



ETSI EMTEL

(Special Committee on Emergency Communications)

Producing and maintaining Standards for
Emergency Communications

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EMTEL Chairman



What is Emergency Telecommunications



- ❑ Emergency telecommunications covers both voice and non-voice communications
- ❑ The need for emergency telecommunications includes many scenarios ranging from:
 - a minor road traffic accident, for example
 - to a major incident like a passenger train crash, a terrorist incident, a natural disaster (e.g. an Earthquake, Tsunami).
- ❑ Provision for emergency telecommunications is also a major requirement in disaster situations

History of SC EMTEL

- EMTEL was previously OCG EMTEL:
ETSI Board created an ad hoc group for coordination of Emergency Telecommunication activities

- Then the group became Special Committee (SC) EMTEL:
 - It has been created and approved by Board#50 in February 2005
 - SC EMTEL shall report directly to the ETSI Board

The main responsibilities of EMTEL

- ❑ Act as a key coordinator in getting requirements on Emergency Communications, outside ETSI (i.e. from different stakeholders) and inside ETSI (i.e. ETSI Bodies).
- ❑ Provide requirements on issues of network security, network integrity, network behavior in emergency situations, and emergency telecommunications needs in networks
- ❑ Co-ordinate the ETSI positions on EMTEL related issues
- ❑ Be the Interface for emergency communications issues
 - between ETSI
 - and CEC/EFTA, NATO, ITU groups, the CEPT ERO and relevant CEN and CENELEC committees

User requirements and scenario

- The requirements are collected to ensure:
 - Communication of citizens with authorities
 - Communication from authorities to citizens
 - Communication between authorities
 - Communication amongst citizens

- Generally agreed categories to be considered in the provision of emergency communications for practically all types of scenario

Fixed or Mobile technology?

- ❑ PSTN or Public Cellular networks for emergency communications for ‘Citizen to Authority’, ‘Authority to Citizen’ and ‘Citizen to Citizen’
- ❑ Public broadcast services (often used also): in support of ‘Authority to Citizen’ communications
- ❑ Both fixed and mobile technologies: for ‘Authority to Authority’ communications utilized by public safety organizations in Europe already (same technologies as those used for routine public safety telecommunications)

Private or Public networks?

- ❑ Telecommunication technologies used for emergency telecommunications are often no different than those used for routine public safety telecommunications
- ❑ A combination of both private and public networks are often used
- ❑ Sharing of networks with non-public safety users is commonplace
- ❑ A combination of both proprietary and ETSI telecommunication technologies are often used

EMTEL published Standards

- ❑ **SR 002 180**: Requirements for communication of citizens with authorities in case of distress (emergency call handling)
 Published in December 2003
- ❑ **SR 002 299**: Collection of European Regulatory principles
 Published in April 2004
- ❑ **TS 102 181**: Requirements for communication between authorities/organizations during emergencies
 Published in December 2005

EMTEL approved Standards

□ Approved during the last EMTEL Meeting (Dec 05); to be published beginning of January 2006

- **TR 102 182**: Requirements for communication from authorities to citizens during emergencies
- **TR 102 444**: Suitability of SMS and CBS (Cell Broadcast Service) for Emergency Messaging

EMTEL ongoing Standards

- ❑ TR 102 445: Requirements for Emergency Communications Network Resiliency and Preparedness
- ❑ TR 102 410: Requirements for communication between citizens during emergencies
- ❑ TR 102 476: Technical Report was created: Study of Emergency calls and VoIP

EMTEL matters in other ETSI Bodies

- Although SC EMTEL was formed to specifically address public safety user requirements for Emergency Telecommunications, other Technical Bodies (TBs) within ETSI have been active for some time:
 - ETSI TISPAN has approved the Emergency requirements for NGN Systems
 - Activity co-operating between 3GPP and ETSI TISPAN on the specification of a Mobile Location Positioning protocol for the delivery to the Emergency Authority the position of a caller to the Emergency Services

- A lot of standards related to EMTEL topics (more than 700) are developed by other ETSI Bodies i.e. 3GPP, TC TISPAN, EP MESA, TC TETRA and TC ERM

EMTEL matters in other ETSI Bodies (suite)



- You can find the main standards on the EMTEL Status Report page (ETSI Portal):
<http://portal.etsi.org/emtel/status.asp>
- And for more details have a look at the ETSI Work Programme, advanced search, by selecting the project code EMTEL:
<http://webapp.etsi.org/WorkProgram/Expert/QueryForm.asp>
- Liaisons are regularly exchanged with other ETSI Bodies

Co-operation with external Bodies

- ❑ A Memorandum of Understanding has just been signed between ETSI and NENA (National Emergency Number Association) involving mainly EMTEL and TISPAN

- ❑ Regular liaisons are exchanged with TIA, ITU-T, NATO

Cooperation with EU Projects

□ EMTEL is involved in EU Projects

- eCall project (in-vehicle automatic emergency call), project required by the Commission to ETSI
- In co-ordination with TC MSG (Mobile Standards Group), TC ERM TG37 (Intelligent Transport Systems) and TC TISPAN (Telecoms & Internet converged Services & Protocols for Advanced Networks)
- TC MSG eCall Kick-off meeting agreed that the documentation of the eCall requirements will be discussed in 3GPP

Thank you for your attention!

- ❑ **Next EMTEL Meeting: 19th-21st April 2006 in ETSI premises**
- ❑ **For more details you can:**
 - **Visit our ETSI EMTEL Portal:**
http://portal.etsi.org/portal_common/home.asp?tbkey1=EMTEL
 - **Browse the ETSI EMTEL Web site: www.emtel.etsi.org**
- ❑ **Don't hesitate to contact me at:**
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