
TSG-CN3#20	26 <sup>th</sup> – 30 <sup>th</sup> Nov 2001	NA Friends, Cancun, Mexico

## 7. Acknowledgements

I would like to thank the delegates for their contribution to the meetings, Mannesmann Mobilfunk for hosting the meeting. Special thanks to David Boswarthick, MCC, for the support during and between the meetings.