Action Plan Inputs

ACTION POINT 1:

Identify existing ITU-T resources in support of Telecommunications for Disaster Relief and Early Warning

Reason:

- Develop a thorough understanding of what is available from ITU-T and how these elements fit in the global picture.

Activities:

- SGs to take inventory of existing ITU-T products (Recommendations, Handbooks, etc) that are applicable to Disaster Relief and Early Warning:

  Inputs from Study groups:

  ----------SG 9----------

  SG 9 has identified the following texts as relevant for TDR applications:

  - *ITU-T J.260 "Requirements for preferential telecommunications over IPCablecom networks."*
    When equipment and services are available to meet these requirements, the ability for emergency workers to respond to disasters over IPCablecom networks will be greatly enhanced.
  - *Draft New Recommendation J.pref ("Specifications for preferential telecommunications over IPCablecom networks"), which will address the requirements in J.260.*

  ----------SG 11----------

  SG 11 dealt with IEPS support for E.106 (2000), and would like to inform you that priority mechanisms for IEPS/TDR have already been specified in amendments to the protocols (ISUP, BICC) under SG 11. Also SG11 is currently in the process of extending this work to take into account requirements in the revised E.106 (2003). This work is expected to be approved by the end of 2005.

  SG 11 has assumed that this work is in line with the action plan that you have attached, "ITU-T Action Plan for Standardization on Telecommunications for Disaster Relief and Early Warning (TDR/EW)". If this not the case could you please inform us so we can take appropriate action.

  SG 11 intends to specify the signalling and control protocols required to support FGNGN requirements and it is our intention to include the support for TDR/EW.

  ----------SG 13----------

  SG 13 has developed ITU-T Y.1271"Framework(s) on network requirements and capabilities to support emergency telecommunications over evolving circuit-witched and packet-switched networks", and is developing the draft new ITU-T Rec. Y.NGN-ET-Tech "Next Generation Networks – Emergency telecommunications – Technical issues"

  ----------SG 16----------

  SG16 has identified that the following suitable SG16 Recommendations are already available as part of their work:

- *ITU-T H.323 system: ITU-T H.460.4 for call priority designation and ITU-T H.460.14 for multi-level precedence and pre-emption*
- *ITU-T H.248 system: ITU-T H.248.1 for priority emergency calls, ITU-T H.248.9 for broadcasting announcements, H.248.10 & H.248.11 & H.248.1v3 containing mechanism to handle overload situations*
- *ITU-T Media Coding Recommendations (Speech/Audio-, Still-picture-, Video-compression and coding standard)*

----------SG 17----------

SG 17 identified the following three topics for issues related to TDR/EW in its area of studies:

- ***Topic a)** Security Architecture and Secure Communications System: Development of any ICT systems, its design and implementation should be highly concentrated on security features including availability, integrity, confidentiality, privacy, etc. The activities in SG 17 on this topic may have a great support for the TDR/EW system development.*
- ***Topic b)** Security Management: Information assets for telecommunication such as switches, routers, user private information should be carefully and securely protected by means of security controls which are provided by SG 17 as security management guidelines. The activities on this topic include Business Continuity Management, which may be useful for the security management in the situation of Telecommunication Disaster.*
- ***Topic c)** Security Incident/Event Handling: How to handle and respond to a security incident is a crucial topic in SG 17. There are some ongoing activities to deal with this topic in SG 17 and these may be effective and useful for your considerations on TDR/EW. In conjunction with this activity, SG 17 will start to study a framework for secure network operators in order to collaborate among telecommunication carriers and to share the useful security information based on early detection of security incident/events.*

SG 17 has identified that the following suitable SG 17 Recommendations are already available as part of this work (the definition of TDR/EW system still needs to be clarified):

- *ITU-T X.805, Security architecture for systems providing end-to-end communication.; This recommendation provides security architectural framework to be applicable in developing the secure TDR/EW system. (related to the above **topic a**)*
- *ITU-T X.1051, Information security management system – Requirements for telecommunications (ISMS-T) (a revision is in progress based on ISO/IEC 17799 (2005).; This recommendation provides Security Management for telecommunications based on ISO/IEC 17799 which contains Business Continuity Management to be applicable in the situation of Telecommunication Disaster. (related to the above **topic b**)*
- *ITU-T E.409, Incident organization and security incident handling: Guidelines for telecommunication organizations.*
  *This Recommendation was developed by SG 2 and has been assigned to SG 17 for maintenance and extension. It specifies how to handle security incident as the general procedures and will be applicable in the situation of Telecommunication Disaster including security incidents. (related to the above **topic c**)*
- *ITU-T Security Manual (December 2003, October 2004.The manual contains a lot of material related to Security standardization in ITU-T. This should be a good input to the inventory of existing ITU-T products.*

----------SG 19----------

SG19 has identified that the following suitable SG19 deliverables are already available as part of its work:

- *Supplement 47 (2003)- Emergency services for IMT-2000 networks – Requirements for harmonization and convergence*
- *New chapter to the second edition of the Handbook on Deployment of IMT-2000 Systems*

- SGs to share that information with the PCP-TDR

ACTION POINT 2:

Identify areas for extension of existing systems and respective Recommendations

Reason:

Need to review the extent of existing standardization and how it accommodates the needs of Telecommunications for Disaster Relief and Early Warning:

Activities:

- SGs, in coordination with the PCP-TDR, to check with key players (governments, intergovernmental organizations and NGOs) what are the requirements for their operations as regards the use of ICTs in Disaster Relief and Early Warning activities.
- SGs to hear from past experiences to better understand the operational needs and constraints, in particular identifying areas where problems could have been avoided through the existence of a more suitable ICT infrastructure.
- Consolidate the experiences in terms of standardization requirements
- SGs, in coordination with the PCP-TDR, to develop a harmonized standardization roadmap and expected milestones to fulfil the requirements identified

Inputs from Study groups:

----------*SG 16*----------

SG16 has started the approval process for a message broadcasting feature in H.323 systems that uses the H.323 Generic Extensibility Framework (GEF) of the H.460 sub-series. Q.3/16 started the development of a new H.248 package to support multi-level precedence and pre-emption though the use of an indication to a subscriber.

----------*SG 17*----------

SG 17 has further identified new work items to provide the following new Recommendations that are related to TDR/EW:

- *ITU-T X.silc, Security Incident Lifecycle Processes Guidelines*
- *ITU-T X.svlc, Security Vulnerability Lifecycle Processes Guidelines*

These items are related to the above topic c. These should be a consistent set of Recommendations with Rec. E.409 and Rec. X.1051 (rev).

In addition to the above, there are Recommendations for development of Application Layer Security that covers services area on Home-network, Mobile and Web application environments. (These are related to the above topic a slightly)

ACTION POINT 3:

Promotion of the existing resources and of future activities

Reason:

- Inform all stakeholders of what ITU-T resources exist and involve them into the standardization process.

Activities:

- The PCP-TDR, in collaboration with all SGs, to elaborate an ITU-T-wide workshop on Telecommunications for Disaster Relief and Early Warning

  Inputs from Study groups:

  SGs 9, 12, 13, 16, 17 and 19 are prepared to take part in such a workshop and contribute to it

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- SGs to develop specific tutorial and debriefing materials

  Inputs from Study groups:

  SG 9 is interested in contributing to any Handbooks or Tutorials that might be produced by ITU

  SG16 is prepared to put together such materials on its relevant standards

  SG 17 will put together such materials on its relevant standards.

ACTION POINT 4:

Encourage participation of users in the ITU-T standardization work

Reason:

- Get the information on requirements and hands-on experience for producing relevant standards.

Activities:

- Outreach and promotion activities such as meetings, workshops, briefing sessions, etc.

  Inputs from Study groups:

  ----------*SG 16*----------

  SG16 suggests that a Questionnaire to ITU members for collecting information on current status and of requirements for early warning and disaster relief would be useful and proposes that SG2 should take initiative on that. SG 16 is ready to cooperate with SG 2 in this task, within its areas of expertise.

  ----------*SG 17*----------

  SG 17 suggests that account be taken of the results of the Security Workshop (3-4 October, 2005), and recognizes some crucial issues to be widely discussed and studied among experts in other standardizations bodies as well as in ITU-T. The TDR issue can be an issue to be

discussed in the joint security experts' arena (see: http://www.itu.int/ITU-T/worksem/security/200510)

----------*SG 19*----------

SG 19 is ready to cooperate and contribute within its areas of expertise.

ACTION POINT 5:

SG 2 will coordinate all these activities being called to lead TDR issues.

Inputs from Study groups:

SGs 12, 13, 16, 17 and 19 are ready to cooperate with SG 2 within their areas of expertise.
