3GPP TSG CN Plenary Meeting #23   **NP-040036**
10th - 12th March 2004. Phoenix, USA.

Source: **CN1**

Agenda item: **9.20**

Document for: **Approval**

3GPP TSG-CN1 Meeting #32bis   **Tdoc N1-040172**
Sophia Antipolis, France   26 – 29 January 2004

Source: **TeliaSonera**

Title: **Proposed WID for Network Sharing stage 3**

Agenda item: **8.7**

Document for: **Approval**

Work Item Description

Title: Network Sharing Stage 3

1   3GPP Work Area

	Radio Access
X	Core Network
	Services

2   Linked work items

- TSG SA1: Network sharing – Technical Report 22.951 (v 6.0.0) "Service Aspects and Requirements for Network Sharing" (with unique ID 31019)

- TSG SA2: Network sharing – Technical Report 23.851 (v 1.1.0) "Network Sharing, Architecture and Functional Description" (with unique ID 32044)

- TSG RAN2&RAN3: Network sharing stage 3 – Enhancement of the support of network sharing in the UTRAN (with unique ID 22004)

3   Justification

Network sharing may be used to lower the initial rollout cost for new radio networks. In addition, network sharing provides possibilities for operators not owning a 3G license to be able to deliver 3G services.

Based on the work concurred in SA and RAN on "Network Sharing" TSG-CN should develop support for this feature.

4   Objective

~~This work aims to develop stage 3 support for the "Network Sharing" feature, taking into account stage 1 and stage 2 requirements.~~ The objective of this WI is to develop the functionality support in the core network to meet the requirements on the network sharing as defined in stage 1 (TR22.951) and stage 2 (TR23.851).

So far the following work have been identified in CN group(s):

- Review the possible impacts on the network selection procedures due to multiple PLMN broadcast
- Review the CN behaviour due to rerouting
- Consider relative share of inbound roamers in the case that part of the CN node is shared
- Study the needs of inclusion of multiple PLMN information in the NAS system information elements
- Allow the indication of the selected PLMN from the UE to the network when attempting to register

5 Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X		X	
No	X		X		X
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
24.008		Mobile radio interface Layer 3 specification; Core network protocols; Stage 3		CN#24, June 2004		CN related changes with the introduction of network sharing Rel-6, e.g. - Possible impacts on CN behaviour due to rerouting - Consider relative share of inbound roamers if part of the CN is also shared - Check the CN system information elements to enable the inclusion of multiple PLMN information - Allow the indication of the selected PLMN from the UE to the network when attempting to register.
23.122		Non-Access-Stratum functions related to Mobile Station (MS) in idle mode		CN#24, June 2004		Impacts on PLMN selection due to multiple PLMN broadcast.

11 Work item rapporteur

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12 Work item leadership

TSG-CN WG 1

13 Supporting Companies

TeliaSonera, Ericsson, Motorola, HuaWei Technology, Sonofon

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a   The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b   The WI is a Building Block (with Unique ID 11043): Parent Feature: Network Sharing (with unique ID 31018)

14c   The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)