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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Gateway control protocol: Common ITU-T H.248 terminology – Release 1

ITU-T H-series Recommendations – Supplement 13

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Supplement 13 to ITU-T H-series Recommendations

Gateway control protocol:
Common ITU-T H.248 terminology – Release 1

Summary

Supplement 13 to the ITU-T H-series Recommendations provides a repository for ITU-T H.248 related terms that concern multiple ITU-T H.248.x Recommendations, Supplements or the entire ITU-T H.248.x-series. This Supplement is a living document.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T H Suppl. 13	2014-07-11	16	11.1002/1000/12308

Keywords

Gateway Control Protocol, ITU-T H.248.

* To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

FOREWORD

The International Telecommunication Union (ITU) is the United Nations specialized agency in the field of telecommunications, information and communication technologies (ICTs). The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of ITU. ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

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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Introduction

All ITU-T Recommendations relating to the ITU-T defined gateway control protocol (GCP) are published within the ITU-T H.248.x-series of Recommendations. The core protocol itself is defined by [ITU-T H.248.1]. Protocol extensions (in the form of so called ITU-T H.248 packages) and other material (such as profile guidelines) are the subject of self-contained Recommendations within the ITU-T H.248.x-series [ITU-T H.248.x].

Basically, all of these GCP-related Recommendations (plus some Supplements) share the same terminology. The set of GCP terms were historically divided in two classes: general GCP terms and package specific GCP terms. The general terms with global GCP scope are the subject of the core protocol specification [ITU-T H.248.1], whereas package specific terms are typically located in the related ITU-T H.248.x-series Recommendations, see Figure 1.

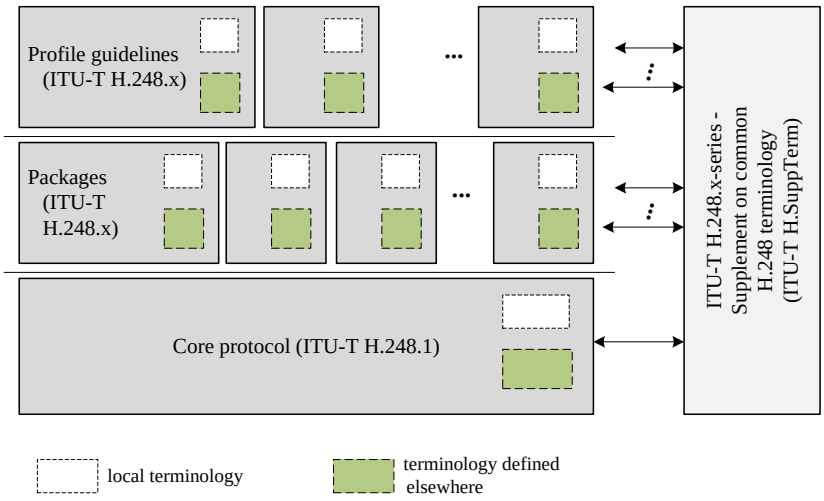

Figure 1 – Positioning of ITU-T H.Sup.13 versus ITU-T H.248.x-series of Recommendations

When defining terms there are two basic issues:

1) the terms may affect multiple ITU-T H.248 documents, but not the entire series, leading to the question of the appropriate place for such terminology; and
2) the addition of new, global ITU-T H.248 terms would imply a revision of [ITU-T H.248.1], which may not be desirable for a single term.

This Supplement acts as a repository for such GCP related terminology to alleviate the above issues.

Supplement 13 to ITU-T H-series Recommendations

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1 Scope

Within the scope of this Supplement are GCP related terms that relate to multiple ITU-T H.248 documents.

Outside the scope of this Supplement are:

– terms not related to ITU-T H.248 technology,

– terms which affect a single ITU-T H.248.x Recommendation.

2 References

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

[ITU-T H.248.x] ITU-T H.248.x-series of Recommendations, *Gateway Control Protocol.*

3 Definitions

3.1 Terms defined elsewhere

In addition to the basic GCP terms defined by clause 3.2 of [ITU-T H.248.1], this Supplement does not use terms defined elsewhere.

3.2 Terms defined in this Supplement

NOTE – The terms in this clause are tabulated in order to maintain the usual alphabetical order when adding additional terms in future releases of this Supplement.

This Supplement defines the terms listed in Table 1.

Table 1 – Terms defined in this Supplement

Term	Definition
ITU-T H.248 master-slave control relationship	The ITU-T H.248 decomposed gateway follows a hierarchical control model in the network control plane (primarily related to call service control and media/bearer control functions). The control hierarchy constitutes a master-slave relationship, with the MGC as master and the MG as the slave entity. NOTE – [b-ITU-T Q.Sup31] and [b-ITU-T Q.Sup32] Annexes C.2 or C.3 provide examples of functional-to-physical mapping models according to the ITU-T H.248 master-slave control relationship.
MG autonomous mode	For a particular function, the MGC delegates some (but not all) service specific control decisions down to the MG level. The MG provides a local decision function. The MG autonomous control is limited to decisions with MG available information only.
MGC-strictly controlled mode	For a particular function, the control decisions are exclusively under MGC responsibility, the MG degenerates to a pure execution unit.

Table 1 – Terms defined in this Supplement

Term	Definition
stream endpoint tuple (SEPT)	The generalization of a stream endpoint pair (SEPP) towards multiple associated stream endpoints (SEPs) within the same Context. All SEPs share the same *StreamID* value. The stream topology is given by the topology descriptor settings.

4 Abbreviations and acronyms

This Supplement uses the following abbreviations and acronyms:

GCP Gateway Control Protocol

MG Media Gateway

MGC Media Gateway Controller

SEP Stream Endpoint

SEPP Stream Endpoint Pair

SEPT Stream Endpoint Tuple

5 Conventions

None.

6 Handling of new terms

A new ITU-T H.248.x-Recommendation under development identifies new terminology. Such terms are normally the subject of clause 3.2 "Definitions" according to the Recommendation template. When defining new terms, it has to be decided whether a new term is only limited to the Recommendation itself, or whether multiple Recommendations could benefit from the new term. Where the term may benefit multiple Recommendations the term should be added to this Supplement. The new ITU-T H.248.x-Recommendation may then refer to these terms within clause 3.1 "Terms defined elsewhere".

Bibliography

[b-ITU-T Q.Sup31] Supplement 31 to the ITU-T Q-series of Recommendations (2000), *Technical Report TRQ.2141.0: Signalling requirements for the support of narrow-band services over broadband transport technologies – Capability set 2 (CS-2).*

[b-ITU-T Q.Sup32] Supplement 32 to the ITU-T Q-series of Recommendations (2002), *Technical Report TRQ.2141.1: Signalling requirements for the support of narrowband services via broadband transport technologies – CS-2 signalling flows*.

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