

3GPP TSG-CN Meeting #26
8th – 10th December 2004. Athens, Greece.

NP-040479

3GPP TSG-RAN WG2 Meeting #45
Shin Yokohama, 15th -19th November 2004

R2-042741

Title: Reply LS (to N1-042069) on Selected PLMN and Network Sharing
Source: RAN WG2
To: RAN, CN, CN1, GERAN, SA1
Cc:
Release: Rel-6

Contact Person:

Name: Richard Burbidge
E-mail Address: Richard.Burbidge@motorola.com

Name: Axel Klatt
E-mail Address: Axel.Klatt@t-mobile.de

Attachments: Original LS from CN1 attached for convenience [R2-042651]:

1. Overall Description:

RAN2 thanks CN1 for their liaison on Selected PLMN and network sharing. RAN2 considers the issue on network sharing resolved, but has still concerns about selected PLMN. RAN2 understands that CN1 does not use the term selected PLMN after registration has taken place when the term Registered PLMN is used instead. In contrast, RAN2 currently uses the term selected PLMN within the definition of suitable cell and therefore considers that the selected PLMN exists even after registration.

Based on the feedback from CN1, RAN2 has discussed to update its specifications from release 6 such that the term "selected PLMN" is used in the same way as used by CN1. The discussion in RAN2 showed that the adaptation to the CN1 used way is not simple as also GERAN need to use the terminology "selected PLMN" inline with CN1.

As it was not possible to find agreement on any CR to RAN2 specs, it is recommended to discuss this topic also in SA1 and GERAN to find a complete and consistent solution covering CN, GERAN and RAN. Furthermore it is recommended that experts start the discussion during CN and RAN December plenary.

Note that RAN2 also believes the above decision has an implication on the inter-PLMN handover case (which from a RAN2 perspective includes inter-PLMN inter-RAT handover to UTRAN and inter-PLMN SRNS relocation). After an inter-PLMN handover of a CS call, the new SRNC will typically provide LA/RA information to the UE which may trigger UE NAS to perform a RAU and therefore allow continuation of PS services. This RAU will result in a new Registered PLMN and so at the end of the call the UE will attempt to select a cell of this new PLMN. If no LA/RA information is provided to the UE by the new SRNC, or UE NAS does not trigger RAU, then the UE will, in addition to not being able to access the PS domain, remain registered with the source PLMN and therefore attempt to select a cell of this PLMN at the end of the call. RAN2 leaves it to CN1 to decide on 1) the criteria for triggering RAU, 2) if specific behaviour is required for the case that the RAU is rejected by the network and 3) if specific behaviour for the case that the call ends between reception of the LA/RA information from the SRNS but before completion of the RAU.

RAN2 has an additional question regarding the AS/NAS model for emergency camping. When the AS can not find a suitable cell, it will attempt to camp on an acceptable cell. RAN2 understanding is that the acceptable cell and therefore the PLMN is chosen by AS, and the NAS will not set a new Selected PLMN for this case. If the UE was in RRC connected mode when losing coverage then it will maintain its RRC connection to the Registered PLMN while camping on an acceptable cell, but if NAS sets a new Selected PLMN this RRC connection will be release locally in the UE.

2. Actions:

To CN group.

- ACTION:** RAN2 asks TSG CN, CN1 and SA1 to inform TSG RAN and RAN2 how the use of “selected PLMN” is intended and how this should be modelled in NAS and AS.
- ACTION:** RAN2 asks CN1 to confirm whether they have the same understanding of the AS/NAS model for emergency camping.
- ACTION:** RAN2 asks GERAN consider whether the above discussion has any implication for its specifications.

3. Date of Next RAN2 Meetings:

RAN2#45bis	10-14 Jan 2005	Sophia-Antipolis, France
RAN2#46	14-18 Feb 2005	Scottsdale, USA

4. Attachments:

Original LS from CN1 attached for convenience[R2-042651]: