Doc For	TSG SA	TSG CN	TSG RAN	TSG T
Decision				
Discussion			X	
Information	X	X		X

Agenda Item:

Source: TTC

Title: **TTC Work Items for IMT-2000 - Radio Access Network TSG**

Document for: Discussion

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Please see attached Presentation

TTC Work Items for IMT-2000 - Radio Access Network TSG -

3GPP Radio Access Network TSG

Sophia Antipolis, France

December 7-8, 1998

TTC SWG6-4-1 & 6-5-1

Responsibility

ARIB and TTC share the responsibility for developing and maintaining the specification of Radio Access Network as follows;

ARIB

- Requirements for Base Station
- Relevant terminal aspects,
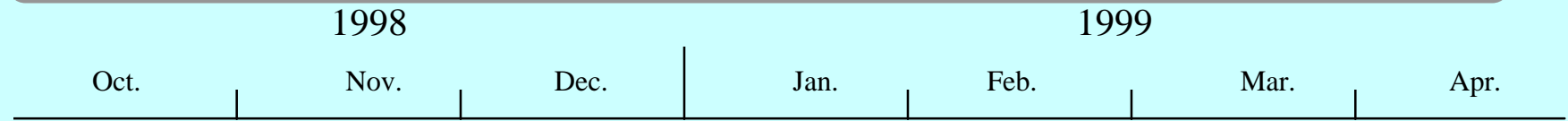- Layer 1 on MT-RAN Interface,
- Layer 2 (MAC) on MT-RAN interface,

-

TTC

- Layer 2 (LAC-C, LAC-U) on MT-RAN interface,
- Layer 3 (RR) on MT-RAN interface,
- Iu, Iur and Iub interface.

Joint discussion with ARIB

TTC 2

TTC's Overall Schedule for IMT-2000

	1998			1999			
Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.

3GPP

△ The end of Nov. determination of technical framework and work programme

△ Early Dec. Creation of PCGs and elect Chairmen

△ 7-11 Dec. or 14-17 Dec. Technical work starts

Proposed development schedule

△ Dec. 1998 Requirements and Objectives for Services and Systems

△ Dec. 1998 Air Interface Layer 1

△ Apr.. 1999 Other specification

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3

Work Item: VHE

Requirements

- Support of Standardized GSM supplementary services
- Support of existing PDC operator specific services
- Support of Multimedia Services
- Support of Operator Specific HMI
- Support of Supplementary Service Control by Subscribers

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	-	-	-

TTC

Work Item: High Speed Packet

Requirements
- Support various QoS requirements
- Co-ordination of Mobility Management for
  Circuit and Packet switched service
- Access point selection

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	✔	✔	✔

TTC

Work Item: High Speed Data

Requirements
- Various Bearer Capabilities
  (Voice, audio, video, data, unrestricted digital, etc.)
- Asymmetric Bearer

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	−	✔	✔

TTC

Work Item: ATM

Requirements
- ATM as high performance transport technology
- AAL 2 as high efficient transport for voice call
- ATM-SVC for various QoS support and network efficient usage
- Mapping between GPRS and ATM-SVC

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	–	–	✔

TTC

Work Item: W-CDMA

Requirements

- Soft Handover (Diversity Handover)
- Handover Triggered from both MT and NW
- Service and QoS
- Protection of Security and Privacy
- Efficient Resource Usage
- MS Classmark Information

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	✔	✔	✔

TTC

Work Item: Routing

Requirements
- Efficient Usage of Network Resources
- Inter-network Signalling Optimization
- No Impact on Existing Network
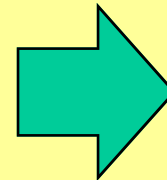
- Introduction of GLR
- Paging for Multi-MSC
- Path Minimization
- Pre-Routing Paging

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	−	−	−

TTC

Work Item: Call Connection Control

Requirements
- Multicall Services
- Bearer Change
- Bearer Negotiation
- Bearer Modification
- Codec/Adaptor Control
- Security Enhancement

- Point-to-multipoint
- Emergency Call

Protocol	LAC-C / U	RRC	Iu / Iur / Iub
Impact	✔	✔	✔

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IMT-2000 Documents

Work Area: Layer 2 (LAC) and Layer 3 (RR) on MT-RAN Interface

Doc #	Doc Title	Prime resp. SWG	2nd resp. SWG	Current status	Approval status: Planned or approved	remarks
	Air Interface Layer 2 LAC sub-layer (C-Plane)	6-4-1	ARIB	90%	Plan. 1999.4	
	Air Interface Layer 2 LAC sub-layer (U-Plane)	6-4-1	ARIB	75%	Plan. 1999.4	
	Air Interface Layer 3 Radio Resource control	6-4-1	ARIB	20%	Plan. 1999.4	

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IMT-2000 Documents

Work Area: Layer 3 (CC, MM) on MT-RAN Interface

Doc #	Doc Title	Prime resp. SWG	2nd resp. SWG	Current status	Approval status: Planned or approved	remarks
	Air Interface Layer 3 Call Control and Session Management	6-4-1	ARIB	85%	Plan. 1999.4	
	Air Interface Layer 3 Mobility Management	6-4-1	ARIB	92%	Plan. 1999.4	
	Air Interface Layer 3 Protocol Architecture	6-4-1	ARIB	75%	Plan. 1999.4	
	Air Interface Layer 3 Procedure	6-4-1	ARIB	0%	Plan. 1999.4	Start after Protocol spec become stable, and can be finalize within short time

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IMT-2000 Documents

Work Area: Iu, Iur, and Iub

Doc #	Doc Title	Prime resp. SWG	2nd resp. SWG	Current status	Approval status: Planned or approved	remarks
	UTRAN Architecture Description	6-5-1		80%	Plan. 1999.4	ETSI document
	Description of Iu Interface	6-5-1		30%	Plan. 1999.4	ETSI document
	Description of Iur Interface	6-5-1		30%	Plan. 1999.4	ETSI document
	Description of Iub Interface	6-5-1		30%	Plan. 1999.4	ETSI document
	UTRAN Functions, Examples on Signaling Procedures	6-5-1		20%	Plan. 1999.4	ETSI document
	Iu Interface Specification	6-5-1		10%	Plan. 1999.4	TTC document
	Iur Interface Specification	6-5-1		10%	Plan. 1999.4	TTC document
	Iub Interface Specification	6-5-1		-	Plan. 1999.12	Note

Note: If decided to be standardized.

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Annex 1: ToC of LAC-C Protocol

Annex 2: ToC of LAC-U Protocol

Annex 3: ToC of RRC Protocol

Annex 4: ToC of Protocol Architecture

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Annex 5: ToC of Iu Interface Specification

Annex 6:
ToC of Iur Interface Specification