



Emergency Telecommunication Service (ETS) Work in ITU-T Study Group 16

Presentation for
ITU-R
Seminar for Public Protection and
Disaster Relief Communications
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Proposed New Question Q.ets/16
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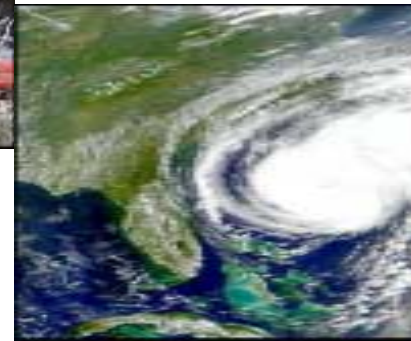


Disaster Strikes

...earthquakes



...hurricanes/typhoons



...and other major disasters



- Natural and Man-made
- Unexpectedly or slowly developing
- Initial response by local emergency services
- Followed by deployed emergency services



Emergency Communications

Telecommunication services to support recovery operations

Ensure effective communications to support recovery operations through severely congested and impaired resources during times of disaster – e.g. earth quakes, hurricanes, floods, volcano eruptions, terrorist attacks

Disaster Relief Operations –
e.g. medical services, fire
brigades, police, government
and industry recovery teams





Considerations

Telecommunication resources limited due to infrastructure damage and excessive traffic

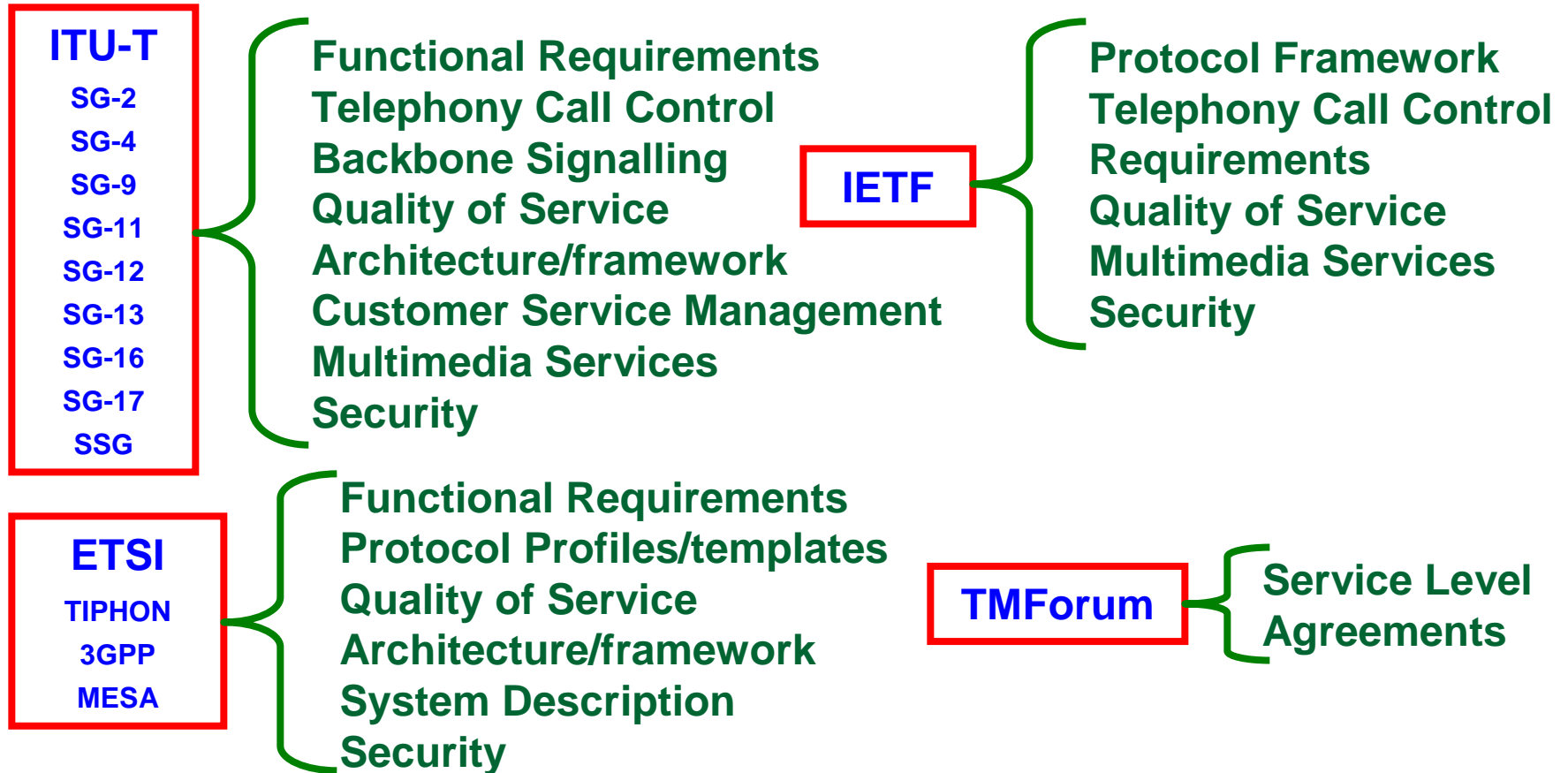
Public telecom services provide first level of immediate response, but supplemental capabilities essential to continue and strengthen disaster relief operations

National authorities primarily responsible for mitigation, preparedness, prevention, and response capabilities and provide supplemental resources for relief support

International assistance when local capabilities are overwhelmed by the magnitude of disaster



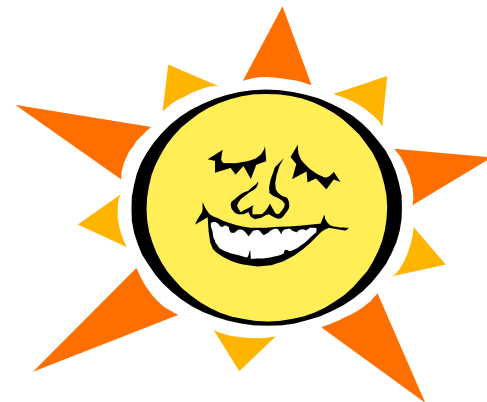
Issues Being Pursued





International Recognition

ITU-T Recommendation E.106
approved March 17, 2000



Description of the International Emergency Preference Scheme (IEPS)

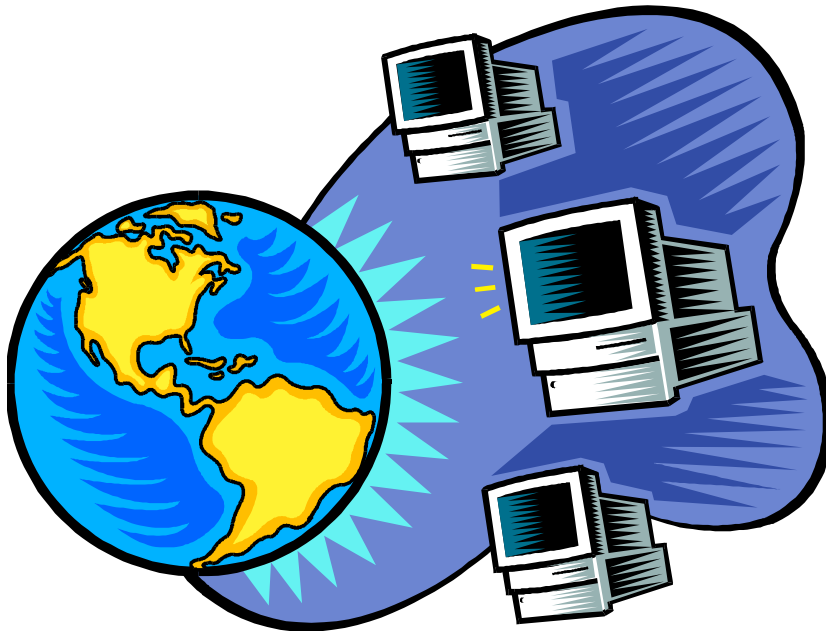
Applies to PSTN, ISDN, PLMN



Moving Forward

ITU-T Draft RECOMMENDATION F.706

INTERNATIONAL EMERGENCY MULTIMEDIA SERVICE (IEMS)



*Expands IEPS with
multimedia services
provided by next-
generation, packet-
based networks*



ETS

**IEPS – International Emergency Preference Scheme –
ITU-T Recommendation E.106**

**IEMS – International Emergency Multimedia Service –
ITU-T Draft Recommendation F.706**

are collectively being referred to as

**Emergency Telecommunications Service
(ETS)**

***ETS can then be used in either an
international or national context***



Rich Menu of ETS Services

**interactive
voice
(telephony)**

**interactive
white board**

**telemedicine
telemetry**



video conference

**video
telemedicine**

**virtual reality
imaging of
disaster area**

**File
transfer**

**instant
messaging
and
presence**

**streaming
audio and
video**

**interactive
web access**

**interactive
victim database
(IAA)**

**electronic
mail**

**interactive
database
services for
crisis
management**



Goal

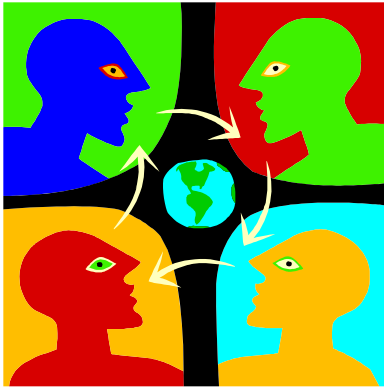
**Fully integrated NS/EP services
received through execution of
Service Level Agreements (SLAs)
with service providers using
standard capabilities inherent in
infrastructure**

i.e. avoid retrofits





ITU-T Umbrella Question



Qets/16 Emergency Telecommunications Service

Development of emergency telecommunications systems concept and a requirements definition for the many aspects being addressed by ITU-T Study Groups and other standards activities.



Qets/16 Cooperation

Close coordination & liaisons among:

- ✓ ITU-T Study Groups – 2, 4, 9, 11, 12, 13, 16 , 17, SSG
- ✓ ITU-R and ITU-D
- ✓ UN Working Group on Emergency Telecommunications
- ✓ Global Disaster Information Networks (GDIN)
- ✓ ETSI – Projects MESA, TIPHON, 3GPP
- ✓ Asia Pacific Telecommunity Standardization Expert Group on Public Safety and Disaster Relief Communications
- ✓ User organizations –
 - UN
 - Red Cross
 - others to be identified





Qets/16 Deliverables

Cooperatively develop:

- An emergency telecommunications systems concept – first draft May 2003
- An emergency telecom requirements Recommendation – first draft May 2003
- A systems framework showing how various components support emergency telecom requirements interwork – January 2004

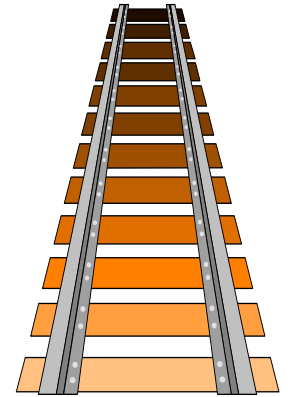




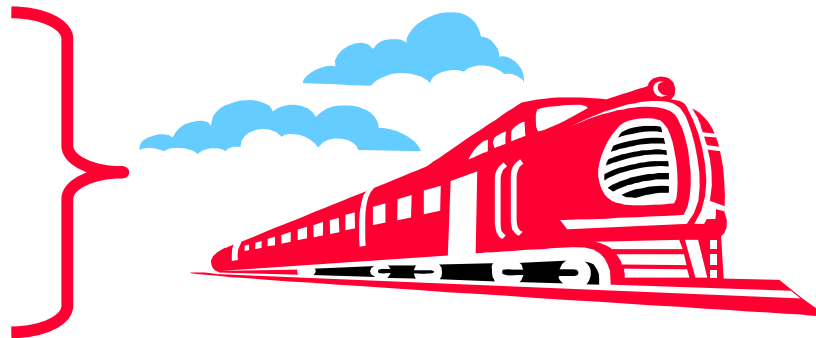
Many Considerations

- **Technical — solutions being sought:**

- » Industry networking standards that fulfill ETS requirements
- » Enhance ETS operations with value-added capabilities



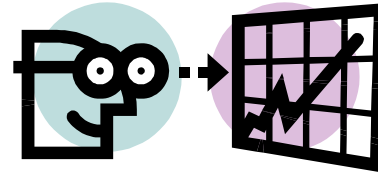
- **Operational**
- **Policy**
- **Legal**
- **Regulatory**



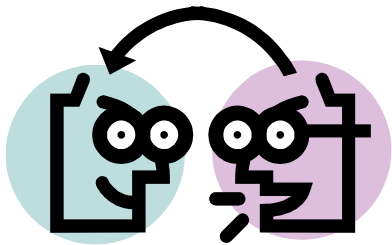


Following the Action

Monitor progress



www.itu.int/ITU-T/studygroups/com16/ets/



Interact on the issues

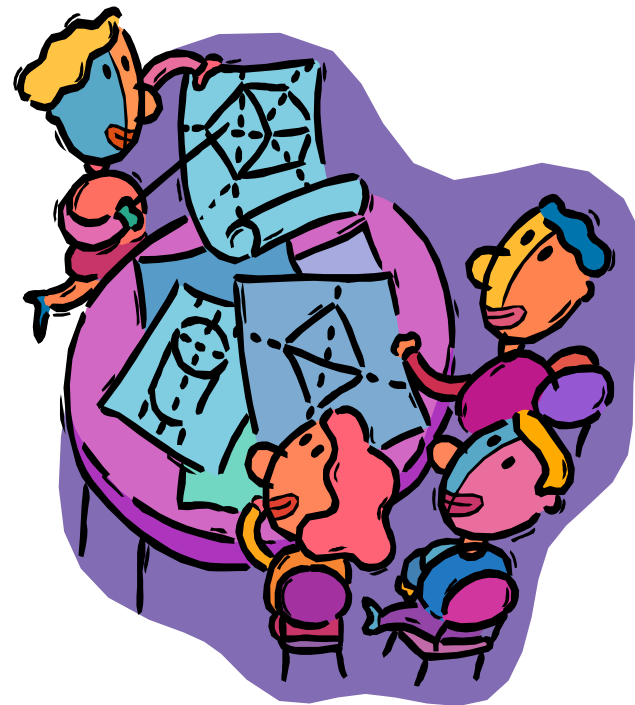
tsg16qets@itu.int



Qets/16 Meeting

**You are most welcome
to join us and
participate in the work**

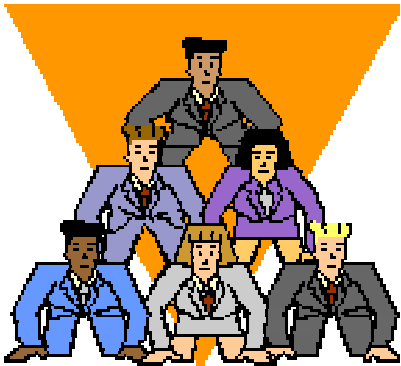
**Q.ets/16 meeting
Tomorrow
25 September, 9:00 a.m.**



Meeting Room H in Montbrillant Building



Let's All Work Together



Thank You

Hal Folts



Abbreviations (1)

3GPP = Third Generation Partnership Project (mobile communications)

ETS = Emergency Telecommunications Service

ETSI = European Telecommunications Standards Institute

IAA = I Am Alive

IEMS = International Emergency Multimedia Scheme

IEPS = International Emergency Preference Scheme

ETSI = European Telecommunications Standards Institute

IETF = Internet Engineering Task Force

ISDN = Integrated Services Digital Network

ITU = International Telecommunication Union

ITU-D = ITU Development Sector

ITU-R = ITU Radio Sector

ITU-T = ITU Telecommunication Standardization Sector



Abbreviations (2)

MESA = Mobility for Emergency and Safety Applications

NGN = Next Generation Network

NS/EP = National Security and Emergency Preparedness

PLMN = Public Land Mobile Network

PSTN = Public Switched Telephone Network

TIPHON = Telecommunication and Internet Harmonization over Networks

TMForum = TeleManagement Forum

SC = Telecommunications Service Customer

SP = Telecommunications Service Provider