**3GPP TSG-CT3 Meeting # C3-220325**

**E-Meeting, 17th – 21th January 2022**

**Source: China Mobile**

**Title: Pseudo-CR on HTTP usage sections of common information**

**Spec: 3GPP TS 29.538 v0.2.0**

**Agenda item: 17.34**

**Document for: Approval**

**1. Introduction**

This pCR is to propose subclauses of Usage of HTTP, Content type and Error Handling for section of Common information applicable to several APIs.

**2. Reason for Change**

Contribute new text.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.538 v0.2.0.

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

# 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.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.554: "Application architecture for MSGin5G Service".

[3] 3GPP TS 22.262: "Message Service within the 5G System".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[5] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[6] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[X1] IETF RFC 7230: "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing".

[X2] IETF RFC 7231: "Hypertext Transfer Protocol (HTTP/1.1): Semantics and Content".

[X3] IETF RFC 7232: "Hypertext Transfer Protocol (HTTP/1.1): Conditional Requests".

[X4] IETF RFC 7233: "Hypertext Transfer Protocol (HTTP/1.1): Range Requests".

[X5] IETF RFC 7234: "Hypertext Transfer Protocol (HTTP/1.1): Caching".

[X6] IETF RFC 7235: "Hypertext Transfer Protocol (HTTP/1.1): Authentication".

[X7] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[X8] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

\* \* \* Next Change \* \* \* \*

## 7.3 Usage of HTTP

For MSGin5G APIs, support of HTTP/1.1 (IETF RFC 7230 [X1], IETF RFC 7231 [X2], IETF RFC 7232 [X3], IETF RFC 7233 [X4], IETF RFC 7234 [X5] and IETF RFC 7235 [X6]) over TLS is mandatory and support of HTTP/2 (IETF RFC 7540 [X7]) over TLS is recommended.

A functional entity desiring to use HTTP/2 shall use the HTTP upgrade mechanism to negotiate applicable HTTP version as described in IETF RFC 7540 [X7].

Editor’s note: Usage of HTTP over TLS is based on security aspects defined by SA3.

\* \* \* Next Change \* \* \* \*

## 7.4 Content type

JSON, IETF RFC 8259 [X8], shall be used as content type of the HTTP bodies specified in the present specification as specified in clause 5.4 of 3GPP TS 29.500 [4]. The use of the JSON format shall be signalled by the content type "application/json".

\* \* \* Next Change \* \* \* \*

## 7.7 Error Handling

HTTP error handling shall be supported as specified in clause 5.2.4 of 3GPP TS 29.500 [4].

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