Title:

Meeting Summary of 3GPP2 TSG-C Meetings for 3/27-31/00 in Cheju, Korea

Source:

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SECRETARY

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Abstract:

This document represents a summary of the 3/27-31/00 TSG-C meetings in Cheju, Korea.

Recommendation:

Review and adopt.

Notice:

During the period of 3/27-31/00, 3GPP2 TSG-C meetings were held at the Cheju Shilla Hotel in Cheju, Korea. This document is intended to summarize the proceedings.

OPENING PLENARY

The meeting was called to order at 2:15 PM local time on 3/27/00 by TSG-C Chair, Jean Alphonse (GTE Wireless).

- The roll call of companies indicated that 23 companies already included on the list of 38 active members were present and thus quorum was established (62% participation). In addition, both IDO and Sierra Wireless Data proxy notices were presented which named QUALCOMM as their proxy for this meeting.

- The proposed agenda (C00-20000327-001) was presented and approved without objection as submitted.

- Contributions were numbered, distributed, and assigned to agenda items.

- The meeting summary from the 3/14/00 meeting in Arlington, VA (C00- 20000327-002) was presented and approved without objection.

- The meeting summary from the 2/14/00 meetings in San Diego, CA (C00-20000314-002) was presented and approved without objection.

- An unofficial summary of the 3/00 TR45 meeting in Vancouver, BC (C00-20000314-004) was presented as FYI.

- CORRESPONDENCE

  - The TSG-S Liaison Report (C00-20000327-012) was presented as FYI. The following related correspondence was also reviewed:
    - 3GPP2 Acronym List (C00-20000327-014) was presented as FYI.
    - Stage 1 descriptions for video services (C00-20000327-015) were remanded to WG2 for review and action as appropriate.
    - Baseline text of the 3GPP2 NRM (C00-20000327-016) was remanded to WG1 for review and comment as appropriate.
    - The notation of a new work item for high speed packet data on a 1x channel (C00-20000327-017) was left OPEN at the Plenary level for discussion at a later point in time.
    - TSG-S questions on global challenge in cross mode operations as a part of AKA based ESA (C00-20000327-018) were remanded to the XM AdHoc for response as appropriate.
  - The All IP AdHoc Liaison Report (C00-20000327-013) was also presented as FYI.

- LIAISON REPORTS - None additional.

- NEW BUSINESS

  - QUALCOMM presented an overview of their HDR (high data rate) technology (C00-20000327-008). This technology is based on a dedicated channel for packet data using base stations transmitting TDM at full power. Variable data rates include the following:

    - FORWARD LINK   38.4 Kbps - 2.4567 Mbps
    - REVERSE LINK   4.8 Kbps - 153.6 Kbps

  - MOTOROLA and NOKIA presented an overview of 1XTREME (1x) (C00-20000327-003). LSI Logic also indicated its support and sponsorship for this presentation. This technology supports voice and data but is prioritized for voice. Variable data rates include the following:

    - FORWARD LINK   Up to 5.18 Mbps
    - REVERSE LINK   Up to 614.4 Kbps

  - An overview of LAS-CDMA (C00-20000327-005) was presented from CWTS WG1. This proposal claimed 6x greater spectral efficiency over any other 3G technology, 12x greater than IS-95, data speeds up to 5.5 Mbps and compatibility with all 3G standards. This technology is based on LAS codes which are used to provide an "interference free window" at the mobile.

  - The Chair created three (3) adhocs to examine the material from each presented technology and to make recommendations for the standardization of each. The following adhoc chairs were appointed:

    - 1XTREME   Alan Jette (Motorola)
    - LAS-CDMA   Frederic Leroudier (Linkair)
    - HDR   Yu-chuen Jou (QUALCOMM)

    Each group will be allowed to meet this week to review the material presented and to solicit additional information as required for a better understanding of the proposal by the membership.

  - Issues related to the evolution of IS-2000 1x are under review in CDG with a requirements document being prepared for release in 4/2000. Their advance notice (C00-20000327-020) was presented as FYI.

  - An expression of support for HDR from KT Freetel (C00-20000327-019) was noted in the absence of the contributor as FYI.

The meeting was recessed on 03/24/00 at 5:00 PM local time.

CLOSING PLENARY

The Plenary was reconvened on 03/31/00 at 9:15 AM local time.

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- The Chair indicated that his priority for the next meeting was to develop a list of key technical attributes for each of the 1x enhancement proposals. Once each template is agreed within each focus group, a unified template will be prepared. These lists will be transmitted to TSG-S for their deliberation of 1x enhancement requirements.

- The Secretary noted the following:

    - New e-mail exploders for each of the 1x enhancement technologies and each of the four (4) TSG-C WGs have been activated. Full information on subscription to those exploders was presented in the "3GPP2 TSG-C Exploders - 000331" document.

    - Carriers were referred to the questions developed by Lucent regarding the All IP Network development and requested to send their responses to the All IP AdHoc.

- CORRESPONDENCE - The TSG-S Liaison presented an addendum to the TSG-S Liaison Report to document the TSG-S activities from the 2/00 meeting (C00-20000331-106). As a result of that report:

    - This liaison report (C00-20000331-106) was remanded to WG1 as FYI.

    - Correspondence requesting input on 128 Kbps ISDN strategies (C00-20000331-107) was remanded to WG1 for action and response as appropriate.

    - Correspondence requesting input on TSG-A requests for changes to the 3GPP2 NRM (C00-20000331-108) was remanded to WG1 for action and response as appropriate.

    - Correspondence to 3GPP2 SC regarding concerns with TR45.7 support (C00-20000331-109) was presented as FYI.

    - Correspondence regarding TSG-S formation of a Documentation Standards AdHoc (C00-20000331-110) was remanded to all WGs for comment as appropriate.

    - Correspondence delivering the latest version of the 3GPP2 master work item list (C00-20000331-111) was remanded to WG1 for action and response as appropriate.

- WORKING GROUP REPORTS:

    - WG1 REPORT (C00-20000331-101) was presented by the WG1 Chair, Phil Brown (Ericsson), as FYI.

        - Several correspondences and issues are under review and will be addressed at the next meeting.

        - Three (3) ballot comments for PN-4692 are still unresolved. A conference call next Thursday regarding this subject. Interested parties should contact Nick Leung (QUALCOMM) for bridge information.

    - WG2 REPORT (C00-20000331-102 - verbal report only) was presented by WG2 Chair, Kim Chang (Nortel Networks), as FYI:

        - IS-2000 addendum ballot review is still in process. Their goal is to have all issues resolved by the 4/2000 meeting.

- • Received the Video Services Stage 1 documents and are currently in process of review.

- • Review two (2) alternatives for handling AOC. The group determined that AOC can be supported using information records. However, if SMS support for AOC is required, some changes may be needed to IS-637. A hybrid solution is also an option.

- • WG3 REPORT (C00-20000331-103) was presented by WG3 Chair, Ed Tiedemann (QUALCOMM):

  - • The group developed some concerns regarding the uncertainty of the Release B schedule. The Chair confirmed that the target for Release B text approval by the TSG is 12/00. The Chair requested the V&V Chair propose a cutoff date so that V&V can be completed by this time. This information will be discussed in the Chair's meeting in April 2000 to develop a consensus schedule regarding new feature cutoff, etc.

- • WG4 REPORT (C00-20000331-104) - did not meet

- • NEW BUSINESS

  - • A report of the HDR AdHoc (C00-20000331-112) was presented as FYI.

  - • Proposed correspondence to CDG regarding the TSG-C receipt of the 1x enhancement proposals and the TSG's anticipation on the receipt of CDG requirements (C00-20000331-113). This correspondence was approved without objection as modified editorially by the discussion.

  - • All Release A document Editors were reminded that the updated 3GPP2 versions of the TIA approved documents must be submitted at the opening Plenary of the next meeting. These documents will be rev 2 of the original 3GPP2 document.

- • FUTURE MEETING SCHEDULE

  - • 4/25-28/00*   Four Seasons Hotel in Seattle, WA

  - • 6/5-9/00   Delta Pinnacle Hotel in Vancouver, BC

  - • 7/10-14/00   Mauna Lani Bay Hotel in Kohala Coast, Hawaii, HI

  * The April TSG-C meeting in Seattle, WA will be a four (4) day session. However, the 4/28/00 session will go until 5:00 PM local time.

The Plenary was adjourned on 03/31/00 at 10:20 AM local time.

A listing of the contributions that were distributed is itemized below:

NUMBER	SUBJECT	SOURCE
OPENING PLENARY - 3GPP2-C00-20000327-		
001	AGENDA	CHAIR
002	Meeting summary - 3/14/00 - Arlington, VA	SECRETARY
003	1XTREME presentation	MOTOROLA, NOKIA
004	1XTREME work items	MOTOROLA, NOKIA
005	CDMA presentation	CWTS
006	Proposed requirements for enhancements to cdma2000 air interference	CWTS
007	Proposed cdma2000 Companion High Data Rate (HDR) Standard	QUALCOMM
008	1xHDR Overview	QUALCOMM
009	Brief Summary of Working Group III activities	WG3
010	C.S0002-A Ballot Comment Resolution Summary	WG3
011	1XTREME proposal	MOTOROLA, NOKIA
012	TSG-S Liaison Report	TSG-S LIAISON
013	All IP AdHoc Report	ALL IP LIAISON
014	Correspondence on 3GPP2 Acronym Listing	TSG-S
015	Correspondence on Video Services - Stage 1	TSG-S
016	Correspondence on 3GPP2 NRM	TSG-S
017	Correspondence on new work item	TSG-S
018	Correspondence on ESA	TSG-S
019	HDR standardization in 3GPP2 TSG-C	KT FREETEL
020	Evolution of IS-2000 1x	CDG
WG1 - APPLICATION SERVICES - 3GPP2-C10-20000330-		
001	Draft Agenda	CHAIR
002	Contribution Status	CHAIR
003	Correspondence on 3GPP2 NRM (C00-20000327-016)	TSG-S
004	Corr re: Release B work planning	WG3
005	Synopsis of 1EXTREME	MOTOROLA
006	SWG5 report	SWG5
007	Release A Feature and Functionality Reference v01	SWG5
008	Proposed correspondence to CDG re: status of proposals for 1X enhancement	VA/GTE/SPCS
009	SWG3 report	SWG3
010	SWG4 report	SWG4
SWG1.3 - DATA SERVICES- 3GPP2-C14-20000327-		
001	Agenda	CHAIR
002	Meeting Summary 1/00	CHAIR

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003	Contribution status	CHAIR
SWG1.4 - ANCILLARY SERVICES AND MS INTERFACES - 3GPP2-C14-20000327-		
001	Agenda	CHAIR
002	Meeting Report, February, 2000	CHAIR
003	Contribution Status	CHAIR
004	A Proposal for Revision B of IS-707	LUCENT
005	Modified QUALCOMM PN-4692 Ballot comments #12, #13, #14 Removing RLP SYNC exchange for NAK parameter negotiation	QUALCOMM
006	IS707-A-2.12 Ballot - QoS Table Modification	SPRINT PCS/MOTOROLA
007	Mobile Control of QoS Priority Level	SPRINT PCS/OKI TELECOM
SWG1.5 - WORKPLAN - 3GPP2-C15-20000327-		
001	Agenda	CHAIR
002	Draft Meeting Summary 0001	CHAIR
003	Contribution Status Log	CHAIR
004	QoS Question	C13 CHAIR
005	Proposed requirements for enhancements to cdma2000 air interface	CWTS
006	Release A Features and Functionality Reference v01	CHAIR
007	QoS Priority Issues	OKI
008	IS-707-A-2.12 ballot - QoS Table modification	OKI AND SPRINT PCS
009	3GPP2 Workplan - Draft V14	TSG-S PMT
010	Workplan for Release B	WG3
WG2 - SIGNALING AND PROTOCOL - 3GPP2-C20-20000327-		
001	Meeting Agenda	CHAIR
002	TR45.5 #06 - ESN/UIM	TR45 UIM/ESN AD HOC
003	TR45.5 #10 - PAC	QUALCOMM
004	TR45.5 #11 - TR45.2 on MSID	TR45.2
005	TR45.5 #12 - TR45.2 on ESA	TR45.2
006	TR45.5 #13 - TR45.2 on USCF and AH	TR45.2
007	TSG-C plenary #15. Video Services	TSG-S
101	SWG1.5 Correspondence - AOC	SWG1.5
102	Correspondence to SWG1.5 - AOC	CHAIR
103	RFAA	SWG1.5
SWG2.1 - MAC SIGNALING - 3GPP2-C21-20000327-		
001	Draft Agenda	CHAIR
002	VOID	
003	Contribution Status	CHAIR
004	IS-2000.3-A BRV Status	CHAIR
005	IS-2000.3-A BRV (500-000327-022)	CHAIR

006	IS-2000.3-1 BRV	CHAIR
SWG2.3 - LAYER 3 SIGNALING - 3GPP2-C23-20000328-		
001	Meeting Agenda	CHAIR
002	IS2000-5-Aedits	MOTOROLA
003	L3-discrepancies	QUALCOMM
004	Walsh Cover	QUALCOMM
005	Ballot Resolution Comments	QUALCOMM
WG3 - PHYSICAL LAYER - 3GPP2-C30-20000328-		
001	February Meeting Agenda	CHAIR
002	Meeting summary -	
003	Contribution List, V27	CHAIR
004	Ballot comment resolution spreadsheet	CHAIR
005	3GPP2 TSG-C Working Group 3 C.P0002-B Work Items	CHAIR
006	VOID	
007	C.S0002	CHAIR
008	Time offset for Non-Orthogonal Physical Channels	LGIC
009	The Softest Handoff Design Using Iterative Decoding (Turbo Coding)	LGIC
010	Adaptive Antennas (AA) Release B kickoff	AA AD HOC CHAIR
011	A Simple Method to Increase IS2000 Forward Link Peak Data Rate	MOTOROLA
012	Blind Retransmission Identification for Soft Combining Enhancement of Hybrid ARQ in CDMA Systems	NOKIA
013	Release A Features and Functionality Reference v01	SWG 1.5
014	Proposed Correspondence to TSG Chairs on ISDN Interworking Requirements (Release B)	TSG-S
015	Requirements for ISDN Interworking (Release B)	TSG-S
CLOSING PLENARY - 3GPP2-C00-20000327-		
101	WG1 Report	WG1
102	WG2 Report	WG2
103	WG3 Report	WG3
104	WG4 Report (no report)	WG4
105	V&V AdHoc Report	V&V ADHOC
106	Addendum to TSG-S liaison report - 3/00	TSG-S
107	Correspondence dated 2/18/00 Regarding ISDN Interworking	TSG-S
108	Correspondence dated 2/19/00 to all TSGs regarding questions on proposed changes to the 3GPP2 NRM	TSG-S
109	Correspondence dated 2/18/00 to 3GPP2 SC regarding TR45.7 resource and schedule shortages	TSG-S
110	Correspondence dated 2/18/00 regarding the TSG-S documentation standards adhoc	TSG-S

111	Correspondence dated 2/18/00 to all TSGs regarding 3GPP2 Release B work items	TSG-S
112	HDR Focus Group Report	HDR FOCUS GROUP
113	Proposed correspondence to CDG Executive Board re: status of proposals for 1x enhancements	WG1
114		
115		

STATUS OF SPECIFICATIONS AND REPORTS BEING DEVELOPED BY TSG-C

REFERENCE		TITLE	STATUS
3GPP2	**TIA**		
	IS-2000-1-1	Introduction - Phase 0 EC	Ballot resolution
	IS-2000-2-1	Physical Layer - Phase 0 EC	
	IS-2000-3-1	MAC Layer - Phase 0 EC	
	IS-2000-4-1	LAC Layer - Phase 0 EC	
	IS-2000-5-1	Layer 3 Signaling - Phase 0 EC	
	IS-2000-6-1	Analog Operations - Phase 0 EC	
C.P0010-A	TIA/EIA-97-D	Base Station Minimum Performance	SDO ballot = 4/2000
C.P0011-A	TIA/EIA-98-D	Mobile Station Minimum Performance	SDO ballot = 4/2000
C.P0016-A	IS-683-B	OTASP of MS in Spread Spectrum Systems	SDO ballot = 4/2000
C.P0017-0-2	IS-707-A-2	Data SOs for Spread Spectrum Systems	Ballot resolution
C.P1001-A	TSB58-C	Parameter Value Assignments	SDO ballot 4/2000
C.P9001		SMV (Selectable Mode Vocoder)	SDO ballot = 12/2000
C.S0001-A	IS-2000-1-A	Introduction - Release A	TIA approved v2 = 4/2000
C.S0002-A	IS-2000-2-A	Physical Layer - Release A	TIA approved v2 = 4/2000
C.S0003-A	IS-2000-3-A	MAC Layer - Release A	TIA approved v2 = 4/2000
C.S0004-A	IS-2000-4-A	LAC Layer - Release A	TIA approved v2 = 4/2000
C.S0005-A	IS-2000-5-A	Layer 3 Signaling - Release A	TIA approved v2 = 4/2000
C.S0006-A	IS-2000-6-A	Analog Operations - Release A	TIA approved v2 = 4/2000
C.S0007	IS-834	G3G CDMA-DS on ANSI-41	TIA approved v2 = 4/2000
C.S0008	IS-833	G3G CDMA-MC on GSM-MAP	TIA approved v2 = 4/2000
C.S0023	IS-820	R-UIM	Ballot resolution

3GPP2 QUORUM ROLL CALL				
TSG-C (cdma2000)				
March 31, 2000				
COMPANY	Attendance 03/27/00	Attendance	Consecutive Mtgs Missed	Quorum Status at Mtg Start
3 COM	1		1	1
3G-COM WIRELESS			1	0
ADVANTEST			1	1
AGILENT TECHNOLOGIES			2	1
VIDAFONE AIRTOUCH	1		0	1
BELL ATLANTIC MOBILE	1		0	1
BELL MOBILITY			1	1
BELL SOUTH ENTERPRISES			2	1
COMSAT			3	0
CONEXANT			1	1
DDI			1	1
DENSO INTERNATIONAL	1		1	1
DOT WIRELESS			3	0
DYNASTAT			1	1
ERICSSON	1		0	1
FRANCE TELECOM			3	0
FUJITSU	1		0	1
GEMPLUS			3	0
GTE	1		0	1
HITACHI	1		3	0
HUGHES NETWORK SYSTEMS			3	0
HYUNDAI	1		0	1
IDO			1	1
IFR SYSTEMS			3	0
INTEL	1		0	1
KDD			3	0
LGIC	1		0	1
LSI LOGIC	1		3	0
LUCENT	1		0	1
MATSUSHITA/PANASONIC	1		0	1
METAWAVE COMMUNCATIONS			3	0
MITSUBISHI ELECTRIC			1	1
MOTOROLA	1		0	1
NEC	1		1	1
NOKIA	1		0	1
NORTEL NETWORKS	1		0	1
NTT AMERICA	1		1	1
OKI TELECOM	1		0	1
PHILLIPS	1		1	1
QUALCOMM	1		0	1
RACAL INSTRUMENTS			2	0
SAMSUNG	1		0	1
SIEMENS			1	1
SIERRA WIRELESS DATA			1	1
SIRF TECHNOLOGY			1	1
SK TELELCOM	1		3	0
SNAPTRACK			1	1
SONY	1		3	0
SPRINT PCS	1		0	1
TEKTRONIX			1	1
TOSHIBA	1		1	1
US WEST			1	1
TOTALS	23	0		38
QUORUM CALCULATION	61%	0%		
ADDITIONS				
OBSERVERS AND GUESTS				
LINKAIR	1			
TANTIVY COMMUNICATIONS	1			

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