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| 3GPP TS 24.519 V17.1.0 (2021-06) | |
| Technical Specification | |
| 3rd Generation Partnership Project;  Technical Specification Group Core Network and Terminals;  5G System (5GS);  Time-Sensitive Networking (TSN) Application Function (AF) to Device-Side TSN Translator (DS-TT) and Network-Side TSN Translator (NW-TT) protocol aspects;  Stage 3  (Release 17) | |
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# Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

The contents of the present document were transferred to 3GPP TS 24.539 with necessary modifications.

Annex A (informative):  
Change history

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| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2019-11 | CT1#121 | C1-198752 |  |  |  | Draft skeleton provided by the rapporteur | 0.0.0 |
| 2019-11 | CT1#121 |  |  |  |  | Implementation of the following pseudo CRs agreed by CT1: C1-198019, C1-198174, C1-198482, C1-198753, C1-198757, C1-198758, and C1-199024  Corrections made by the rapporteur | 0.1.0 |
| 2019-12 | CT#86 | CP-193159 |  |  |  | Presentation for information at TSG CT | 1.0.0 |
| 2019-12 | CT#86 | CP-193292 |  |  |  | A title corrected | 1.0.1 |
| 2020-03 | CT1#122 |  |  |  |  | Implementation of the following pseudo CRs agreed by CT1: C1-200330, C10200331, C1-200573, C1-200687, C1-200706, C1-200708, C1-200832  Corrections made by the rapporteur | 1.1.0 |
| 2020-03 | CT-87e | CP-200166 |  |  |  | Presentation for approval at TSG CT | 2.0.0 |
| 2020-03 | CT-87e | CP-200288 |  |  |  | Revision after implementation of CP-200095. Presentation for approval at TSG CT | 2.1.0 |
| 2020-03 | CT-87e | CP-200292 |  |  |  | Correction of implementation of CP-200095 | 2.2.0 |
| 2020-03 | CT-87e |  |  |  |  | Version 16.0.0 created after approval | 16.0.0 |
| 2020-06 | CT-88e | CP-201137 | 0001 | 1 | F | Correction of the abnormal case in NW-TT-initiated Ethernet port management procedure | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0002 |  | D | Abbreviation correction | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0003 |  | F | IEEE Std 802.1Qbv-2016 rolled into IEEE Std 802.1Q-2018 | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0004 | 1 | F | Introduction of Bridge management information | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0005 |  | F | Updating definitions for Ethernet port management messages | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0006 | 1 | F | Assignment of timer numbers and IEIs | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0007 |  | F | Spliting port management information into port- and bridge-specific information | 16.1.0 |
| 2020-06 | CT-88e | CP-201137 | 0008 |  | F | Correct the ETHERNET PORT MANAGEMENT NOTIFY ACK message name | 16.1.0 |
| 2020-09 | CT-89e | CP-202170 | 0009 |  | F | Clarification on CNC | 16.2.0 |
| 2020-09 | CT-89e | CP-202170 | 0010r2 |  | F | Update PSFP stream identification parameters | 16.2.0 |
| 2020-09 | CT-89e | CP-202170 | 0011 |  | F | Maximum size of EPMS/BMS messages | 16.2.0 |
| 2020-09 | CT-89e | CP-202170 | 0012 |  | F | Bridge management information correction | 16.2.0 |
| 2020-12 | CT-90e | CP-203219 | 0016 |  | F | The "Set parameter" operation not applicable for read-only parameters | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0017 |  | F | Correction in stream parameters in BMIC | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0018 | 1 | F | Adding NW-TT port numbers to BMIC | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0019 |  | F | Adding Stream parameters to PMIC | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0020 | 1 | F | Bridge name and Chassis ID no more needed | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0021 | 2 | F | Correction to transfer of Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE | 16.3.0 |
| 2020-12 | CT-90e | CP-203267 | 0022 | 2 | F | Per-instance parameter handling for stream filter table | 16.3.0 |
| 2020-12 | CT-90e | CP-203219 | 0023 |  | F | Clarification on max BMS message length | 16.3.0 |
| 2021-03 | CT-91e | CP-210134 | 0025 | 1 | F | Location of the Ethernet port parameter name and bridge parameter name | 17.0.0 |
| 2021-03 | CT-91e | CP-210134 | 0026 | 1 | F | StreamFilterInstanceIndex value usage | 17.0.0 |
| 2021-06 | CT-92e | CP-211337 | 0029 | 1 | F | Removal of contents of the TS | 17.1.0 |