

Title: Proposed WI: Shared Network support in Connected Mode
Source: Ericsson
Agenda Item 9.11

Work Item Description

Title: Shared Network support in Connected Mode

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

Based on the Release-99 specifications, the CN+UTRAN have mechanisms available to provide UE-specific access restrictions for LA's of the current PLMN and other PLMN's when the UE is in Idle Mode¹. These mechanisms can be used for implementing shared networks solutions in which, based on roaming agreements, the access restrictions to be applied might be different for different UE's.

Although the Release-99 specifications specify these mechanisms for handling the UE when in Idle Mode, insufficient mechanisms are specified to provide similar access restrictions in Connected Mode. In Connected mode the UE mobility is handled by the UTRAN and the UTRAN does not have the necessary information (e.g. roaming agreements) to provide a consistent access restriction handling in Connected Mode.

4 Objective

The objective of this WI is to enable the CN+UTRAN to provide a consistent UTRAN mobility access restriction handling based on roaming agreements in both Idle and Connected Mode.

5 Service Aspects

None

6 MMI-Aspects

None

¹ Mechanisms include UE-specific LOCATION UPDATING ACCEPT/REJECT & inclusion of LA-specific/UE-specific equivalent PLMN information in LOCATION UPDATING ACCEPT.

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes			X	X	
No	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	2 ^{no} ary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject	Approved at plenary#		Comments	
25.401		UTRAN architecture description; Stage 2	RAN#16			
25.413		UTRAN Iu Interface RANAP Signalling	RAN#16			
25.423		UTRAN Iur interface RNSAP signalling	RAN#16			

11 Work item rapporteurs

Ericsson

12 Work item leadership

TSG-RAN WG3

13 Supporting Companies

Ericsson, Alcatel, Nortel, AT&T, mmO₂

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

14b The WI is a Building Block: parent Feature

RAN Improvement feature

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