

Source: TSG SA WG2 (S2-030432)
Title: WID on Network sharing Stage 2
Agenda Item: 7.2.3

Work Item Description

Title Network sharing – stage-2

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 **Linked work items**

- Network sharing – Technical Report (“*Service Aspects and Requirements for Network Sharing*”) (SA1 BB, 31019)

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.

The Technical Report 22.951 “*Service Aspects and Requirements for Network Sharing*” has been completed in SA1 and approved by SA#18. The TR evaluates the need for support for shared radio networks in 3GPP Release 6. The service level requirements and considerations presented in the TR will now have to be studied on the architecture level. It is expected that the detailed work will later be related to several other Working Groups, however SA2 is the appropriate WG to study the overall architectural aspects first.

4 **Objective**

The aim is to study the architectural impacts and develop stage-2 level solutions to fulfill stage-1 requirements and to produce CRs to relevant technical specifications.

5 **Service Aspects**

Service implications for shared networks.

6 MMI-Aspects

Interactions related to network selection

7 Charging Aspects

8 Security Aspects

9 Impacts

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

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

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 23.8xx	Architectural aspects of shared networks	SA2		SA#20 (June 03)	SA#21 (Sept 03)	
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
TS 23.002		Network architecture		SA#21 (Sept 03)		
TS 23.060		GPRS Service Description		SA#21 (Sept 03)		
TS 23.221		Architectural requirements		SA#21 (Sept 03)		
TS 23.236		Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes		SA#21 (Sept 03)		

11 Work item raporteurs

Ulf Nilsson (TeliaSonera)

12 Work item leadership

SA2

13 Supporting Companies

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: parent Feature

Network sharing (31018)

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