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**Universal Mobile Telecommunications System (UMTS);
LTE;
Transparent end-to-end Packet-switched
Streaming Service (PSS);
Protocols and codecs
(3GPP TS 26.234 version 13.2.1 Release 13)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	9
Introduction	9
1 Scope	10
2 References	10
3 Definitions and abbreviations.....	15
3.1 Definitions	15
3.2 Abbreviations	15
4 System description	17
5 Protocols.....	19
5.1 Session establishment.....	19
5.2 Capability exchange	19
5.2.1 General.....	19
5.2.2 The device capability profile structure.....	19
5.2.3 Vocabularies for PSS	20
5.2.3.1 General	20
5.2.3.2 PSS base vocabulary	20
5.2.3.2.1 PssCommon component	20
5.2.3.2.2 Streaming component.....	22
5.2.3.2.3 ThreeGPPFileFormat component	29
5.2.3.2.4 Void.....	32
5.2.3.3 Attributes from UAProf	32
5.2.4 Extensions to the PSS schema/vocabulary.....	33
5.2.4.1 Vocabulary definitions	33
5.2.4.2 Backward compatibility	34
5.2.5 Signalling of profile information between client and server.....	34
5.2.6 Merging device capability profiles	34
5.2.7 Profile transfer between the PSS server and the device profile server.....	35
5.3 Session set-up and control	35
5.3.1 General.....	35
5.3.2 RTSP.....	35
5.3.2.1 The 3GPP-Link-Char header.....	36
5.3.2.2 The 3GPP-Adaptation header.....	37
5.3.2.3 The Quality of Experience headers	37
5.3.2.3.1 Protocol initiation and termination	37
5.3.2.3.2 Metrics feedback	39
5.3.2.3.3 Metrics feedback over HTTP	40
5.3.2.3.3.0 Requirements and semantics.....	40
5.3.2.3.3.1 XML Syntax for a QoE Report.....	40
5.3.2.3.3.2 Example XML for the QoE Report.....	41
5.3.2.4 Video buffering headers	42
5.3.3 SDP.....	42
5.3.3.1 General	42
5.3.3.2 Additional SDP fields	43
5.3.3.3 The 'alt' and 'alt-default-id' attributes	46
5.3.3.4 The session level grouping attribute, 'alt-group'.....	47
5.3.3.5 The bit-rate adaptation support attribute, '3GPP-Adaptation-Support'.....	47
5.3.3.6 The Quality of Experience support attribute, "3GPP-QoE-Metrics"	48
5.3.3.7 The asset information attribute, "3GPP-Asset-Information"	48

5.3.3.8	OMA-DM Configuration of QoE Metrics.....	49
5.3.3.8.0	General	49
5.3.3.8.1	QoE metrics reporting management object	49
5.3.3.8.2	QoE reporting rule definition	54
5.4	MIME media types	54
5.5	Extension for Fast Content Switching and Start-up	56
5.5.1	Introduction.....	56
5.5.2	Extensions to RTSP 1.0	56
5.5.2.1	Introduction	56
5.5.2.2	Capability Handling	56
5.5.2.2.1	Introduction	56
5.5.2.2.2	Definition of the 'Supported' RTSP Header Field.....	56
5.5.2.3	SSRC in the 'RTP-Info' RTSP Header Field	57
5.5.2.4	Semantics of RTSP PLAY method	58
5.5.3	Start-up	58
5.5.4	Fast Content Switching	58
5.5.4.1	Introduction.....	58
5.5.4.2	'Switch-Stream' RTSP Header Field	58
5.5.4.3	Switching to new content with available SDP	59
5.5.4.4	Switching to new content without SDP.....	60
5.5.4.5	Switching Media described in one SDP.....	60
5.5.4.6	Adding Media Components to an ongoing session	61
5.5.4.7	Removing Media Components from an ongoing session.....	61
5.6	Extension for Time-Shifting Support	61
5.6.1	Introduction.....	61
5.6.2	General Description	62
5.6.2a	Extensions to RTSP 1.0	62
5.6.3	Accept-Ranges	62
5.6.4	Signalling Time Shifting Ranges	63
5.6.5	Timeshift buffer status updates	64
5.7	Support for Trick Mode Operations.....	64
5.8	Session Update.....	65
6	Data transport	66
6.1	Packet based network interface	66
6.2	RTP over UDP/IP	66
6.2.1	General.....	66
6.2.2	RTP profiles.....	67
6.2.3	RTP and RTCP extensions	67
6.2.3.1	RTCP extended reports	67
6.2.3.2	RTCP App packet for client buffer feedback (NADU APP packet)	67
6.2.3.3	RTP retransmission	69
6.2.3.3.1	General	69
6.2.3.3.2	Multiplexing scheme	69
6.2.3.3.3	RTCP retransmission request	69
6.2.3.3.4	Congestion control and usage with rate adaptation	69
6.2.4	RTP payload formats	69
6.2.5	Coordination of Video Orientation	70
6.3	HTTP over TCP/IP	70
6.4	Transport of RTSP.....	71
7	Codecs	71
7.1	General	71
7.2	Speech	71
7.3	Audio.....	71
7.3a	Synthetic audio	72
7.4	Video.....	72
7.4.1	General video decoder requirements.....	72
7.4.2	Output timing and buffer model	73
7.4.3	Television services.....	73
7.4.4	Stereoscopic 3D Video	73
7.5	Still images.....	74

7.6	Bitmap graphics.....	74
7.7	Vector graphics	74
7.8	Text	75
7.9	Timed text	75
7.10	3GPP file format.....	75
7.11	Timed graphics	75
8	Scene description.....	75
8.1	General	75
8.2	Void.....	76
8.3	Void.....	76
9	3GPP file format (interchange format for MMS).....	76
10	Adaptation of continuous media.....	76
10.1	General	76
10.2	Bit-rate adaptation	76
10.2.1	Link-rate estimation.....	76
10.2.1.1	Initial values	76
10.2.1.2	Regular information sources	77
10.2.2	Transmission adaptation	77
10.2.3	Signalling for client buffer feedback	77
10.3	Issues with deriving adaptation information (informative)	78
11	Quality of Experience.....	80
11.1	General	80
11.2	QoE metrics.....	80
11.2.0	General.....	80
11.2.1	Corruption duration metric	80
11.2.1.1	Default reporting format	80
11.2.1.2	XML reporting format.....	81
11.2.2	Rebuffering duration metric.....	81
11.2.2.1	Default reporting format	81
11.2.2.2	XML reporting format.....	82
11.2.3	Initial buffering duration metric.....	82
11.2.3.1	Default reporting format	82
11.2.3.2	XML reporting format.....	82
11.2.4	Successive loss of RTP packets	82
11.2.4.1	Default reporting format	82
11.2.4.2	XML reporting format.....	83
11.2.5	Frame rate deviation	83
11.2.5.1	Default reporting format	83
11.2.5.2	XML reporting format.....	83
11.2.6	Jitter duration.....	83
11.2.6.1	Default reporting format	83
11.2.6.2	XML reporting format.....	84
11.2.7	Content Switch Time	84
11.2.7.1	Default reporting format	84
11.2.7.2	XML reporting format.....	84
11.2.8	Average Codec Bitrate.....	84
11.2.8.1	Default reporting format	84
11.2.8.2	XML reporting format.....	85
11.2.9	Codec Information	85
11.2.9.1	Default reporting format	85
11.2.9.2	XML reporting format.....	85
11.2.10	Buffer Status	85
11.2.10.1	Default reporting format	85
11.2.10.2	XML reporting format.....	86
11.3	The QoE protocol for RTSP based reporting	86
11.3.1	General.....	86
11.3.2	Metrics initiation with SDP	87
11.3.3	Metrics initiation/termination with RTSP.....	88
11.3.4	Sending the metrics feedback with RTSP.....	91

12	Adaptive HTTP Streaming	92
13	Networked bookmark service	92
13.1	Introduction	92
13.2	Bookmarking using HTTP	92
13.2.1	Bookmark storage	92
13.2.2	Bookmark retrieval	93
13.2.3	Bookmark deletion	93
13.3	Bookmarking using RTSP	93
Annex A (informative): Protocols		94
A.1	SDP	94
A.2	RTSP	101
A.2.1	General	101
A.2.2	Implementation guidelines	106
A.2.2.1	Usage of persistent TCP	106
A.2.2.2	Detecting link aliveness	107
A.3	RTP	107
A.3.1	General	107
A.3.2	Implementation guidelines	107
A.3.2.1	Maximum RTP packet size	107
A.3.2.2	Sequence number and timestamp in the presence of NPT jump	108
A.3.2.3	RTCP transmission interval	108
A.3.2.4	Timestamp handling after PAUSE/PLAY requests	109
A.3.3	Examples of RTCP APP packets for client buffer feedback	110
A.4	Capability exchange	111
A.4.1	Overview	111
A.4.2	Scope of the specification	113
A.4.3	The device capability profile structure	114
A.4.4	CC/PP Vocabularies	115
A.4.5	Principles of extending a schema/vocabulary	116
A.4.6	Signalling of profile information between client and server	116
A.4.7	Example of a PSS device capability description	117
Annex B (informative): SMIL authoring guidelines		119
Annex C (normative): MIME media types		120
C.1	(void)	120
C.2	MIME media type sp-midi	120
C.3	MIME media type mobile-xmf	120
C.4	(void)	121
Annex D (normative): 3GP files – codecs and identification		122
Annex E (normative): RTP payload format and file storage format for AMR and AMR-WB audio		123
Annex F (normative): RDF schema for the PSS base vocabulary		124
Annex G (normative): Buffering of video		136
G.1	Introduction	136
G.2	PSS Buffering Parameters	136
G.3	PSS server buffering verifier	137
G.4	PSS client buffering requirements	138

Annex H (informative):	Content creator guidelines for the synthetic audio medium type.....	139
Annex I (informative):	Void	140
Annex J (informative):	Mapping of SDP parameters to UMTS QoS parameters.....	141
Annex K (normative):	Void (Substituted by Annex R).....	142
Annex L (informative):	SVG Tiny 1.2 content creation guidelines.....	143
L.1	Feature analysis	143
L.2	Recommendations	144
L.2.1	General	144
L.2.2	Video element	145
L.2.2.1	Inclusion of the video element in SVG content	145
L.2.2.2	Transformation of video	145
L.2.3	Animation Element.....	145
L.2.4	Void.....	146
L.2.5	Transparency, stroking and gradients.....	146
L.2.6	Events	146
L.2.7	Text Area.....	146
L.2.8	SVG fonts.....	146
L.2.9	Bitmap fonts	146
L.2.10	Animation.....	147
L.2.11	User interaction and content navigation	147
L.2.12	Inheritance.....	147
Annex M (informative):	Examples for Fast Content Switching and Start-up.....	148
M.1	Pipelined Start-up Examples	148
M.1.1	Successful Pipelined Start-up	148
M.1.2	Unsuccessful Pipelined Start-up	148
M.2	Content Switch with SDP.....	149
M.2.1	Successful Content Switch with available SDP.....	149
M.2.2	Partial successful Content Switch with available SDP	150
M.2.3	Successful Content Switch with available SDP, but removal of media component	151
M.3	Content Switch without SDP.....	152
M.3.1	Successful Content Switch without available SDP.....	152
M.3.2	Partial successful Content Switch without available SDP	152
M.3.3	Partial successful Content Switch without available SDP	153
M.4	Stream Switching	154
M.4.1	Successful Stream Switch.....	154
M.4.2	Removal of Media Components from an ongoing session	155
Annex N (informative):	Recommendations for NAT traversal.....	156
N.1	NAT identification	156
N.2	NAT traversal.....	156
Annex O (informative):	Examples for PSS Timeshift	157
Annex P (informative):	QoE Reporting Management Object Device Description Framework ...	159
Annex Q (informative):	Void	164
Annex R (normative):	Content Protection extensions	165
R.1	Encryption and Transport of Protected PSS Streams	165
R.1.1	Overview	165
R.1.2	Stream format.....	165
R.1.3	Encryption	165
R.1.3.1	Encryption Algorithm.....	165
R.1.3.2	Content encryption using a single key	165
R.1.3.3	Content encryption using a key stream.....	166
R.1.4	RTP Transport of Encrypted AUs	166

R.1.5	RTSP Signalling for key stream (STKM) setup and control	166
R.1.5.1	RTSP SETUP Method	166
R.1.5.2	RTSP PLAY, PAUSE and TEARDOWN Method	166
R.2	SDP Signalling	167
R.3	Enforcement of permissions and constraints	167
R.4	Mapping to DRM systems (informative)	167
R.4.1	Mapping to OMA DRM 2.0 (informative)	167
R.4.2	Mapping to OMA DRM 2.1 (informative)	167
Annex S (normative): MIME Type Registrations		168
S.1	MIME Type Registration for Media Presentation Description	168
Annex T (normative): XML Schema for NetworkedBookmark.....		170
Annex U (informative): IANA registration information for SDP attributes.....		172
U.1	Introduction	172
U.2	3GPP-framepackingtype	172
Annex V (informative): Change history		173
History		177

Foreword

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The 3GPP transparent end-to-end packet-switched streaming service (PSS) specification consists of seven 3GPP TSs: 3GPP TS 22.233 [1], 3GPP TS 26.233 [2], 3GPP TS 26.244 [50], 3GPP TS 26.245 [51], 3GPP TS 26.246 [52], 3GPP TS 26.247 [112] and the present document.

The TS 22.233 contains the service requirements for the PSS. The TS 26.233 provides an overview of the PSS. The TS 26.244 defines the 3GPP file format (3GP) used by the PSS and MMS services. The TS 26.245 defines the Timed text format used by the PSS and MMS services. The TS 26.247 defines 3GPP Progressive Download and Dynamic Adaptive Streaming over HTTP (3GP-DASH). The present document provides the details of the protocols and codecs used by the PSS.

The TS 26.244 and TS 26.245 start with Release 6. Earlier releases of the 3GPP file format and the Timed text format can be found in TS 26.234. The TS 26.247 starts with Release 10. Earlier releases of the 3GPP Download and Adaptive Streaming over HTTP can be found in TS 26.234.

Introduction

Streaming refers to the ability of an application to play synchronised media streams like audio and video streams in a continuous way while those streams are being transmitted to the client over a data network.

Applications, which can be built on top of streaming services, can be classified into on-demand and live information delivery applications. Examples of the first category are music and news-on-demand applications. Live delivery of radio and television programs are examples of the second category.

The 3GPP PSS provides a framework for Internet Protocol (IP) based streaming applications in 3G networks.

1 Scope

The present document specifies the protocols and codecs for the PSS within the 3GPP system. Protocols for control signalling, capability exchange, media transport, rate adaptation and protection are specified. Codecs for speech, natural and synthetic audio, video, still images, bitmap graphics, vector graphics, timed text and text are specified.

The present document is applicable to IP-based packet-switched networks.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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- [1] 3GPP TS 22.233: "Transparent End-to-End Packet-switched Streaming Service; Stage 1".
- [2] 3GPP TS 26.233: "Transparent end-to-end packet switched streaming service (PSS); General description".
- [3] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
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