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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Communication procedures

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Gateway control protocol: Package for support of multiple profiles

Recommendation ITU-T H.248.18

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Recommendation ITU-T H.248.18

Gateway control protocol: Package for support of multiple profiles

Summary

Recommendation ITU-T H.248.18 describes a package to enable the media gateway controller (MGC) to determine which profiles are supported on a media gateway. It also allows the MGC to set the profiles that it shall use.

This revision incorporates a correction to the error code number for "Unsupported or Unknown Profile" to avoid duplication with Recommendation ITU-T H.248.26.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.248.18	2002-11-29	16
2.0	ITU-T H.248.18	2013-03-16	16

FOREWORD

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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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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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Recommendation ITU-T 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 (MGC) 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 H.248.1] Recommendation ITU-T H.248.1 (2013), *Gateway control protocol: Version 3*.

3 Definitions

None.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

MG Media Gateway

MGC Media Gateway Controller

5 Profile Package

Package name:	Profile Package
Package ID:	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 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

Property ID: 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:

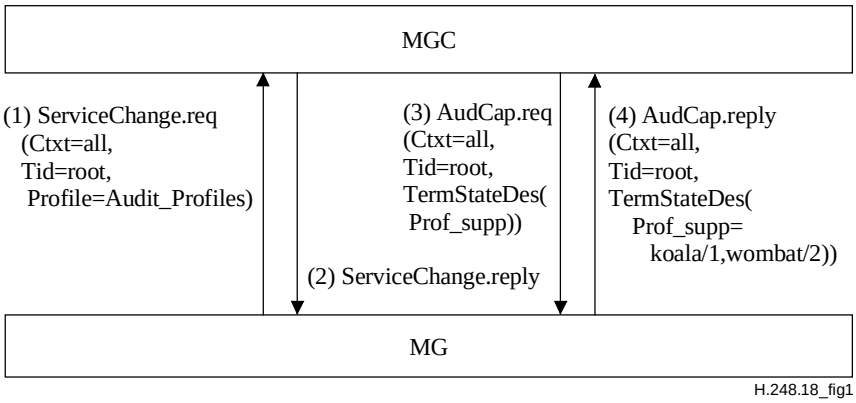

Figure 1 – Example profile determination sequence

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 461 "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:

#:461 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 to 67 characters – 64 for name, 1 for "/" and 2 for version.
Comment:	–

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