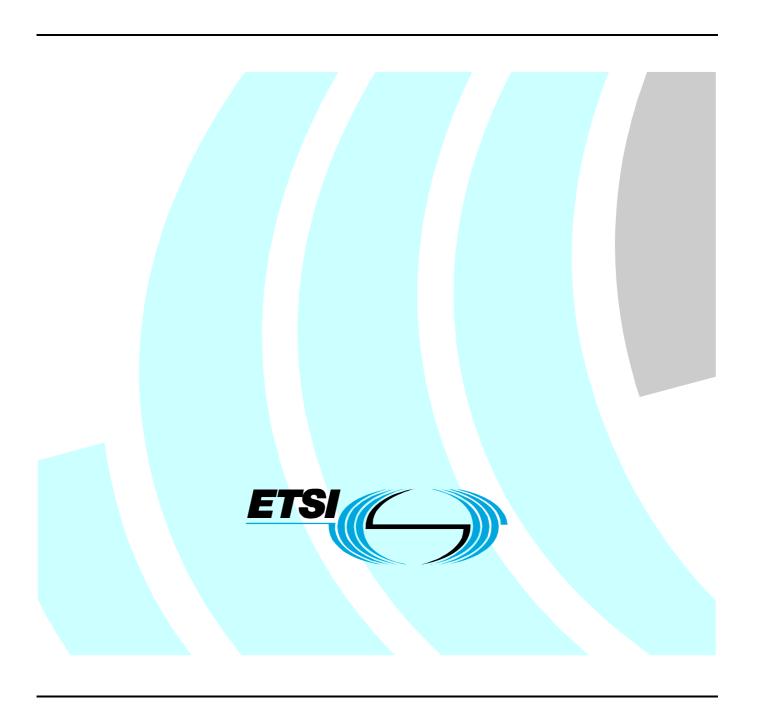
ETSI ES 283 049 V2.0.2 (2008-02)

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]



Reference DES/TISPAN-03077-NGN-R2

Keywords endorsement, gateway, H.248, trunking

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from: <u>http://www.etsi.org</u>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

http://portal.etsi.org/tb/status/status.asp

Copyright Notification

No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2008. All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM, **TIPHON**TM, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP[™] is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intel	lectual Property Rights	_
	word	
	Scope	
	References	
2.1	Normative references	5
2.2	Informative references	5
End	orsement notice	6
Gloł	pal modifications to 3GPP TS 29.332	<i>6</i>
Ann	ex ZA (informative): Comparison with ES 283 024 (H.248 TGW Profile for TISPAN R1)	10
Hist	ory	11

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

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 to 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:
 - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
 - for informative references.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

For online referenced documents, information sufficient to identify and locate the source shall be provided. Preferably, the primary source of the referenced document should be cited, in order to ensure traceability. Furthermore, the reference should, as far as possible, remain valid for the expected life of the document. The reference shall include the method of access to the referenced document and the full network address, with the same punctuation and use of upper case and lower case letters.

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)".

2.2 Informative references

None.

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]		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

Supported	Values Supported
Optional	All
Yes	0-15
Yes	Not Applicable
<u>No</u>	Not applicable
	Optional Yes Yes

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 packages shall be
	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 / TransactionReplies / TransResponseAcks / Segment	2(NOTE 1) 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

|--|

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
	<u>(clause A.14.2)</u>
MGOriginatedPendingLimit	Provisioned, changeable with Base Root Package
	(clause A.14.2)
MGCOriginatedPendingLimit	Provisioned, changeable with Base Root Package
	<u>(clause A.14.2)</u>
MGProvisionalResponseTimerValue	Provisioned, changeable with Base Root Package
	<u>(clause A.14.2)</u>
MGCProvisionalResponseTimerValue	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 reasons sent by MGW	900-910, 913-917	900-908, 910-917
X.8.9 Context Attributes Manipulated:	Topology (Optional), Emergency, Priority	Topology (Optional)
Packages		
Generic Package v1	Mandatory Events: Cause, Signal Completion Signal Completion used in commands ADD, MOD, MOVE, NOTIFY	Optional Events: Signal Completion Signal Completion used in command NOTIFY
TDM Circuit Package v1	Mandatory Echo Cancellation used in commands ADD, MOD, MOVE Echo Cancellation provisioned Value: Default= Off (False)	Mandatory Echo Cancellation used in commands ADD, MOD Echo Cancellation provisioned Value: -
Basic Continuity Package v1	Mandatory Continuity Test used in commands ADD, MOD, MOVE Completion used in commands ADD, MOD, MOVE, NOTIFY	Mandatory Continuity Test used in commands ADD, MOD Completion used in command NOTIFY
Call Progress Tones Generator Package v1	Optional Tones used in commands: ADD, MOD, MOVE	Optional Tones used in command: MOD
Generic Announcement Package v1	Optional Mandatory Signal Parameters: Announcement name Number Of Cycles Announcement Direction	Optional Mandatory Signal Parameters: Announcement name
RTP Package v1	Optional Events Payload Transition	Optional Events None

History

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