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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

Infrastructure of audiovisual services – Communication
procedures

Gateway control protocol: User interface elements and actions packages

Recommendation ITU-T H.248.3



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Recommendation ITU-T H.248.3

Gateway control protocol: User interface elements and actions packages

Summary

The packages in Recommendation ITU-T H.248.3 define a framework for specifying capabilities associated with user interface elements, such as text display, keys, dynamically labelled keys, indicators and alphanumeric input. In addition, specific extension packages for telephone keypads and telephone function keys are defined.

This Revision incorporates corrections to the Set Indicator signal "State" and "Indicator description" parameters.

NOTE – This Recommendation has been renumbered. It was previously known as Recommendation ITU-T H.248, Annex G.

History

Edition	Recommendation	Approval	Study Group
1.0	ITU-T H.248 Annex G	2000-11-17	16
1.0	ITU-T H.248.3	2000-11-17	16
1.2	ITU-T H.248.3 (2000) Cor. 1	2004-03-15	16
2.0	ITU-T H.248.3	2013-03-16	16

FOREWORD

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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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Recommendation ITU-T H.248.3

Gateway control protocol: User interface elements and actions packages

1 Scope

This Recommendation defines a package that extends the applicability of the ITU-T H.248.1 Gateway control protocol. Specifically, the packages in Recommendation ITU-T H.248.3 define a framework for specifying capabilities associated with user interface elements, such as text display, keys, dynamically labelled keys, indicators and alphanumeric input. In addition, specific extension packages for telephone keypads and telephone function keys are defined.

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*.

[ISO/IEC 10646] ISO/IEC 10646:2012, *Information technology – Universal Coded Character Set (UCS) and its Amendment 1* (2013).

3 Display Package

Package name: Display Package

Package ID: dis (0x0014)

Version: 1

Extends: None.

Description: This package defines properties and signals associated with text display user interface elements. See Procedures for details of operation.

3.1 Properties

3.1.1 Number of rows

Property name: Number of rows

Property ID: nrows (0x0001)

Description: Maximum number of rows on the display.

Type: integer

Possible values: Zero upwards

Default: None

Defined in: TerminationState.

Characteristics: ReadOnly.

3.1.2 Number of columns

Property name:	Number of columns
Property ID:	ncols (0x0002)
Description:	Maximum number of columns on the display.
Type:	integer
Possible values:	Zero upwards
Default:	None
Defined in:	TerminationState
Characteristics:	ReadOnly

3.1.3 Supported unicode code pages

Property name:	Supported unicode code pages
Property ID:	cdpgs (0x0003)
Description:	A list of supported unicode pages.
Type:	list of enumerated type
Possible values:	See example below
Default:	None
Defined in:	TerminationState
Characteristics:	ReadOnly.
Example:	If the text display element supports U+2500 → U+25ff, U+2600 → U+26ff and U+2700 → U+277f, this property would return "250, 258, 260, 268, 270" in cdpgs. Unicode page U+0000 → U+00ff shall be supported in all implementations.

3.1.4 Cursor row position

Property name:	Cursor row position
Property ID:	cr (0x0004)
Description:	This property indicates the row position of the cursor.
Type:	integer
Possible values:	0 upwards
Default:	None
Defined in:	TerminationState
Characteristics:	Read/Write

3.1.5 Cursor column position

Property name:	Cursor column position
Property ID:	cc (0x0005)
Description:	This property indicates the column position of the cursor.
Type:	integer