

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS Infrastructure of audiovisual services – Communication procedures

Gateway control protocol: Package for support of multiple profiles

ITU-T Recommendation H.248.18

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AUDIOVISUAL AND MULTIMEDIA SYSTEMS

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ITU-T Recommendation H.248.18

Gateway cont	trol protocol:	Package for	r support of	multiple	profiles
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Summary

This Recommendation describes a package to enable the Media Gateway Controller to determine which Profiles are supported on a Media Gateway. It also allows the MGC to set the profiles that it shall use.

Source

ITU-T Recommendation H.248.18 was prepared by ITU-T Study Group 16 (2001-2004) and approved under the WTSA Resolution 1 procedure on 29 November 2002.

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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ITU-T Recommendation H.248.18

Gateway control protocol: Package for support of multiple profiles

1 Scope

This Recommendation describes a package to enable the Media Gateway Controller to determine what profiles are supported on a Media Gateway. It also allows the MGC to set the profiles that it shall use. The support of this package is optional.

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.248.1 (2002), *Gateway Control Protocol: Version 2*.

3 Definitions

N/A

4 Abbreviations

This Recommendation uses the following abbreviations:

MG Media Gateway

MGC Media Gateway Controller

5 Profile Package

Package Name: Profile Package

PackageID: prp, 0x0050

Description:

This Recommendation describes a package to enable the Media Gateway Controller to determine what profiles are supported on a Media Gateway. Profiles are described in ITU-T Rec. H.248.1. The property in this package shall only be implemented on the root termination

Version: 1

Designed to be extended only: No

Extends: None

5.1 Properties

5.1.1 Profiles supported

Property Name: Profiles Supported
PropertyID: Prof supp, 0x0001

Description:

This property indicates the profile/s and versions supported by the Media Gateway. This property is for the root termination.

Type: sub-list of string

(Length 1 - 67 characters - 64 for name, 1 for "/" and 2 for version)

Possible Values:

As per profile the name and version registered with IANA.

The Name shall be encoded first followed by a slash "/" following by a string encoding of the version number. e.g. fred/1

NOTE – The name "AuditProfiles" is reserved for the MG to indicate to the MGC via a ServiceChange that it should audit the MG.

The value "AuditProfiles" shall not be returned when this property is audited.

The name "NoProfile" is reserved to indicate that the MG or MGC does not support any profiles.

Defined in: Termination State Descriptor

Characteristics: Read/Write

5.2 Events

N/A

5.3 Signals

N/A

5.4 Statistics

N/A

5.5 Procedures

If the MG wants to inform the MGC that it supports multiple profiles, it shall indicate this with ServiceChange Profile = "AuditProfiles". It may indicate this in an initial ServiceChange or at any time after this.

Once the MGC receives ServiceChange Profile = "AuditProfiles" the MGC should do an Audit Capabilities command on the "Prof_supp" property of the Root termination. The MG shall then return all profiles that can be supported by that MG.

Figure 1 presents an example signalling sequence:

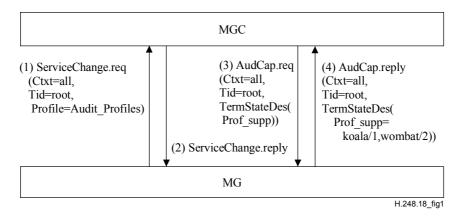


Figure 1/H.248.18 – Example profile determination sequence

The MGC may set the Prof_supp property using a Modify command to indicate the profile/s that it will use on the MG. The MGC shall use one or more of the profiles that the MG indicated in an AuditCapability of the Prof_supp property. If the MGC tries to set the Prof_supp property on the MG to a profile value that is unknown by the MG, at the first unknown profile the MG shall reply with error code 459 "Unsupported or Unknown Profile". If the Prof_supp property is not set by the MGC then it shall be assumed that the MGC supports all the profiles supported by MG and that the MGC can use functionalities/capabilities of any of the profiles.

NOTE – This aligns with the ServiceChange procedure where by the MGC may indicate which profile it supports.

An Audit value command may be used to determine the profile/s that have been set.

5.6 Error Codes

This package defines a new error code:

#: 459 Name: Unsupported or Unknown Profile

Definition:

The Profile Name is not supported by the receiver. The command related to the unknown profile is disregarded.

Package: Profile Package prp, 0x0050

Reference: H.248.18

Error Text in the error Descriptor:

The Profile Name is included in the error text in the error descriptor. String Length 1 - 67 characters -64 for name, 1 for "/" and 2 for version.

Comment: -

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