**3GPP TSG-SA4 Meeting #-MBS SWG AHS4aI250137**

**Paris, France, 3rd Sep 2025 - 5th Sep 2025**

**Source: Qualcomm Incorporated**

**Title: [AMD\_PRO-MED] co-CR to** **26512-0089r3 on Inband Configuration**

**Spec: 3GPP TS 26.512**

**Agenda item: 7**

**Document for: Decision**

**1. Introduction**

S4aI250108 implements basically all relevant features, but lists on the cover page the following.

Still to do, based on section 4 of Discussion Paper S4-251317:

1. Possibly a “detailed DASH instantiation” of the generic in-band client reporting procedure at M4 specified in clause 10.5.
2. Specify syntax of the Media Player client API for metrics reporting configuration, i.e., the **metrics configuration object** in table 13.2.4-2.
   * (This needs to be suitably generic to cater for all metrics reporting schemes: both Rel-16 ones at M5 as well as Rel-19 in-band client data reporting at M4.)

We agree that choice of reporting mode (HTTP request headers or URL query parameters) is driven by client API or 3GPP Service URL at reference point M6/M11, which takes precedence over any value signalled in the DASH MPD. There is no third way to provision this via M1+M5 in this release.

This co-CR provides proposals for 1 and 2 above.

**2. Reason for Change**

Some notes ask for addressing this issue.

**3. Conclusions**

We would be done

**4. Proposal**

It is proposed to agree the attached changes to the CR 26512-0089r3.

\* \* \* First Change \* \* \* \*

The API and documentation can be found here:

* <https://cdn.dashjs.org/latest/jsdoc/module-Settings.html#~CmcdSettings>
* https://dashif.org/dash.js/pages/usage/cmcd.html

\* \* \* Next Change (new clause G.5 to address 1) \* \* \* \*

Annex G (normative):  
DASH in 5G Media Streaming

…

# G.5 Client data reporting in DASH

## G.5.1 Overview

This clause provides details on how to instantiate client data reporting in DASH. In particular, this clause provides requirements and recommendations for the 5GMSd AS and 5GMSd Client to support the following features:

* CMCD-based client data reporting

## G.5.2 CMCD-based client data reporting

### G.5.2.1 General

CMCD-based client data reporting is defined in clause 10.5.1 based on CTA-5004 [CMCDv1].

### G.5.2.2 DASH content offering requirements and recommendations

A 5GMSd AS offering CMCD-based client reporting shall support the configuration of this feature by means of the client data reporting configuration for CMCD defined in clause K.3.7 of ISO/IEC 23009-1 [32], using the in-band Service Description defined in clause K.4.3.7.2 of ISO/IEC 23009-1 [32].

### G.5.2.3 Media Player requirements and recommendations

A Media Player supporting CMCD-based client data reporting shall support

- the derivation and reporting of all metrics defined CTA-5004 [CMCDv1],

- the response to the content offering for CMCD-based client reporting as defined in clause G.5.2.2.

### G.5.2.4 Examples (informative)

Listing G.5.2.4-1 provides an example for CMCD inband configuration.

Listing G.5.2.4-1 MPD with CMCD inband configuration

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  **<MPD**  xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*  xmlns=*"urn:mpeg:dash:schema:mpd:2011"*  xsi:schemaLocation=*"urn:mpeg:dash:schema:mpd:2011 DASH-MPD.xsd"*  type=*"dynamic"*  minimumUpdatePeriod=*"PT2S"*  timeShiftBufferDepth=*"PT30M"*  availabilityStartTime=*"2014-10-17T17:17:05Z"*  minBufferTime=*"PT4S"*  profiles=*"urn:mpeg:dash:profile:isoff-live:2011"*  publishTime=*"2014-10-17T17:17:05Z"***>**  **<BaseURL** serviceLocation=*"cdn1"***>**http://cdn1.example.com/**</BaseURL>**  **<BaseURL** serviceLocation=*"cdn2"***>**http://cdn2.example.com/**</BaseURL>**    <ServiceDescription id="1250">      <Scope schemeIdUri="urn:mpeg:dash:event:service-description:2024"/>      <Latency min="750" max="4200" target="1250" referenceId="7"/>      <PlaybackRate min="0.96" max="1.04"/>      <ClientDataReporting scheme="urn:mpeg:dash:cta-5004:2023"                           serviceLocations="beta"                           adaptationSets="video">        <CMCDParameters mode="header"                        includeInRequests="\*"                        keys="br,bl,cid,dl,mtp,nor,ot,sf,v"/>      </ClientDataReporting>    </ServiceDescription>    <ServiceDescription id="2500">      <Scope schemeIdUri="urn:mpeg:dash:event:service-description:2024"/>      <Latency min="750" max="4200" target="2500" referenceId="7"/>      <PlaybackRate min="0.96" max="1.04"/>      <ClientDataReporting scheme="urn:mpeg:dash:cta-5004:2023"                           serviceLocations="beta"                           adaptationSets="video">        <CMCDParameters mode="header"                        includeInRequests="\*"                        keys="br,bl,cid,dl,mtp,nor"/>      </ClientDataReporting>    </ServiceDescription>  **<Period** id=*"1"***>**  *<!-- Video -->*  **<AdaptationSet**  mimeType=*"video/mp4"*  codecs=*"avc1.4D401F"*  frameRate=*"30000/1001"*  segmentAlignment=*"true"*  startWithSAP=*"1"***>**  **<BaseURL>**video/**</BaseURL>**  **<SegmentTemplate** timescale=*"90000"* initialization=*"$Bandwidth$/init.mp4v"* media=*"$Bandwidth$/$Time$.mp4v"***>**  **<SegmentTimeline>**  **<S** t=*"0"* d=*"180180"* r=*"432"***/>**  **</SegmentTimeline>**  **</SegmentTemplate>**  **<Representation** id=*"v0"* width=*"320"* height=*"240"* bandwidth=*"250000"***/>**  **<Representation** id=*"v1"* width=*"640"* height=*"480"* bandwidth=*"500000"***/>**  **<Representation** id=*"v2"* width=*"960"* height=*"720"* bandwidth=*"1000000"***/>**  **</AdaptationSet>**  *<!-- English Audio -->*  **<AdaptationSet** mimeType=*"audio/mp4"* codecs=*"mp4a.40"* lang=*"en"* segmentAlignment=*"0"* startWithSAP=*"1"***>**  **<SegmentTemplate** timescale=*"48000"* initialization=*"audio/en/init.mp4a"* media=*"audio/en/$Time$.mp4a"***>**  **<SegmentTimeline>**  **<S** t=*"0"* d=*"96000"* r=*"432"***/>**  **</SegmentTimeline>**  **</SegmentTemplate>**  **<Representation** id=*"a0"* bandwidth=*"64000"***/>**  **</AdaptationSet>**  *<!-- French Audio -->*  **<AdaptationSet** mimeType=*"audio/mp4"* codecs=*"mp4a.40"* lang=*"fr"* segmentAlignment=*"0"* startWithSAP=*"1"***>**  **<SegmentTemplate** timescale=*"48000"* initialization=*"audio/fr/init.mp4a"* media=*"audio/fr/$Time$.mp4a"***>**  **<SegmentTimeline>**  **<S** t=*"0"* d=*"96000"* r=*"432"***/>**  **</SegmentTimeline>**  **</SegmentTemplate>**  **<Representation** id=*"b0"* bandwidth=*"64000"***/>**  **</AdaptationSet>**  **</Period>**  **</MPD>** |

\* \* \* End of Changes \* \* \* \*