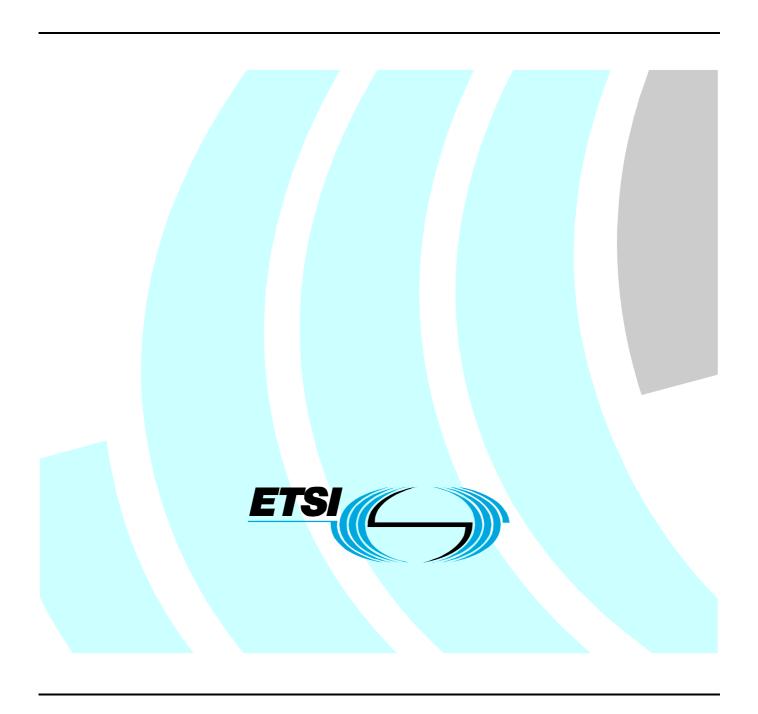
Final draft ETSI ES 283 049 V2.0.2 (2007-12)

ETSI Standard

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); H.248 Profile for controlling Trunking Media Gateways (TMG)

[Endorsement of 3GPP TS 29.332 (V7.7.0), modified]



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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN), and is now submitted for the ETSI standards Membership Approval Procedure.

1 Scope

The present document provides the ETSI TISPAN endorsement of the 3GPP TS 29.332 "3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Media Gateway Control Function (MGCF) - IM Media Gateway; Mn Interface (Release 7)".

The present document provides the necessary adaptations to the above specification, in order comply with the requirements of TISPAN NGN Release 2.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
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 - for informative references.

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NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

[1] 3GPP TS 29.332 (V7.7.0): "3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Media Gateway Control Function (MGCF) - IM Media Gateway; Mn Interface (Release 7)".

Endorsement notice

The present document endorses 3GPP TS 29.332 "Media Gateway Control Function (MGCF) - IM Media Gateway; Mn Interface (Release 7) [1], the contents of which apply together with the addition of the modifications being covered herein.

Global modifications to 3GPP TS 29.332

NOTE: When making modifications to the endorsed document's [1] original text, strikethrough text means deleted text and underlined text means inserted text. If there has been underlined text in the endorsed document's [1] original text, the underlining has been removed for the sake of clarity.

Throughout the text of 3GPP TS 29.332

2 References

The references in clause 2 of [1] should be replaced as shown in table 1.

Table 1

	Reference in 3GPP TS 29.332 [1]	Replaced reference
[1]	3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".	ETSI TS 182 006: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Stage 2 description (3GPP TS 23.228 v7.2.0, modified)".
[2]	3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".	ETSI TS 129 007: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (3GPP TS 29.007 Release 7)".
[3]	3GPP TS 29.205: "Application of Q.1900 series to Bearer Independent CS Network architecture; Stage 3".	ETSI TS 129 205: "Universal Mobile Telecommunications System (UMTS); Application of Q.1900 series to bearer-independent Circuit Switched (CS) core network architecture; Stage 3 (3GPP TS 29.205 Release 7)".
[4]	3GPP TS 29.163: "Interworking between the IM CN subsystem and CS networks – Stage 3".	ETSI TS 129 163: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 Release 7)".
[5]	3GPP TS 29.232: "Media Gateway Controller (MGC); Media Gateway (MGW) interface; Stage 3".	ETSI TS 129 232: "Universal Mobile Telecommunications System (UMTS); Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3 (3GPP TS 29.232 Release 7)".
[6]	3GPP TS 26.226: "Cellular Text Telephone Modem; General Description".	ETSI TS 126 226: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Cellular text telephone modem; General description (3GPP TS 26.226 Release 7)".
[7]	3GPP TS 26.103: "Speech codec list for GSM and UMTS".	ETSI TS 126 103: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Speech codec list for GSM and UMTS (3GPP TS 26.103 Release 7)".
[8]	3GPP TS 29.202: "Application of Q.1900 series to Bearer Independent CS Network architecture; Stage 3".	ETSI TS 129 202: "Universal Mobile Telecommunications System (UMTS); Signalling System No. 7 (SS7) signalling transport in core network; Stage 3 (3GPP TS 29.202 Release 7)".
[18]	IETF RFC 2833: "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".	IETF RFC 4733: "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals" (note 2).

	Reference in 3GPP TS 29.332 [1]	Replaced reference	
[20]	3GPP TS 26.236: "Packet switched conversational	ETSI TS 126 236: "Universal Mobile Telecommunications	
	multimedia applications; Transport protocols".	System (UMTS); Packet switched conversational	
		multimedia applications; Transport protocols	
		(3GPP TS 26.236 Release 7)".	
[21]	3GPP TS 29.415: "Core Network Nb Interface User	ETSI TS 129 415: "Universal Mobile Telecommunications	
	Plane Protocols".	System (UMTS); Core network Nb interface user plane	
		protocols (3GPP TS 29.415 Release 7)".	
[22]	3GPP TS 23.153: "Out of band transcoder control".	ETSI TS 123 153: "Universal Mobile Telecommunications	
		System (UMTS); Out of band transcoder control; Stage 2	
		(3GPP TS 23.153 Release 7)".	
[25]	3GPP TS 29.202: "SS7 Signalling Transport in Core	ETSI TS 129 202: "Universal Mobile Telecommunications	
	Network".	System (UMTS); Signalling System No. 7 (SS7) signalling	
		transport in core network; Stage 3	
		(3GPP TS 29.202 Release 7)".	
[40]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".	ETSI TR 121 905: "Digital cellular telecommunications	
		system (Phase 2+); Universal Mobile Telecommunications	
		System (UMTS); Vocabulary for 3GPP Specifications	
		(3GPP TR 21.905 Release 7)".	
NOTE	NOTE 1: The reference in [1] is replaced by the document listed on the right column. This replacement is applicable to all		
occurrences of the reference throughout the present endorsement.			
NOTE	NOTE 2: RFC 4733 obsoletes RFC 2833 in general. The functionality of RFC 2833 was partitioned into multiple separate		

NOTE 2: RFC 4733 obsoletes RFC 2833 in general. The functionality of RFC 2833 was partitioned into multiple separate RFCs: there is RFC 4734 "Definition of Events for Modem, Fax, and Text Telephony Signals" and IETF draftietf-avt-rfc2833biscas "Definition of Events For Channel-Oriented Telephony Signalling" besides RFC 4733, but only RFC 4733 is required for the present document.

17 Transactions towards BICC

For the purpose of the present document clause 17 of [1] is not applicable.

Annex A (Normative): Profile Description

A.3 Gateway Control Protocol Version

For the purpose of the present document the text of clause A.3 of [1] is replaced by the modified text as shown below.

The Profile conforms to the Profile Template as specified in ITU-T Recommendation H.248.1 Version 3 Appendix III. The value ALL specified in the template is according to ITU-T Recommendation H.248.1 Version 2 [9].

A.5 Context Attributes

For the purpose of the present document the text of clause A.5 of [1] is replaced by the modified text as shown below.

Table A.5: Context attributes

Context Attribute	Supported	Values Supported
Topology	Optional	All
Priority Indicator	Yes	0-15
Emergency Indicator	Yes	Not Applicable
AND/OR Context Attribute	<u>No</u>	Not applicable

NOTE_1: The "Topology" attribute is optional for example support of monitoring. If requested and not supported error code 444 shall be returned.

NOTE 2: AND/OR Context Attribute is for ITU-T Recommendation H.248.1 Version 3 only, so it does not apply to ETSI TISPAN Profile but the entry is kept to maintain the template layout.

A.7.9 Error Descriptor

For the purpose of the present document clause A.7.9 is replaced by the modified clause as shown below.

Table A.7.9/1: Error Codes Sent by MGCF

Supported H.248.8 Error Codes:	FFS < list of individual numbers>
Supported Error Codes defined in packages: All error codes defined in supported package	
	supported.

Table A.7.9/2: Error Codes Sent by MGW:

Supported H.248.8 Error Codes:	FFS< list of individual numbers> ALL with exception of:
	#460 "Unable to set statistic on stream"
	#518 "Event buffer full"-
	#519 "Out of space to store digit map".
	#520 "Digit Map undefined in the MG"
Supported Error Codes defined in packages:	All error codes defined in supported packages shall be
	supported.

A.10 Transactions

For the purpose of the present document the text of clause A.10 of [1] is replaced by the modified text as shown below.

Table A.10/1: Transactions per Message

Maximum number of TransactionRequests /	2(NOTE 1)
TransactionReplies / TransResponseAcks / Segment	10(NOTE 2)
Replies per message:	, , ,
NOTE 1:Maximum required by TISPAN NGN R2	
NOTE 2:Maximum required by 3GPP	

Table A.10/2: Commands per Transaction Requests

Maximum number of commands per Transaction	2_(NOTE_1)	
request:	Unspecified(NOTE 2)	
NOTE_1: Maximum required by TISPAN NGN R2		
NOTE_2: Maximum required by 3GPP		

Table A.10/3: Commands per Transaction Reply

Maximum number of commands per Transaction reply:	2 (NOTE_1)
	Unspecified (NOTE 2)
NOTE_1: Maximum required by TISPAN NGN R2	
NOTE 2:Not specified by 3GPP	

Table A.10/4: Optional Commands

Commands able to be marked "Optional":	AuditValue

Table A.10/5: Transaction Timers

Transaction Timer:	Value
normalMGExecutionTime	Provisioned, changeable with Base Root Package (clause A.14.2)
normalMGCExecutionTime	Provisioned, changeable with Base Root Package (clause A.14.2)
MGOriginatedPendingLimit	Provisioned, changeable with Base Root Package (clause A.14.2)
MGCOriginatedPendingLimit	Provisioned, changeable with Base Root Package
MGProvisionalResponseTimerValue	(clause A.14.2) Provisioned, changeable with Base Root Package
MGCProvisionalResponseTimerValue	(clause A.14.2) Provisioned, changeable with Base Root Package
	(clause A.14.2)

A.14 Packages

For the purpose of the present document the text of clauses A.14.3, A.14.4, A.14.9, A.14.10, A.14.12, A.14.14, A.14.15, A.14.16, A.14.17, A.14.18, A.14.19, A.14.20 is not applicable.

Annex ZA (informative): Comparison with ES 283 024 (H.248 TGW Profile for TISPAN R1)

Table ZA.1 provides an overview of the differences between the present document and ETSI ES 283 024 (V1.1.4) (TGW R1).

Table ZA.1: Differences between the present document and ES 283 024

Topic	ES 283 049 (TGW R2)	ES 283 024 (TGW R1)
X.1 Profile name	threegimscsiw	etsi_tgw
-version	2	1
X.8.4 Move Command	Optional	Not required
X.8.8 ServiceChange	900-910, 913-917	900-908, 910-917
reasons sent by MGW		
X.8.9 Context Attributes	Topology (Optional), Emergency,	Topology (Optional)
Manipulated:	Priority	
Packages		
Generic Package v1	Mandatory	Optional
	Events: Cause, Signal Completion	Events: Signal Completion
	Signal Completion used in commands ADD, MOD, MOVE, NOTIFY	Signal Completion used in command NOTIFY
TDM Circuit Package v1	Mandatory	Mandatory
cc	Echo Cancellation used in commands	Echo Cancellation used in commands
	ADD, MOD, MOVE	ADD, MOD
	Echo Cancellation provisioned Value:	Echo Cancellation provisioned Value:
	Default= Off (False)	· ·
Basic Continuity Package	Mandatory	Mandatory
v1	Continuity Test used in commands	Continuity Test used in commands
	ADD, MOD, MOVE	ADD, MOD
	Completion used in commands	Completion used in command
	ADD, MOD, MOVE, NOTIFY	NOTIFY
Call Progress Tones	Optional	Optional
Generator Package v1	Tones used in commands:	Tones used in command:
	ADD, MOD, MOVE	MOD
Generic Announcement	Optional	Optional
Package v1	Mandatory Signal Parameters:	Mandatory Signal Parameters:
	Announcement name	Announcement name
	Number Of Cycles	
	Announcement Direction	
RTP Package v1	Optional	Optional
	Events	Events
	Payload Transition	None

History

Document history			
V2.0.2	December 2007	Membership Approval Procedure	MV 20080215: 2007-12-18 to 2008-02-15