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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Supplementary  
services for multimedia

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**Call party category within H.323 systems**

ITU-T Recommendation H.460.10

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# **ITU-T Recommendation H.460.10**

## **Call party category within H.323 systems**

### **Summary**

This Recommendation specifies a mechanism that allows calling H.323 endpoints to signal calling party category information in the forward direction, and allows called H.323 endpoints to signal called party category information in the backward direction.

### **Source**

ITU-T Recommendation H.460.10 was approved on 15 March 2004 by ITU-T Study Group 16 (2001-2004) under the ITU-T Recommendation A.8 procedure.

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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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# ITU-T Recommendation H.460.10

## Call party category within H.323 systems

### 1 Scope

A calling party's category (CPC) parameter is defined by ISUP that describes the nature of the calling party, e.g., operator language, test call, payphone, etc. In addition, a called party category indicator is included in the ISUP backward call indicators parameter. ISUP variants used in some regional networks (in North America) define an originating line information (OLI) parameter to carry this information instead of the CPC parameter. R2 signalling uses the Group II forward signals to carry similar information. ITU-T Rec. H.450.12 defines a partyCategory field that identifies the category of either the calling party or the called party involved in the call.

This information would be very useful for making routing and accounting decisions within the H.323 network. A mechanism is, therefore, required to support the signalling of the calling party category in H.323 networks.

A calling endpoint should be able to signal calling party category information in the forward direction. The calling party category parameter may be included in Setup, ARQ and LRQ messages. H.323 devices, gateways, gatekeepers and border elements may apply routing and accounting policies based on the value of the calling party category.

A called endpoint should be able to signal called party category information in the backward direction. The called party category parameter may be included in progress, alerting or connect messages. H.323 devices, gateways, gatekeepers and border elements may apply routing and accounting policies based on the value of the called party category.

This Recommendation specifies a mechanism that allows calling H.323 endpoints to signal calling party category information in the forward direction and allows called H.323 endpoints to signal called party category information in the backward direction.

### 2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

- ITU-T Recommendation H.225.0 (2003), *Call signalling protocols and media stream packetization for packet-based multimedia communication systems*.
- ITU-T Recommendation H.323 (2003), *Packet-based multimedia communications systems*.
- ITU-T Recommendation Q.763 (1999), *Signalling System No. 7 – ISDN user part formats and codes plus Amendment 2 (2002), Support for the International Emergency Preference Scheme*.
- ITU-T Recommendation H.460.4 (2002), *Call priority designation for H.323 calls*.
- ANSI T1.113-2000<sup>1</sup>, *Signalling System No. 7 (SS7) – Integrated Services Digital Network (ISDN) User Part*.

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<sup>1</sup> T1 standards are maintained since November 2003 by ATIS.

### 3 Call party category

The call party category parameter is used to transport calling party category information in messages sent by the calling H.323 endpoint in the forward direction, and to transport called party category information in messages sent by the called H.323 endpoint in the backward direction. If the calling party category has the value of the International Emergency Preference Scheme (IEPS), then the use of H.460.4 procedures is not precluded.

A H.323 endpoint or gatekeeper may include the call party category parameter in H.225.0 RAS and call signalling (Q.931) messages using the generic extensibility framework.

When sending the call party category parameter in the call signalling messages, it shall be coded in the genericData parameter in the H.225.0 H323-UU-PDU in the user-user information element.

When sending the call party category parameter in the RAS messages, it shall be coded in the genericData parameter in the request parameter of the H.225.0 RAS Message.

The GenericData parameter indicates the callPartyCategory feature and contains a callPartyCategory parameter.

Table 1 defines the call party category feature.

**Table 1/H.460.10 – Call party category feature**

Feature name:	Call party category
Feature Description:	This feature allows a H.323 endpoint to include calling party category or called party category information in a signalling message.
Feature identifier type:	Standard
Feature identifier value:	10

### 4 Call party category info parameter

Table 2 defines the call party category info parameter.

**Table 2/H.460.10 – Call party category info parameter**

Parameter name:	Call party category info
Parameter description:	The call party category information parameter is the data sent in H.225.0 RAS and call signalling messages. The content is a raw field consisting of the ASN.1 PER encoded CallPartyCategoryInfo as specified in the ASN.1 in 4.1.
Parameter identifier type:	Standard
Parameter identifier value:	1
Parameter type:	Raw
Parameter cardinality:	Once and only once

## 4.1 Call party category info ASN.1 definition

The call party category info definition used within the GenericData is shown below.

```
CALL-PARTY-CATEGORY DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

CallPartyCategoryInfo ::= SEQUENCE
{
    callPartyCategory          CallPartyCategory OPTIONAL,
    originatingLineInfo       OriginatingLineInfo OPTIONAL,
    ...
}

CallPartyCategory ::=          INTEGER (0..255)

OriginatingLineInfo ::=      INTEGER (0..255)

END
```

## 4.2 Description of ASN.1 types and fields

**CallPartyCategoryInfo** – The H.323 endpoint may include this field to signal the calling or called party category or originating line information parameters in call signalling or RAS messages.

**CallPartyCategory** – The H.323 endpoint may include this field to signal the calling or called party category information in call signalling or RAS messages. The contents are values that are defined in ITU-T Rec. Q.763 (1999) and its Amendment 2 (2002).

**OriginatingLineInfo** – The calling H.323 endpoint may include this field to signal the originating line information parameter in call signalling or RAS messages. The contents are values that are defined in ANSI T1.113.3-2000, Annex C.





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