ITU-T

Trends of ITU-T Standard Activities about ETS/TDR

(S.W. Kim)
(S.Y. Kim)
(K.H. Lee)

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2002   12

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1994   , 1995   .   2004

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[1].

. ITU-T TDR

1. ETS TDR

ETS(Emergency Telecommunications Service)
IP NGN
(NS/EP)

2000 NCS(National Communication System)
. 2000 3 ITU-T
E.106 'Description of and Emergency
Preference Scheme(IEPS)' 2000 4
17 .
IEPS Emergency
(112, 999, 911)

,
ITU-T SG 2 E.106
'International Emergency Preference Scheme
for Disaster Relief Operations(IEPS)'
. ITU ETS
TDR(Telecommunications for Disaster and Relief)
,
TDR .
NCS ITU-T , 2001
Committee T1
. NCS

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Committee T1 .
, TDR

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(NS/EP)

. ,
(disaster relief) (NS/EP)
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,
ETS
,
NCS ETS
, .
, 2 Committee T1
ETS .
,
TDR
,
(NS/EP) ETS
[2].

2. TDR

TDR .
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[3].

3. TDR ITU

TDR
TDR

. ITU   ITU   TDR   ,
          , TDR

                                                    ,   .

TDR   ,   , IP
                        [3].   TDR

    TDR   ITU- T   .
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    TDR   ITU- R   .
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    •   ITU- R
    M(PPDR)   ,
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                                                                    [5].

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                                                                . **ITU- T   ETS/TDR**

    TDR   ITU- D
          .

                                                      ITU- T   7   Study Group
    •   (disaster communications)   (ETS)

    •   .

    • Office for the Coordination of Humanitarain   Study Group
      Affairs(OCHA), Inter Agency Standing Com-
      mittee(IASC), Working Group on Emergency   [4].
      Telecommunicaitions(WGETS)

4 TDR   **1. ITU- T TDR**
                                                                                                                    (Q.1/16)
    TDR   ITU
                                                          2000   E.106   2001
                                  .   ETS/TDR   Study Group
        PSTN, ISDN, PLMN   .   ,   S G
                                                      17   , SG 13
                        ,   NGN   .

                  .   ,
                                                                                  , ITU- T

ETS/TDR

. ITU-T

SG 16   Study Group Questions
Q.ets/16

ITU-T Study Group

.   2003   2

TSAG(Telecommunication Stan-
dardization Advisory Group)   Q.I/16
(Use of public telecommunication services for
emergency and disaster relief operations)

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TDR

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, Q.I/16

TDR
ITU-T Study Group

[6].

Q.I/16

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,   Q.I/16

SG
17   ,

.   TDR
. Q.I/16   [7].

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• SG 2   ETS/TDR

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ETS/TDR
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SG 17

• ETS/TDR
•   ETS/TDR

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•   ETS/TDR

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• ETS/TDR

Q.I/16

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• ITU-T Study Groups 2, 3, 4, 9, 11, 12, 13,
  15, 17, and SSG
• Questions of related topics within ITU-T
  Study Group 16, e.g., 2, F, G, and C-
  Metadata Ad Hoc
• ITU-R – WP 4B, WP 8B, and WP 9B
• ITU-D - Study Group 2
• UN Working Group on Emergency Tele-
  communications(WGET)
• Internet Engineering Task Force(IETF) -
  IAB, IESG, ieprep Working Group
• European Telecommunications Standardi-
  zation Institute(ETSI), OCG EMTEL, Partner-
  ship Project MESA, ETSI Project TIPHON,
  and Partnership Project 3GPP
• Telecommunications Industry Association
  (TIA) Partnership Project 3GPP2
• Asia-Pacific Telecommunity Standardization
  Program(ASTAP) Expert Group on Public
  Disaster Relief Communications
• User Organizations-UN and Other Inter-
  national Disaster Relief Organizations

2 Study Group 2

SG 2   ,

.

E.106, 'Description
of and Emergency Preference Scheme(IEPS)'
2000   4 17   2004
"International   Emergency   Preference
Scheme(IEPS) for disaster relief operations"
.   , SG 2

,   T DR
SG 16   Q.I/16
.
SG 2   Question 3/2   TDR
SG 16   Q.I/16
(TDR   SG 2   SG 16
TDR   ). Q.3/2
E.106   .
, 2003   2   TSAG(Tele-
communication Standardization Advisory Group)
SG 2   Q.3/2   SG 16   Q.I/16
TDR   ,
ITU- R,
ITU- T, ETSI, ISO/IEC, T1, APT   TDR
partnership coordination panel
.   SG 2   .

• E.106, "International Emergency Preference
Scheme(IEPS) for disaster relief operations":
, PSTN, ISDN   PLMN

,
Feature(priority dial tone, priority call
setup etc.)   .
IEPS
E.105
[8].

3. Study Group 4

TMN(Telecommunication Management Network)

.   (ETS)   SG 4

(customer service management interface
specification)   .

,

.   M.ets(Network and Service
Management Requirements for Information In-
terchange Across the TMN X- interface for the
International   Emergency   Telecommunication
Service)
M.3350
.

,   Telecom- ISAC(Information
Sharing and Analysis Center)
.

• M.3350, "TMN Service Management Re-
quirements for Information Interchange
across the TMN X- interface to Support
Provisioning of Telecommunication Capa-
bilities for Disaster Relief Operations and
Mitigation":

TMN- X
,   ,   ,
[9].

4. Study Group 9

SG 9   ,

. SG 9
J   ITU
.   IP

IPCablecom

. SG 9

(ETS)

. SG 9   ETS

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• J.160, "Architectural framework for the de-
livery of time- critical services over cable
television networks using cable modem":

TV

[10].

5. Study Group 11

SG 11

. SG11   PSTN

BICC   . SG 11
(ETS)
SS7 BICC   ETS
international code point   .
SS7/ISDN/ISUP   G.760
, BICC   Q.1900
, B- ISDN   Q.2700   .

6. Study Group 12

SG 12

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QoS
SG 12

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• G.107, "The E- model, a computational
Model for use in transmission planning":

E- Model
,

[11].

• G.109, "Definition of categories of speech
transmission quality":

R   [12].

• G.1010, "End user Multimedia QoS categories":

QoS
[13].

7. Study Group 13

SG 13   IP

.

SG 13   IP   ETS
. ETS (Emergency
Telecommunication Service in Next- Generation
Networks) Q1/13   , Y.roec(Frame-
works on Network Requirements and Capa-
bilities to Support Emergency Communications
Over Evolving Circuit Switched and Packet
Switched Networks)   ,
Y.1271   . SG 13

.

• Y.1271, "Framework(s) on network require-
ments and capabilities to support emer-
gency communications over evolving cir-
cuit- switched and packet- switched net-
works":   PSTN

,
capability
[14].

• Y.1541, "Network Performance objectives
for IP- based services": IP
QoS   ,

[15].

8 Study Group 16

(NS/EP)

(1)   SG 16

,   '

IP

.   H.323

, H.248

H.460.4(call priority designation for
H.323 calls)   H.323

,   ETS

.

H.priority

.

F.706, Service Description for an International
Emergency Multimedia Service(IEMS)

.   2002   2 SG 16

. F.706   PSTN, ISDN   PLMN

E.106(IEPS)   ,

(IEMS)

.

(ETS)   IEPS   IEMS

. SG 16   ETS

, SLA

( )   ( )

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SG 16   .

• F.706, "Service Description for an Inter-
  national Emergency Multimedia Service":

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IEMS   ,

,   ,

[16].

• H.460.4, "Call priority designation for H.323

ITU- T SG16 Structure

WP1 Facsimile and Modems	WP2 MM Platform and Interworking	WP3 Media Coding	WP4 MM Framework
H- Accessibility to Systems and Services	D- Interoperability of MM Systems and Services	E- Media Coding	A- MediaCom 2004
11- Modems	F- Quality of Service and End to End Performance	6- Advanced Video Coding	B- MM Architecture
12- DCE- DCE Protocols for the PSTN and ISDN	G- Security	7- Wideband Speech Coding	C- MM Applications and Sevices
13- DTE- DCE Interfaces and Protocols	1- MM Systems, Terminals and Data Conferencing	8- Speech Coding at 4kbit/s	ETS- Emergency Telecommunications Services
14- Facsimile Terminals	2- MM over Packet Networks (H.323)	9- Variable Bit- rate Speech Coding	
	3- Infrastructure and Interoperability	10- Software Tools and Maintenance of Speech Coding Standards	
	4- Video and Data Conferencing Using Internet Supported Services	15- Distributed Speech Recognition/Distributed Speaker Verification	
	5- Mobility for MM Systems and Services		

(1) ITU- T SG16

calls": H.323   .

,   H.323   ITU- T   PSTN   ,

VoIP   ETS

[17]   ,   ,   ,

• F.ETS:

, ITU- T

• H.Priority: T1

Committee   TIA

• H.SETS: .

9. Special Study Group(SSG)

SSG   'IMT- 2000 and Beyond'

. SSG   ITU- R

. SSG

IMT- 2000

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(ETS)

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ITU- T

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Study Group

Study

Group   Study Group

16   Q.I

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(TDMS)

(NDMS)

(NMS)

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[1]   , "   ," KTOA,

,   26   , 2003, pp. 31- 39.

[2] T1A1/2003- 067, Use of the Terms "ETS and
TDR," 2003.

[3] Final Report, Telecommunication for Disaster Re-
lief, Geneva, 2003. 2. 17.- 19.

[4] ITU- T, Live List of Areas of Work on ETS Issues
in Deveral Organization, 2004. 5., http://itu.int/ITU-
T/studygroups/com16/ets/live- list.html

[5] Telecommunication for Disaster Relief, Session3,
ITU- T Project on Telecommunications for TDR,'
ITU- T, 2003.

[6] TTA   , 86 , ITU- T TSAG   4
,' 2003.

[7] Telecommunication for Disaster Relief, Session4,
'TDR Requirements Definitions,' NCS, USA, 2003.

[8] ITU- T Rec. E.106, "International Emergency
Preference Scheme(IEPS) for Disaster Relief Op-
erations ," 2003. 10.

[9] ITU- T Rec. M.3350, "TMN Service Management
Requirements for Information Interchange Across
the TMN X interface to Support Provisioning of
Telecommunication Capabilities for Disaster Relief
Operations and Mitigation," 2004. 5.

[10] ITU- T Rec. J.160, Architectural Framework for
the Delivery of Time- critical Services over Cable
Television Networks Using Cable Modem, 2002. 2.

[11] ITU- T Rec. G.107, The E- model, a Computational
Model for Use in Transmission Planning, 2003. 3.

[12] ITU- T Rec. G.109, Definition of Categories of
Speech Tansmission Quality, 1999. 9.

[13] ITU-T Rec. G.1010, End user Multimedia QoS Categories, 2001. 11.

[14] ITU-T Rec. Y.1271, "Framework(s) on Network Requirements and Capabilities to Support Emergency Communications over Evolving Circuit-switched and Packet-switched Networks, 2003. 8.

[15] ITU-T Rec. Y.1541, Network Performance Objectives for IP-based Services, 2002. 5.

[16] ITU-T Rec. F.706, Service Description for an International Emergency Multimedia Service.

[17] H.460.4, Call Priority Designation for H.323 Calls, 2002. 11.