



OVERVIEW AND UPDATES · CONTENT DELIVERY AND STREAMING

Media Streaming and Advanced Media Delivery

Driving collaboration between mobile networks and media applications

3GPP

CTA WAVE

DASH-IF

OCTOBER 2026 – www.5g-mag.com

About the project

Driving collaboration between mobile networks and media applications

3GPP TS 26.501

Technical Specification

The functions, reference points and features of 5G Media Streaming, and the generalised Media Delivery architecture shared with RTC.

3GPP TS 26.512

Technical Specification

The protocols and APIs of 5G Media Streaming, specified with OpenAPI files.

3GPP TS 26.510

Technical Specification

The Media Delivery services, which harmonise media delivery across 5GMS and Real-Time media Communication.

[FIND OUT MORE](#)

Technical Analysis

Specifications

Reference Tools

Features

The 13 features of 5G Media Streaming, by the release that added them

Release 16 the first version: eight features

Content hosting

Content publishing

Content preparation

Network assistance

Dynamic policies

Remote control

Consumption reporting

QoE metrics reporting

Release 17 edge, eMBMS and data collection

Edge processing

eMBMS delivery

Data collection, reporting and exposure

Release 18 Service URL and MBS

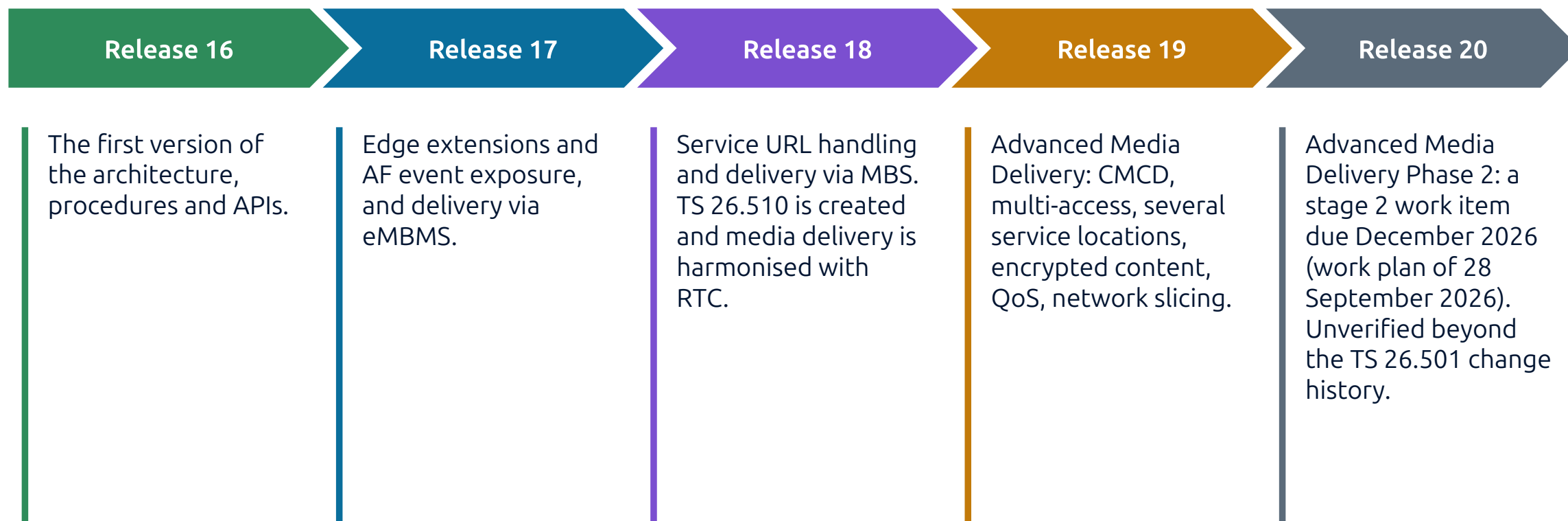
Service URL handling

MBS delivery

Each feature applies to downlink, uplink or both: content hosting, consumption reporting, QoE metrics reporting and delivery via eMBMS and MBS are downlink; content publishing and remote control are uplink. None was added in Release 19.

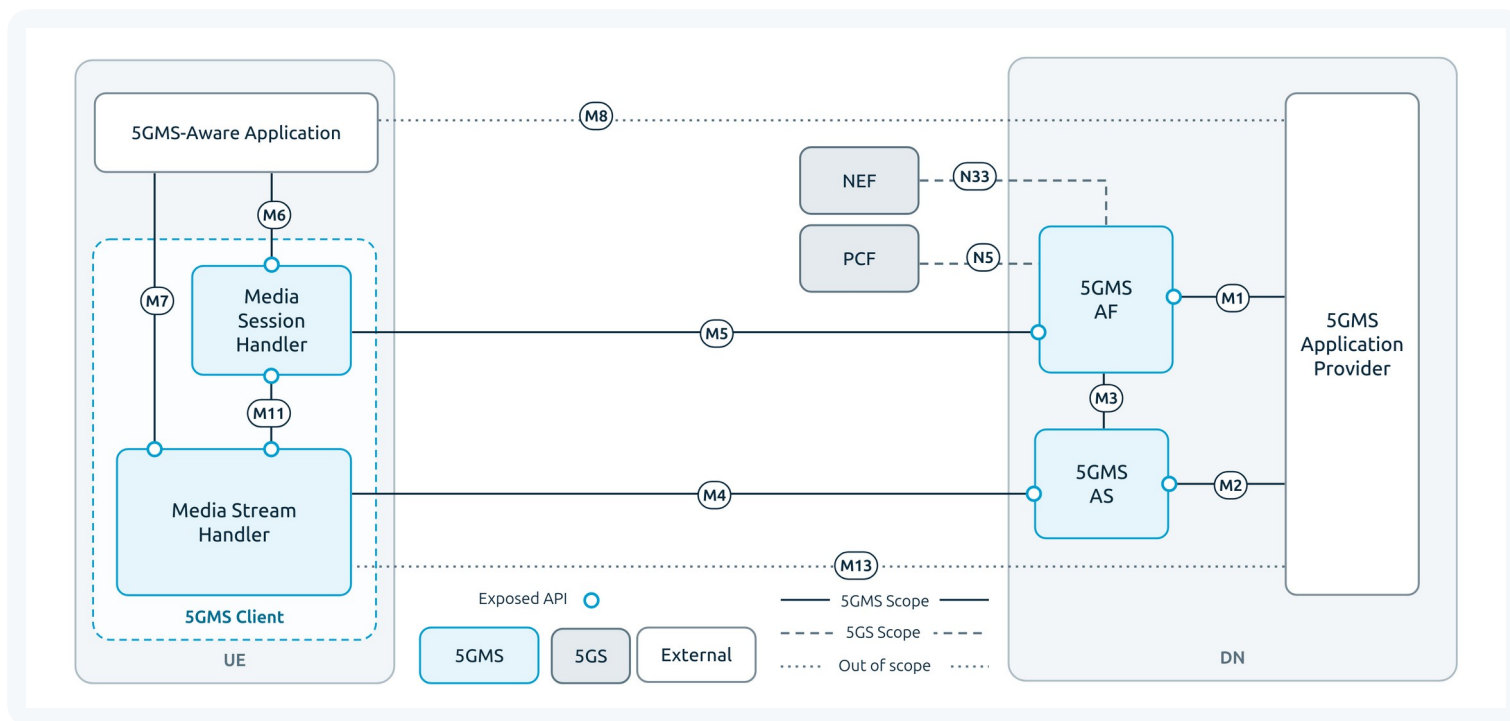
How it grew

What each 3GPP release added to 5G Media Streaming



Architecture

The 5GMS functions and the reference points between them



5GMS Application Provider

Uses 5GMS for its streaming services, and provides a 5GMS-Aware Application on the device.

5GMS AF

An Application Function dedicated to 5G Media Streaming, with control functions for the Media Session Handler and the Application Provider.

5GMS AS

An Application Server dedicated to 5G Media Streaming.

5GMS Client

In the device: a Media Session Handler, and a Media Player (downlink) or a Media Streamer (uplink).

Repositories: network and tools

The network side of 5G Media Streaming and its tools, from the descriptions of the repositories

REPOSITORY	WHAT IT IS	COVERS	LATEST RELEASE
rt-5gms-application-function	the 5GMS Application Function (AF), a Network Function of 5G Media Streaming	Application Function	 v1.4.7 3 Aug 2026 
rt-5gms-application-server	the 5GMS Application Server (AS), a Network Function of 5G Media Streaming	Application Server	 1.2.5 3 Aug 2026 
rt-5gms-application-provider	tools to work with the AF: command line, Management UI, Postman collection, QoE Metrics Reporting UI	Application Provider	 1.3.0 3 Aug 2026 
rt-5gms-examples	a Docker Compose setup of 5G Media Streaming and an Express mock AF	Deployment	 v1.3.0 3 Aug 2026 
cmcd-toolkit	tools to collect and analyze CMCD v2 data locally and across cloud providers	CMCD reporting	 none yet 

FIND OUT MORE

Technical Analysis

Specifications

Reference Tools

 released

 no release yet

Repositories: the 5GMS Client

The client side, for Android, from the descriptions of the repositories

REPOSITORY	WHAT IT IS	COVERS	LATEST RELEASE
rt-5gms-application	Android applications that test and demonstrate the Reference Tools: the 5GMSd-Aware Application and the Exo DVB-I Player	5GMS-Aware Application	 v1.3.0 26 May 2026 GitHub
rt-5gms-media-session-handler	a 5GMS Client component for Android	Media Session Handler	 v1.3.0 26 May 2026 GitHub
rt-5gms-media-stream-handler	a 5GMS Client component for Android, built on ExoPlayer	Media Stream Handler	 v1.3.0 26 May 2026 GitHub
rt-5gms-common-android-library	models and helper classes shared by the Android client applications	5GMS Client	 v1.3.0 26 May 2026 GitHub

FIND OUT MORE

Technical Analysis

Specifications

Reference Tools

 released

 no release yet

IMPLEMENT

Repositories: media and core

The media origin, the 5G Core consumers and the CMMF encoder, from the descriptions of the repositories

REPOSITORY	WHAT IT IS	COVERS	LATEST RELEASE
rt-media-origin	a media origin server and packager, a JavaScript and TypeScript web application, for delivery testing	Media origin	none yet GitHub
rt-5gc-service-consumers	reusable service consumer libraries that use the 5G Core network functions through their service interfaces	Service consumers	2.1.1 5 Jun 2026 GitHub
rt-cmmf-encoder	a reference implementation of a CMMF encoder, according to ETSI TS 103 973	No encoder code yet	none yet GitHub

FIND OUT MORE

- [Technical Analysis](#)
- [Specifications](#)
- [Reference Tools](#)

released

no release yet

Repositories in the architecture

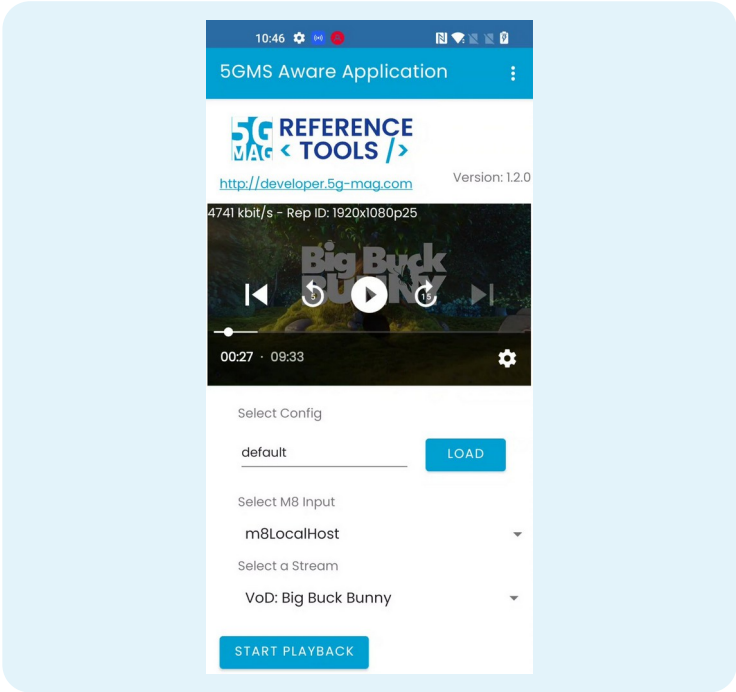
[illegible]

- 1 **rt-5gms-application**
- 2 **rt-5gms-application-provider**
- 3 **rt-5gms-application-function**
- 4 **rt-5gms-media-session-handler**
- 5 **rt-5gms-application-server**
- 6 **rt-5gms-media-stream-handler**
used by 1
- 7 **rt-5gms-common-android-library**
dependency, used by 1, 4, 6
- 8 **rt-common-shared**
auxiliary library, used by 3, 5
- 9 **rt-5gc-service-consumers**
dependency, used by 3
- 10 **open5gs**
dependency, used by 3

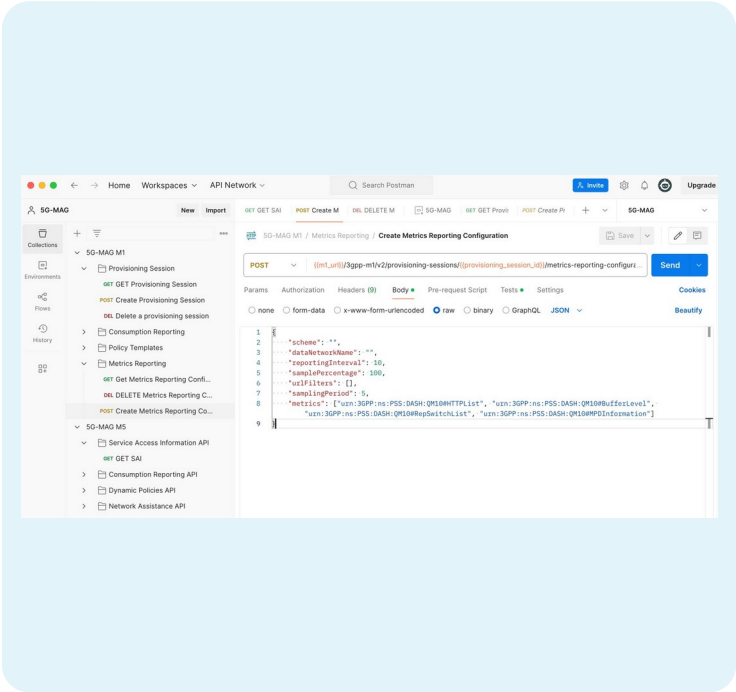
IMPLEMENT

See it and try it

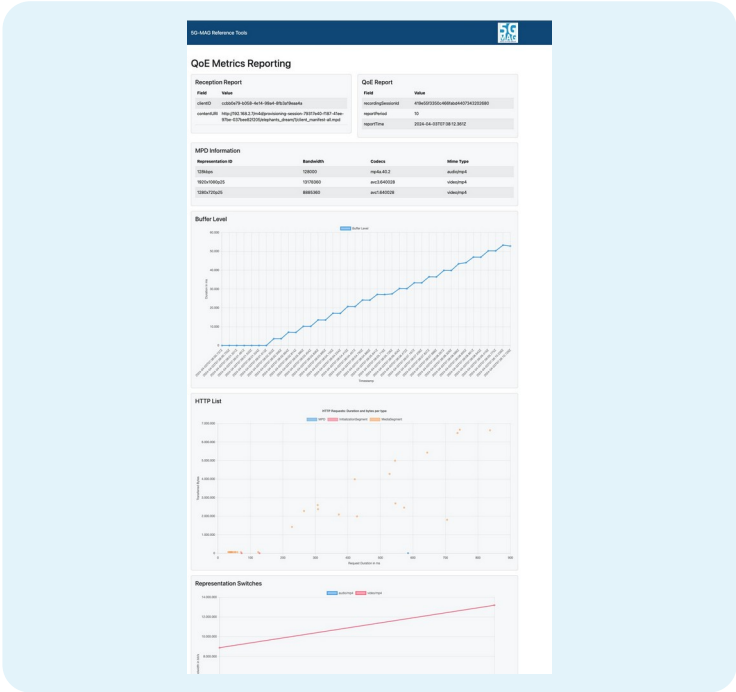
The 5GMSd-Aware Application, the provisioning of a streaming session, and the QoE reports it produces



5GMSd-Aware Application



Provisioning with the Postman collection



QoE Metrics Reporting UI

CONTRIBUTORS

B

B

C

Fraunhofer FOKUS

Dolby

Qualcomm

Latest updates and roadmap

Status on 23 October 2026



MERGED SINCE V1.4.6 21 pull requests in 8 repositories

See it. Try it. Contribute.

Raise an issue, send a pull request or join the monthly public call.

Become a contributor →



GitHub



5g-mag.com

CONTRIBUTORS



Qualcomm