

3GPP TSG-GERAN Meeting #18
Rejkyavik, Iceland 2 – 6 February 2004

Tdoc GP-040554

Title: On the Preferred Roaming List for 3GPP2/3GPP Multi-mode Terminal
Response to: N1-040138
Release:
Work Item:

Source: GERAN
To: SA WG1, CN WG1, SA
Cc: SA WG2, RAN WG2

Contact Person:

Name: Lorenzo Casaccia
Tel. Number: +1 858 651 4319
E-mail Address: lorenzoc@qualcomm.com

Attachments: N1-040138, S1-040208

1. Overall Description:

TSG GERAN thanks SA1 and CN1 for their LS on "Preferred Roaming List for 3GPP2 Multi-mode Terminal".

In the discussion of the LS received the following conclusions has been made:

- 1) According to TSG GERAN's understanding, the Preferred Roaming List belongs to an overlay which allows selecting, in certain situations, between a 3GPP system and a 3GPP2 system, according to their configured priorities.
- 2) TSG GERAN would also like to remind that the current 3GPP specification provides the capability for the user to set its own PLMN selection preferences. This has been done to ensure a fair competition environment. TSG GERAN expects that this is maintained in the design of the Preferred Roaming List, although this was not fully clear from the document received from 3GPP2 TSG-C.
- 3) Also in light of the previous points, TSG GERAN would like to stress that the selection procedures of PLMNs, cells, etc. of a 3GPP system are specified in the 3GPP specification.
- 4) Considering the above, TSG GERAN has concluded that there is no impact to the GERAN specifications.

In addition the following comments are noted:

- 1) It needs to be ensured that the signalling load is minimized by e.g. introducing a timer and/or a system selection hysteresis, in order to prevent any ping-pong effects.
- 2) Regarding the possible issue of service continuity, which was mentioned by the CN1 liaison, it is TSG GERAN's understanding that the PRL logic applies in idle mode only, thus not endangering ongoing CS calls. However, it is TSG GERAN's understanding that PDP contexts might be impacted, and thus there might be a need to consider exactly in which situations the PRL logic should apply.

- 3) TSG GERAN recognizes the importance of having some insight into the Preferred Roaming List specification activity. TSG SA should decide on the best way forward for such coordination with 3GPP2.

2. Actions:

To SA1 group and to CN1 group:

ACTION:

Note the comments made.

To SA:

ACTION:

Create an answer to 3GPP2 TSG-C based on the received comments.

3. Date of Next TSG GERAN Meetings:

GERAN#19	19 - 23 Apr 2004	Cancun, Mexico
GERAN#20	21 - 25 Jun 2004	Bilbao, Spain

Agenda item: 9
Document for: LS Out

Title: Reply to Preferred Roaming List for 3GPP2 Multi-mode Terminal
Response to: S1-040208
Release:
Work Item:

Source: CN WG1
To: SA WG1
Cc: SA WG2, GERAN WG1, RAN WG2

Contact Person:

Name: Andrew Howell
Tel. Number: +44 1452 623967
E-mail Address: andrew.howell@motorola.com

Attachments: None

1. Overall Description:

CN1 thanks SA1 for their LS on "Preferred Roaming List for 3GPP2 Multi-mode Terminal".

Regarding the questions raised by TSG-C, i.e:

1. If there is any similar activity going on in 3GPP regarding the system selection for multi-mode terminals (cdma2000, GSM and UMTS) as defined in our proposal, and if so, please provide the status and timeline.
2. If the proposal has covered all possible GSM/UMTS bands defined in 3GPP specification.
3. If the proposal causes any potential problem or any adverse impact to the current GSM/UMTS system selections.

CN1 notes that:

1. Currently there are no requirements for system selection regarding 3GPP/3GPP2 multimode terminals.
2. PLMN selection procedures of 3GPP terminals will be specified in 3GPP. CN1 assumes that work on a 3GPP2/3GPP multi-mode terminal solution will not impact the CN1 specifications.

In addition CN1 would like to make the following comments:

- a. It is assumed that when a multi mode UE enters a 3GPP system, the behaviour of the mobile will be as specified in the 3GPP specifications (22.011, 23.122, 24.008)
- b. It not feasible to move parts of the 3GPP PLMN selection or cell (re-) selection procedures to 3GPP2 specifications.
- c. Any background scan for 3GPP2 systems should not violate the 3GPP protocol requirements (in particular in regards to cell selection and PLMN selection)
- d. Any specification of system selection between 3GPP and 3GPP2 should be made at the system selection level and should not cover the radio frequencies that are scanned.
- e. Service continuity at system change would appear to be problematic (SS, PS domain connections, IMS, etc).

2. Actions:

To SA1 group:

ACTION:

Note the comments made.

3. Date of Next TSG CN WG1 Meetings:

CN1#33 16 - 20 Feb 2004 Atlanta, USA

Title: Preferred Roaming List for 3GPP2 Multi-mode Terminal
Response to: LS (S1-040137) on from 3GPP2 TSG-C
Source: SA1
To: 3GPP2 TSG-C, SA2, CN1, GERAN1, RAN2
Cc:

Contact Person:
Name: Robert Frank
E-mail Address: robert.frank@teliasonera.com

Attachments: S1-040137 (Including "C10-20031104-003a_QCOM_GSM-UMTS_PRL_Overwiev.pdf")

1. Overall Description:

SA1 kindly thanks 3GPP2 TSG-C for their LS contained in S1-040137 and would also like to invite SA2, CN1, GERAN1 and RAN2 to help answering the questions that has been raised by TSG-C.

SA1 does not have any requirements for system selection regarding 3GPP/3GPP2 multimode terminals. SA1 specification TS 22.011 contains requirements on PLMN (Public Land Mobile Network) selection that seem relevant to this matter.

PLMN selection procedures of 3GPP terminals will be specified in 3GPP. SA1 assumes that work on a 3GPP2/3GPP multi-mode terminal solution will not impact on SA1 specification (TS 22.011).

2. Actions:

To SA2, CN1, GERAN1, RAN2 group:

ACTION:

Consider the proposal contained in the attachment "C10-20031104-003a_QCOM_GSM-UMTS_PRL_Overwiev.pdf" and address the questions raised by TSG-C (S1-040137) and provide the appropriate answers if necessary.

3. Date of Next TSG-SA1 Meetings:

SA1#24	10 – 14 May 2004	Shenzhen, China	ZTE
SA1#25	28:th of June – 2:nd of July 2004	US	