3GPP TSG_CN **Tdoc NP-000413**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

3GPP TSG-CN-WG1, Meeting #13 ***Tdoc N1-000997***
14-18 August, 2000
Vancouver/Canada

Title: Answer to Proposal of exchange of the terms "in GSM" and "in UMTS"
Source: TSG-CN WG1
TO [1]: TSG-SA WG1, TSG-SA WG2, TSG-GERAN WG2, TSG-R2
Cc: TSG-CN
WI: TEI

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Attachments:

Date: 16.8.2000

TSGN1 thanks TSGS2 for their LS (S2-000989 / N1-000957) on R99 terminology.

TSGN1 agree that the current terminology "In GSM" and "In UMTS" is not very clear and that it will not be applicable as such for R00.

However, as these labels have been used systematically in R99 to distinguish the requirements for the MS depending on the serving radio access network, it will not be easy to change the interpretation given to these terms. Changing only the label means clarification of the terminology while changing the label and its definition would change the mobile station and network requirements causing implementation rework. Due to this TSGN1 does not see any possibility to change the meaning of the terms at this stage.

For R00 and later TSGN1 sees that a change of the functionality will be needed as the serving radio access network can not be taken as an indication of the network architecture behind it.

Therefore TSGN1 can not accept the change proposed by TSGS2 but the following counterproposal is made:

For R99
The terms proposed by TSGS2 are used with the existing definitions from e.g. 24.008. This would produce the following definitions (24.008, section 2):

- **In ~~GSM~~A/Gb mode,...** Indicates this paragraph applies only to GSM System. For multi system case this is determined by the current serving radio access network.

- **In ~~UMTS~~Iu mode,...** Indicates this paragraph applies only to UMTS System. For multi system case this is determined by the current serving radio access network.

For R99 system the definitions would still be correct as the Iu/A –inteface can be deduced from the serving access network.

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[1] Please write any action required from the groups in a clear way.

For R00
The terms defined for R99 would still be used but due to the changes in R00 architecture the criteria (*in italics)* must change to e.g. what has been proposed by TSGS2. This change will be an essential change on the mobile and network implementation but this is acceptable for R00.

- In A/Gb mode,... ***Indicates this paragraph applies only to GSM System. For multi system case this is determined by the current serving radio access network.*** (–> this will need to change to some indication of the A- or Iu interface)

- In Iu mode,... ***Indicates this paragraph applies only to UMTS System. For multi system case this is determined by the current serving radio access network.*** (–> this will need to change to some indication of the A- or Iu interface)

Questions:
TSGN1 is willing to do the proposed change of terminology to all R99 specifications under its control for TSGN #9. Before doing the work we would like to have a confirmation for our proposal from TSGS1 and TSGS2.

TSGS1, TSGS2:
Is the proposal outlined in this document acceptable?

TSG-GERAN WG2, TSG-R2, TSGS2:
For R00 it seems that a DL indication of the network configuration is needed. RR layer indication, possibly in system information messages was seen by TSGN1 as one alternative. TSGN1 would like to hear the opinion of the WGs responsible for the radio networks.

The original LS text for background information:

Liaison Statement

Source: TSG SA WG2
Title: Proposal of exchange of the terms “in GSM“ and “in UMTS“
To: TSG CN WG1, TSG SA WG1
Cc:

In 23.060, 24.008 and other specifications handled by at least S2, N1 and N3, the terms “in GSM“ and “in UMTS“ are used to describe a behaviour or “mode of operation“ in a UE and a 2G/3G SGSN. This behaviour is depending on if the A/Gb interfaces or the Iu-CS/Iu-PS interfaces are in use due to the different function division in GSM and UMTS.

The introduction of GERAN in R00 may not fit very well with the terms “in GSM“ and “in UMTS“ used in e.g. 23.060 since GERAN has both a Gb interface and an Iu-PS interface. Therefore, it would be good to make an editorial modification of the use of terminology.

It is important to make an editorial modification that makes it easy to update all the all ready approved R99 specifications and that, at the same time, do not constrain the development of standards in at least R00 and R01.

TSG SA WG2 agreed to use the terms “in A/Gb mode“ and “in Iu mode“ to replace the terms “in GSM“ and “in UMTS“, respectively.
The following definitions was made:

> **In A/Gb mode:** indicates that this (sub)clause or paragraph applies only to a system or sub-system which operate in A/Gb mode of operation, i.e. with a functional division that is in accordance with the use of an A or a Gb interface between the radio access network and the core network.
>
> **In Iu mode:** indicates that this (sub)clause or paragraph applies only to a system or sub-system which operate in Iu mode of operation, i.e. with a functional division that is in accordance with the use of an Iu-CS or Iu-PS interface between the radio access network and the core network..

TSG SA WG2 suggests that the definitions above are adopted. However, TSG SA WG2 would like especially TSG CN WG1 to verify the applicability of these definitions in the R99 specifications such as 24.008. Furthermore, to consider if these definitions could circumvent ambiguity in R00.