3GPP2
3rd Generation Standards Development

3GPP2 Presentation to the TR45 Committee,
March 3-4, 1999

Steve Dennett, Chair 3GPP2 Steering Committee
Transition Process

■ Schedules
  • The transition will be managed to eliminate any disruption to the existing schedules while expediting the ability for all 3GPP2 members to fully participate in the development process.

■ Meeting Locations
  • TIA has contractually committed meeting locations until the end of 1999 and will extend existing accommodations for 3GPP2 TSG meeting purposes.
  • Some meetings may change to alternate locations if sponsorship can be found (including cancellation fees).
  • Locations should be chosen to encourage maximum participation.

■ Leadership continuity will be key to a smooth transition.
Work Transition

- For the February meetings, all potential members of the TSGs were invited to TR45 and its sub-committees meetings as observers.

- At March meetings, dedicated TSG time is being scheduled to finalize the details of TSG operation.

- The first full meetings of the TSGs will be in April co-located with the appropriate TR45 subcommittees.

- Work within the TSGs will be initially based on the corresponding subcommittee workplans.

- New TSGs are free to begin work immediately.
3GPP2 Organization Structure

3GPP2 Steering Committee
Chair: Steve Dennett (Motorola)
Vice Chair: Yoshinao Nakada (Lucent)
Vice Chair: Dr. Ki-Cheol HAN (ETRI)

TSG-S
Service and Systems Aspect
Chair: Hideo Okinaka (KDD)
Vc: Richard Robinson (Sprint PCS)
Vc: (TTA, TBD)

TSG-N
ANSI-41/WIN
Convenor: Betsy Kidwell (Lucent)
Chair: Open
Vc: Hee-Joung Lee (LG Sansys)
Vc: Masaaki Koga (DDI)

TSG-C
cdma2000
Chair: Jean Alphonse (Ameritech)
Vc: Toshihito Kanai (Motorola)
Vc: Sang Uoon Chung (Samsung)

TSG-P
Wireless Packet Data Networking
Convenor: Mark Munson (GTE)
Chair: TTA (TBD)
Vc: Open
Vc: Open

TSG-A
Access Network Interface
Chair: Frederic Leroudier (Sprint PCS)
Vc: Naoto Itoh (IDO)
Vc: (TTA, TBD)

TSG-R
3GPP to ANSI-41
Convenor: Youn Kwan Kim (LG Telecom)
Chair: Open
Vc: Open
Vc: Open
3GPP2 Steering Committee (SC)

- **SC Participants**
  - Organization Partners (OP)
  - Market Representation Partners (MRP)
  - Individual Members
  - Observers (Per OP Approval)

- **First Steering Committee Meeting January 27th-28th, Vancouver.**

- **Fifth Organization Partners Meeting May 25th, Seoul.**

- **Next Steering Meeting May 26th, Seoul.**
Defer discussion of sub-structure organization until the TSG-N work items and resources are better determined.
TSG-N ANSI-41/WIN ToR

- Evolution of Core Network for Inter System Operation within the ANSI-41 Family member.
- UIM support (Detachable and Integrated).
- Support for enhanced privacy, authentication, encryption and other security aspects.
- VHE (Virtual Home Environment).
- Support of New Supplemental Services (including ISDN interworking).
- Optimal Interoperability Specification for International Roaming (e.g. Selection of required parameters options).
- New Features for International Roaming (Global Emergency Number, Optimal Routing).
- IMT-2000 issues as necessary to ensure support of the ANSI-41 family member.
TSG-C (cdma2000)

Chair: Jean Alphonse (Ameritech)
V-Chair: Sang Uoon Chung (Samsung)
V-Chair: Toshihito Kanai (Motorola)
Secretary: Clif Barber (Oki)

cdma2000.1 Application Services
Chair: Phil Brown (Lucent)
  - cdma2000.1.1 Voice Services
  - cdma2000.1.2 Video Services
  - cdma2000.1.3 Data Services
  - cdma2000.1.4 Ancillary Services Support & MS Adapter Interfaces

cdma2000.2 Signaling and Protocol*
Chair: Kim Chang (Nortel)
  - cdma2000.2.1 MAC
  - cdma2000.2.2 Layer 2 LAC
  - cdma2000.2.3 Layer 3 Signaling
  - cdma2000.2.4 Analog/Digital Compatibility

*Includes Interfaces for enhanced privacy, encryption and authentication

cdma2000.3 Physical Layer
Chair: Ed Tiedeman (Qualcomm)

cdma2000.4 Performance
Chair: Jason Losh (Motorola)
  - cdma2000.4.1 Physical Performance
  - cdma2000.4.2 Signaling Conformance

Sub Working Groups

Working Groups

cdma2000 V&V Verification & Validation
cdma2000 Terms of Reference

- Responsible for the radio access part, including its internal structure, of systems based on 3GPP2 specifications.

- Specifically it has responsibility for:
  - Requirements, functions and interface for cdma2000 Infrastructure and User Terminal Equipment.
  - Management of work items placed under its responsibility.

- More specifically, TSG-C will address the following areas of work:
  - Radio Layer 1 specification
  - Radio Layer 2 specification
  - Radio Layer 3 specification
  - MS/BS Radio Performance Specifications
  - Radio Link Protocol
  - Support for enhanced privacy, authentication and encryption
  - Digital Speech Codecs
  - Video Codec adoption
  - Data and Other Ancillary Services support
  - Conformance Test Plans
  - MS-Adapter Interface
TSG-C Work Transition

- Work on cdma2000 phase 1 will be completed within TR-45.5 and will be presented as the basis for the work in the TSG.

- For the February TR-45.5 meeting in Tucson AZ, all members of the TSG were invited to the meeting as observers.
  - Individual members are invited to provide input into the TR45.5 cdma2000 Phase 2 workplan.

- The cdma2000 TSG will initially base its workplan on the TR-45.5 cdma2000 phase 2 workplan.

- A cdma2000 TSG Scheduling AdHoc met February 22nd to draft a workplan for the TSG.

- On March 17 from 4-8pm the TSG will meet in Seattle Washington to finalize the cdma2000 TSG structure, workplan and WG terms of reference.

- The first full meeting of the TSG will be the April meeting in Savannah, GA with TR45.5.
TSG-P Wireless Packet Data Networking

Convenor: Mark Munson
Vice Chair: TBD
Vice Chair: TBD

Defer discussion of sub-structure organization until the TSG-P work items and resources are better determined.
TSG-P Wireless Packet Data Networking

- Wireless IP Services (including IP Mobility Management)
- Wireless IP Network Architecture Design
- Voice over IP
- Secure Private Network Access
- Internet Access
- Packet Data Accounting
- Multimedia Support
- QoS Support
TSG-S Service & System Aspects

TSG-S Service & Systems Aspect

Chair: Hideo Okinaka (KDD)
Vice Chair: Richard Robinson (Sprint PCS)
Vice Chair: (TTA, TBD)

WG-I
System Capability Set
Co-Convenor: Toshihito Kanai (Motorola)
Co-Convenor: Masaaki Koga (DDI)

WG-II
Feature/Service Requirements
Co-Convenor: Girish Patel (Nortel)
Co-Convenor: Betsy Kidwell (Lucent)

WG-III
3GPP2 Project Coordination
Convenor: Richard Robinson (Sprint PCS)
Services and Systems Aspects ToR

Specifically it has a responsibility for:

- Definition of Service and System Requirements to support regional and international 3G market needs.
- Tracking of Feature and Service development activities across TSGs.
- Management of work items under its responsibility.

More specifically, TSG-S will address the following areas of work:

- System Capability Set Development.
- Stage 1 Feature and Service Requirements Definition.
- System Reference Model Development and Maintenance.
- Requirements for International Roaming.
- Definition of Stage 1 high level requirements for OAM&P across all TSGs.
- High level co-ordination of the work performed in other TSGs and monitoring of progress.
TSG-A Access Network Interface

TSG-A (Access Network Interfaces)
Chair: Frederic Leroudier (Sprint PCS)
Vice Chair: Naoto Itoh-san (IDO)
Vice Chair: TBD (TTA)

WG-I
A-Interface Technical Specification Drafting Group
Convenor: George Kfoury (Motorola)

WG-II
Abis-Interface Technical Specification Drafting Group
Convenor: Naoto Itoh (IDO)

WG-III
Access Network Requirement and Architecture and Packet Data Functional Definition Group
Convenor: Tom Towle (Lucent)
TSG-A Access Network Interfaces

- Responsible for the specifications of interfaces between the radio access network and core network.

Radio access network to core network interface:

- Physical links, transports and signaling
- Support for access network mobility
- 3G Capabilities (e.g. High speed data support)
- Abis interface
- Inter-Operability Specification
- Support for 3GPP2 Radio Access Technologies
TSG-R 3GPP to ANSI-41

TSG-R
Interface of 3GPP Radio Access Technology to 3G Core Network evolved from ANSI-41

Convenor: Youn Kwan Kim (LG Telecom)
Vice Chair: Open
Vice Chair: Open

Defer discussion of sub-structure organization until the TSG work items and resources are better determined.
Interface of 3GPP Radio Access Technology to 3G Core Network evolved from ANSI-41 (TSG-R)

- Interface specification of UTRAN to an evolved ANSI-41 Core Network.
- Radio technology interface to accommodate evolving UTRA features which may include WP (wideband packet)-CDMA and other features as determined by 3GPP.
- Minimal requirements and enhancements/modifications of UTRA radio technology, if necessary, to accommodate ANSI-41 Core Network.
- Support handoff between existing cdmaOne (2G) and UTRA radio technology (both intersystem and intrasystem handoff).
- Roaming issues for UTRA handset between GSM core network and ANSI-41 core network.
- User terminal equipment and infrastructure for the above.
- Liaison or joint work efforts, as appropriate, with other 3G groups.
Recommendations to CDG

- Get Involved as Individual Members

- All TSGs are meeting in the March/April timeframe.

- TSG-Service and Systems Aspects needs operator input.

- Support for 3GPP2 is needed to insure a smooth transition and to minimize duplication of effort.

- TSG-A, Coordination of IOS.

- TSG-C, Conformance Testing and MS-Adapter Interface.