Agenda Item: 2. Identification of work packages and input documents by each Partner Organization

Source: Convenor for WG2 (Yukio Hiramatsu, NTT)

Title: Reference documents for identifying work packages and deliverables for the TSG-SA WG2 (Architecture)

Document for: Information

Please find attached the table listing up documents from Partner Organizations together with titles, scope and summary of contents. This table has been prepared by the Convenor to stimulate discussion on WG2 work packages and deliverables.

ETSI documents: (see TSG#1Doc017, TSG#1Doc018, 031 and TSG#1Doc029)

Doc. No.	Source	Title	Scope	Summary of contents
TS22.01	SMG1	Service Principles	UMTS objectives	- Principles for new service capabilities - Service architecture - Quality of service (QoS) - Security - Numbering principles - Human factors and user procedures - UMTS IC card, USIM and terminal - UPT - Service environment - Evolution - Types of features of MSs - Charging principles - Handover requirement
TS22.05	SMG1	Services and service capabilities	How and what kind of services the UMTS user has access to	- Framework for the description of telecommunication services and applications - Bearer Services - Teleservices - Supplementary Services - Standardised Protocols and Capabilities - Existing GSM System features
TR22.07	SMG1	Terminal and Smart Card Concept	Terminal and smart card concept in the UMTS environment	- IC card functionality - Terminal functionality - IC card/Terminal interfaces - Testing and type approval issues
TR22.24	SMG1	Charging and Accounting mechanism	Requirements and proposed new mechanisms to be used for billing and charging in UMTS	- The main new requirements for UMTS charging and accounting mechanisms - Online Cost Control Mechanism - Offline Settlement - Views from perspective of each role - Issues of long calls, multimedia calls and low-cost chargeable events

TR22.25	SMG1	Quality of Services and Network Performance	Parameters and parameter values to be used as targets when producing UMTS standards	- QoS parameters and NP parameters for supporting various UMTS services - QoS paramater values and NP paramater values for supporting various UMTS services
TR22.60	SMG1	Mobile Multimedia, Internet and Intranet	The major technical challenges faced in the provision of multimedia services and Internet and Intranet access are discussed and highlighted in order to give guidance for UMTS system standardization.	- Multimedia applications and technical challenges - Internet and Intranet applications and technical development foreseen - Requirements set for the UMTS - Transport of multimedia - A UMTS Service Platform - Download of software - Internet access - Handover - Impact on standardisation
TR22.70	SMG1	Virtual Home Environment	Virtual Home Environment (VHE) concept and its constituent parts aiming to identify how VHE will be realised.	- Virtual Home Environment concepts and requirements - Multiple VHE (Terminal view, user view, subscriber view, network view, service privider view and value added service provider view) - Service Profile Hierarchy - Roaming Relationships in VHE - Service Environment - Virtual Terminal Environment - Service Aspects and Requirements - Recommendations for realisation of VHE Concept - Service Emulation - Remote Service Execution - Standardization

TR22.71	SMG1	Automatic Establishment of Roaming Relations	A proposed framework for commercial and technical interworking between UMTS Service Providers and Network Operators who have no direct prior commercial agreements with each other.	- Automatic Establishment of Roaming Agreements - Current GSM Interworking - New GSM Developments - UMTS Requirements - Proposed System Solution For UMTS Interworking - Summary - Impact on Standardization - Contractual Relationship - Signalling Interworking - Accounting and Settlement Procedure - Conclusion
TR22.75	SMG1	Advanced Addressing	Requirements for numbering and addressing for UMTS	- UMTS numbering scheme - UMTS identity scheme
TR22.xx	SMG1	Handover Requirements between UMTS and GSM or other Radio Systems	Service requirements for handover and roaming within UMTS systems and between UMTS, other IMT-2000 family members and 2nd generation systems.	- General Principles governing handover requirements - Requirements for Handover from UMTS to UMTS - Requirements for Handover from UMTS to GSM - Requirements for Handover from GSM to UMTS - Roaming Requirements
TR22.zz	SMG1	Real Time Multimedia in UMTS	How to realize the SMG1 requirements for real time multimedia services in UMTS (Ref 22.60).	- Overview of Multimedia Communication Standards - Approaches for Multimedia in UMTS - Key Issues for Multimedia in UMTS - Functional Distribution in the UMTS Network and associated Applications
TS22.15	SMG1	Charging and Billing	Service Aspects of charging and billing of the Universal Mobile Telecommunications System (UMTS).	- New requirements for UMTS charging and accounting - Generation of Call Detail Records - Transfer of Charging Information - Accounting and Settlement - Automatic Roaming Agreements

TS22.00	SMG1	UMTS phase 1 Specification	Content of the first phase of requirements for UMTS.	- UMTS phasing and releases overview - Services - UTRAN capabilities - UTRAN and GSM BSS relationship - UMTS Core Network - USIM - Security Features
23.01	SMG12	General UMTS Architecture	Basic physical and functional separation of UMTS	- Domain in UMTS - Functional Communication between UMTS domain
23.05	SMG12	UMTS network Principles		
23.10	SMG12	Access Stratum	Services provided by and functions visible at the Access Stratum to the rest of the system	- Function location inside/outside Access Stratum - call control - Bearer control - Supplementary services - MS tracking - Handover, etc. - Access Stratum services - Service Access Point - Operations - Parameter structure
23.20	SMG12	Evolution of GSM platform towards UMTS	Evolution of GSM platform towards UMTS	- Capabilities of GSM Phase 2+ architecture - UMTS concepts - Key issues - Evolution scenarios (11 scenarios) - GSM-UMTS protocol architecture - Interoperability between GSM and UMTS - Network migration and evolution
23.30	SMG12	Principles for the Iu interface	Requirements on the Iu reference point and relevant principles to guide further standardization of the related interface(s)	- Iu requirements to allow different types of access networks - Iu requirements to support URAN - Iu requirements to support USRAN - BRAN
TS07.60	SMG4	MS Support of GPRS		
TS09.61	SMG4	Interworking between the PLMN and IP-based networks		
SMGMM 98053	SMG4	Summary of Conclusions on Multimedia		

SMGMM 98054	SMG4	Summary of Conclusions on Multimedia Store and Forward		
SMGMM 98049	SMG4	Real Time Multimedia in UMTS (Draft Report)		

ARIB/TTC documents: - TSG#1Doc053

Doc. No.	Source	Title	Scope	Summary of contents
Spec. No.2	TTC	System Configuration	Same as Q.1711	Same as Q.1711
Spec. No.3	TTC	Information Flow	End-to-End Information Flow for Phase 1	- Circuit switched service Information Flow - Call control and radio resource management related Information Flow including data communications and packet - Handover related Information Flow - Code control, power control and outerloop control
Spec. No.4	ARIB	Radio System Overview		
Spec. No.5	ARIB	Requirements and Objectives for Services and Systems	General objectives, operating environments, services, systems requirements, network management, satellite components and fixed wireless access applications of a 3G Mobile Systems	- General consideration on operating envionments - Radio operating environment - Spectrum considerations - Services - Service categories - Security and privacy - User Mobility - Charging - Service requirements for Phase 1 - Service to be considered for Later Phases - System requirements - Service accessibility in radio operating envionments - User related requirements - Operational requirements - Required bearer channel capabilities - Security and privacy - Network management - Requirements for 3G mobile systemmanagement standardization - Principles and guidelines for the specification of 3G mobile system management - Requirements for satellite components - Requirements for Fixed Wireless Access Applications

Spec. No.6	TTC	GSM Evolved Network Requirements	GSM evolved network requirements	- General requirements - Multimedia - Service portability - Diversification and quick provision of services - Network efficiency - Improvement of communication quality - Requirements on data services - Call/Connection control requirements - Multicall - Mobility control requirements - Virtual Home Environment - UIM - Supplementary services - Interworking with PDC - Requirements on interfaces