

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**  
(12/2011)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

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

ITU-T H-series Recommendations – Supplement 4



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## **Supplement 4 to ITU-T H-series Recommendations**

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

#### **Summary**

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

This revision adds feature identifiers for ITU-T H.460.23 Amendment 1 and ITU-T H.460.24 Amendment 1.

#### **History**

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H Suppl. 4	2003-05-30	16
2.0	ITU-T H Suppl. 4	2004-01-30	16
3.0	ITU-T H Suppl. 4	2004-11-26	16
4.0	ITU-T H Suppl. 4	2005-08-05	16
5.0	ITU-T H Suppl. 4	2006-04-13	16
6.0	ITU-T H Suppl. 4	2007-07-06	16
7.0	ITU-T H Suppl. 4	2010-07-30	16
8.0	ITU-T H Suppl. 4	2011-12-02	16

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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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## Supplement 4 to ITU-T H-series Recommendations

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

#### 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. Recommendation ITU-T H.460.1 gives some guidance on the usage of GEF.

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

#### 2 References

- [ITU-T H.225.0] Recommendation ITU-T H.225.0 (2009), *Call signalling protocols and media stream packetization for packet-based multimedia communication systems*.
- [ITU-T H.245] Recommendation ITU-T H.245 (2009), *Control protocol for multimedia communication*.
- [ITU-T H.323] Recommendation ITU-T H.323 (2009), *Packet-based multimedia communications systems*.

#### 3 Abbreviations and acronyms

This supplement uses the following abbreviations and acronyms:

ASN.1	Abstract Syntax Notation one
EFC	Extended Fast Connect
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 ITU-T H.460.x series of 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 Recommendation ITU-T 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	ITU-T H.501	Usage defined in Annex G of [ITU-T H.225.0].
1	robustnessId	Annex R of [ITU-T H.323]	Feature ID also used as parameter ID.
2	Number Portability	ITU-T H.460.2	
3	Circuit Status	ITU-T H.460.3	
4	CallPriorityDesignation	ITU-T H.460.4	
5	DuplicateIEs	ITU-T H.460.5	
6	Extended Fast Connect (EFC)	ITU-T H.460.6	
7	Digit Maps	ITU-T H.460.7	
8	Querying for Alternate Routes	ITU-T H.460.8	
9	QoS-monitoring Reporting	ITU-T H.460.9	
10	Call Party Category	ITU-T H.460.10	
11	Delayed Call Establishment	ITU-T H.460.11	
12	Glare Control Indicator	ITU-T H.460.12	
13	Called User Release Control	ITU-T H.460.13	
14	Multi-Level Precedence and Preemption (MLPP)	ITU-T H.460.14	
15	Suspend and Resume TCP Signalling Channel	ITU-T H.460.15	
16	Multiple-message Release Sequence	ITU-T H.460.16	
17	RAS over H.225.0	ITU-T H.460.17	
18	Signalling Traversal	ITU-T H.460.18	This feature makes also use of the [ITU-T H.245] genericIndication message.
19	mediaNATFWTraversal	ITU-T H.460.19	This feature makes also use of the genericInformation field in [ITU-T H.245] messages.
20	LocationSourceAddress	ITU-T H.460.20	
21	Message Broadcast	ITU-T H.460.21	
22	SecurityProtocolNegotiation	ITU-T H.460.22	
23	NAT/FW determination	ITU-T H.460.23	



Feature ID	Feature name	Defined in:	Remarks
24	P2Pnat media	ITU-T H.460.24	This feature also makes use of the [ITU-T H.240] genericIndication message and the genericInformation field of the OLC and OLCAck messages defined in [ITU-T H.245].
25	Geographic Information	ITU-T H.460.25	
1000	RAS Protocol Tunnel	Annex M4 of [ITU-T 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	ITU-T H.501 and Annex G of [ITU-T H.225.0]
1	1	robustnessId	ASN.1/PER	Annex R of [ITU-T H.323]
2	1	NumberPortabilityData	ASN.1/PER	ITU-T H.460.2
3	1	Circuit Status Map	ASN.1/PER	ITU-T H.460.3
4	1	CallPriorityRequest	ASN.1/PER	ITU-T H.460.4
	2	CallPriorityConfirm	ASN.1/PER	
5	1	IEsString	raw	ITU-T H.460.5
6	1	EFC Proposal	none	ITU-T 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 of [ITU-T 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 of [ITU-T 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	

Feature	Parameter			Reference
	ID	Name	Content	
8	1	Query Count	number8	ITU-T H.460.8
	2	Call Termination Cause	raw	
9	0	qosMonitoringFinalOnly	none	ITU-T H.460.9  Annex B of [ITU-T H.460.9]
	1	qosMonitoringReportData	ASN.1/PER	
	2	qosMonitoringExtendedRTMetrics	ASN.1/PER	
10	1	Call Party Category Info	ASN.1/PER	ITU-T H.460.10
11	1	Delay Point Indicator (DPI)	number8	ITU-T H.460.11
	2	Implicit DCE Release	none	
	3	Delay Point Reached (DPR)	none	
	4	DCE Release	none	
12	1	Glare Control Indicator Parameter	number8	ITU-T H.460.12
13	1	Called User Release Control	number8	ITU-T H.460.13
14	1	MLPP Information	ASN.1/PER	ITU-T H.460.14
15	1	Signalling Channel Suspend and Redirect Parameter	ASN.1/PER	ITU-T H.460.15
16	1	MMRS Use Required	none	ITU-T H.460.16
	2	MMRS Procedure	number8	
	3	MMRS Additional IEs	raw	
17	1	RAS message	ASN.1/PER	ITU-T H.460.17
18	1	IncomingCallIndication	ASN.1/PER	ITU-T H.460.18
	2	LRQKeepAliveData	ASN.1/PER	
	1 2	<i>callIdentifier</i> <i>answerCall</i> NOTE – Both only used within an ITU-T H.245 <i>genericIndication</i> message with <i>subMessageIdentifier</i> <i>connectionCorrelation = 1</i>	<i>octetString</i> <i>logical</i>	
19	1	supportTransmitMultiplexedMedia	none	ITU-T H.460.19
	2	hMAServer	none	
	1	<i>Traversal Parameters</i> NOTE – Only used within <i>genericInformation</i> field of ITU-T H.245 messages	ASN.1/PER	
20	1	LocationSourceAddress	ASN.1/PER	ITU-T H.460.20
21	1	MessageBroadcastParameter	ASN.1/PER	ITU-T H.460.21
22	1	tlsSecurityProtocol	compound	ITU-T H.460.22  (components of parameter 1)
	1	priority	number8	
	2	connectionAddress	transport	
	2	ipsecSecurityProtocol	compound	
	1	priority	number8	(components of parameter 2)

Feature	Parameter			Reference
	ID	Name	Content	
23	1	RemoteNAT	bool	ITU-T H.460.23
	2	SameNATProbe	bool	
	3	NATPresent	bool	
	4	RASPresentation	transport	
	5	NATTest	transport	
	6	NATType	number8	
	7	ExternalNATProbe	bool	
24	1	RemoteProxy	bool	ITU-T H.460.24
	2	RemoteNAT	bool	
	3	MustProxyNAT	bool	
	4	CalledIsNAT	bool	
	5	CalledNATType	number8	
	6	ApparentSourceAddress	transport	
	7	SameNatProbe	bool	
	8	MediaStrategy	number8	
	9	ExternalNATProbe	bool	
25	1	Location	raw	ITU-T H.460.25
	2	Screening Indicator	number8	
	3	Presentation Indicator	number8	
1000	1	Protocol Tunnel	ASN.1/PER	Annex M4 of [ITU-T 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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