Standardization Activity on Emergency Telecommunication System in ITU-T

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Collapse of the WTC towers destroyed many telephone switch and cellular antenna Serious congestion was reported in New York City and Washington, DC ▶ more than 18.000 GETS calls GETS: NCS's Government Emergency **Telecommunications Service** NCS: National Communications System

What is TDR

 TDR is "Telecommunications for emergency, disaster relief and mitigation operations"
 ITU defines TDR:

a telecommunication capability that will facilitate the use of public telecommunication services and systems by authorities for communications during emergency, disaster relief and mitigation operations.

TDR is not ETS

	Regional	National	International
Authority to Authority	Regional HF	National HF network	
	Satellite Communication		
	GETS, etc.		
	UNHCR, IFRCC, NGOs		
Citizen		IAA	
to Citizen	Voice n	nail	
Citizen to Authority	911, 119, 112 national emergency call, ETS		
Authority	Regional Broadcasting	TV, Radio	
to Citizen	Internet news		
			Target of TDR

Requirement of TDR

Under discussion!

Various requirement has been provided:

- International Organizations: United Nations, UNHCR, UNICEF, IFRC, NATO, etc.
- National Authorities: police, fire authorities, military organizations, and other organizations authorized by gov.
- NPOs: T´el´ecoms Sans Fronti`eres, M´edecins Sans Fronti`eres, etc.

Requirement of TDR (cont.)

Universal connectivity Security ► Availability Accessibility Network priority Mobility Cost effective

Current implementations relating TDR

Japan's Prioritized Telephone Service

- "Saigai Yusen Denwa" developed by NTT (for PSTN), NTT DoCoMo (for mobile), et.al
- To fulfill government regulations
- ► US's GETS and WPS
- ► UK's GTPS, ACCOLC and ECN
- Canada's PAD and HPC

Standardization activities relating TDR

► ITU

- ITU-R: M.DR.CIRC, M.PPDR, M.1042-1, etc.
- ITU-D: Handbook on Disaster Communications
 ITU-T -> next slide
- IETF: Internet Emergency Preparedness (ieprep)
- ETSI: Emergency Telecommunications (EMTEL)
 ATIS T1
- **NIT**

Standardization activities relating TDR in ITU-T

SG2: service and operational requirements and definition for TDR. • E.106, E.QSC, E.TE ► SG4: network management aspects. M.ets, M.QoS SG9: TDR capabilities over CATV SG11: signaling requirements to support **TDR** capabilities Q.IEPS, etc.

Standardization activities relating TDR in ITU-T (cont.) SG12: QoS and performance aspects G.107, G.109, G.1010, P.561, P.562 SG13: network architecture and interworking NGN-2004, Y1541,Y.roec ► SG16: multimedia service architecture, protocols and framework for TDR H.460.4, H.priority, H.SETS F. Series -> next slide ► SG17: security for TDR X.800 Series

Standardization activities relating TDR in ITU-T F.Series

► We are working for F.Series

- F.ETS
 - System framework, requirements and system concept
- F.706
 - International Preference Scheme for Multimedia Services in Support of Disaster Relief Operations and Mitigation
- F.MMCTDR

Multimedia Service Concept to support TDR

Past and Future of F.Series

