International Telecommunication Union

ITU-T

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STANDARDIZATION SECTOR
OF ITU

H.248.15
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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Communication procedures

Gateway control protocol: SDP ITU-T H.248 package attribute

Recommendation ITU-T H.248.15

ITU-T H-SERIES RECOMMENDATIONS

AUDIOVISUAL AND MULTIMEDIA SYSTEMS

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

Recommendation ITU-T H.248.15

Gateway control protocol: SDP ITU-T H.248 package attribute

Summary

Recommendation ITU-T H.248.15 describes a new SDP attribute that allows for the carriage of properties in the local and remote descriptor in the textual ITU-T H.248 encoding.

NOTE – This Recommendation has been renumbered. It was formerly known as Rec. ITU-T H.248 Annex N.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.248.15	2002-03-29	16
2.0	ITU-T H.248.15	2013-03-16	16

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FOREWORD

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NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

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Recommendation ITU-T H.248.15

Gateway control protocol: SDP ITU-T H.248 package attribute

1 Scope

This Recommendation is part of the Gateway Control Protocol family of Recommendations and extends the basic functionality in [ITU-T H.248.1]. This Recommendation describes a new SDP attribute that allows for the carriage of properties in the local and remote descriptor in the textual ITU-T H.248 encoding.

The advantages of this approach are:

– if ITU-T H.248 properties for Local and Remote Descriptor usage are available (due to existing ITU-T H.248 packages from e.g., the ITU-T H.248.x-series of Recommendations), but a correspondent SDP information element is missing, then new SDP attributes do not have to be defined and registered for each property;

– that the property is defined in one place and is applicable to both binary and textual encodings.

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 H.248.1]   Recommendation ITU-T H.248.1 (2013), *Gateway Control Protocol : Version 3*.

[IETF RFC 2327]   IETF RFC 2327 (1998), SDP: *Session Description Protocol*.

3 Definitions

This Recommendation uses the terms defined in [ITU-T H.248.1].

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

SDP   Session Description Protocol

5 Package attribute

The textual encoding of [ITU-T H.248.1] uses SDP (as per [IETF RFC 2327]) to describe the characteristics of media. SDP value attributes provide a means to extend SDP. To enable the carriage of package defined properties in the local and remote descriptors of the text encoded ITU-T H.248.1 protocol, the Package attribute shall be used. The format of the Package attribute is as below:

```
a=h248item:<package name>/<property name> = <value>
```

where:

<package name> is the textual package name defined in the package

<property name> is the textual property name defined in the package

<value> is the textual property value name defined in the package of the type (i.e., boolean, integer, octet string) defined by the package.

For example: Setting *Maximum Jitter Buffer* in the Network Package described in clause E.11.1 of [ITU-T H.248.1].

```
a=h248item:nt/jit = 2000
```

6　IANA considerations

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- Attribute-name: h248item
- Long-form attribute name: H248.1 Package Property Item
- Type of attribute (session level, media level, or both): both
- Attribute value is subject to the charset attribute: no
- Purpose of the attribute:

  This attribute allows for the carriage of ITU-T H.248-series/Megaco-defined properties for local and remote to be carried via SDP.
- Appropriate attribute values:

The format of the Package attribute is as below:

```
a=h248item:<package name>/<property name> = <value>
```

where:

<package name> is the textual package name defined in the package

<property name> is the textual property name defined in the package

<value> is the textual property value name defined in the package of the type (i.e., boolean, integer, octet string) defined by the package.

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