3GPP2 TSG-S Status for Multimedia Domain

IP Core Network Harmonization Workshop

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3RD GENERATION PARTNERSHIP PROJECT 2 "3GPP2"

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History

- 3GPP2 Started working on what has been termed “All IP” back in November 1999.
- Original AdHoc Group operated under the 3GPP2 Steering Committee and completed the initial Network Architecture Model and high level system requirements in December 2000.
- A New AdHoc Group was formed under TSG-S in January 2001 to continue the efforts. This group refined the architecture and requirements. It also divided the work into two domains.
  - Legacy MS Domain
  - IP Multimedia Domain

Network Architecture Model

- The Network Architecture Model is also referred to as the NAM. This document is the overall working All IP architecture for 3GPP2. Is is currently on revision 1.1.1, but 1.2.0 should be available within the next 30 days.
  - TSG-S document S.R0037
  - Supports both Legacy MS Domain and IP Multimedia Domains

Legacy MS Domain

- Legacy MS Domain (LMSD) is designed to continue to support existing (legacy) 2G and 3G mobiles over a packet based core network.
  - Step-1 specifications being developed and should be completed mid-year 2002
  - Not really subject for harmonization discussion

IP Multimedia Domain

- The IP Multimedia Domain (MMD) is the entities and technologies that are being defined to support mobiles that utilize the IETF SIP and Mobile IP protocols.
  - Does NOT use TIA/EIA-41 signaling
  - Is access network independent
  - Does have potential for harmonization between 3GPP and 3GPP2
  - Can include the 3GPP2 Services Architecture activity
  - Will interwork with PSTN

MMD Status

- Initial high level system requirements generated
- Is based on IETF SIP protocol for the call model
- Uses mobile IP (RFC 3220) for inter-domain mobility.
- Intra-domain mobility still under discussion, but would be specific for the cdma2000 access network and not a subject for harmonization.
- Initial Release discussions have started
  - May not include PSTN interworking
  - May use TIA/EIA-41 signaling for access level authentication

Next Steps

- 3GPP2 TSG-S and 3GPP TSG-SA work together for requirements generation, or at minimum share requirements documents for possible inclusion into each organizations releases.
  - Presence
  - Instant Messaging
  - ...
- 3GPP2 TSG-S and 3GPP TSG-SA discuss architectural possibilities for harmonization.