TSG-RAN Meeting #15 Jeju-do, Korea, 5 - 8 March 2002

Source: TSG-RAN

Title: Work Item sheets - history

This document contains WI sheets in TSG-RAN for all approved Work Items that have been finished (occasionally: WIs for which a particular part has finished). The WI sheets of the approved and finished study items are provided in a separate document, RAN_Study_Items_History. The WI sheets for current WIs can be found in RAN_Work_Items.

The finished Work Items at the end of TSG-RAN #14 are:

- 1. Low chip rate TDD option
- 8. NodeB Synchronisation for TDD
- 9. UTRA FDD Repeater Specification
- 10. QoS optimization for AAL type 2 connections over Iub and Iur interfaces
- 12. PS-Domain handover for real-time services
- 13. RAB Quality of Service Negotiation/Renegotiation over Iu
- 14. RRM optimizations for Iur and Iub (partly finished in TSG-RAN #11 and changed status)
- 15. Radio access bearer support enhancement (partly finished in TSG-RAN #11)
- 19. Transcoder Free Operations in UTRAN
- 26. Low Chip Rate TDD Physical Layer
- 27. Low chip rate TDD layer 2 and layer 3 protocol aspects
- 28. Low Chip Rate TDD RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing
- 30. Low Chip Rate TDD UE radio access Capability
- 31. Low chip rate TDD UTRAN network Iub/Iur protocol aspects
- 32. RAB Quality of Service Negotiation over Iu
- 33. RAB Quality of Service Renegotiation over Iu
- 34. Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99
- 35. UE positioning enhancements (partly finished in TSG-RAN #11)
- 37. DSCH power control improvement in soft handover
- 38. Transport bearer modification procedure on Iub, Iur and Iu (originally Migration to Modification procedure)
- 39. UMTS 1800
- 41. RAB Quality of Service Negotiation over Iu during relocation
- 42. Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning
- 50. UMTS 1900
- 62. Beamforming requirements for UE

Relation between Work Items

Light Section Sectio	Feature	Grp	Building Block	Grp	Work Task	Grp
### Part	22. RAN Improvement Feature		14. RRM optimizations for lur and			R3
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St. Improvement of RRM across RNS and RNS/GSS RNS RNS and RNS/GSS RNS RN						110
63. Improvement of RRM across R3						R3
RNS and RNS/BSS					Efficiency Optimisation	
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45. High Speed Downlink Packet R2	· · · · · · · · · · · · · · · · · · ·			R2		
Access (HSDPA) - layer 2 and 3			Access (HSDPA) - layer 2 and 3			
<u>aspects</u>			aspects		l	

Feature	Grp	Building Block	Grp	Work Task	Grp
		46. High Speed Downlink Packet Access (HSDPA) - lub/lur Protocol Aspects	R3		
		47. High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	R4		
36. RAN Technical Small Enhancements and Improvements	RP				
Transcoder-Free Operation	N4	OoBTC solution	N4	19. Transcoder Free Operations in UTRAN	R3
Location Services enhancements	S2	23. UE Positioning	RP	34. lub/lur interfaces for UE positioning methods supported on the radio interface release 99	R3
				35. UE positioning enhancements 57. UE positioning enhancements for 1.28 Mcps TDD	R2 R2
				9. UTRA FDD Repeater Specification	R4
				42. Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning	R2
				56. Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods	R2
Ensure reliable QoS for PS domain	S2	13. RAB Quality of Service Negotiation/Renegotiation over lu	R3	32. RAB Quality of Service Negotiation over lu	R3
				33. RAB Quality of Service Renegotiation over Iu	R3
				41. RAB Quality of Service Negotiation over lu during relocation	R3
		12. PS-Domain handover for real- time services	R3		
Intra Domain Connection of RAN Nodes to Multiple CN Nodes	S2	40. RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes	R3		
Multimedia Broadcast and Multimedia Service	S1	65. Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN	R2		

1. Low chip rate TDD option

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000191)

Work Item Description

Title

Low chip rate TDD option

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Low Chip Rate TDD Physical Layer
Low chip rate TDD layer 2 and layer 3 protocol aspects
Low Chip Rate TDD RF Radio Transmission/ Reception, System Performance
Requirements and Conformance Testing
Low Chip Rate TDD UE radio access Capability
Low chip rate TDD UTRAN network Iub/Iur protocol aspects

3 Justification

The integration of TDD low chip rate option in Release 2000 is discussed and approved in RAN#6. This paper is to describe the work plan of the integration for low chip rate TDD in R00.

4 Objective

The technical objective of this work item is the integration of the low chiprate TDD functionality in UTRA TDD, in line with decisions at RAN#6.

- For physical layer, the features include:
 - The frame structure and the burst structure
 - Channel description and mapping
 - Modulation and spreading
 - Channel coding and multiplexing
 - Physical layer procedures
 - Measurements by physical layer
- For higher layers:

The work will focus on adding extensions and Add-Ons for low chip rate support.

For Iur/Iub interface:

For the adoption of some new features, e.g. the smart antenna, baton hand-over, some additional messages in Iur and Iub interface signalling for low chip rate TDD option should be taken into consideration.

- For radio transmission and reception:
 - The system performance requirements supporting low chip rate services
 - The Rx characteristics requirement

- The Transmitter characteristics requirement
- The frequency bands and channel arrangements

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					

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

	New specifications							
Spec No.	Title		_	rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#		Comments
				Affected 6	existing specifi	cation	S	
Spec No.	CR	Subject					Approved at plenary#	Comments

The expected finalisation date is TSG-RAN #11

Work item raporteurs

Mr. Guiliang Yang (CATT/CWTS)

Work item leadership

TSG-RAN WG1

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

X	Feature (go to 14a)
	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)
The building blocks should be discussed and approved via email discussion

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)

2. Base station classification

3. FDD Base station classification

4. TDD Base station classification

5. UE positioning in UTRA TDD

Last distributed as: (originally RP-000053)

This WI and WI 6. were replaced by WIs 34. and 35. in TSG-RAN #9.

6. UE positioning in UTRA FDD

Last distributed as: (originally RP-000135)

This WI and WI 5. were replaced by WIs 34. and 35. in TSG-RAN #9.

7. Void (originally Hybrid ARQ II/III)

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000054)

This Work Item was deleted from the approved Work Items at TSG-RAN #14

8. NodeB Synchronisation for TDD

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000055)

Work Item Description

Title

NodeB Synchronisation for UTRA TDD mode

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

NodeB synchronisation is beneficial in UTRA TDD to minimise cross-interference in neighbouring cells. Currently, no method has been specified how NodeB synchronisation can be achieved with UTRAN's and UE's internal resources such as signalling via the air interface.

The following benefits of the introduction of NodeB synchronisation by means of internal resources are seen:

- A substantial reduction of the cost of the transmission network.
- An autonomous synchronisation procedure without the need of external references.
- An easily extendable method for the purpose of inter-system NodeB synchronisation.

4 Objective

The purpose of this new work item is to enable the synchronisation of NodeBs in UTRA TDD by means of UTRAN's and UE's internal resources such as air interface signals and NodeB cross measurements. NodeB synchronisation involves

- radio frame und multi frame synchronisation and
- intra-system and inter-system synchronisation.

_	G • 4 4	
5	Service Aspects	;

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

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 spe	ecif	ications		
Spec No.	Title		Prime rsp. WG	rsp. WG(s) endorsement at plenary#		Approved at plenary#	Comments	
25.836	NodeE synchi TDD	3 ronisation for	WG1		RA	N #10	RAN #11	
25.838	NodeE synchi TDD	3 ronisation for	WG3			N #10	RAN #11	
			Affe	cted existi		specificatio		
Spec No.	CR	Subject				Approved at	plenary#	Comments
25.123		Requirements Radio Resour (TDD)				RAN #11		
25.221		Physical channels and mapping of transport channels onto physical channels (TDD)				RAN #11		
25.224		Physical Laye	r Proced	dures (TDI	D)	RAN #11		
25.225		Physical layer – Measurements (TDD)				RAN #11		
25.301		Radio Interface Protocol Architecture				RAN #11		
25.302		Services prov layer	ided by t	the physic	al	RAN #11		
25.303		Interlayer proc		in		RAN #11		
25.321		MAC Protoco	Specific	cation		RAN #11		
25.331		RRC Protocol	Specific	cation		RAN #11		
25.402		Synchronisati 2			ge	RAN #11		
25.433		UTRAN lub Ir Signalling				RAN #11		
25.423		UTRAN lur In Signalling	terface F	RNSAP		RAN #11		

Work item raporteurs

Stefan Oestreich, Siemens AG

Work item leadership

TSG-RAN WG1

13 Supporting Companies

TSG-RAN

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

Radio Interface Improvements and RAN Improvements Features 14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

9. UTRA FDD Repeater Specification

Last distributed as: RAN Work Items after RAN 9 (originally RP-000083)

Work item Description

Title:

UTRA FDD Repeater Specification

1 3GPP work area

Radio Access

2 Linked work items

None

3 Justification

Repeaters have proven to be useful for extending the coverage into buildings, train/car tunnels, subways, highways, etc in 2nd generation systems. Also, by installing repeaters at the sector borders or in highly dense areas, the transmitted power from the MS and the BS could possibly be lowered, leading to an improvement in C/I and thereby capacity.

For the installation of repeaters in cellular networks a specification is needed in e.g. Europe due to regulatory requirements.

For operators without the capability of handover to 2^{nd} generation systems, extending the coverage of UTRA will be of importance especially at the initial rollout stage. For operators with capability of handover to 2^{nd} generation systems, user requirements (e.g. high data rates) may not be met by those systems and extended UTRA coverage might be needed.

4 Objective

The objective of the work item is to create a technical specification of the UTRA repeater's minimum RF characteristics which, at least, should include:

- Spurious emissions
- Intermodulation products
- Out of band gain
- Frequency stability
- Modulation accuracy
- Blocking characteristics

In addition to the minimum RF characteristics, conformance requirements and Electro Magnetic Compatibility (EMC) shall also be specified.

5 Service Aspects

The use of repeater in a network may reduce the performance of the LCS method OTDOA. This is addressed in more detail in document R4-000012.

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	Access Network	Core Network	Others
Yes			Х		
No	Х	Χ		Х	
Don't know					

10 Expected Output and Time scales

			New s	pecification	ons		
Spec No.	Title		Prime rsp. WG		Presented for information at plenary#	Approved at plenary#	Comments
		A Repeater; o transmission and reception	WG4		RAN#9	RAN#11	Repeater minimum RF characteristics
		A Repeater; ormance testing	WG4		RAN#9	RAN#11	Repeater conformance testing
		Affe	cted exi	sting spec	ifications		
Spec No.	CR	Subject	Ар	proved at plo	enary#		Comments
•			R/	AN#11			Repeater EMC requirements

11 Work item rapporteurs

Martin Nilsson, Allgon AB Thomas Kummetz, Mikom GmbH

12 Work item leadership

TSG-RAN WG4

13 Supporting companies

TSG-RAN

14 Classification of the WI (if known)

Feature (go to 14a)	
1 000010 (80 00 1 .0)	

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

14b The WI is a Building Block: This is a building block part of the radio interface improvement feature. In addition there is a relation to the building block UE positioning in UTRA FDD.

10. QoS optimization for AAL type 2 connections over lub and lur interfaces

Last distributed as: Revised WI sheet (QoS) (originally RP-000188)

Work Item Description

Title

QoS optimization for AAL type 2 connections over Iub and Iur interfaces

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

(list of linked Wis)

3 Justification

In Release 99, traffic like compressed voice (AAL type 2 connection) and traffic like data (AAL type 2 connection) are accommodated in common underlying VC(s) for AAL type 2 connections as real time traffics over Iub and Iur interfaces to ease management of CFN (Connection Frame Number) allocation to Down link data frame or scheduling at SRNC (Serving RNC). In addition to that, in sections with AAL type 2 switches, I.363.2 and Q.2630.1 referred in Release 99 have no capability to prioritize real time traffic like compressed voice or non-real time traffic like data.

In general, this requires much higher capacity underlying VC for AAL type 2 connections to meet the delay requirements for real time traffic like compressed voice especially in case of real time traffic data frame (smaller) right after non-real time traffic data frame (much bigger). Typical simulation on the case was given in TSG R3#8(99)e19 by Alcatel in Release 99 time frame. Higher capacity underlying VC for AAL type 2 connections over Iub interface impacts very much on initial and running costs of the Iub interface which usually consists of leased line.

4 Objective

This work item intends to introduce the capability to optimize the bandwidth of underlying VC for AAL type 2 connections over Iub and Iur interfaces in addition to the scheduling capability at SRNC in Release 4 time frame.

The capability should be realized with standardized solution(s) for multi-vendor environment, and the one(s) should cover all possible UTRAN transport network configurations.

5	Service	A .
		Acharte
J	Sei vice	ASUCUS

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

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

				New spe	cific	cations		
Spec No.	Title		Prime rsp. WG	2ndary	Presented for endorsement at plenary#		Approved at plenary#	Comments
25.934	AAL ty	S optimization for WG3 _ type 2 nections over and lur				N #10	RAN #11	
			Δffo	ctad avisti	na s	specificatio	ne	
Spec No.	CR	Subject	Alle	Clea existi	_	Approved at p		Comments
TS 25.414	26	UTRAN lu inte transport & tra			I	RAN #11		
TS 25.415	51	· · · · · · · · · · · · · · · · · · ·	UTRAN lu interface: user plane					
TS 25.420	11	UTRAN lur interface: general aspects and principles				RAN #11		
TS 25.424	10	UTRAN lur interface: data transport & transport signalling for common transport channel data streams			or	RAN #11		
TS 25.425	25	UTRAN lur interface: user plane protocols for common transport channel data streams			e I	RAN #11		
TS 25.426	13	UTRAN lur and lub interfaces: data transport & transport signalling for DCH data streams				RAN #11		
TS 25.430	17	UTRAN lub interface: general aspects and principles				RAN #11		
TS 25.434	8	UTRAN lub interface: data transport & transport signalling for common transport channel data streams			or	RAN #11		
TR 25.931	7	UTRAN functi signalling prod		amples on		RAN #11		

Work item rapporteurs

Takayuki Yoshimura (Japan Telecom)

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

(one Work Item identified as a feature)

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

Evolution of transport in UTRAN

11. Terminal power saving features

12. PS-Domain handover for real-time services

Last distributed as: RAN Work Items after RAN 9 (originally RP-000127)

Work Item Description

Title

PS-Domain handover for real-time services

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

(list of linked WIs)

3 Justification

In release 99, Relocation for services from PS domain is only optimised for non-real-time services. In current design, the content of the data buffers from the source RNC are fetched, which is not fully optimal for real-time services, and means that delay may exceed the requirement for real-time services. It is expected that real-time services from the PS domain, such as voice over IP would benefit from fully optimised handover.

4 Objective

This work item should design handover in RAN (mainly Iu) that supports real-time services from PS domain in an optimised way. The solution should be as simple as possible.

5 Service Aspects

The intention with the work item is to assure more optimised support for services such as voice over IP.

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				

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

				New spe	ecifications		
Spec No.	rsp. WG rsp. WG(s) end		Presented for endorsement at plenary#	Approved at plenary#	Comments		
25.936	hando	S-Domain R3 RAN #10 andover for realme services		RAN #10	RAN #11		
	1		Affe	cted exist	ing specification	ns	
Spec No.	CR	Subject			Approved at		Comments
25.413					RAN #11		
			•				

Work item raporteurs

Atte Länsisalmi (Nokia)

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

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

Radio Interface Improvement, RAN Improvement and Evolution of bearers on the radio to enable IP based multimedia in UMTS Features

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

(one Work Item identified as a building block)

13. RAB Quality of Service Negotiation/Renegotiation over lu

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000137, major revision RP-000498, rest in WI 32. RAB Quality of Service Negotiation)

Work Item Description

Title

RAB Quality of Service Negotiation/Renegotiation over Iu

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

None

3 Justification

In release 99, UTRAN can only accept or reject a radio access bearer request from the core network. For services that could accept looser QoS requirements than those requested by the CN in the RAB establishment request there exist no means for UTRAN to propose alternative (looser) QoS. For such services the RAB establishment will fail, or alternatively the CN could re-attempt the RAB reestablishment with looser QoS requirements which would significantly increase the setup time.

Release 99 also does not allow the UTRAN to renegotiate RAB/QoS parameters for on-going calls/session. Since the UTRAN is responsible for managing the radio resources, it is necessary for the UTRAN to be able to initiate RAB renegotiation for efficient use of the radio interface.

4 Objective

This work item should enhance the Radio Access Bearer setup to something more sophisticated using e.g. QoS profiles to align with the already existing CN solution used in GPRS. However, it should be as simple as possible.

This work item should also enhance the management of Radio Access Bearers for on-going calls/session so that QoS parameters can be renegotiated by the UTRAN.

5 Service Aspects

The intention with the work item is to reduce the setup time of services.

The intention is also to allow continuation of service through UTRAN initiated QoS renegotiation.

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					

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

				New sp	ecifications		
Spec No.	Title		Prime rsp. WG		Presented for information at plenary#	Approved at plenary#	Comments
			Affe	cted exist	ing specificati	ons	
Spec No.	CR	Subject			Approved at		Comments
25.413					RAN #11		
23.060							
24.008							

Work item raporteurs

Anders Molander, Ericsson

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

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

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

UTRAN Improvement Feature

14. RRM optimizations for lur and lub

Last distributed as: RP-010272 (originally RP-000310)

The Work Tasks finished in TSG-RAN #11 are mentioned in this WI description

Work Item Description

Title

RRM optimizations for Iur and Iub

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

Optimising the existing procedures will increase the efficiency of UTRAN and the quality of service to the end user.

4 Objective

This work item focuses on optimising the existing procedures and functions related to:

1) Congestion handling of DCH

Currently a DRNC accepting a dedicated RL, in principle needs to reserve resources for the maximum bitrate which could possibly be required for the DCH's on this RL. This because the DRNC has a very limited view on the load statistics of the DCH's (source descriptor) and has no possibility to control the DL-rate of the DCH's in congestion situations.

2) Procedure parallelism on Iub/Iur

Currently almost no procedure parallelism is allowed in NBAP/RNSAP (dedicated) procedures. As a result, an RRM procedure used for handling problems in a fast changing radio environment, could have to wait for termination of a procedure e.g. introducing a new service on the RL.

In order to improve the capability of the UTRAN to respond to fast changes in the radio environment, the restrictions on parallelism between procedures coping with radio environment changes (e.g. RL_ADDITION/RL_DELETION) and other procedures (e.g. RL_RECONFIGURATION) should be decreased.

3) DPC Rate Reduction in soft handover

Currently R1 describes two DPC_modes in 25.214, however mode change signalling is not supported by R3.

By supporting DPC-mode change signalling in the UTRAN, the UTRAN should be better capable of combating power drifting in the DL.

4) Introduction of common measurements over Iur

It is proposed to study the usefulness of / possibilities for introducing common measurements on Iur. For example, at present an SRNC has no information regarding cell load information in

neighbouring cells on a DRNC when making soft handover decisions. A study should indicate whether clear benefits exist of providing such load information to a neighbouring CRNC.

If this, or other possible measurements are identified, a common measurement procedure as currently supported on Iub could be introduced in RNSAP.

5) Extension of Radio Interface Parameters updating in the user plane

Currently the Iub/Iur DCH FP supports a fast update of the TPC Power Offset in the DL RL via user plane signalling.

It should be studied if more radio interface parameters would benefit from a similar handling. If such parameters are identified, the user plane should be extended for this purpose.

6) Separation of resource reservation and radio link activation

This work task aims at introducing the possibility to have dedicated resources reserved in UTRAN without transmitting energy on the corresponding radio link(s). Furthermore, a separate mecha-nism for activating and deactivating radio transmission related to the reserved resources shall be introduced.

The separation will enable the following optimisations in UTRAN:

- delayed activation of a radio link at soft handover for high bit rate users, thus avoiding a potential handover problem;
- quicker channel type switching back to Cell_DCH;
- quicker radio link additions of radio links that recently were part of the active set;
- 7) Triggering of the Common Transport Channel Resources Initiation procedure by DRNC Currently the DRNC has no possibility to request an SRNC to move a UE from using one combination of RACH/FACH channels to other RACH/FACH channels. However this functionality is provided by R(99) RRC signalling and is considered beneficial for obtaining a good distribution of the common resource usage in the DRNS.

For R(00) an appropriate solution should be specified to provide this capability to the DRNC.

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			

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

It is proposed to maintain the "RRM optimizations for Iur and Iub Building Block" as a continuously ongoing Building Block.

It is also proposed to handle Release 5 worktasks under this BB in separate WI-sheets, and result in separate TR's. Therefore, TR25.935 can be brought to v4.0.0, finalising the 6 worktasks indicated below.

1) Congestion handling of DCH

	New specifications										
Spec No.	Title		Prime 2 nd ary rsp. Presented for endorsement at plenary#		Approved at plenary#	Comments					
25.935		optimizations and lub	WG3		RAN #11	RAN #11					
	Affected existing specifications										
Spec No.	CR	Subject			Approved a	t plenary#	Comments				
25.423	339	RNSAP	_		RAN #11						

2) Procedure parallelism on Iub/Iur

				New sp	ecifications		
Spec No.	Title		Prime rsp. WG		Presented for endorsement at plenary#	Approved at plenary#	Comments
25.935	RRM optimizations for lur and lub		WG3		RAN #11	RAN #11	
	I		Affe	cted exist	ing specificat	ions	<u> </u>
Spec No.	CR	Subject			Approved at plenary#		Comments

Finalised without specification impact.

3) DPC Rate Reduction in soft handover

	New specifications										
Spec No.	Title	Prime rsp. WG WG(s) Pres endo plena		rsement at	Approved at plenary#	Comments					
25.935		optimizations and lub	WG3		RAI	N #11	RAN #11				
			Affe	cted exist	ing s	pecification	ns				
Spec No.	CR	Subject				Approved a	t plenary#	Comments			
25.427	45	lub/lur dedica user plane	lub/lur dedicated transport channel user plane								
25.423	320	RNSAP				RAN #11					
25.433	373	NBAP				RAN #11					
25.433	387	NBAP					•				

4) Introduction of common measurements over Iur

New specifications								
Spec No.	Title		Prime rsp. WG	2 nd ary rsp. WG(s)		ented for orsement at ary#	Approved at plenary#	Comments
25.935	35 RRM optimizations for lur and lub		WG3		RAN	N #11	RAN #11	
	I		Affe	cted exist	ing s	pecification	ns	
Spec No.					Approved a	t plenary#	Comments	
25.420	12	lur general aspects and principles			es	RAN #11		
25.423	123 323 RNSAP			RAN #11				

5) Extension of Radio Interface Parameters updating in the user plane

				New sp	ecifications		
Spec No.	Title			2 nd ary rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#	Comments
25.935		optimizations r and lub	WG3		RAN #11	RAN #11	
Spec No.	CR	Subject	Affe	cted exist	ing specification Approved a		Comments

Finalised without specification impact.

6) Separation of resource reservation and radio link activation

Not finalised; proposed to be handled in separate WI-sheet for Release 5.

7) Triggering of the Common Transport Channel Resources Initiation procedure by DRNC

				New sp	ecifications		
Spec No.	Title			2 nd ary rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#	Comments
25.935		optimizations r and lub	WG3		RAN #11	RAN #11	
			Affe	cted exist	ing specification	ons	
Spec No.	CR Subject			Approved at plenary#		Comments	

Finalised without specification impact.

Work item raporteurs

Gert-Jan van Lieshout (Ericsson)

Work item leadership

TSG-RAN WG3

Supporting Companies

TSG-RAN

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

Radio Interface Improvement feature and UTRAN Improvement feature

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

Starting from Release 5, each Work Task under this Building Block will be described in a separate WI-sheet.

15. Radio access bearer support enhancement

Last distributed as: RAN Work Items after RAN 9 (originally RP-000140)

"Robust Header Compression" was finished in TSG-RAN #11

Work Item Description

Title

Radio Access Bearer support enhancement

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

3 Justification

The increasing interest in IP based services demands special optimisation of the means by which a radio access bearer can be provided by UTRAN.

4 Objective

This work item should have the scope of adding necessary functionality to the Uu and Iu interface in order to efficiently support RT traffic, e.g. VoIP. Examples of such functionality are:

- Radio Access Bearer multiplexing in PDCP
- Header compression for VoIP
 - Normally referenced from an IETF RFC
- Support of variable formats over Iu and unequal error protection over Uu
- Channel type switching for logical channels
 - Today it is only possible to switch all logical channels of one UE, not individual. For DSCH
 it would be much better to be able to switch single logical channels
- IP header removal as developed within GERAN

5 Service Aspects

The intention with the work item is to better and more efficient support IP based services.

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					

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

		_	New sp	ecifications	_	
Spec No.	Title	Prime rsp. WG	,	Presented for endorsement at plenary#	Approved at plenary#	Comments
		Affe	cted exist	ing specificati	ons	
Spec No.	CR	Subject	Approved at	plenary#	Comments	
25.331		RRC protocol specific	RRC protocol specification			
25.323		PDCP protocol specif	PDCP protocol specification			
25.413		UTRAN lu interface R signalling	RAN#11			
25.415		UTRAN lu interface user plane protocols		RAN#11		

Work item raporteurs

TSG-RAN WG2: Ainkaran Krishnarajah (Ericsson) TSG-RAN WG3: Martin Israelsson (Ericsson)

Work item leadership

TSG-RAN WG2

Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

		Feature (go to 14a)
Ī	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 (one Work Item identified as a feature)

- RAN Improvement
- Evolution of bearers on the radio to enable IP based multimedia in UMTS

14c The WI is a Work Task: parent Building Block (one Work Item identified as a building block)

16. Improvement of inter-frequency and inter-system measurements

17. Improved usage of downlink resource in FDD for CCTrCHs of dedicated type

18. IP transport in UTRAN

19. Transcoder Free Operations in UTRAN

Last distributed as: RAN_Work_Items_after_RAN_10 (originally RP-000507)

Work Item Description

Transcoder Free Operations in UTRAN

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Out of band Transcoder Control (CN Work Item)

3 Justification

This WI is the complementary part of the WI that has been agreed for TSG CN. It shall provide more details for the Radio Access Network standardisation that is required for the Transcoder Free Operation.

4 Objective

- The number of transcoders to be installed in the core network can be minimised.
- The bandwidth to be provided in the core network may be reduced by TrFO or transcoder at the core network edge for both MS to MS calls and for MS from/to wireline calls.

5 Service Aspects

The service aspects for Transcoder Free Operation are:

- Usage of the framing protocol as defined in TS 25.415 in the Core Network needs to be supported
- Symmetrical set of RFCIs needs to be supported
- The behaviour of an RNC for receiving RFCIs at Iu UP initialisation from the core network shall be changed to be applied for both uplink and downlink.
- The mechanism to make the RFCIs available during TrFO Break needs to be supported (storage of RFCIs)
- Specific adaptations of the inband rate control procedure needs to be performed ("distributed ", "maximum ", and "immediate rate control")
- RNC behaviour on a RAB Assignment Request needs to be adopted for TrFO calls.
- 25.415 should in principle define the IuUP framing protocol in a way, that it covers its applicability for the Nb interface as well. This needs to be confirmed and co-ordinated with CN3.

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			
Don't know					X

				New spe	cifications		
Spec No.		Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.153	Out of Band Transcoder Control - Stage 2		CN4	RAN3	TSG-CN#7	TSG-CN#10	
			Affe	cted existi	ng specification	ons	
Spec No.	CR		Subject			Approve d at plenary#	Comments
TS 25.401						TSG- RAN#11	
TS 25.410						TSG- RAN#11	
TS 25.413		see "Service	Aspects"			TSG- RAN#11	
TS 25.415		see "Service	Aspects"			TSG- RAN#11	

Work item rapporteurs

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Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

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

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

14b The WI is a Building Block: parent Feature

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

Out of Band Transcoder Control

20. Evolution of the transport in the UTRAN

21. Radio Interface Improvement Feature

22. RAN Improvement Feature

23. UE Positioning

24. Void (Radio Interface Testing)

Last distributed as: -

This Work Item was deleted from the approved Work Items at TSG-RAN #9

25. Void (Requirement on Equipment)

Last distributed as: -

This Work Item was deleted from the approved Work Items at TSG-RAN #10

26. Low chip rate TDD physical layer

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000311)

Work Item Description

Title

Low chip rate TDD physical layer

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Low Chip Rate TDD UE radio access capabilities

Low chip rate TDD Layer 2 and Layer 3 protocol aspects

Low chip rate TDD Iub/Iur protocol aspects

Smart Antenna

Low chip rate TDD RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

Low Chip Rate TDD Inter-working with GERAN

3 Justification

For the low chip rate TDD, it has commonalties but also difference on physical layer with the high chip rate TDD option e.g. chip rate, frame structure, burst structure, some physical layer procedures etc. This paper is to describe one of the low chip rate TDD building blocks –physical layer.

4 Objective

The technical objective of this work item is to clarify the integration work to be done for the physical layer. And this work will affect the specifications for working group on physical layer. The integration work for low chip rate TDD with its properties should maximize the commonality with high chip rate TDD options.

- For physical layer, it includes the following work tasks:
 - Physical Channels and Mapping of Transport Channels onto Physical Channels
 - Multiplexing and Channel Coding
 - Modulation and spreading
 - Physical layer procedures
 - Physical Layer Measurements

5	Serv	ice A	Asp	ect	S

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

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

				New	specification	ns		
Spec No.	Title)	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorseme nt at plenary#	Appro	oved at plenary#	Comme nts
25.928	Rate	e TDD sical	WG1		RAN #10	RAN		
	1	1		fected e	xisting spec	ificati		,
Spec No.	CR	Subject					Approved at plenary#	Comme nts
25.201		Physica	l layer	– Genera	al description		RAN#11	
25.221		Physica	Physical channels and mapping of ransport channels onto physical channels				RAN#11	
25.222		Multiple	xing an	d chann	el coding (TE	DD)	RAN#11	
25.223		Spreadi	ding and modulation (TDD)				RAN#11	
25.224		TDD; pl	physical layer procedures				RAN#11	
25.225		Physica	al layer; measurements				RAN#11	
25.302		Service	s Provi	s Provided by the physical layer			RAN#11	
25.944		Channe example	nnel coding and multiplexing				RAN#11	

Work item raporteurs

Mr. Guiliang Yang (CATT/CWTS)

Work item leadership

TSG-RAN WG1

13 Supporting Companies

TSG-RAN

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

Low chip rate TDD

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

(one Work Item identified as a building block)

27. Low chip rate TDD layer 2 and layer 3 protocol aspects

Last distributed as: RAN Work Items after RAN 9 (originally RP-000312) **Work Item Description**

Title

Low chip rate TDD layer 2 and layer 3 protocol aspects

1 **3GPP Work Area**

X	Radio Access
	Core Network
	Services

2 **Linked work items**

Low Chip Rate TDD physical layer

Low chip rate TDD Iub/Iur protocol aspects Smart Antenna

Low chip rate TDD RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

Low Chip Rate TDD Inter-working with GERAN

Low chip rate TDD UE radio access capabilities

3 Justification

Although most of the L2/L3 features are common with high chip rate TDD option, there are some differences, e.g. modification of signalling, baton handover etc., which should be described and clarified. Basically, most of them were originated from the differences of physical layer between low chip rate TDD and UTRA TDD and the involvement of Smart Antenna. This paper is to describe one of the low chip rate TDD building blocks – layer 2 and layer 3 protocol aspects.

4 **Objective**

The technical objective of this work item is to complete the low chip rate TDD L2/L3 functionality adaptation in UTRA TDD. And this work will affect the specifications for working group on L2/L3. The integration work for low chip rate TDD with its properties should follow the principle to maximize the commonality with high chip rate TDD.

- For layer 2 and layer 3 protocol aspects, it includes the following work tasks:
 - UE procedures in idle mode
 - Interlayer procedures in connected mode
 - Control plane protocol aspects
 - User plane protocol aspects
 - mobility aspects

_	α •	A 4
•	Service	Achaete

None

MMI-Aspects 6

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

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

				New	specification	ns		
Spec No.	Title)	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorseme nt at plenary#	Appro	oved at plenary#	Comme nts
25.834	rate laye laye prot	chip TDD er 2 and er 3 ocol ects	WG2		RAN #11	RAN	#11	
			Af	fected e	xisting spec	ificati	ons	
Spec No.	CR	Subject					Approved at plenary#	Comme nts
25.301		Radio ir	nterface	protoco	I architecture		RAN#11	
25.302		Service	provide	ed by the	physical Lay	er	RAN#11	
25.303		UE functions and Inter-layer procedures in RAN connected mode				RAN#11		
25.304		UE procedures in idle mode and procedures for cell reselection in connected mode				RAN#11		
25.305		Stage 2 functional specification of location service in UTRAN (LCS)					RAN#11	
25.321		Medium access control (MAC) protocol specification					RAN#11	
25.322		Radio link control(RLC) protocol specification					RAN#11	
25.331		Radio resource control (RRC) protocol specification				ol	RAN#11	
25.324		Radio Interface for Broadcast/Multicast Services				RAN#11		
25.925		Radio Interface for Broadcast/Multicast Services				ast	RAN#11	
25.922		Radio F	Radio Resource Management Strategies				RAN#11	

1.1.1 11 Work item raporteurs

Mr. Yanhui LIU (CATT/CWTS)

Work item leadership

TSG-RAN WG2

13 Supporting Companies

TSG-RAN

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

low chip rate TDD

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

(one Work Item identified as a building block)

14b The WI is a Building Block: parent Feature

low chip rate TDD

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

(one Work Item identified as a building block)

28. Low Chip Rate TDD RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000313) Work Item Description

Title

RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Low chip Rate TDD physical layer Low Chip Rate TDD UE radio access capabilities Low chip rate TDD Layer 2 and Layer 3 protocol aspects Low chip rate TDD Iub/Iur protocol aspects Low Chip Rate TDD Inter-working with GERAN Smart Antenna

3 Justification

For the low chip rate TDD, due to the difference on chip rate, the parameters for RF are affected like e.g. operation band width, mask, out of band emission, blocking, etc. This paper is to describe one of the low chip rate TDD building blocks - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing.

4 Objective

The technical objective of this work item is the description of the low chiprate TDD RF characters, the system performance requirements and conformance testing. And this work will affect the specifications for working group on RF character and other working group related to the system performance and conformance testing and the work on UE radio access capability.

- As a building block, it includes the following work task:
- UE radio transmission and reception
- BTS radio transmission and reception
- BTS Conformance testing
- BTS Electromagnetic compatibility
- Requirements for support of Radio Resource Management

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 **Security Aspects**

None

9 **Impacts**

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

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

				New	specification	ns		
Spec No.	Title)	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorseme nt at plenary#	1 1 1 2 2 2 2 2 1 1		Comme nts
25.945			WG4		RAN #10	RAN	#11	
			Af	fected e	xisting spec	ificati	ions	
Spec No.	CR	Subject				Approved at plenary#	Comme nts	
25.102		UE Radio Transmossion and Reception (TDD)					RAN#11	
25.105		BTS Radio Transmission and Reception RAN#11 (TDD)						
25.123		,					RAN#11	
25.142		Base station conformance testing(TDD)				RAN#11		
25.942							RAN#11	
25.113		Base station EMC			RAN#11			
25.133		Requirements for support of Radio Resource Management (FDD)			RAN#11			

11 Work item raporteurs

Mr. Daijun Zhang (CATT/CWTS)

12 Work item leadership

TSG-RAN WG4

Supporting Companies TSG-RAN 13

14 Classification of the WI (if known)

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

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

Low chip rate TDD

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

(one Work Item identified as a building block)

29. Void (Smart antenna)

Last distributed as: -(originally RP-000314)

This Work Item was deleted from the approved Work Items at TSG-RAN #10

30. Low Chip Rate TDD UE radio access Capability

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000315)

Work Item Description

Title

Low chip rate TDD UE radio access capability

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Low Chip Rate TDD physical layer

Low chip rate TDD Layer 2 and Layer 3 protocol aspectsLow chip rate TDD lub/lur protocol aspects Smart Antenna

Low chip rate TDD RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

Low Chip Rate TDD Inter-working with GERAN

3 Justification

For the low chip rate TDD, it has commonalties but also difference on radio access capabilities with the high chip rate TDD option e.g. usage of timeslots for different UE classes, usage of USCH/DSCH, etc. This paper is to describe one of the low chip rate TDD building block – UE radio access capabilities.

4 Objective

The technical objective of this work item is complete the UE radio access capabilities. And this work will affect the specifications for working group on UE radio access capability.

- For UE radio access capability, it includes the following work tasks:
 - Definition of UE radio access capabilities for low chip rate option

5	Service Aspects
	None
6	MMI-Aspects
	None
7	Charging Aspects

8 Security Aspects

None

None

9 Impacts

Affect	USIM	ME	AN	CN	Others
s:					
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 Title No.		Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorseme nt at plenary#	Appro	oved at plenary#	Comme nts
Affected existing specifications							
Spec CR Subject No.					Approved at plenary#	Comme nts	
25.926 UE Radio Access Capabilities					RAN #11		

Work item raporteurs

Mr. Yanhui LIU (CATT/CWTS)

Work item leadership

TSG-RAN WG2

13 Supporting Companies

TSG-RAN

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

Low chip rate TDD

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

(one Work Item identified as a building block)

31. Low chip rate TDD UTRAN network lub/lur protocol aspects

Last distributed as: Revised WI sheet (LCRTDD-IubIur) (originally RP-000316)

Work Item Description

Title

Low chip rate TDD lub/lur protocol aspects

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

Low Chip Rate TDD physical layer

Low chip rate TDD layer2 and layer3 protocol aspects

Smart Antenna

Low chip rate TDD RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

Low chip rate TDD UE radio access capabilities

Low Chip Rate TDD Inter-working with GERAN

3 Justification

In Iub and Iur interfaces, especially, low chip rate TDD will result in adaptations of Information Elements in radio link related signaling, to support the changed physical channel parameters. In addition, low chip rate TDD should define some procedures which are different from those of high chip rate TDD such as uplink synchronisation. This paper is to describe one of the low chip rate TDD building blocks – Low chip rate TDD Iub/Iur protocol aspects

4 Objective

The integration work for low chip rate TDD with its properties should follow the principle to maximize the commonality with high chip rate TDD.

- For Low chip rate TDD Iub/Iur protocolaspects, it includes the following work tasks:
 - Iub aspects
 - Iur aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affect	USIM	ME	AN	CN	Others

s:					
Yes			X		
No	X	X		X	X
Don't					
know					

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

				New	specificatio	ns		
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorseme nt at plenary#	Approved	at plenary#	Comme nts
25.937	chip r	lub/lur col	WG3		RAN #11	RAN #11		
			Af	fected ex	xisting spec	ifications		
Spec No.	CR	Subje	ct				Approved at plenary#	Comme nts
25.401	23	UTRA	N Ove	all Desci	ription		RAN#11	
25.402	14	Synch	ronisat	ion in UT	RAN Stage 2	2	RAN#11	
25.433	358, 359	UTRA	N lub l	nterface	NBAP Signal	ling	RAN#11	
25.423	309	UTRA	N Iur Ir	nterface F	RNSAP Signa	alling	RAN#11	
25.425	23	for (UTRAN lur Interface User Plane Protocols R					
25.427	42	UTRA Proto		-,	nterface Us ta streams	er Plane	RAN#11	
25.430	14	UTRA Princi		nterface:	General As	spects and	RAN#11	
25.435	37		Commo		User Plane Sport Char			

Work item raporteurs

Mr. Bing Xu (CATT/CWTS)

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature low chip rate TDD

14c The WI is a Work Task: parent Building Block (one Work Item identified as a building block)

32. RAB Quality of Service Negotiation over lu

Last distributed as: RAN_Work_Items_after_RAN_9 (originally partly in RP-000137, revised in RP-000499)

Work Item Description

Title

RAB Quality of Service Negotiation over Iu

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

None

3 Justification

In release 99, UTRAN can only accept or reject a radio access bearer request from the core network. For services that could accept looser QoS requirements than those requested by the CN in the RAB establishment request there exist no means for UTRAN to propose alternative (looser) QoS. For such services the RAB establishment will fail, or alternatively the CN could re-attempt the RAB reestablishment with looser QoS requirements which would significantly increase the setup time.

4 Objective

This work item should enhance the Radio Access Bearer setup to something more sophisticated using e.g. QoS profiles to align with the already existing CN solution used in GPRS. However, it should be as simple as possible.

5 Service Aspects

The intention with the work item is to reduce the setup time of services.

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			

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

				New sp	ecifications		
Spec No.	ec No. Title		rsp. WG rsp. WG(s) int		Presented for information at plenary#	Approved at plenary#	Comments
			Affe	cted exist	ing specificati	ons	
Spec No.	CR	Subject			Approved a		Comments
25.413					RAN #11		
23.060							
24.008							

Work item raporteurs

Anders Molander, Ericsson

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

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

UTRAN Improvement Feature

33. RAB Quality of Service Renegotiation over lu

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000500)

Work Item Description

Title

RAB Quality of Service Renegotiation over Iu

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

None

3 Justification

Release 99 also does not allow the UTRAN to renegotiate RAB/QoS parameters for on-going calls/session. Since the UTRAN is responsible for managing the radio resources, it is necessary for the UTRAN to be able to initiate RAB renegotiation for efficient use of the radio interface.

4 Objective

This work item should also enhance the management of Radio Access Bearers for on-going calls/session so that QoS parameters can be renegotiated by the UTRAN.

5 Service Aspects

The intention is also to allow continuation of service through UTRAN initiated QoS renegotiation.

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					

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

	New specifications										
Spec No.	pec No. Title		Prime rsp. WG		Presented for information at plenary#	Approved at plenary#	Comments				
			A#-	-11							
			Affe	ctea exist	ing specificati						
Spec No.	CR	Subject			Approved at	plenary#	Comments				
25.413					RAN #11						
23.060											
24.008											

Work item raporteurs

Sania Irwin, Motorola

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

		Feature (go to 14a)
		Building Block (go to 14b)
Χ	ζ	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

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

UTRAN Improvement Feature

34. lub/lur interfaces for UE positioning methods supported on the radio interface release 99

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000509)

Work Item Description

Title

Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

Currently, the UE positioning if a function of UTRAN where several methods are supported on the radio interface:

- cell coverage based positioning method;
- OTDOA method with network configurable idle periods; and
- network assisted GPS method.

Nevertheless, only the cell coverage based positioning method is supported on the Iub and Iur interface of release 99.

4 Objective

The purpose of this work item is to add on the Iub and Iur protocols the necessary support for the positioning methods defined for release 99.

5 Ser	vice A	Aspects
-------	--------	---------

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

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

	New specifications										
Spec No.	Title	ītle		2ndary	y Presented for VG(s) information at plenary#		Approved at plenary#	Comments			
			Affe	cted existi	ing	specificatio	ns				
Spec No.	CR	Subject				Approved at p	olenary#	Comments			
25.401		UTRAN Ove	erall Do	escriptio	n	RAN	l #10				
25.420		UTRAN lur General As				RAN	l #10				
		Principles									
25.423		UTRAN lur RNSAP Sig				RAN	l #10				
25.430		UTRAN lub General As Principles				RAN	l #10				
25.433		UTRAN lub Signalling	Interfa	ice NBA	Р	RAN	l #10				

Work item raporteurs

to be decided by RAN WG3

Work item leadership

TSG-RAN WG3

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

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

UE positioning

35. UE positioning enhancements

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000509)

"IPDLs for TDD" was finished in TSG-RAN #11

Work Item Description

1. Title

UE positioning enhancements

1 3GPP Work Area

X	Radio Ad	ccess			
	Core Net	work			
	Services				

2 Linked work items

none

3 Justification

UE positioning is a function of UE and UTRAN (Access Stratum) which can be utilised for a number of purposes:

- Radio Resource Management
- Support for location based services (LCS)

Different accuracy can be requested when positioning a UE for these purposes.

4 Objective

The purpose of this work item are to increase the accuracy of the UE positioning or define methods allowing UE positioning with less complexity for a given accuracy.

Examples of enhancements are:

- Addition of IPDL for UE positioning in TDD [This was finished in TSG-RAN #11]
- Almanac corrections

5 So	ervice 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	
Don't know					

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

				New spe	ecif	ications		
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	info	esented for ormation at nary#	Approved at plenary#	Comments
				l				
On an Nin	lop.	Outstand	Affe	cted exist	ing	Approved at p		0
Spec No. 25.305	CR	Stage 2 Fur Specificatio Services in	n of Lo	cation		RAN		Comments
25.123		Requirements Radio Resour (TDD)	ce Mana	agement		RAN		
25.224		Physical La (TDD)	-	ocedures	3	RAN		
25.225		Physical lay Measureme	er – ents (TI	DD)			l #11	
25.302		Services prophysical lay		by the		RAN	l #11	
25.303		Interlayer p		res in		RAN	l #11	
25.304		UE Procedu and Proced Reselection Mode	ures fo	r Cell	de	RAN	l #11	
25.331		RRC Protoc	col Spe	cificatio	n	RAN	l #11	
25.420		UTRAN lur General As Principles	Interfa	ce:		RAN	l #11	
25.423		UTRAN lur RNSAP Sig				RAN	l #11	
25.430		UTRAN lub General As Principles	Interfa pects a	ace: and		RAN		
25.433		UTRAN lub Signalling	Interfa	ice NBA	Ρ	RAN	l #11	

Work item rapporteur

Mark Beckmann, Siemens AG

Work item leadership

TSG-RAN WG2

13 Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

		Feature (go to 14a)
3	K	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

UE positioning

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

36. RAN Technical Small Enhancements and Improvements

Last distributed as: - (originally in RP-000468 as R4-000729)

This WI was replaced by a general WI for all TSGs established during TSG-SA #10 in Bangkok. No WI sheet was needed.

37. DSCH power control improvement in soft handover

Last distributed as: RAN_Work_Items_after_RAN_9 (originally RP-000442)

Work Item Description

Title

DSCH power control improvement in soft handover

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

After consideration in TSG RAN WG1 it was identified that DSCH power control operation in case of soft handover possibility (for the associated DCH is) needs improvement. This topic has been studied in TSG RAN WG1 as part of the study item "radio link performance improvements".

1.1.2 4 Objective

- The purpose of this work item is to specify improvement for the DSCH power control operation.

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	
Don't know					

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

	New specifications								
Spec No.	Title	īitle		2ndary rsp. WG(s)	infor	sented for rmation at ary#	Approved at plenary#	Comments	
25.841	DSCH power control improvement in SHO		WG1			N #11	RAN #11		
			1.55			161 41			
	100	la	Affe	cted exist	_	specificatio			
Spec No. 25.211	CR	Physical Channels and mapping of transport channels to physical channels (FDD)			g	Approved at p RAN		Comments	
25.214		Physical Layer Procedures (FDD)				RAN	#11		
25.331		RRC Protocol Specification				RAN	#11		
25.423		UTRAN Iur Interface RNSAP Signalling			P	RAN	#11		
25.433		UTRAN Iub Signalling	Interfa	ce NBAP)	RAN	#11		
25.101						RAN	#11		
25.104						RAN	#11		
25.141						RAN	#11		
34.121						RAN	#11		

Work item raporteurs

Antti Toskala, Nokia

Work item leadership

TSG-RAN WG1

13 Supporting Companies

TSG-RAN

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

This is a building block part of the radio interface improvement feature.

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

(one Work Item identified as a building block)

38. Transport bearer modification procedure on lub, lur, and lu (originally Migration to Modification procedure)

Last distributed as: Revised WI sheet (Mod) (originally RP-000446)

Work Item Description

Title

Migration to Modification procedure

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

(list of linked Wis)

3 Justification

Subclause 7.8 "Radio access bearer modification" of 3G TR 25.931 "UTRAN functions, examples on signalling procedures" (Release 99) utilizes Modification procedure of transport network bearer. But it is associated with a note that if the referred signalling protocol does not have the modification procedure, tentative procedure with establish new bearer and then release old one is applied to. The referred signalling protocol does not have the procedure.

The modification procedure has advantages to the tentative procedure in the transport network bearer bandwidth optimization and required number of signalling messages for the capability. Furthermore the procedure also becomes functionally less complex; A transport channel needs no longer be moved from one transport bearer to another. Especially in the unsynchronised reconfiguration case (e.g. subclause 7.14.1 (should be 7.14.2) "Unsyncronised transport channel reconfiguration" in TR 25.931), the current/tentative procedure seems quite complex with respect to the "moment of moving".

4 Objective

In Release 2000 time frame, the modification procedure is available in enhanced the referred transport network signalling protocol.

This work item is to make successful migration from the tentative procedure to the modification procedure.

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		
No	X	X		X	X
Don't know					

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

				New spe	ecific	cations		
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Pres	ented for mation at	Approved at plenary#	Comments
			WG3				RAN #10	
On a Nie	lop.	Toute of	Affe	cted existi	_	pecification		0
Spec No.	CR 15	Subject UTRAN lu inte	erface: o	eneral		Approved at RAN #11	pienary#	Comments
25.410		aspects and p						
TS 25.413	250	UTRAN lu Inte Signalling	erface R	ANAP	F	RAN #11		
TS 25.414	25	UTRAN lu interface: data transport & transport signalling				RAN #11		
TS 25.420	10	UTRAN lur int aspects and p			F	RAN #11		
TS 25.424	9	UTRAN lur int transport & tra common trans streams	insport s	signalling f	or	RAN #11		
TS 25.426	12	UTRAN lur an data transport signalling for I	& trans	port		RAN #11		
TS 25.430	16	UTRAN lub in aspects and p			F	RAN #11		
TS 25.434	7	UTRAN lub in transport & tra common trans streams	insport s	signalling f	or	RAN #11		
TR 25.931	6	UTRAN function signalling processing		amples on	F	RAN #11		

Work item rapporteurs

Takayuki Yoshimura (Japan Telecom)

Work item leadership

TSG-RAN WG3

13 Supporting Companies

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

(one Work Item identified as a feature)

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

Evolution of transport in UTRAN

39. UMTS 1800

Last distributed as: RP-010915 (originally RP-000448)

Work Item Description

Title

UMTS 1800

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

none

3 Justification

A decision was made at WARC 00 to extend the current IMT 2000 frequency allocation to include the current 2G cellular bands.

4 Objective

The purpose of this work item is to add the following frequency band to the 3GPP specifications

UMTS 1 800 Band:

1 710 - 1 785 MHz: mobile transmit, base receive 1 805 - 1 880 MHz: base transmit, mobile receive

A report will be generated to study the radio compatibilities of DCS1800 and UMTS1800.

TSG RAN WG2 will be asked to study the terminal capabilities. TSG RAN WG3 will be asked to study any possible interface impacts.

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					

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

		_		New spe	ecif	ications	-	
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	info	esented for ormation at nary#	Approved at plenary#	Comments
			Affo	oted exist	ina	specification		
Spec No.	CR	Cubicat	Alle	cieu exist	ing	Approved at		Comments
25.101	Oit	Subject UE Radio transmission and reception (FDD)			on		I #14	Commone
25.104		UTRA (BS)	UTRA (BS) FDD; Radio transmission and reception			RAN	I #14	
25.141			ase station conformance			RAN	l #14	
34.121		Terminal Co Specification Transmission	nforma ı, Radic	•		T #	<i>‡</i> 14	

Work item raporteurs

Howard Benn (howard.benn@motorola.com)

Work item leadership

TSG-RAN WG4

Supporting Companies

TSG-RAN

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	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

This is a building block part of the radio interface improvement feature.

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

Radio Interface Improvement Feature

40.	RAN	work for	· Intra	Domain	Connection	of RAN	Nodes to	Multiple	CN
No	des							-	

41. RAB Quality of Service Negotiation over lu during relocation

Last distributed as: RP-010168

Work Item Description

Title

RAB Quality of Service Negotiation over Iu during relocation

1 3GPP Work Area

X	Radio Access
X	Core Network
	Services

2 Linked work items

None

3 Justification

In release 99, for services that could accept looser QoS requirements than those requested by the CN in the relocation request, there exist no means for UTRAN to propose alternative (looser) QoS. For such services the relocation will fail.

4 Objective

This work item should enhance the relocation so that QoS parameters can be negotiated by the UTRAN during relocation. However, it should be as simple as possible.

5 Service Aspects

The intention of the work item is to allow continuation of service during relocation

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					

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

			_	New sp	ecifications		
Spec No.	Title		Prime rsp. WG		Presented for information at plenary#	Approved at plenary#	Comments
			Affe	cted exist	ing specificati	ons	
Spec No.	CR	Subject			Approved a		Comments
25.413					RAN #11		
23.060							
24.008							

Work item raporteurs

Chenghock Ng, NEC

Work item leadership

TSG-RAN WG3

Supporting Companies

NEC, Siemens, Motorola, Telecom Italia, Alcatel

14 Classification of the WI (if known)

		Feature (go to 14a)
ſ		Building Block (go to 14b)
	X	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

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

UTRAN Improvement Feature

42. Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning

Last distributed as: RP-010414

Work Item Description

Title: Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning

13GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None identified.

3 Justification

At the 3GPP LCS Work Shop held in London on 1/11/01 and 1/12/01 it was agreed that for A-GPS positioning, sufficient functional separation existed with RNC functions to justify the opening the interface towards a standalone SMLC.

4 Objective

The objective of this work item is to provide for support of an open interface between the SMLC and the SRNC within the UTRAN for the support of A-GPS positioning. This new interface would be analogous to the Lb interface defined in the GSM LCS specifications with the exceptions that the positioning messages are terminated at the SRNC and mapped to release 99 RRC messages and that the positioning messages also support broadcast of LCS assistance data in support of the RRC broadcast messages.

The addition of the interface should be compatible the release 99 Iu, Iur and Iub and radio interfaces. The addition of this interface does not preclude the A-GPS to be supported in the SRNC.

5	Ser	vice	Aspects	
---	-----	------	---------	--

None identified.

6 MMI-Aspects

None identified.

7 Charging Aspects

None identified.

8 Security Aspects

None identified.

9 Impacts

Affects USIM ME AN CN Others

:					
Yes			X		
No	X	X		X	
Don't know					
know					

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

		New	/ specifi	cations		
Title		Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Positioning Calculation Application Part (PCAP)		RAN 2	RAN 3			
		RAN 2	RAN 3	RAN #13	RAN #13	_
UTRAN I _{upc} Interface: Layer 1		RAN 2	RAN 3	RAN #12	RAN #12	_
Genera	al Aspects and	RAN 2	RAN 3	RAN #12	RAN #12	
		Affactad a	victing	enocificatio	ne	
CR		Allecteu e				Comments
	,	re descrip				Add new lupc interface and new stand alone A-GPS SMLC network entity.
	UTRAN Stage 2			RAN #11		Modify Network Reference Model to show stand alone A-GPS SMLC and add stage 2 call flows for A-GPS positioning.
	Position Applica UTRAI Signall UTRAI Layer UTRAI Genera	Positioning Calculation Application Part (PCAP) UTRAN I _{upc} Interface: Signalling Transport UTRAN I _{upc} Interface: Layer 1 UTRAN I _{upc} Interface: General Aspects and Principles CR Subject UTRAN architectu Stage 2	Prime rsp. WG Positioning Calculation Application Part (PCAP) UTRAN I _{upc} Interface: Signalling Transport UTRAN I _{upc} Interface: RAN 2 Layer 1 UTRAN I _{upc} Interface: RAN 2 Layer 1 UTRAN I _{upc} Interface: RAN 2 General Aspects and Principles Affected e CR Subject UTRAN architecture descriptions	Title Prime rsp. 2ndary WG Positioning Calculation Application Part (PCAP) UTRAN I _{upc} Interface: RAN 2 RAN 3 Affected existing: RAN 2 RAN 3 UTRAN I _{upc} Interface: RAN 2 RAN 3 UTRAN I _{upc} Interface: RAN 2 RAN 3 UTRAN I _{upc} Interface: RAN 2 RAN 3 UTRAN architecture description; Stage 2	Positioning Calculation Application Part (PCAP) RAN 2 RAN 3 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #13 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #14 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #15 UTRAN architecture description; RAN #15	Title Prime rsp. WG 2 2ndary rsp. WG(s) Presented for information at plenary# Positioning Calculation Application Part (PCAP) UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #13 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #13 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN I _{upc} Interface: RAN 2 RAN 3 RAN #12 RAN #12 UTRAN architecture description; RAN #12

11 Work item raporteurs

Ie-Hong Lin (Qualcomm) Vince Jolley (Qualcomm)

12 Work item leadership

RAN 2

13 Supporting Companies

Qualcomm, SBC, Cingular Wireless, Samsung Electronics Research Institute, Hutchison 3G, NEC, Orange PCS, and Vodafone Group

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 UE positioning

xxx1 Provision of SRNC - SMLC Open Interface

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

43. High Speed Downlink Packet Access (HSDPA)

44. High Speed Downlink Packet Access (HSDPA) - *Physical Layer* This WI has not finished yet. See RAN_Work_Items.

45. High Speed Downlink Packet Access (HSDPA) - *layer 2 and 3 aspects*

46. High Speed Downlink Packet Access (HSDPA) - *lub/lur Protocol Aspects*

47. High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing This WI has not finished yet. See RAN_Work_Items.

48. Multiple Input Multiple Output antennas (MIMO)

49. Void (originally Gated DPCCH Transmission)

Last distributed as: RP-010266

This Work Item was deleted from the approved Work Items at TSG-RAN #12

50. UMTS 1900

Last distributed as: RAN_Work_Items_after_RAN_13 (originally RP-010234)

Work Item Description

Title:

UMTS 1900

For consideration under agenda item 6.11.

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

A decision was made at WARC 00 to extend the current IMT 2000 frequency allocation to include the bands currently occupied by PCS-1900. It is noted that Release 99 does not provide complete support for these bands. In addition, coexistence with other technologies has not been evaluated.

4 Objective

The purpose of this work item is to generate a report summarizing a study of co-existence of UTRA FDD and PCS1900, TIA/EIA-136, TIA/EIA/IS-95 in the following bands:

1850 – 1910 MHz: Up-link (UE transmit, Node B receive) 1930 – 1990 MHz: Down-link (Node B transmit, UE receive)

Based on the report the RF characteristics for both UE and BTS supporting this band will need to be added/corrected compared to Release 99.

TSG RAN WG2 will be asked to study the terminal capabilities. TSG RAN WG3 will be asked to study any possible interface impacts.

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~7	Service A	120000

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

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

10 Expected Output and Time scale

				New sp	ecif	ications		
Spec No.	Title		Prime rsp. WG			Approve d at plenary#	Comments	
			Affec	ted exist	ing	specificat	tions	
Spec No. 25.101	CR	Subject UE Radio tra	ınsmiss			Approved plenary# RAN#14		Comments
25.104		reception (FDD) UTRA (BS) FDD; Radio transmission and reception				RAN#14		
25.113		Requirements for Support of Radio Resource Management (FDD)				RAN#14		
25.133		Base Station Electromagnetic compatibility (EMC)			С	RAN#14		
25.141		Base station conformance testing (FDD)				RAN#14		
25.331		RRC Protocol				RAN#14		
25.942		RF System Scenarios				RAN#14		_
25.306		Radio UE capability				RAN#14		_
34.121		Terminal Co Specification Transmission	, Radio)		T#14		

Work item raporteurs

Howard Benn

Work item leadership

RAN WG 4

13 Supporting Companies

Cingular, AWS, Motorola, Nortel Networks, Nokia, Ericsson, VoiceStream Wireless

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

51. Enhancement on the DSCH hard split mode

52. NodeB Synchronisation for 1.28 Mcps TDD

53. RL Timing Adjustment

54. Separation of resource reservation and radio link activation This WI has not finished yet. See RAN_Work_Items.

55. Re-arrangement of lub Transport Bearers (originally Traffic Termination Point Swapping)

56.	Open inte	rface I	between	the SMLC	and the	SRNC w	vithin the	UTRAN
to s	support Re	el-4 po	sitioning	methods				

57. UE positioning enhancements for 1.28 Mcps TDD

58. Base Station Classification for 1.28 Mcps TDD

59. lur Common Transport Channel Efficiency Optimisation

60. lur Neighbouring cell reporting Efficiency Optimisation

61. Beamforming enhancements (originally Beamforming)

62. Beamforming requirements for UE

Last distributed as: RP-010950

Work Item Description

Title

Beamforming requirements for UE

1 3GPP Work Area

X	Radio Access
	Core Network
	Services

2 Linked work items

None

3 Justification

Beamforming with dedicated pilot symbols or with S-CPICH has potential to improve system capacity.

4 Objective

This work item should define the Rel'5 UE performance requirements for efficient support of beamforming.

5 Service Aspects

None/Text

6 MMI-Aspects

None/Text

7 Charging Aspects

None/Text

8 Security Aspects

None/Text

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	rsp. WG(s)	dary Presented for information at plenary#		Approved at plenary#	Comments	
Affected existing specifications								
Spec No.	CR	Subject			Арр	Approved at plenary#		Comments
TS 25.133	240	Active set size dedicated pilo		on for	TS	G RAN#	¥14	
TS 25.101	142	Performance requirement for dedicated pilot			TS	TSG RAN#14		

11 Work item raporteurs Jussi Kähtävä, Nokia.

Work item leadership TSG-RAN WG1 12

13

Supporting CompaniesNokia, Motorola, Panasonic, Qualcomm

14 Classification of the WI (if known)

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

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

The WI is a Building Block: parent Feature 14b

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

UTRAN Improvement Feature

63. Improvement of RRM across RNS and RNS/BSS

64. Support of Site Selection Diversity Transmission in UTI	RAN
This WI has not finished yet. See RAN_Work_Items.	

65. Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN