

I n t e r n a t i o n a l T e l e c o m m u n i c a t i o n U n i o n

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

Series H

Supplement 4

(07/2007)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

**Repository of generic parameters for
ITU-T Recommendations H.460.x sub-series**

ITU-T H-series Recommendations – Supplement 4

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AUDIOVISUAL AND MULTIMEDIA SYSTEMS

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Supplement 4 to ITU-T H-series Recommendations

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Summary

Supplement 4 to the H series of ITU-T Recommendations lists generic parameters assigned in the H.460.x series of ITU-T Recommendations. Its purpose is to provide a quick reference to those parameters. This revision of Supplement 4 adds parameters that have been defined in new H.460.x Recommendations since the previous edition of this supplement was published.

Source

Supplement 4 to ITU-T H-series Recommendations was agreed on 6 July 2007 by ITU-T Study Group 16 (2005-2008).

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.

NOTE

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Supplement 4 to ITU-T H-series Recommendations

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1 Scope

The generic extensibility framework (GEF) concept is described in [ITU-T H.323], and the corresponding data fields are formally defined in [ITU-T H.225.0]. Individual feature specifications define the meaning and content of those fields for specific features. ITU-T Rec. H.460.1 gives some guidance on the usage of GEF.

This supplement to ITU-T Rec. H.460.1 lists generic parameters assigned in the H.460.x series of ITU-T Recommendations. Its purpose is to provide a quick reference to those parameters. This supplement will be regularly updated as new H.460.x Recommendations appear.

2 References

- [ITU-T H.225.0] ITU-T Recommendation H.225.0 (2006), *Call signalling protocols and media stream packetization for packet-based multimedia communication systems*.
- [ITU-T H.245] ITU-T Recommendation H.245 (2006), *Control protocol for multimedia communication*.
- [ITU-T H.323] ITU-T Recommendation H.323 (2006), *Packet-based multimedia communications systems*.

3 Abbreviations

This supplement uses the following abbreviations:

ASN.1	Abstract Syntax Notation one
GEF	Generic Extensibility Framework
ID	Identifier
PER	Packed Encoding Rules

4 Generic identifier assignment

GEF can be used for standard and non-standard features. Each feature and each parameter defined in the context of such a feature are unambiguously identified by an identifier. Standard features are specified in the H.460.x series of ITU-T Recommendations, with some exceptions where a feature is defined in an annex to another Recommendation, and generally use integer values as identifiers. Non-standard features may be defined by an organization other than ITU-T or by a vendor, a service provider, etc. They use object IDs or non-standard parameters as identifiers. In any case, the feature specification also assigns the identifiers used by that feature.

This supplement lists the identifiers assigned to date for standard GEF features, i.e., features defined by ITU-T.

5 List of identifiers

5.1 Feature identifiers

The identifier n of a feature is the same as the final part in H.460. n , the designation of the Recommendation defining that feature. Feature identifiers are used at the top level of a *genericData* structure or of a *featureDescriptor* within a *featureSet*.

Feature ID	Feature name	defined in ...	Remarks
0	idAnnexGProfiles	H.501	Usage defined in Annex G/H.225.0
1	robustnessId	Annex R/H.323	Feature ID also used as parameter ID
2	Number Portability	H.460.2	
3	Circuit Status	H.460.3	
4	CallPriorityDesignation	H.460.4	
5	DuplicateIEs	H.460.5	
6	Extended Fast Connect (EFC)	H.460.6	
7	Digit Maps	H.460.7	
8	Querying for Alternate Routes	H.460.8	
9	QoS-monitoring Reporting	H.460.9	
10	Call Party Category	H.460.10	
11	Delayed Call Establishment	H.460.11	
12	Glare Control Indicator	H.460.12	
13	Called User Release Control	H.460.13	
14	Multi-Level Precedence and Preemption (MLPP)	H.460.14	
15	Suspend and Resume TCP Signalling Channel	H.460.15	
16	Multiple-message Release Sequence	H.460.16	
17	RAS over H.225.0	H.460.17	
18	Signalling Traversal	H.460.18	This feature makes also use of the H.245 genericIndication message
19	mediaNATFWTraversal	H.460.19	This feature makes also use of the genericInformation field in H.245 messages
20	LocationSourceAddress	H.460.20	
21	Message Broadcast	H.460.21	
22	SecurityProtocolNegotiation	H.460.22	
1000	RAS Protocol Tunnel	Annex M4/H.323	

5.2 Generic parameters

Each *enumeratedParameter* carried within a *genericData* structure (or a *featureSet* in case of feature negotiation) is identified by an identifier with local context, i.e., a value that is only unique within the scope of the specific feature. Therefore, parameter identifiers appear on a level below a feature identifier.

Parameters may carry content in addition to the identifier. However, for feature negotiation (i.e., inside a *featureSet*), parameters will be included as identifiers without content.

Feature	Parameter			Reference
	ID	Name	Content	
0	1	idAnnexGProfileA	none	H.501 and Annex G/H.225.0
1	1	robustnessId	ASN.1/PER	Annex R/H.323
2	1	NumberPortabilityData	ASN.1/PER	H.460.2
3	1	Circuit Status Map	ASN.1/PER	H.460.3
4	1	CallPriorityRequest	ASN.1/PER	H.460.4
	2	CallPriorityConfirm	ASN.1/PER	
5	1	IEsString	raw	H.460.5
6	1	EFC Proposal	none	H.460.6
	2	EFC Close All Media Channels	none	
	3	EFC Request New Proposals	none	
	4	EFC Require Symmetric Operation	none	
7	1	Digit Maps Length	number32	Clause 5/H.460.7 (parameters for featureSet)
	2	Digit Maps Length for Overlapped Sending	number32	
	3	HTTP Download Capability	bool	
	1	Start Timer	number8	Clause 6/H.460.7 (parameters for genericData)
	2	Short Timer	number8	
	3	Long Timer	number8	
	4	Digit Map String	text	
	5	ToN Associated Digit Map	compound	
	1	Type of Number (ToN)	number8	(components of parameter 5)
	2	Digit Map Strings for ToN	text	
	6	Digit Map URL	alias	
8	1	Query Count	number8	H.460.8
	2	Call Termination Cause	raw	
9	0	qosMonitoringFinalOnly	none	H.460.9
	1	qosMonitoringReportData	ASN.1/PER	
	2	qosMonitoringExtendedRTPMetrics	ASN.1/PER	Annex B/H.460.9
10	1	Call Party Category Info	ASN.1/PER	H.460.10
11	1	Delay Point Indicator (DPI)	number8	H.460.11
	2	Implicit DCE Release	none	
	3	Delay Point Reached (DPR)	none	
	4	DCE Release	none	

Feature	Parameter			Reference
	ID	Name	Content	
12	1	Glare Control Indicator Parameter	number8	H.460.12
13	1	Called User Release Control	number8	H.460.13
14	1	MLPP Information	ASN.1/PER	H.460.14
15	1	Signalling Channel Suspend and Redirect Parameter	ASN.1/PER	H.460.15
16	1	MMRS Use Required	none	H.460.16
	2	MMRS Procedure	number8	
	3	MMRS Additional IEs	raw	
17	1	RAS message	ASN.1/PER	H.460.17
18	1	IncomingCallIndication	ASN.1/PER	H.460.18
	2	LRQKeepAliveData	ASN.1/PER	
	1	<i>callIdentifier</i>	<i>octetString</i>	
	2	<i>answerCall</i> <i>NOTE – Both only used within an H.245 genericIndication message with subMessageIdentifier connectionCorrelation = 1</i>	<i>logical</i>	
19	1	supportTransmitMultiplexedMedia	none	H.460.19
	2	hMAServer	none	
	1	<i>Traversal Parameters</i> <i>NOTE – Only used within genericInformation field of H.245 messages</i>	<i>ASN.1/PER</i>	
20	1	LocationSourceAddress	ASN.1/PER	H.460.20
21	1	MessageBroadcastParameter	ASN.1/PER	H.460.21
22	1	tlsSecurityProtocol	compound	H.460.22 (components of parameter 1)
	1	priority	number8	
	2	connectionAddress	transport	(components of parameter 2)
	2	ipsecSecurityProtocol	compound	
	1	priority	number8	
1000	1	Protocol Tunnel	ASN.1/PER	Annex M4/H.323
NOTE – ASN.1/PER means raw format containing a PER encoding, supplemented by an ASN.1 definition of the content.				

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