**3GPP TSG-CT WG1 Meeting #149C1-243527**

**Hyderabad, India, 27-31 May 2024**

**(revision of C1-243246)**

**Source: Ericsson**

**Title: New WID on Protocol enhancements for Mission Critical Services**

**Document for: Agreement**

**Agenda Item: 19.1.1**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Protocol enhancements for Mission Critical Services

Acronym: MCProtoc19

Unique identifier:

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  | X |  | X |  |
| No | X |  | X |  | X |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a

|  |  |
| --- | --- |
|  | Study |
|  | Normative – Stage 1 |
|  | Normative – Stage 2 |
| x | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the parent Work Item.

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
|  |  |  |  |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| 960009 | Protocol enhancements for Mission Critical Services | Corresponding WI in rel-18 |

# 3 Justification

In release 13, MCPTT Stage 3 was built upon the requirements in 3GPP TS 22.179 and architectural work in 3GPP TS 23.179 and 3GPP TS 33.179. Further enhancements were made to MCPTT in release 14 based on the architectural work in 3GPP TS 23.379, 3GPP TS 23.280 and 3GPP TS 33.180.

In releases from release 13, the II-NNI impacts have been described in 3GPP TS 29.165.

In releases from release 13, the interactions between the MC Service User Database and the MC Service Server were specified in 3GPP TS 29.283.

In releases from release 14, MCVideo Stage 3 was built upon the requirements in 3GPP TS 22.281 and architectural work in 3GPP TS 23.280, 3GPP TS 23.281 and 3GPP TS 33.180.

In releases from release 14, MCData Stage 3 was built upon the requirements in 3GPP TS 22.282 and architectural work in 3GPP TS 23.280, 3GPP TS 23.282 and 3GPP TS 33.180.

In releases from release 16, LMR interworking was built upon the architectural work in 3GPP TS 23.283.

In release 17, MC services over 5G was built upon the architectural work in 3GPP TS 23.289.

In release 18, MC over 5GProSe, MC over 5GMBS, MC Gateway UE and MC user migration work was built upon the architectural work in 3GPP TS 23.280.

It may be deemed necessary to improve these solutions and provide technical enhancements within the scope of the CT working groups, without incurring any stage 1 or stage 2 impacts. This work item provides a vehicle for this work.

This work item should allow for editorial corrections and possible documentation improvements to better the readability and understanding of the stage 3 specifications for MCPTT, MCVideo, MCData and LMR interworking.

This work item allows small Mission Critical technical enhancements required in release 19 regardless of Mission Critical feature to be collected and packaged under a single work item. This work item is not for introducing new requirements in release 19.

# 4 Objective

The CT1 objectives are:

1) to allow minor protocol and procedural enhancements to support existing Stage 3 solutions that do not result in new stage 1 or stage 2 requirements or impact existing stage 1 and stage 2 requirements; and

2) to allow for editorial and documentation improvements to the current Stage 3 MCPTT specifications.

The CT3 objectives are to allow minor protocol and procedural enhancements as well as editorial and documentation improvements related to inter-IMS network to network interfaces.

The CT4 objectives are to allow minor protocol and procedural enhancements editorial and documentation improvements related to diameter data management applications.

This work item does not require any normative stage 2 work to be available in release 19 for it to commence.

# 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| New specifications {One line per specification. Create/delete lines as needed} | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Rapporteur |
|  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| 24.229 | Possible enhancements to SIP and SDP profile | CT#109, September 2025 | CT1 responsibility |
| 24.281 | Possible improvements to MCVideo signalling control procedures and protocols | CT#109, September 2025 | CT1 responsibility |
| 24.282 | Possible improvements to MCData signalling control procedures and protocols | CT#109, September 2025 | CT1 responsibility |
| 24.379 | Possible improvements to MCPTT call control procedures and protocols | CT#109, September 2025 | CT1 responsibility |
| 24.380 | Possible improvements to MCPTT media control and floor control procedures and protocols | CT#109, September 2025 | CT1 responsibility |
| 24.481 | Possible improvements to MC services group management procedures and protocol. | CT#109, September 2025 | CT1 responsibility |
| 24.482 | Possible improvements to MC services identity management procedures and protocol. | CT#109, September 2025 | CT1 responsibility |
| 24.483 | Possible improvements to the MC services management objects | CT#109, September 2025 | CT1 responsibility |
| 24.484 | Possible improvements to MC services configuration management protocol | CT#109, September 2025 | CT1 responsibility |
| 24.581 | Possible improvements to MCVideo media plane control protocols | CT#109, September 2025 | CT1 responsibility |
| 24.582 | Possible improvements to MCData media plane control protocols | CT#109, September 2025 | CT1 responsibility |
| 29.379 | Possible improvements to the MCPTT IWF call control | CT#109, September 2025 | CT1 responsibility |
| 29.380 | Possible improvements to the MCPTT IWF media control and floor control | CT#109, September 2025 | CT1 responsibility |
| 29.582 | Possible improvements to MCData IWF media plane control protocols | CT#109, September 2025 | CT1 responsibility |
|  |  |  |  |
| 29.165 | Possible enhancements to SIP and SDP profile over II-NNI | CT#109, September 2025 | CT3 responsibility |
|  |  |  |  |
| 29.283 | Possible improvements to Diameter data management applications specification | CT#109, September 2025 | CT4 responsibility |

# 6 Work item Rapporteur(s)

Magnus Tränk, Ericsson, magnus.trank@ericsson.com

# 7 Work item leadership

CT1

# 8 Aspects that involve other WGs

None identified yet.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
| Kontron |
| Nokia |
| Airbus |
| Sepura Ltd |
| AT&T |
| Motorola Solutions |
| Huawei |
| Samsung |
| FirstNet |
| Softil |