**3GPP TSG-CT WG1 Meeting #127-eC1-207679**

**Electronic meeting, 13-20 November 2020 (was C1-207484)**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
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|  | **24.519** | **CR** | **0021** | **rev** | **2** | **Current version:** | **16.2.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Correction to transfer of Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE |
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| ***Source to WG:*** | Huawei, HiSilicon, Ericsson |
| ***Source to TSG:*** | C1 |
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| ***Work item code:*** | VERTICAL\_LAN |  | ***Date:*** | 2020-11-17 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)Rel-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)* |
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| ***Reason for change:*** | During the review procedure process of the specification it has been observed that though a reference to the stage 3 on the NAS for 5GS (i.e., TS 24.501) exists under the reference section, it is never used by the specification. It is even more worrying that the specification relies solely on stage 2 (i.e., TS 23.502) for the details on transfer of standardized and deployment-specific Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE side. As a matter of fact, implementers should consider and follow the specified work captured in TS 24.501. Stage 2, i.e., TS 23.502, does not provide all necessary implementations details and handling.Please, note that the NAS protocol for 5GS (5GSM) has been updated to provide stage 3 funtcionality for transfer of port management information containers. It is therefore important to link the specification (TS 24.519) to the correct specification work that is TS 24.501.TS 24.501 provides the necessary implementation details in subclauses 6.4.1.2, 6.3.2 and 6.4.2. In addition TS 24.501 provides a very useful overview to implementers on time sensitive communication (TSN) in 5GS including all necessary specifications. Hence, TS 24.501 has to be used in TS 24.519 to avoid misunderstandings which can lead to wrong implementations and issues during integration and testing phases. |
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| ***Summary of change:*** | The currently unused reference to TS 24.501 is put in use so that it is indicated the necessary implementation details to follow/implement for transfering standardized and deployment-specific Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE side. |
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| ***Consequences if not approved:*** | Lack of pointer and details to the stage 3 (implementation and design) details of transfer of standardized and deployment-specific Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE side. This leads to misunderstanding of what it is necessary to support and how the Ethernet port management messages defined by TS 24.519 are included in a Port management information container IE and transported. Risk of wrong implementations is possible. |
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| ***Clauses affected:*** | 5.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** | Revision 1; the only change is indicating correct work item version on the cover sheet as per the DB.Revision 2; the exact names of the 5GSM procedures as per TS 24.501 are spelled out. |

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

## 5.1 General

The UE and the network may support transfer of standardized and deployment-specific Ethernet port management information between a time-sensitive networking (TSN) AF and the DS-TT at the UE, to manage the Ethernet port used at the DS-TT for a PDU session of "Ethernet" PDU session type. The Ethernet port management messages are included in a Port management information container IE and transported using the UE-requested PDU session establishment procedure, the network-requested PDU session modification procedure or the UE-requested PDU session modification procedure as specified in 3GPP TS 24.501 [5] subclauses 6.4.1.2, 6.3.2 and 6.4.2.

\* \* \* End of Change \* \* \* \*