

Qualcomm[®] DASH Player 2 API

Release Notes Version 5.4.03.01

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Revision history

Revision	Date	Description
5.4.03.01	October 2023	New version with CEA 608 feature (captions and timed text)

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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
ANR	Application Not Responding
API	Application programming interface
DASH	Dynamic adaptive streaming over HTTP
MBMS	Multimedia Broadcast/Multicast Service
MooD	MBMS operation on demand
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)	
<i>Application to Qualcomm DASH Player 2 Interface Specification for Release 5.4</i>	80-72114-1
Standards	
<i>Multimedia Broadcast/Multicast Service (MBMS); Protocols and codec, 3GPP TS 26.346</i>	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 5.4.03.01

CR	Title
CR 3307745	Restore CEA 608 features (captions and timed text)
QASP-8676	Gradle version upgrade for DASH SDK
QASP-8675	Add support of configuration file in DASH native
QASP-8649	Remove SQLite dependency from DASH native
QASP-8642	Fix for handling DASH native warnings
QASP-8628	Resolve DASH compiler warnings and klocwork issues
QASP-8620	Resolve exoplayer exception during Mood service stop from UI app
QASP-8599	Fix ANR issue on UI app during app launch
QASP-8588	Resolve video freeze issue due to dropped frame during streaming play
QASP-8587	Resolve heap memory allocation failure during longer streaming play
QASP-8605	DASH API changes to resolve compilation issue

1.8 Known issues

Table 1-2 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>.