3GPP PCG#8 Meeting
New Orleans, United States
25 April 2002

3GPP_PCG#8(02)37r1
~~20 May~~ 30 September 2002
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Source: **Secretary**

Title: **Draft Revised** Summary minutes, decisions and actions from 3GPP PCG Meeting#8, New Orleans, 25 April 2002

Agenda item: All

Document for:

Decision	**X**
Discussion	
Information	

1   Opening of Meeting and Chairman's Remarks

Dr. Asok Chatterjee (PCG Chairman, Committee T1) opened the meeting and, on behalf of the North American Friends of 3GPP, welcomed the participants to New Orleans. The list of participants is given at **Annex E**.

2   Approval of Agenda

The draft Agenda for the meeting was discussed and approved with some minor amendments. The approved Agenda is given at **Annex A** [**3GPP/PCG#8(02)1r3**].

3   Approval of Report of PCG#7

The draft report of PCG#7, which had been revised to take account of comments received, was presented and approved [**3GPP/PCG#7(01)25r1**].

Decision PCG8/1: Report of PCG#7 approved [**3GPP/PCG#7(01)25r1**].

3.1   Review of Actions

The status of the actions arising from PCG#7 were reviewed and the progress made in discharging them noted [**3GPP/PCG#7(01)03**]. All actions were considered as discharged with the following comments being taken into consideration:

A-PCG7/1   Mr Leite to ensure that ITU-T SG2 take appropriate action to update the Recommendations containing the allocation of Mobile Country Codes

The TSG SA Chairman commented that 3GPP specifications made direct reference to ITU Rec. E.212 and that such a reference relied on that Recommendation being maintained with the current list of Mobile Country Codes. However, it appeared that updates were being made by means of a bulletin rather than by revision of E.212. Mr Visser agreed to report these concerns to the ITU.

Action PCG8/1:   Mr Visser to report to the ITU the 3GPP concerns on the updating procedure for ITU Rec. E.212.

A-PCG7/7   Organizational Partners to encourage Individual Members to send resources to IETF in order to complete those RFCs reference by 3GPP within Release 5.

The TSG CN Chairman confirmed that good progress was being made in the completion of the IETF drafts and that this action could be considered discharged so long as existing resources continue to be provided.

A-PCG7/11 Secretary to add presentation of Portal Study results to the Agenda of PCG#8.

It was noted that whilst the PCG#8 Agenda made provision for a presentation of the UMTS Forum Portal Study results, the contribution received concerned the GSA results of a similar study. Dr Eylert reported that the UMTS Forum results would be submitted as a late contribution to this meeting. (See Section 10.1).

4 Management Reports from TSGs

4.1 TSG SA

Mr Andersen (TSG SA Chairman) presented a report of the progress made by TSG SA [**3GPP/PCG#8(02)05**].

Mr Andersen had reported the intention of TSG SA to create an ad hoc activity to consider the long term vision of 3GPP. This was in response to the PCG request that TSG SA consider the long term vision and also to complement similar work being undertaken within the ITU which called for 3GPP input. Some concerns were raised that, in considering the long term vision, the ad hoc activity could extend beyond the current scope of the project. It was agreed to consider this matter at a later stage of the meeting. (See Section 5.2.).

4.2 TSG CN

Mr Hayes (TSG CN Chairman) presented a report of the progress made by TSG CN [**3GPP/PCG#8(02)06**]. Also presented were a document showing the status of the IETF drafts on which 3GPP work is dependant and a presentation which had be made by the CN Chairman during IETF#53 [**3GPP/PCG#8(02)18&19 respectively**].

The report had indicated that some IETF drafts were at risk of not being completed in time, particularly in the area of IMS access security. Mr Hayes confirmed that good progress was being made but that there was still a risk that some elements of IMS could be delayed if the IETF work did not mature in time.

4.3 TSG RAN

Mr Courau (TSG RAN Chairman) presented a report of the progress made by TSG RAN [**3GPP/PCG#8(02)07**]. Also provided was the response prepared by TSG RAN concerning the timetable for the updating of ITU-R Recommendation M.1457 [**3GPP/PCG#8(02)27**].

The report had indicated that proposals had been received for TSG RAN to study additional modulation techniques, and in particular OFDM (Orthogonal Frequency Division Multiplexing). This had given rise to concerns that the work could extend beyond the existing scope of the project. After a short discussion it was agreed that TSG RAN should continue with a feasibility study of this work and that the results should be reported to the PCG where any scope concerns could be further discussed.

Decision PCG8/2: TSG RAN authorised to continue with a feasibility study of additional modulation techniques, including OFDM.

Action PCG8/2: TSG RAN to present the results of their study of additional modulation techniques to the PCG.

4.4 TSG T

Dr Park (TSG T Chairman) presented a report of the progress made by TSG T [**3GPP/PCG#8(02)08**].

The report had indicated that due to a decision to upgrade the TTCN development to align with the March 2002 specifications, additional resources would be required. Mr Hoffman (GSM Association) reported that the GSM Association fully supported this work and had agreed to fund half of the increased cost of the activity. This offer was on the condition that the deficit be found from the remaining membership and that the work (package 1) be completed by October 2002 to align with the expectations of the Global Certification Forum (GCF). The PCG noted this offer, which was for further discussion during the OP meeting.

4.5   TSG GERAN

Mr Andersen (TSG GERAN Chairman) presented a report of the progress made by TSG GERAN [**3GPP/PCG#8(02)09**]. Also presented was a document showing the latest available information on the scheduling of work with TSG GERAN [**3GPP/PCG#8(02)28**].

5   3GPP Progress and Current Status of Activities

The TSG calendar of future meetings was presented for the information of the PCG [**3GPP/PCG#8(02)11**].

The TSG CN Chairman presented the results obtained during the IP Core Network harmonization activity that had recently taken place in Toronto [**3GPP/PCG#8(02)17**].   The results included the recommendations given below, which were presented for consideration by the PCG:

> *(i)*   *In general, the group agreed that duplication of work between the PP groups should be avoided and that existing schedules (e.g., 3GPP Release 5) should not be negatively impacted.*

> *(ii)*   *3GPP and 3GPP2 should align the IMS and service aspects of their respective Reference Models.*

> *(iii)*   *3GPP2 should utilize 3GPP Release 5 IMS and Parlay 3.1 as the base for their on-going development activities.*

> *(iv)*   *3GPP and 3GPP2 should collaborate closely on any requirements to be input into IETF related to SIP extensions and other issues.*

> *(v)*   *3GPP and 3GPP2 should establish formal and informal mechanisms (e.g., joint e–mail exploder) to promote harmonization activities.*

> *(vi)*   *3GPP and 3GPP2 should consider routes to joint requirements analysis and joint specification development.*

> *(vii)*   *The group agreed that common mobility management is an item for future consideration.*

> *(viii)*   *3GPP and 3GPP2 should work together on a common evolution strategy taking into account the vision work in other groups including ITU and IP^2 AdHoc.*

The PCG discussed and fully endorsed the technical content of the recommendations prepared by the workshop, noting the willingness of both Partnership Projects to align their work and concentrate their efforts on producing a harmonised IP based Multimedia Subsystem. It was agreed that the results should now be considered in detail by the relevant TSGs which should report the progress that they make in implementing them to the next PCG meeting.

Decision PCG8/3: Technical results of the IMS Workshop fully endorsed by the PCG [**3GPP/PCG#8(02)17**].

Action PCG8/3:   TSGs to consider in detail the technical results of the IMS Workshop and to report the progress that they make in implementing the recommendations to the next meeting of the PCG [**3GPP/PCG#8(02)17**].

The Chairman presented some considerations on the organizational aspects of the IMS standardization task, stressing that the most efficient method would be for the work to be performed in a single entity, and that creating joint entities would be slow and less efficient [**3GPP/PCG#8(02)30**]. This led to a

discussion on the procedural aspects of the workshop recommendations and how best to organize the work. It was noted that the membership of both Partnership Projects was largely the same and that there were very few members participating in 3GPP2 that did not also participate in 3GPP. For the few companies that did currently participate in 3GPP2 but not 3GPP, they could be granted immediate Guest status if required until a long term solution was found. This implied that the membership as a whole had full access to the groups where IMS standardization was taking place and that the most efficient method to complete the work would be for it to be undertaken in those existing groups. It was also noted that the experience gained in the collocation of related meetings had also been very good, particularly in the case of 3GPP CN5 that held collocated meetings with Parlay, Jain, and ETSI SPAN, and that this method of working should also be encouraged. It was therefore considered that no special provisions or procedures were required and that the IMS work should continue without delay.

The TSG CN Chairman presented some considerations raised by the leadership within CN5 concerning their working methods [**3GPP/PCG#8(02)33**]. CN5 was currently holding collocated meetings (as described above) and wished to seek clarification from the PCG as to the need for this method of working to be formalised. The PCG noted the good progress being made by CN5 and saw no requirement to formalise their working methods.

5.1 Status and content of Release 5

The Secretary presented a document which listed those features currently expected to be contained within Release 5 and the progress that had been made in completing them [**3GPP/PCG#8(02)22**]. The document also listed those features which may be contained within Release 5, or may be deferred to Release 6, and which were the subject of decisions to be made at the next TSG meeting.

5.2 Plans for Release 6 and beyond

The Secretary presented a document which listed those features currently expected to be contained within Release 6 and beyond, and the progress that had been made in completing them [**3GPP/PCG#8(02)23**].

Mr Andersen (TSG SA Chairman) had previously reported on the activity within TSG SA to consider the long term vision of the project. This had led to some concerns that the result of such an activity could extend beyond the current scope of the project which in turn could have budgetary consequences [**3GPP/PCG#8(02)32**]. It was noted that TSG SA was currently working within a scope agreed by the PCG and that there was no intention for the long term vision activity to go beyond that scope. In this context, the PCG noted the concerns that had been raised.

6 Approval of 3GPP Work Programme

PCG#7 had decided that the PCG should retain the task of formally approving the 3GPP Work Programme which, until that point, had not been approved by any specific process. It had subsequently been agreed by correspondence that the PCG should, in the first instance, approve the Features that are proposed to form the basis of Release 5 and Release 6 and that new Features added to the Work Programme would be brought to the attention of future PCG meetings. The Secretary presented a list of the Features contained within Release 5 and Release 6 together with the link to where the description of each Feature (Work Item description) could be found [**3GPP/PCG#8(02)14**]. The PCG approved the 3GPP Work Programme.

Decision PCG8/4: 3GPP Work Programme approved.

7   3GPP Support

7.1   Report of MCC Activities

The Secretary presented a report of the current activities within the Mobile Competence Centre and the recent developments in the support provided to the TSGs [**3GPP/PCG#8(02)10**]. The report was noted.

Dr Wee confirmed that TTA (Korea) would replace their existing expert within MCC at the end of the current contract period and that the search for a suitable replacement had already begun.

7.2   TSG Support Requirements for 2002

There were no new requests for TSG support in 2002.

7.3   New TSG Funding Requests for Specific Tasks

The Organizational Partners had already agreed substantive funding for the further development of TTCN for 3GPP terminals. However, it had recently been agreed that the TTCN should be brought up to March 2002 status and this gave rise a an additional resource requirement of 21 man months which the PCG was requested to support [**3GPP/PCG#8(02)25**].   The request was noted and held over for further discussion in the Organizational partners meeting.   The Terms of Reference for the Task Force performing the work had been updated accordingly, which the PCG approved [**3GPP/PCG#8(02)12**].

Decision PCG8/5: Revised Terms of Reference for MCC TTCN Task approved [**3GPP/PCG#8(02)12**].

8   Working Procedures and Working Methods

The TSG Chairmen had prepared some observations on the location of 3GPP meetings and the criteria which should be used in accepting meeting invitations [**3GPP/PCG#8(02)20**]. The observations included the choice of meeting locations, facilities that should ideally be provided, and services that should be available within the immediate vicinity. It was agreed that the observations made were valid and that they would be useful guidelines to adopt in the selection of all 3GPP meeting venues. It was noted that a package of information was already provided to meeting hosts by MCC and it was agreed that these guidelines should be included within that package. It was also noted that a Chairman's Survival Guide was currently under preparation and that this information could also be contained in that guide.

Action PCG8/4:   Secretary to ensure the inclusion of guidance provided by the TSG Chairman on the selection of 3GPP meeting venues within the package of information provided to prospective hosts and within the Chairman's Survival Guide currently under preparation [**3GPP/PCG#8(02)20**].

8.1   Report from Working Procedures Ad Hoc Group

Mr Yoshimura (Chairman, Working Procedures Group) reported on the activities of the 3GPP Working Procedures Group that had led to the development of draft revised Working Procedures [**3GPP/PCG#8(02)29**]. The draft revision had been sent to the PCG list, TSG leaders list, and to MCC on 4 February 2002, with an invitation for them to provide comments. A number of comments had been received and these had been resolved at a meeting of the Working Procedures Group held on 8 March. The result of that resolution meeting was presented for approval by the PCG [**3GPP/PCG#8(02)13**]. It was noted that the draft contained footnotes to explain the reasoning behind substantive changes and that these footnotes would be removed before final publication.

8.2 Approval of revised 3GPP Working Procedures

The draft revised 3GPP Working Procedures, as prepared by the Working Procedures Group, were presented and approved by the PCG [**3GPP/PCG#8(02)13**].

Decision PCG8/6: Revised 3GPP Working Procedures approved [**3GPP/PCG#8(02)13**].

It was noted that although the revised Working Procedures had now been approved, the Working Procedures Group still remained active and that they would continue to address issues presented to them.

9 Matters Arising from ITU

Mr Courau (TSG RAN Chairman) presented the response that had been prepared by TSG RAN concerning the timetable for the updating of ITU-R Recommendation M.1457 [**3GPP/PCG#8(02)27**]. The PCG approved the response.

Decision PCG8/7: Response prepared by TSG RAN concerning the updating of ITU Rec M.1457 approved [**3GPP/PCG#8(02)27**].

TSG RAN had also prepared a contribution for ITU-R WP8F, to inform them of ongoing work in 3GPP on variable duplex spacing [**3GPP/PCG#8(02)31**]. The PCG approved the contribution.

Decision PCG8/8: Response prepared by TSG RAN, for ITU-R WP8F, concerning variable duplex spacing, approved [**3GPP/PCG#8(02)31**].

Mr Visser (ITU) presented information concerning the plans to update related ITU recommendations and the alignment of that update process with 3GPP meetings [**3GPP/PCG#8(02)31**]. The information was noted by the PCG.

10 Matters Arising from MRPs

Dr Eylert (UMTS Forum) presented for information the preliminary findings of the UMTS Forum activity on mobile Top Level Domains (TLDs) which were for further discussion by the UMTS Forum at their next General Assembly [**3GPP/PCG#8(02)36**]. The findings supported the need for mobile TLDs.

10.1 Presentation of Portal Study Results

Mr Hadden (GSA) presented the results obtained by a recent study into Mobile Portals that had been perfomed by the GSA [**3GPP/PCG#8(02)15**]. Also presented were the results of a study on the same subject performed by the UMTS Forum [**3GPP/PCG#8(02)35**].

10.2 GSA Report on EDGE Operators Forum

Mr Hadden (GSA) reported on the latest developments taking place within the EDGE Operators Forum [**3GPP/PCG#8(02)16**].

10.3 UMTS Forum Report on IMS

Dr Eylert (UMTS Forum) gave a presentation of the report that had been prepared by the UMTS Forum on IP based Multimedia Services (IMS) [**3GPP/PCG#8(02)26**].

11 External Relations and Liaisons

Correspondence had been received from the Chairman of GGRF G95 on the use of GPDS in foreign mode [**3GPP/PCG#8(02)21**]. The correspondence was noted by PCG.

Correspondence had been received from the Committee TR45 on the allocation of Electronic Serial Numbers (ESNs) and the progress made in harmonising the allocation of numbers with the IMEI scheme used by 3GPP systems [**3GPP/PCG#8(02)24**]. The correspondence was noted.

12 A.O.B

There were no matters raised under this Agenda item.

13 Closing of Meeting and next meeting dates

The next PCG/OP meeting will take place on 3-4 October 2002 in St Paul de Vence, France.

The Chairman thanked the hosts for their meeting support and hospitality. There being no further business the meeting was closed.

Annex A   Adopted agenda

		Documents
1	Opening of Meeting and Chairman's Remarks	
2	Approval of Agenda	**1r3,** 2
3	Approval of Report of PCG#7	**PCG#7(01)25r1**
	3.1 Review of Actions	3
4	Management Reports from TSGs	
	4.1 TSG SA	5
	4.2 TSG CN	6, 18, 19
	4.3 TSG RAN	7
	4.4 TSG T	8
	4.5 TSG GERAN	9, 28
5	3GPP Progress and Status of Activities	11, 17, 30, 32, 33
	5.1 Status and Content of Release 5	22
	5.2 Plans for Release 6 and beyond	23
6	Approval of 3GPP Work Programme	**14**
7	3GPP Support	
	7.1 Report of MCC Activities	10
	7.2 TSG Support Requirements for 2002	
	7.3 New TSG funding requests for specific tasks	**12,** 25
8	Working Procedures and Working Methods	**20**
	8.1 Report from Working Procedures Ad Hoc Group	29
	8.2 Approval of revised 3GPP Working Procedures	**13**
9	Matters Arising from ITU	27, 31, 34
10	Matters Arising from MRPs	36
	10.1 Presentation of Portal Study results	15, 35
	10.2 GSA Report on EDGE Operators Forum	16
	10.3 UMTS Forum Report on IMS	26
11	External Relations and Liaisons	21, 24
12	A.O.B	
13	Closing of Meeting and Next Meeting Dates	

Annex B   List of Decisions

N°.	DECISION
D-PCG8/1	Report of PCG#7 approved [**3GPP/PCG#7(01)25r1**].
D-PCG8/2	TSG RAN authorised to continue with a feasibility study of additional modulation techniques, including OFDM.
D-PCG8/3	Technical results of the IMS Workshop fully endorsed by the PCG [**3GPP/PCG#8(02)17**].
D-PCG8/4	3GPP Work Programme approved.
D-PCG8/5	Revised Terms of Reference for MCC TTCN Task approved [**3GPP/PCG#8(02)12**].
D-PCG8/6	Revised 3GPP Working Procedures approved [**3GPP/PCG#8(02)13**].
D-PCG8/7	Response prepared by TSG RAN concerning the updating of ITU Rec M.1457 approved [**3GPP/PCG#8(02)27**].
D-PCG8/8	Response prepared by TSG RAN, for ITU-R WP8F, concerning variable duplex spacing, approved [**3GPP/PCG#8(02)31**].

Annex C   List of Actions

N°.	RESPONSIBLE	ACTION
A-PCG8/1	Mr Visser	To report to the ITU the 3GPP concerns on the updating procedure for ITU Rec. E.212.
A-PCG8/2	TSG RAN	To present the results of their study of additional modulation techniques to the PCG.
A-PCG8/3	TSGs	To consider in detail the technical results of the IMS Workshop and to report the progress that they make in implementing the recommendations to the next meeting of the PCG [**3GPP/PCG#8(02)17**].
A-PCG8/4	Secretary	To ensure the inclusion of guidance provided by the TSG Chairman on the selection of 3GPP meeting venues within the package of information provided to prospective hosts and within the Chairman's Survival Guide currently under preparation [**3GPP/PCG#8(02)20**].

Annex D   List of documents

Doc. No.	Title	Source	Agenda Item
PCG7_25r1	Draft Revised Summary Minutes, Decisions and Actions from 7th 3GPP PCG Meeting	Secretary	3
PCG8_01r2	Proposed Draft Agenda	Chairman	2
PCG8_02	List of Documents	Secretary	2
PCG8_03	Actions Status List	Secretary	3.1
PCG8_04	Attendees List	Secretary	all
PCG8_05	TSG SA Management Report	TSG SA Chairman	4.1
PCG8_06	TSG CN Management Report	TSG CN Chairman	4.2
PCG8_07	TSG RAN Management Report	TSG RAN Chairman	4.3
PCG8_08	TSG T Management Report	TSG T Chairman	4.4
PCG8_09	TSG GERAN Management Report	TSG GERAN Chairman	4.5
PCG8_10	Report of MCC Activities	Secretary	7.1
PCG8_11	3GPP TSG Meeting Calendar	Secretary	5
PCG8_12	Revised Terms of reference for MCC Task 160	TSG T Chairman	7.3
PCG8_13	Revised draft 3GPP Working Procedures	Working Procedures Group	8.2
PCG8_14	3GPP Work Programme for Approval by PCG	Secretary	6
PCG8_15	Review of Portals Worldwide	GSA	10.1
PCG8_16	Report by GSA on EDGE Operator's Forum	GSA	10.2
PCG8_17	Recommendations from April 3-4 2002 IP CN Harmonization Workshop	TSG CN Chairman	5
PCG8_18	IETF Dependency Status	TSG CN Chairman	4.2
PCG8_19	Presentation on 3GPP/IETF Collaboration from IETF#53	TSG CN Chairman	4.2
PCG8_20	Proposed Guidelines for 3GPP Meetings	All TSG Chairmen and Vice Chairmen	8
PCG8_21	Correspondence with SDOs on C-PDS in Foreign Mode	Chairman GGRF G95	11
PCG8_22	Content of Release 5	Secretary	5.1
PCG8_23	Content of Release 6	Secretary	5.2
PCG8_24	Communication received from Committee TR.45 concerning allocation of Electronic Serial Numbers	Secretary	11
PCG8_25	Additional TTCN resource requirement for alignment with R99 March'02 version Core Specification	TSG T Chairman	7.3
PCG8_26	IP-Based Multimedia Services: The UMTS Forum's View of a Common Service Concept	UMTS Forum	10.3
PCG8_27	Response to ITU-R WP8F on the schedule for updating Recommendation ITU-R M.1457 to Revision 3	TSG RAN Chairman	9
PCG8_28	TSG GERAN Project Schedule	TSG GERAN	4.5
PCG8_29	Report from Working Procedures Group	Working Procedures Group	8.1
PCG8_30	Proposed way forward on IMS and OSA Harmonization	PCG Chairman	5
PCG8_31	Information to ITU-R WP8F about the ongoing studies within 3GPP on variable duplex spacing.	ITU-R Ad Hoc Contact Person	9
PCG8_32	Comments for Long-term Evolution Ad-Hoc Meeting	TTC	5
PCG8_33	equest for PCG decision on Harmonisation efforts of OSA APIs work between 3GPP (SA1, CN5) and 3GPP2 (TSG-	3GPP TSG CN Chairman	5

Doc. No.	Title	Source	Agenda Item
	N)		
PCG8_34	Progress on Coordination and Content of Timing between 3GPPs and ITU deliverables	ITU-T	**9**
PCG8_35	Position Paper on 3G Portals	UMTS Forum	**10.1**
PCG8_36	An Internet top-level domain optimized for mobile use (mTLD*)*	UMTS Forum	**10**

Annex E   List of Participants

Organization	Name	PCG	OP
ARIB	ISHIDA, Yoshihide	✓	✓
	UTANO, Takanori	✓	✓
	YOSHIMURA, Yukio	✓	✓
	HATA, Fumihiko	✓	✓
	WATANABE, Kunio	✓	✓
	MAEDA, Yutaka	✓	✓
CWTS	CAO,Shumin	✓	✓
	WANG, Zhigin	✓	✓
ETSI	ROSENBROCK, Karl Heinz	✓	✓
	DAVIDSON, Phil	✓	✓
	LANG, Kari	✓	✓
GSA	HADDEN, Alan	✓	✓
	GROENEN, Wolfgang	✓	✓
GSMA	HOFFMAN, John	✓	✓
TIA	CUSCHIERI, Henry	✓	✓
Ipv6	LATIF, Ladid	✓	✓
3G IP	SENNETT, DeWayne	✓	✓
	MAGNANI, Nicola	✓	✓
T1	CASSEN, Quent	✓	✓
	CHATTERJEE, Asok	✓	✓
	BAILEY, Charles	✓	✓
TTA	CHOI, Jinsung	✓	✓
	PARK, Jeong Sik	✓	✓
	RYOO, Chang Ho	✓	✓
	WEE, Kyu Jin	✓	✓
	LEE, BK	✓	✓
TTC	YOSHINO, Keiji	✓	✓
	HORISAKI, Nob	✓	✓
	YABUSAKI, Masami	✓	✓
	YAMAMOTO, Koji	✓	✓
UMTSF	EYLERT, Bernd	✓	✓
ITU	VISSER, John	✓	✓
UWCC	PEARSON, Chris	✓	✓
TSG SA Chairman / ETSI	ANDERSEN, Niels Peter	✓	✓
TSG SA Vice Chairman / TTC	NAKAMURA, Hiroshi	✓	✓
TSG SA Vice Chairman / T1	JONES, Gary	✓	✓

TSG CN Chairman / T1	HAYES, Stephen	✓	✓
TSG CN Vice Chairman / ETSI	PARK, Ian	✓	✓
TSG CN Vice Chairman / TTC	TAYA, Kunihiko	✓	✓
TSG T Chairman	PARK, Sang Keun	✓	✓
TSG T Vice Chairman / ETSI	HOLLEY, Kevin	✓	✓
TSG T Vice Chairman / T1	EHRLICH, Ed	✓	✓
TSG RAN Chairman / ETSI	COURAU, Francois	✓	✓
TSG RAN Vice Chairman / T1	ZELMER, Don	✓	✓
TSG RAN Vice Chairman / ARIB	FUKUDA, Eisuke	✓	✓
TSG GERAN Vice Chairman / ETSI	FÄRBER, Michael	✓	✓
TSG GERAN Vice Chairman / T1	GRANT, Marc	✓	✓
CDMA Development Group	TAKACH, Jim		✓
MCC	SCRASE, Adrian (Secretary)	✓	✓