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Supplement 2

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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

H.248.x sub-series packages guide – Release 4

ITU-T H-series Recommendations – Supplement 2

ITU-T H-SERIES RECOMMENDATIONS
AUDIOVISUAL AND MULTIMEDIA SYSTEMS

CHARACTERISTICS OF VISUAL TELEPHONE SYSTEMS	H.100–H.199
INFRASTRUCTURE OF AUDIOVISUAL SERVICES	
General	H.200–H.219
Transmission multiplexing and synchronization	H.220–H.229
Systems aspects	H.230–H.239
Communication procedures	H.240–H.259
Coding of moving video	H.260–H.279
Related systems aspects	H.280–H.299
SYSTEMS AND TERMINAL EQUIPMENT FOR AUDIOVISUAL SERVICES	H.300–H.399
SUPPLEMENTARY SERVICES FOR MULTIMEDIA	H.450–H.499
MOBILITY AND COLLABORATION PROCEDURES	
Overview of Mobility and Collaboration, definitions, protocols and procedures	H.500–H.509
Mobility for H-Series multimedia systems and services	H.510–H.519
Mobile multimedia collaboration applications and services	H.520–H.529
Security for mobile multimedia systems and services	H.530–H.539
Security for mobile multimedia collaboration applications and services	H.540–H.549
Mobility interworking procedures	H.550–H.559
Mobile multimedia collaboration inter-working procedures	H.560–H.569
BROADBAND AND TRIPLE-PLAY MULTIMEDIA SERVICES	
Broadband multimedia services over VDSL	H.610–H.619

For further details, please refer to the list of ITU-T Recommendations.

Supplement 2 to ITU-T H-series Recommendations

H.248.x sub-series packages guide – Release 4

Summary

This Supplement summarizes packages that have been standardized in the time frame from June 2000 to May 2003. It identifies packages that meet H.248.x sub-series requirements for package definition and are for general use by the wider standards community.

H.248.x sub-series packages guide – Release 4 provides for the:

- identification of packages that are considered technically consistent with H.248.x sub-series principles and packages definition rules in clause 12/H.248.1;
- identification of packages that are currently being worked upon;
- identification of packages that have worked upon over a certain period of time;
- identification of packages with overlapping functionality.

Implementors are encouraged to review the packages in this supplement before proposing new packages.

Source

Supplement 2 to ITU-T H-series Recommendations was agreed by ITU-T Study Group 16 (2001-2004) on 30 May 2003.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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CONTENTS

	Page
1 Scope	1
2 References.....	1
3 Definitions	1
4 Abbreviations.....	1
5 ITU-T Study Group 16 packages.....	2
6 Externally defined Packages that meet requirements	10
6.1 ITU-T Study Group 11	10
6.2 3GPP CN4	12
7 Packages undergoing development.....	13
7.1 AMTF (ATM Forum).....	13
7.2 ETSI Tiphon	14
7.3 IETF Megaco.....	14
7.4 IETF Individual Submissions	15
8 H.248 sub-series MIBS.....	16

Supplement 2 to ITU-T H-series Recommendations

H.248.x sub-series packages guide – Release 4

1 Scope

This Supplement summarizes packages that have been standardized in the time frame from June 2000 to May 2003. It identifies packages that meet H.248.x sub-series requirements for package definition and are for general use by the wider standards community.

H.248.x sub-series packages guide – Release 4 provides for the:

- identification of packages that are considered technically consistent with H.248.x sub-series principles and packages definition rules in clause 12/H.248.1;
- identification of packages that are currently being worked upon;
- identification of packages that have worked upon over a certain period of time;
- identification of packages with overlapping functionality.

ITU-T Study Group 16 invites packages authors/editors to share their current and future work on packages in the form of contribution, liaison or communication to ITU-T Study Group 16. This will assist ITU-T Study Group 16 in producing future releases of this Supplement. ITU-T Study Group 16 will then endeavour to provide constructive comments to assist you in your packages work. If ITU-T SG16 determines that your packages are consistent with H.248 and particularly, clause 12/H.248.1, it will include these in the "Externally defined Packages that meet requirements" clause of the H.248.x sub-series packages Implementors' Guide.

2 References

- ITU-T Recommendation Q.1950 (2001), *Bearer independent call bearer control protocol*.

See clauses below for individual references.

3 Definitions

–

4 Abbreviations

–

5 ITU-T Study Group 16 packages

Package name and description	Identity		Reference	Status
	Text	Binary		
Annex E/H.248.1 Basic Packages The packages contained in this annex are: <ul style="list-style-type: none"> • Generic package • Base Root package • Tone Generator package • Tone Detection package • Basic DTMF Generator package • DTMF Detection package • Call Progress Tones Generator Package • Call Progress Tones Detection Package • Analog Line Supervision Package • Basic Continuity Package • Network Package • RTP Package • TDM Circuit Package 	g root tonegen tonedet dg dd cg cd al ct nt rtp tdmc	0x0001 0x0002 0x0003 0x0004 0x0005 0x0006 0x0007 0x0008 0x0009 0x000a 0x000b 0x000c 0x000d	Annex E/H.248.1	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
<p>H.248.2 Facsimile, text conversation and call discrimination packages</p> <p>This Recommendation describes packages for fax, text telephone, call type discrimination, and data call detection.</p> <p>The packages contained in this Recommendation are:</p> <p><i>The Call Type Discrimination package</i> defines control and monitoring of a PSTN line for the signalling protocols used in the beginning of a session of data transmission for fax, text telephony or data.</p> <p><i>The Text Telephone package</i> defines control of a PSTN text telephone session in any of the modes supported by the automoding text telephone ITU-T Rec. V.18.</p> <p><i>The Fax package</i> defines control of a PSTN fax transmission.</p> <p><i>The Fax/Textphone/Modem Tones Detection package</i> defines control over a termination for detection of any signals from a fax, text telephone or data modem during a connection in voice mode.</p> <p><i>The Text Conversation package</i> defines control over a real time interactive text conversation session using a universal presentation format and transferred with a transport method from a multimedia protocol in any network environment.</p> <p><i>The IP Fax package</i> defines control over facsimile transmission in a packet network.</p>	<p>Ftmd</p> <p>Txc</p> <p>Txp</p> <p>ctyp</p> <p>fax</p> <p>ipfax</p>	<p>0x000e</p> <p>0x000f</p> <p>0x0010</p> <p>0x0011</p> <p>0x0012</p> <p>0x0013</p>	H.248.2	Done
H.248.3 IP Phone Packages	<p>dis</p> <p>key</p> <p>kp</p> <p>labelkey</p> <p>kf</p> <p>ind</p> <p>ks</p> <p>anci</p>	<p>0x0014</p> <p>0x0015</p> <p>0x0016</p> <p>0x0017</p> <p>0x0018</p> <p>0x0019</p> <p>0x001a</p> <p>0x001b</p>	H.248.3	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
H.248.6 Dynamic Tone definition package This package defines a mechanism to redefine existing tones and create new tones for playback. The existing tones are the ones described in supported packages that extend the tonegen generic package.	dtd	0x001c	H.248.6	Done
H.248.7 Generic Announcement Package This package supports announcement functionality at a Media Gateway. This announcement could be realised by the Media Gateway as different sorts of messaging. For example: it could be an audio announcement, a text message or a composition of text messages.	an	0x001d	H.248.7	Done
H.248.9 Advanced Announcement Server Packages The Basic Audio package provides support for the standard IVR operations of PlayAnnouncement, PlayCollect, and PlayRecord. It supports direct references to simple audio as well as indirect references to simple and complex audio. It provides audio variables, control of audio interruptability, digit buffer control, special key sequences, and support for reprompting during data collection. The Advanced Audio Package extends the Base Package by providing an arbitrary number of user defined qualifiers to be used in resolving complex audio structures. For example, the user could define qualifiers for any or all of the following: language, accent, audio file format, gender, speaker, or customer.	aasb aasdc aasrec aassm bavvsyx vvsyx setsyx phrsyx	0x0033 0x0034 0x0035 0x0036 0x0047 0x0048 0x0049 0x004a	H.248.9	Done
H.248.10 Congestion Package This package makes it possible for the MG to control its load.	chp	0x0029	H.248.10	Done
H.248.11 Media Gateway Overload Control Package. This is a more in-depth proposal than H.248.10	ocp	0x0051	H.248.11	Done
H.248.12 H.248 packages for H.323 and Annex C/H.324 interworking This Recommendation gathers together packages for H.245, H.245 parameters specific to H-series audiovisual terminal and Annex C/H.324 for use with the H.248 gateway control protocol. The packages in this Recommendation are in conformance with clause 12/H.248.1 package definition guidelines.	h245 h323bc h324 h245com h245ind	0x002a 0x002b 0x002c 0x002d 0x002e	H.248.12	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
Annex A/H.248.12 Extended H.324-, H.245 Command- and H.245 Indication Packages This annex introduces package extensions that allow the MGC to control the interworking between H.324 and H.323.	H324ext H245comext h245indext	0x0063 0x0064 0x0065	Annex A/H.248.12	Done
H.248.13 Quality Alert Ceasing Package This package enables the MG to indicate when a line has returned to normal quality.	qac	0x0037	H.248.13	Done
H.248.14 Inactivity Alert Package. This is used by MG to poll whether or not the MGC is still alive.	It	0x0045	H.248.14	Done
H.248.15 SDP H.248 Package Attribute This Recommendation describes SDP attributes to allow the text local and remote descriptor to contain properties.	NA	NA	H.248.15	Done
H.248.16 Extended DTMF Detection Package	xdd edd	0x0052 0x0066	H.248.16	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
H.248.17 Line Test Packages This Recommendation contains a number of packages that enables line tests to be performed. <ul style="list-style-type: none"> • Quiet Termination Test Component • Loopback Line Test Response • ITU 404 Hz Line Test Package • ITU 816 Hz Line Test Package • ITU 1020 Hz Line Test Package • ITU 2100 Hz Disable Tone Line Test Package • ITU 2100 Hz Disable Echo Canceller Tone Line Test Package • ITU 2804 Hz Tone Line Test Package • ITU Noise Test Tone Line Test Package • ITU Digital Pseudo Random Test Tone Line Test Package • ITU ATME No.2 Test Line Response Package • ANSI 1004 Hz Test Tone Line Test Package • ANSI Test Responder Line Test Package • ANSI 2225 Hz Test Progress Tone Line Test Package • ANSI Digital Test Signal Line Test Package • ANSI Inverting Loopback Line Test Response 	qtlr lltr itult404 itult816 itult1020 itultdist itultdisecd itult2804 itultntt itultdprt itultatme2 ansilt1004 ansilrtres ansilt2225 ansiltdts ansiinvlltr	0x0053 0x0054 0x0055 0x0056 0x0057 0x0058 0x0059 0x005a 0x005b 0x005c 0x005d 0x005e 0x005f 0x0060 0x0061 0x0062	H.248.17	Done
H.248.18 Profile Handling Package. This package enables the MGC to determine what packages are on the MG.	prp	0x0050	H.248.18	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
H.248.19 Decomposed Multipoint Control Unit, Audio, Video and Data Conferencing Packages This Recommendation describes the decomposition of a Media Control Unit, requirements and packages for media resource functions. <ul style="list-style-type: none"> Floor Control Package Indication of Being Viewed Package Volume Control Package Volume Detection Package Volume Level Mixing Package Mixing Volume Level Control Package Voice Activated Video Switch Package Lecture Video Mode Package Contributing Video Source Package Video Window Package Tiled Window Package 	fcp indview vcp vdp vlmp mvlcp vavsp lvmp cvsp vwp tilwin	0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00?? 0x00??	H.248.19	In progress
H.248.20 The use of Local and Remote Descriptors with H.221/H.223 multiplexing This Recommendation describes how the local and remote descriptors are filled in for H.221 and H.223 multiplexing terminations	NA	NA	H.248.20	Done
H.248.21 Semi-permanent Connection Handling Package This Recommendation describes a package to enable the Media Gateway Controller to indicate to the Media Gateway that terminations and the connection between the "semi-permanent" marked terminations shall be treated as semi-permanent.	semper	0x006a	H.248.21	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
H.248.22 Shared Risk Group Package H.248.22 describes a package to enable the Media Gateway Controller (MGC) to indicate to the Media Gateway (MG) to use or to not use network resources associated with a shared risk group when setting up connections. A shared risk group is a group of resources that share the same risk of failure.	shrisk	0x006b	H.248.22	Done
H.248.23 Enhanced Alerting Packages This Recommendation defines two packages that provide enhanced alerting and data transfer capabilities for H.248: <ul style="list-style-type: none"> Enhanced Alerting Package Analogue Display Signalling Package 	alert andisp	0x003b 0x003c	H.248.23	Done
H.248.24 MF Tone Generation and Detection Packages This Recommendation defines two packages that provide multi-frequency tone generation and detection capabilities for H.248: <ul style="list-style-type: none"> Multifrequency Tone Generation Package Multifrequency Tone Detection Package 	mfg mfd	0x003d 0x003e	H.248.24	Done
H.248.25 Basic CAS Packages This Recommendation defines Basic Channel Associated Signaling (CAS) and R1 packages and supplemental CAS packages: <ul style="list-style-type: none"> Basic CAS Package Basic CAS Addressing Package Robbed Bit Signalling Package Operator Services and Emergency Services Package Operator Package 	bcas bcasaddr rbs oses osex	0x003f 0x00?? 0x0040 0x0041 0x0042	H.248.25	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
H.248.26 Enhanced Analog Lines Packages This Recommendation defines two packages that provide support for extended line supervision and metering analog lines capabilities for H.248: <ul style="list-style-type: none"> Extended Analogue Line Supervision Package Automatic Metering Package 	xal amet	0x0043 0x0044	H.248.26	Done
H.248.27 Supplemental Tones Packages This Recommendation defines three packages that provide additional tones capabilities for H.248: <ul style="list-style-type: none"> Conferencing Tones Generation Package Diagnostic Tones Package Carrier Tones Generation Package 	conftn test carr	0x0038 0x0039 0x003a	H.248.27	Done
H.248.icas International CAS Packages The International CAS package (icas) provides an extension to the Basic CAS packages, defining additional line signals and events required for international signaling protocols. <ul style="list-style-type: none"> International CAS Package 	icas	0x003f	H.248.icas (TD-WP2-0026 Geneva 2003-05)	In progress
H.248.icas International CAS Compelled Register Signalling Packages <ul style="list-style-type: none"> International CAS Compelled Package International Compelled with Overlap Package International CAS Compelled with end-to-end Package 	Icas icasco icasce	0x00?? 0x00?? 0x00??	H.248.icas (D341)	In progress
H.248.ajb Jitter Buffer Extension Package	???	0x00??	H.248.ajb (TD-WP2-0052 Geneva 2003-05)	In progress

6 Externally defined Packages that meet requirements

The packages identified in this clause are consistent with regards to the package definition rules contained clause 12/H.248.1.

6.1 ITU-T Study Group 11

Package name and description	Identity		Reference	Status
	Text	Binary		
Bearer Characteristics Package This package contains the functionality required to identify which bearer services are to be supported by a MG.	bcp	0x001e	A.3/Q.1950	Done
Bearer Network Connection Cut Through Package This package provides the functionality to be able to determine the cut through capabilities of the bearer network.	bnct	0x001f	A.4/Q.1950	Done
Reuse Idle Package This package provides the ability to determine the reuse of idle bearer functionality network.	ri	0x0020	A.5/Q.1950	Done
Generic Bearer Connection Package This package provides the functionality to be able to establish/modify/release a bearer connection.	gb	0x0021	A.6/Q.1950	Done
Bearer Control Tunnelling Package This package describes the functionality to be able support the transport of "Bearer Information Transport" information between an MGC and MG.	bt	0x0022	A.7/Q.1950	Done
Basic Call Progress Tones Generator with Directionality This package defines the basic call progress tones as signals and extends the allowed values of the tl parameter of playtone in tonegen . In addition, this package extends the Tone Generator Package with the ability to specify in which direction the tone is played.	bcp	0x0023	A.8/Q.1950	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
Expanded Call Progress tones Generator Package This package defines the expanded call progress tones as signals and extends the allowed values of the tl parameter of playtone in tonegen. In addition, this package extends the Tone Generator Package with the ability to specify in which direction the tone is played.	Xcg	0x0024	A.9/Q.1950	Done
Basic Services Tones Generation Package This package defines signals for use by telephony services and allows for specification of directionality.	srvtn	0x0025	A.10/Q.1950	Done
Expanded Services Tones Generation Package This package defines additional signals for use by telephony services and allows for specification of directionality.	xsrvtn	0x0026	A.11/Q.1950	Done
Intrusion Tones Generation Package This package defines for use by operator-based telephony services and allows for specification of directionality.	int	0x0027	A.12/Q.1950	Done
Business Tones Generation Package This package defines for use by business telephony services and allows for specification of directionality.	biztn	0x0028	A.13/Q.1950	Done
Bearer Characteristics Package v2 Version 2 introduces a new value for TDM bearer characteristics	bcp (Version 2)	0x001e (Version 2)	Annex A/Q.1950	Done
Connection Group Identity Package The Connection Group ID is required information in a BIWF if a connection is to be established in the direction toward the BICC Access Network and the private virtual facility capability is invoked.	xg	0x0067	Annex E/Q.1950	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
SPNE Control Package This package defines properties and events for SPNE functions controlled by or integrated into a media gateway. Note that echo cancellers associated with media gateways are assumed to be compliant with ITU-T Rec. G.168 as indicated in ITU-T Rec. G.177.	spne	0x0069	Q.115.0	Done
ISUP Trunk Tones Generator Package This package defines the ISUP trunk tones played from a trunk gateway as signals and extends the allowed values of the tl parameter of playtone in tonegen.	isuptn	0x006c	Annex B/Q.171	Done

6.2 3GPP CN4

Package name and description	Identity		Reference	Status
	Text	Binary		
3GUP (User Plane) package This package identifies that the User Plane package is used for the termination. It also contains some parameters for the User Plane functions in the MGW.	threegup	0x002f	3GPP TS 29.232	Done
Circuit Switched Data package This package contains the information needed to be able to support GSM and UMTS Circuit Switched Data from the media gateway.	threegcds	0x0030	3GPP TS 29.232	Done
TFO package This package defines events and properties for Tandem Free Operation (TFO) control. TFO uses inband signalling and procedures for Transcoders to enable compressed speech to be maintained between a tandem pair of transcoders. This package allows an MGW which has inserted a transcoder to support TFO.	threegtfoc	0x0031	3GPP TS 29.232	Done

Package name and description	Identity		Reference	Status
	Text	Binary		
3G Expanded Call Progress Tones Generator Package This package extends "Expanded Call Progress Tones Generator Package" as defined in ITU-T Rec. Q.1950. The package adds a new toneId for CAMEL prepaid warning tone.	threegxcg	0x0032	3GPP TS 29.232	Done
3G Modification of Link Characteristics Package	threegmlc	0x0046	3GPP TS 29.232	Done
CTM Text Transport	threegctm	0x0068	3GPP TS 29.232 v5.2.0	Done

7 Packages undergoing development

The packages identified in this clause are currently under development and/or have not been reviewed by SG16. The packages identified here may have inconsistencies with regards to the package definition rules contained in clause 12/H.248.1. The packages below may also overlap in functionality.

7.1 AMTF (ATM Forum)

Package name and description	Identity		Reference	Status
	Text	Binary		
ATMF are no longer defining their own packages. Reference is made to IETF developed packages. For more information see: BTD-VMOA-LESH248-01.02 LES Using AAL2 – H.248 Signalling Addendum October 2001.				

7.2 ETSI Tiphon

Package name and description	Identity		Reference	Status
	Text	Binary		
Aggregate Bearer Control Package This package defines aggregate bearer load control information flows between a MG and MGC in order to provide admission control functionality based on aggregate bandwidth usage measurements and transport network QoS performance.	aggr	?	DTS 03022 v0.0.3	In progress
Middle Box Package This package defines a property to enable the MGC to act as a MIDCOM Agent and control a "gateway" acting as a Middlebox	emp	?	DTS3027 V0.1.0 (2002-01)	In progress

7.3 IETF Megaco

NOTE – The packages are official work items adopted by the IETF Megaco work group. These references can be found at the URL: <ftp://www.ietf.org/internet-drafts/>

Package name and description	Identity		Reference (Note)	Status
	Text	Binary		
Megaco/H.248 sub-series NAS Packages <ul style="list-style-type: none"> • Basic NAS Package • NAS incoming package • NAS outgoing package • NAS control package • NAS root package 	nas nasin nasout nasctl nasroot	0x004b 0x004c 0x004d 0x004e 0x004f	draft-ietf-megaco-naspkg-04.txt	In progress
Megaco R2 packages and Call Flows	NA	NA	draft-ietf-megaco-r2package-03.txt	Expired

7.4 IETF Individual Submissions

NOTE – This clause identifies packages that individuals have submitted to the IETF. These have not been taken as official work items of the IETF Megaco work group.

Package name and description	Identity		Reference	Status
	Text	Binary		
MF Tone Generation and Detection Packages			draft-bothwell-megaco-mftonepkgs-03.txt	Expired. Superseded by H.248.24.
ISDN Package for Megaco	NA	NA	draft-bouwen-megaco-isdn-pack-00.txt	Expired
Enhanced Alerting Packages for Megaco/H.248 sub-series			draft-boyle-megaco-alerting-03.txt	Expired. Superseded by H.248.23.
Supplemental Tones Packages for Megaco/H.248 sub-series			draft-boyle-megaco-tonepkgs-07.txt	Expired. Superseded by H.248.27.
MGC Cookie Package for Megaco/H.248 sub-series	mgcookie	0x00??	draft-cutler-megaco-mgc-cookie-02.txt	Expired
Megaco/H.248 sub-series Basic CAS Packages			draft-manyfolks-megaco-caspackage-02.txt	Expired. Superseded by H.248.25.
Enhanced Line Services Packages			draft-taylor-megaco-enhlpkgs-01.txt	Expired. Superseded by H.248.26.
Name Pattern Package for Megaco	nampat	0x00??	draft-rosen-megaco-namepatterns-01.txt	Expired
Megaco/H.248 sub-series QoS Packages: This document is work in progress and defines the basic QoS Package that addresses the different means of supporting Quality of service (QoS) on IP networks. This memo also defines the RSVP package (that falls into the Integrated services model) and the Differentiated services package in association with the Megaco/H.248 Protocol	Bqos Rsvp diffserv	0x00?? 0x00?? 0x00??	draft-madhubabu-megaco-qospackage-00.tx	Expired

Package name and description	Identity		Reference	Status
	Text	Binary		
MEGACO/H.248 FXO packages This document describes the events and signals helpful for signaling between Central Office (CO) and Foreign Exchange Office (FXO) at Customer Premises Equipment (CPE).	??	??	draft-sridhar-megaco-fxopackage-01.txt	Expired
AAL2 Package	??	??	draft-barr-megaco-aal2bearer-00.txt	Expired
Megaco ATM Package	NA	NA	draft-rosen-megaco-atm-package-01.txt	Expired

8 H.248 sub-series MIBS

NOTE – These references can be found at the URL: <ftp://www.ietf.org/internet-drafts/>

MIB Name	Reference (Note)
H.248 sub-series MIB	<draft-ietf-megaco-mib-05.txt>
H.248 Ringing MIB	<draft-pitchandi-megaco-ringing-mib-00.txt>
H.248 sub-series Tones MIB	<draft-doyle-megaco-tonesmib-00>

SERIES OF ITU-T RECOMMENDATIONS

Series A	Organization of the work of ITU-T
Series B	Means of expression: definitions, symbols, classification
Series C	General telecommunication statistics
Series D	General tariff principles
Series E	Overall network operation, telephone service, service operation and human factors
Series F	Non-telephone telecommunication services
Series G	Transmission systems and media, digital systems and networks
Series H	Audiovisual and multimedia systems
Series I	Integrated services digital network
Series J	Cable networks and transmission of television, sound programme and other multimedia signals
Series K	Protection against interference
Series L	Construction, installation and protection of cables and other elements of outside plant
Series M	TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits
Series N	Maintenance: international sound programme and television transmission circuits
Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
Series Q	Switching and signalling
Series R	Telegraph transmission
Series S	Telegraph services terminal equipment
Series T	Terminals for telematic services
Series U	Telegraph switching
Series V	Data communication over the telephone network
Series X	Data networks and open system communications
Series Y	Global information infrastructure, Internet protocol aspects and Next Generation Networks
Series Z	Languages and general software aspects for telecommunication systems