3GPP TSG_CN#6 **NP-99566**
Meeting #6, Nice, France
13th - 15th December 1999

Source:	**Masami YABUSAKI (TSG-CN Vice Chair, ITU-T Coordination Group Chair)**
Title:	**Main Results of ITU-T SG11 meeting in November, 1999**
Agenda item:	**5.6**
Document for:	**Information**

1. Introduction

This paper describes the main results of ITU-T SG11 meeting which was held in November/December, 1999, in Geneva.

2. Drafting status of IMT-2000 related recommendations in ITU-T SG11

(1) Recommendation approved for determination (i.e. Public Enquiry status)

- **Q.1721 (Q.FIF)**
  This Recommendation provides end-to-end information flows related the internetworking between IMT-2000 Family Members. Q.1721 is focused on the following interfaces UIM-MT, MT-RAN and CN-CN.
- **Q.1731 (Q.FSR)**
  This Recommendation provides the high level signaling requirements of the Link Access Layer (LAC) for the radio independent parts of the Layer 2 Radio Interface (MT-RAN). The Recommendation does not contain detailed protocol specification.
- **Q.1751 (Q.FSN)**
  This Recommendation contains the high level signalling requirements for the CN-CN interface (NNI). It identifies the following protocols for the NNI protocol, Service Control, Mobility Management (including authentication) and Call & Bearer Control. It also addresses a number of state models that triggers services from the MM procedures.
- **Q. xxxx (Q.BICC CS-1)**
  This Recommendation contains the Narrow Band based Call Control Signaling. At the moment ITU-T SG11 is active involved into the separation of the Bearer and Call Control Signaling. The Q.BICC contains also a Codec negotiation mechanism that uses code points to identify the Codec information.

(2) Ongoing draft recommendations and technical reports

- **Q.1701 supplement**
  This document is an informative document describing the road of the 3G specifications developed by ITU –T and relevant SDOs. At this moment the 3GPP specifications are listed as SDO references but the 3GPP2 specifications needs further detailing. UWC-136 specificaitons have also been added to this document.

- **Technical report Q.1731-1**
  Requirements for Radio Interface Protocol Architecture, transformed from former Recs. Q.1731-1, Q.1731-3. This is an informative document.
- **Technical report Q.1741**
  Requirements for UIM-MT interface, transformed from former Rec. Q.1741. This is an informative document
- **Q.FSN Supplement**
  This is an informative document, detailing the BICC protocol requirements for ITU-T IMT-2000 NNI. A number of outstanding issues must be addressed, such as Multi Media calls
- **Q.BICC CS-2**
  This Recommendation will address the BICC capabilities on top of IP Bearers. This capability is targeted to support the all-IP scenarios, IN interworking etc. The scope of BICC CS-2 is still under discussions.
- **Q.AAL2 CS-2**
  This Recommendation will address the AAL Type 2 Signaling protocol, which includes the following issues, AAL2 path selection and Connection resource Modification. The scope of AAL2 CS-2 is still ongoing.

3. Protocols among IMT-2000 families

(1) Radio Interface (MT-RAN interface)

Probably no more activity for recommendations on radio technology independent protocol (i.e., LAC and L3-CC,MM) since ITU-R completed recommendation IMT.RSPC which refers to SDOs specifications.

(2) UIM-MT Interface

No more activity for recommendations on UIM-MT interface protocol since ITU-T SG11 realizes that ETSI SMG9 is a center for globalization of USIM relevant standards. (See annex)

(3) Network to Network Interface

Drafting Recommendation based on new NNI protocol (Mobility Management, Call/Bearer Control, and Service Control) will be continued.

4. Activity in year 2000 and during next study period (2001-2004)

(1) Year 2000

- At the beginning of June, 2000: Rapporteur's meeting (Completion of draft recommendation and technical report)
- At the middle of June, 2000: SG11 meeting (Approval of draft recommendation and technical report)
- November, 2000: SG11 meeting (Planning for next study period)

(2) Study period (2001-2004)

- Question on IMT-2000 signaling requirements (maintenance and update of existing IMT-2000 recommendations)
- Question on NNI protocol among IMT-2000 families
- Question on signaling for IP-NWs
- Question on Bearer Independent Call Control
- Question on AAL2

5. Actions to be performed by 3GPP

3GPP should continue to interact with ITU-T on the following issues:

- Put the 3GPP requirements to the BICC & AAL2 CS-2 protocols
- Request for Codepoint values from the reserved IMT-2000 Family Member value range
- Put requirements on the signaling for IP-NW signaling (e.g. H.323, H.248)
- "Control" ITU-T IMT-2000 activities on the NNI protocol, especially in association with Mobility Management and Service Control

6. Conclusion

Next year, IMT-2000 coordination group will work actively to cooperate with ITU-T. Those who are interested in ITU-T status and necessary action from 3GPP are requested to subscribe to ITU-T SG11 coordination group mailing list; .

Annex

ITU - Telecommunication Standardization Sector

STUDY GROUP 11

Geneva, Switzerland, November 22 - December 10, 1999
QUESTION: 8/11
SOURCE: ITU-T SG 11 (Geneva, November 22 - December 10, 1999)
TITLE: UIM REQUIREMENTS AND ONGOING STANDARDIZATION WORK

LIAISON STATEMENT

TO: ETSI SMG9
APPROVAL: Proposed for Agreement at SG 11 meeting
FOR: Action

DEADLINE: May 31, 2000

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Introduction

SG 11 is the lead SG in ITU-T on IMT-2000. We have been working on all aspects of this diverse and complex system, which aims to achieve a significant step forward in the global mobile telecommunications infrastructure. As part of this, we have been interacting with a number of regional standards bodies that are doing work related to the goal of specifying a global mobile telecommunications system.

Status of Work on IMT-2000 Specifications in SG 11

Specifically, SG 11 has been addressing and has completed the work on the first IMT-2000 Capability Set with respect to the requirements for IMT-2000 (Recommendation Q.1701) and the functional architecture for IMT-2000 (Recommendation Q.1711), both of which were finalized at our March, 1999 meeting. At our November 22 - December 10, 1999 meeting, we reached Resolution 1 Determination on the information flows for the UIM-MT, MT-RAN and CN-CN (NNI) interfaces (draft new Recommendation Q.1721.) (At this meeting, we also reached Resolution 1 Determination for draft new Recommendations Q.1731, “Radio-technology Independent Requirements for IMT-2000 Layer 2 Radio Interface.” and Q.1751, “Inter network Signalling Requirements for IMT-2000 Capability Set 1.”)

Along with the above, we are working on a Supplement to the Q.1700-series of Recommendations which is intended to provide a roadmap of IMT-2000 standards developed in ITU and other standards developing partnership projects and organizations (3GPPs and SDOs). The scope includes any relevant standards that are targeted toward the specification of IMT-2000 systems.

Evolution of Work on UIM-MT Interface

SG 11 has been made aware of the meeting of ETSI SMG9, 3GPP T3, 3GPP2 TSG C, GAIT, UWCC, PDFG, TIA TR45.3, TIA TR45, T1.P1 and the GSM Association[1]. We would ask for confirmation of this meeting and its outcome. We note ***the cooperation emerging among interested parties with respect to developing standards for UIMs and their physical realization, and the view that ETSI SMG9 is well positioned to progress this work.***

SG 11 acknowledges and recognizes the work being done in ETSI SMG9, and we have been informed of the intention to extend the mandate of SMG9 towards setting standards in this area. ***Since ITU-T is the pre-eminent global standards organization, we are prepared to support ETSI SMG9's efforts in the development of UIM standards to avoid any duplication of effort in this area. To this end, while not complete in all respects, we wish to provide to you our current views on UIM to MT Interface Requirements,*** via a draft Supplement progressed at the November 22 - December 10, 1999 SG 11 meeting, and intended for finalization in 2000, as an attachment to this liaison statement.

We would ask that you inform us of your plans and work program in this area so that we may be fully aware of the work that is being done.

Ongoing Involvement of ITU-T SG 11

SG 11 wishes to maintain a role in this work, and to monitor its progress. We therefore request that you keep ITU-T, and specifically SG 11 (and the organization that will be continuing the work on IMT-2000 post the WTSA decisions in the fall of 2000) regularly and frequently informed as you progress the work in this area.

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[1] We are encouraging participants in our meeting who are also involved in the listed bodies and any other relevant bodies to bring this liaison statement to their attention.