Overview of SG11

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Chairman of ITU-T SG11

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Areas of responsibility

- **Responsible for studies relating to:**
  - signalling requirements and protocols for Internet Protocol (IP) related functions, some mobility related functions, multimedia functions and enhancements to existing Recommendations on access and internetwork signalling protocols of ATM, N-ISDN and PSTN.

- **Lead Study Group on intelligent networks**

Study Group Structure

- **WP 1/11**   **Application of IN (Q.1–5/11)**
  - **Chair: (Vacant)**
  - **Vice Chair: J. Humphrey (Marconi, UK)**
  - **Vice Chair: W. Zeuch (Lucent, USA)**
- **WP 2/11**   **Requirements for IP and advanced Network Applications (Q.6–9/11)**
  - **Chair: G. Ratta (Lucent, USA)**
  - **Vice Chair: D. Knight (BT, UK)**
- **WP 3/11**   **Engineering of BICC and Legacy Signalling (Q.10–12, 16/11)**
  - **Chair: A. Le Roux (FT, France)**
  - **Vice Chair: M. Dolly (AT&T, USA)**
- **WP 4/11**   **Engineering of AAL 2 Signalling and Common Signalling Protocols (Q.13–15/11)**
  - **Chair: K. Waber (Swisscom, Switzerland)**
  - **Vice Chair: (Vacant)**
- **Coordination with SSG and 3GPP: A. Heidemark (Ericsson, Sweden)**

Questions for WP1/11

Qs	(SHORT) TITLE
1/11	IP based and IN based services signalling requirements
2/11	Virtual Home Environment (VHE) signalling requirements in the fixed network
3/11	Network signalling protocols to support mobility in the fixed network
4/11	API/object interface and architecture for signalling
5/11	Protocols for further evolution of IN CSs

Questions for WP2/11

Qs	(SHORT) TITLE
6/11	Internet access and Multimedia over IP-based networks signalling requirements
7/11	Signalling requirements for traffic destined for Internet Service Provider (ISPs)
8/11	Signalling requirements for dynamic bandwidth and quality of service demands
9/11	Signalling requirements for Bearer Independent Call Control (BICC) applications

Questions for WP3/11

Qs	(SHORT) TITLE
10/11	Signalling requirements for control of signal processing equipment and of remote transmission nodes
11/11	Protocols for the support of Bearer Independent Call Control (BICC) applications
12/11	Access and network signalling for advanced narrow-band and broadband services
16/11	Mechanisms for the support of PSTN/ISDN services signalling over IP-based networks

Questions for WP4/11

Qs	(SHORT) TITLE
13/11	Common transport protocols
14/11	Protocol test specifications
15/11	Protocol for the support of AAL Type 2 bearers

Meetings held since WTSA-2000

- 1st SG11 (Nov-Dec. 2000)
  - BICC Gold Coast, Australia (Feb. 2001)
  - WP4/11 meeting (March 2001)
- 2nd SG11 (May 2001)
  - BICC e-meeting (Grassau, Germany) (September 2001)
  - BICC San Antonio, USA (Dec. 2001)
- 3rd SG11 (Feb. 2002)
  - BICC Newbury, UK (June 2002)
  - IEPS (by ISUP) Mainz, Germany (July 2002)
  - (BICC + ATM over MPLS) Ottawa, Canada (September 2002)
- 4th SG11 (Nov. 2002)
  - BICC Paris, France (April 2003)

Major achievements since WTSA-2000 (1/2)

- IMT Documents transferred to SSG
- BICC CS2 Recs approved in July 2001
- IN CS4 Recs approved in July 2001
- IN work has become matured status
- BICC CS3 Recs and the relevant AAL type 2 Recs progressed
- BICC access network requirements (TRQ.2700) and their protocols (Q.1930) approved
- Work on interworking between SIP and BICC/ISUP drew interests and was progressed
- Supplement on API approved in Nov. 2002
- Enhancements of Narrowband (DSS1, ISUP) and Broadband (DSS2, B-ISUP) signalling protocols

Major achievements since WTSA-2000 (2/2)

- Signalling requirements for ATM over MPLS completed
- Signalling for QoS information over IP based network
- Protocols for IEPS approved (Amendments to the relevant existing Recs regarding N/B-ISDN, ISUP and BICC)
- Revised Q.15/11 (AAL Type2 and IP interworking + IP connection control) and New Q.16/11 (Mechanisms for the support of PSTN/ISDN services signalling over IP-based networks) approved and progressed
- Requirements for IP telephony progressed
- Brainstorming sessions on NGN held in Feb. 2002 and Nov. 2002
- Jointly organize the ITU-T Workshop on NGN held July 2003

Liaison activities with other SDOs

- MSF
  - On Call Bearer Control (CBC)
- IETF
  - On call control protocols (BICC and SIP)
  - On Q.2150.3, "Signalling Transport Converter on SCTP"
  - On end-to-end QoS service control and signalling protocol development based on IP transfer capabilities and IP QoS classes
  - On SIP-BICC/ISUP interworking
- MPLS Forum
  - On MPLS signalling requirements development based on VoMPLS framework
- ATM Forum
  - On BICC
  - On ATM-MPLS network interworking
- 3GPPs
  - On BICC CS2, 3, interworking with SIP and QoS issues
- T1, TIA, ETSI, OMG
  - On API reference document (TRQ)

Future activities

- 5th SG11 (September 2003)
  - Approval of TRQs (BICC CS3, SIP-BICC/ISUP interworking, ATM-MPLS interworking, AAL2 CS3 NSIP, IEPS, etc.) Approval of Recs (SIP-BICC/ISUP interworking)
  - Possible new Questions on NGN
  - Reorganizing existing Questions
  - Possible interim meetings to be planned
- 6th SG11 (March 2004)
  - Approval of Recs (BICC CS3, ATM-MPLS interworking, AAL2 CS3, NSIP, etc.)
  - NGN related work to be progressed
  - Possible interim meetings to be planned

(Note) NSIP: Narrowband service signalling information transfer within IP-based signalling systems