**3GPP TSG-CT WG1 Meeting #136-eC1-223863 r1**

**E-Meeting, 12th – 20th May 2022**

**Source: China Mobile**

**Title: Update of the functional entities**

**Spec: 3GPP TS 24.538 v1.1.0**

**Agenda item: 17.2.30**

**Document for: Agreement**

**1. Introduction**

This pCR is proposed to update of the functional entities.

**2. Reason for Change**

This pCR is proposed to update of the functional entities.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.538 v1.1.0.

**\*\*\*\*\*\*\***

**Formatting instructions (remove this section after drafting a pCR)**

This sentence uses 'Normal' style from '3gpp\_70.dot' template, which shall be used for most of the text.

- This sentence uses 'B1' style from '3gpp\_70.dot' template, which shall be used for most of the bullet points.

NOTE: This sentence uses 'NO' style from '3gpp\_70.dot' template, which shall be used for all informative notes.

Editor's note: This sentence uses 'Editor's Note' style from '3gpp\_70.dot' template, which shall be used for all editor's notes.

Table x: This is a caption for a table, which uses 'TH' style from '3gpp\_70.dot' template.

Figure x: This is a caption for a figure, which uses 'TF' style from '3gpp\_70.dot' template.

The text within a Table and a Figure cells shall use either 'TAH', 'TAL' or 'TAC' styles from '3gpp\_70.dot' template.

Styles in 3GPP Specifications

|  |  |
| --- | --- |
| Use this style | For this type of element |
| **Heading 1** | Clause (→ if numbered) |
| **Heading n** | Subclause level n In exceptional cases, for level 6 or beyond, use **Heading 5** if required in contents list or **H6** if not to appear. → |
| **Heading 8** | Annex title for TS |
| **Heading 9** | Annex title for TR |
| **Normal** | Standard paragraph, Definition |
| **EX** | Reference, Example → |
| **EW** | Symbol, Abbreviation, Example continuation in text → |
| **Bn** | List element level n → |
| **FP** | Free paragraph (left justified) |
| **NO** | Note integrated in the text → |
| **NW** | Note continuation in text → |
| **NF** | Note in figure → |
| **TAN** | Note in table → |
| **TH** | Table title, Figures |
| **TAH** | Heading within table |
| **TAC** | Centred text within table |
| **TAL** | Left justified text within table |
| **TAR** | Right justified text within table |
| **TF** | Figure title |
| **TT** | Contents list title |
| **PL** | Programming language |
| **EQ** | Equation |
| **Header** | Header (portrait and landscape pages) |
| → use "tab" between "item/number" and "text".  EXAMPLE: The "tab" is preceding this example text. | |

**Please do not create new styles!**

**\*\*\*\*\*\*\***

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

# 5 Functional entities

## 5.1 MSGin5G Client

An MSGin5G Client acts as client-side functionality for MSGin5G UE configuration, registration and message delivery.

The functionalities of MSGin5G Client include:

a) supporting registration to an MSGin5G Server;

b) supporting configuration required to use MSGin5G Service;

c) constructing MSGin5G message when:

1) requested by an Application Client resides on the same MSGin5G UE or ;

2) requested by the Application Client resides on a Constrained UE without MSGin5G Client by acting as a gateway;

d) delivering MSGin5G message payload to the targeted Application Client:

1) directly when the Application Client resides on the same MSGin5G UE or;

2) resides on a Constrained UE without MSGin5G Client by acting as a gateway;

e) exchanging MSGin5G messages with an MSGin5G Server;

f) supporting MSGin5G message segmentation according to service provider's policy; and

g) acting as a relay for MSGin5G Client resides in other UE, which does not have enough capability to communicate with MSGin5G Server (i.e. a Constrained UE), to use MSGin5G Service.

## 5.2 MSGin5G Server

An MSGin5G Server functional entity provides server-side functionality for configuration, registration and message delivery.

The following functionalities of MSGin5G Server need to be considered in current document:

a) exchanging MSGin5G messages with MSGin5G Client;

b) routing MSGin5G messages based on UE Service ID;

c) supporting transport level protocol selection and conversion for exchanging MSGin5G messages with MSGin5G UE;

d) to resolve the MSGin5G Group Service ID to determine the members of the Group specified in 3GPP TS 23.434 [3];

e) supporting MSGin5G message segmentation according to service provider's policy;

f) supporting MSGin5G UE configuration procedures as specified in TS 23.434 [3] or communicating with the SEAL Configuration Management Server to provide MSGin5G configuration data on a UE to be ready for the MSGin5G Service; and

g) managing MSGin5G UE information related to the MSGin5G Service, such as MSGin5G Client availability.