



International Telecommunication Union

Discussion Items - Session 9

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Rapporteur QI/16



Objective

**establish
technical standards
that are responsive
to disaster relief requirements**



Basic TDR Requirements

- o High probability of completion for disaster relief communications
 - Access to service
 - Establishment of session
 - Routing to destination
 - Delivery to terminal
 - Continuation of session to completion



Interworking

- o Enable interworking of TDR/ETS capabilities in public networks with dedicated disaster relief and public safety communication systems



Applications for Consideration

- Telephony
- Messaging
- Database access
- Telemedicine
 - Video for medical procedures
 - Telemetry of vital signs
- Victim registry database (registry & search)
- File transfer
- Interactive white board
- Broadcast video
- Telemetry of local environment conditions



TDR Security

- Rapid authentication of authorized TDR/ETS users
- Protection of TDR/ETS traffic
 - Interference
 - Spoofing
 - Masquerading
 - Denial of service
 - Eavesdropping (selected traffic)
 - Non traceability (selected traffic)



Quality of Service

- o Best quality of service - when sufficient telecom resources are available
- o Best effort - when resources become severely limited, enable emergency communications to continue, even when degraded



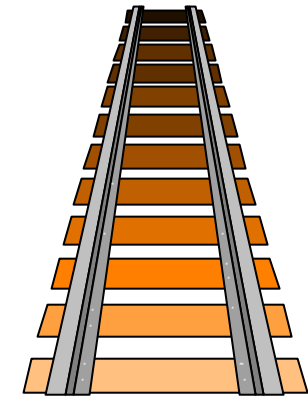
Service Management

- o Real-time interaction between relief operations agent and telecom service provider
- o Coordinate provisioning and status of telecommunication capabilities to support disaster relief operations during a crisis situation

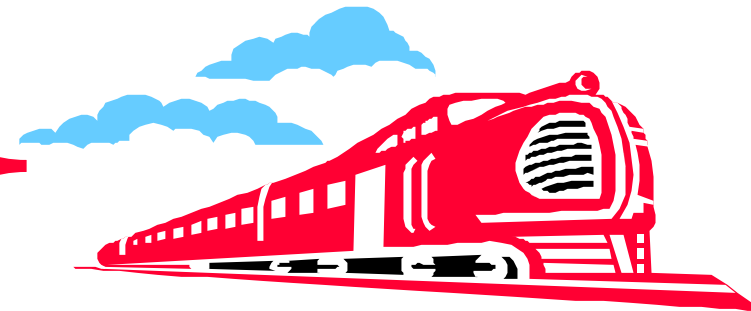


Many Considerations

- ✓ Technical – solutions being sought:
 - » Industry networking standards that fulfill TDR/ETS requirements
 - » Enhance TDR/ETS operations with value-added capabilities



- ✓ Operational
- ✓ Policy
- ✓ Legal
- ✓ Regulatory





Challenge

**applying technology
effectively to provide useful
telecommunication capabilities
that will fulfill
real operational requirements
for disaster relief operations**