Qualcomm® DASH Player 2 API

Release Notes Version 4.3.04.04

70-PR781-7 Rev. 4.3.04.04

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Revision history

Revision	Date	Description
4.3.00.00	October 2019	Initial release with 64-bit support
4.3.01.00	March 2020	Supporting multiple audio feature
4.3.01.01	May 2020	Bug fix release and document update on multiple audio feature
4.3.02.02	August 2020	Bug fix and android R support
4.3.03.00	November 2020	DASH to use clang compiler
4.3.03.01	May 2021	Bug fix release
4.3.04.04	March 2022	Added support for Society of Cable and Telecommunications Engineers (SCTE)-35 ad-insertion feature

Contents

Tables

1 Introduction

1.1 Background

The Qualcomm® Dynamic Adaptive Streaming over HTTP (DASH) Player application programming interface (API) enables the application to play DASH-encoded contents on any Android device.

1.2 Acronyms, abbreviations, and terms

Acronym	Definition
API	Application programming interface
DASH	Dynamic adaptive streaming over HTTP
MBMS	Multimedia Broadcast/Multicast Service
MSDC	Multicast services device client
QTI	Qualcomm Technologies, Inc.
SDK	Software development kit
SCTE	Society of Cable and Telecommunications Engineers

1.3 References and standards

Document	DCN or URL
Qualcomm Technologies, Inc. (QTI)	
Application to Qualcomm DASH Player 2 Interface Specification for Release 4.3	80-PR780-1
Standards	
Multimedia Broadcast/Multicast Service (MBMS); Protocols and codec, 3GPP TS 26.346	https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=1452

1.4 Package contents

- DASH Player API Android library file.
- API specification document

1.5 System requirements

- Android Lollipop and above operating systems

1.6 New features

Service Continuity enables the Multimedia Broadcast/Multicast Service (MBMS) middleware to provide DASH streaming services for applications while the UE is in or out of broadcast coverage for the service, as specified in *Multimedia Broadcast/Multicast Service (MBMS); Protocols and codec* (3GPP TS 26.346).

DASH streaming playback leverages reception via unicast and broadcast with the reception transitions across the two being transparent to the application. The application can know via the service availability flag whether the service is being consumed via unicast or broadcast, or whether the service is not available at the current UE location.

1.7 CRs

Table 1-1 CRs included in 4.3.00.00

CR	Title
QASP-8228	Fix Mute/Unmute functionality in exoplayer 2
QASP-8209	Fix blacklist issues
QASP-8267	Fix open source issues
QASP-8239	Support for Android Q
CR 2390084	Fix blacklist issues
QASP-8152	Support 64-bit DASH library

Table 1-2 CRs included in 4.3.01.00

CR	Title
CR 2628494	Support for audio only service
CR 2628491	Resolved audio mute issue for multiplexed stream
CR 2615482	Resolve issues in dash parser
QASP-8384	Multiple Audio Services not played after starting dash player
QASP-8385	Resolve issue with last service played continuously for long time
CR 2602108	Resolve issue in videofmt mp4r parser
CR 2596360	Resolve Heap Buffer Overflow in mm-parser
QASP-7666	Play video segment even if audio segment is not received
QASP-7982	Support for video only streaming service
CR 2589865	Fixing issue in parser advance function
QASP-8355	Resolving HTTP drm exception during streaming

Table 1-3 CRs included in 4.3.01.01

CR	Title
CR 2643585	Possible array out of bound while processing mp4 clip
CR 2630946	Clockwork fixes for DASH SDK

Table 1-4 CRs included in 4.3.02.02

CR	Title
QASP-8437	DASH support for Android R
CR 2710376	Fix out of bound access in parser source
CR 2738073	DASH IPv6 support for unicast fetch

Table 1-5 CRs included in 4.3.03.00

CR	Title
QASP-8462	DASH native library to use clang compiler

Table 1-6 CRs included in 4.3.03.01

CR	Title
CR 2798421	DASH software development kit (SDK) to support segment request for absolute IPV6 address in unicast mode
QASP-8469	DASH SDK to support segments if/is missing from base patents in SAND message
QASP-8442	DASH SDK to support segment request after moving to roaming cell
QASP-8511	DASH SDK to support init segment fetch when segment template is inside representation level

Table 1-7 CRs included in 4.3.04.04

CR	Title
CR 3029088	Segment Index parsing issue with different customer content
CR 3134758	Video is not playing if segment time line and MPD time line are different
QASP-8578	Implementing dynamic and targeted ad-insertion feature
CR 3078169	Add file name, line no in log marking in dash-native

1.8 Known issues

Table 1-8 Known issues in this release

CR	Title
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2 Support

For support, visit the LTE Broadcast SDK webpage at:
https://developer.qualcomm.com/ltebroadcast.