**3GPP TSG-CT WG1 Meeting #126-e** **C1-206451**

**Electronic meeting, 15-23 October 2020 (was C1-206391)**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.519** | **CR** | **0020** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network | **x** |

|  |
| --- |
|  |
| ***Title:***  | Bridge name and Chassis ID no more needed |
|  |  |
| ***Source to WG:*** | Intel, Nokia, Nokia Shanghai Bell, ZTE |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | Vertical\_LAN |  | ***Date:*** | 2020-10-10 |
|  |  |  |  |  |
| ***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)* |
|  |  |
| ***Reason for change:*** | SA2 has agreed to remove Chassis ID from the BMIC (see TS 23.501 CR 2446, S2-2005890).SA2 has also agreed to remove Bridge name from the the BMIC (see TS 23.501 CR 2435, S2-2005608).CRFinally, SA2 has updated several IEEE specification references with the correct syntax according to the IEEE LS (see TS 23.501 CR 2446, S2-2005890).Accordingly, this CR proposes to remove Chassis ID subtype, Chassis ID and Bridge name from Bridge management list. Additionally, the IEEE references are updated with the correct syntax as outlined in the IEEE LS. |
| ***PROPOSES*** |  |
| ***Summary of change:*** | 1. remove Chassis ID subtype, Chassis ID and Bridge name from Bridge management list
2. Update IEEE standard references
 |
|  |  |
| ***Consequences if not approved:*** | Stage3 not aligned with stage2 regarding support of Chassis ID subtype, Chassis ID and Bridge name. |
|  |  |
| ***Clauses affected:*** | 2, 4, 9.2, 9.5B, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev1* Update cover sheet according to the official template
* Added additional co-signer
* Added notes for the code points that are now marked as spare
 |

\*\*\* 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 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".

[5] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[5A] 3GPP TS 29.244: "Interface between the Control Plane and the User Plane nodes".

[5B] 3GPP TS 29.512: "5G System; Session Management Policy Control Service; Stage 3".

[6] IEEE Std 802.1AB-2016: "IEEE Standard for Local and metropolitan area networks -- Station and Media Access Control Connectivity Discovery".

[7] IEEE Std 802.1Q-2018: "Standard for Local and metropolitan area networks--Bridges and Bridged Networks".

[8] Void

[9] IEEE Std 802.1Qcc-2018: "Standard for Local and metropolitan area networks - Bridges and Bridged Networks - Amendment: Stream Reservation Protocol (SRP) Enhancements and Performance Improvements".

[10] IEEE Std 802.1CB-2017: "IEEE Standard for Local and metropolitan area networks-Frame Replication and Elimination for Reliability".

\*\*\* Next change \*\*\*

# 4 General

For time sensitive communication (TSC), a 5G system (5GS) can be integrated as a bridge in a time-sensitive networking (TSN) network (i.e. a TSN bridge).

The device-side TSN translator (DS-TT) is deployed at the UE-side edge and the network-side TSN translator (NW-TT) is deployed at the network-side edge in order to interface with a TSN network while achieving transparency (see 3GPP TS 23.501 [2]). In addition, the TSN application function (TSN AF) is deployed to exchange TSN bridge information with the centralized network configuration (CNC) as defined in IEEE Std 802.1Qcc-2018 [9]. The TSN bridge information includes port management information and bridge management information. Port management information is related to Ethernet ports located in the DS-TT and NW-TT. Bridge management information is related to the NW-TT.

In order to support TSN bridge information exchange between TSN AF and CNC, the DS-TT, NW-TT, and TSN AF support procedures for Ethernet port management and Bridge management. Clause 5 describes details of the elementary procedures between TSN AF and DS-TT for Ethernet port management. Clause 6 describes details of the elementary procedures between TSN AF and NW-TT for Ethernet port management (clause 6.2) and Bridge management (clause 6.3).

\*\*\* Next change \*\*\*

## 9.2 Ethernet port management list

The purpose of the Ethernet port management list information element is to transfer from the TSN AF to the DS-TT or NW-TT a list of operations related to Ethernet port management of the DS-TT or NW-TT to be performed at the DS-TT or NW-TT.

The Ethernet port management list information element is coded as shown in figure 9.2.1, figure 9.2.2, figure 9.2.3, figure 9.2.4, figure 9.2.5, and table 9.2.1.

The Ethernet port management list information element has a minimum length of 4 octets and a maximum length of 65535 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Ethernet port management list IEI | octet 1 |
| Length of Ethernet port management list contents | octet 2octet 3 |
| Ethernet port management list contents | octet 4octet z |

Figure 9.2.1: Ethernet port management list information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation 1 | octet 4octet a |
| Operation 2 | octet a+1\*octet b\* |
| … | octet b+1\*…octet c\* |
| Operation N | octet c+1\*octet z\* |

Figure 9.2.2: Ethernet port management list contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |

Figure 9.2.3: Operation for operation code set to "00000001"

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |
| Ethernet port parameter name | octet d+1octet d+2 |

Figure 9.2.4: Operation for operation code set to "00000010", "00000100", or "00000101"

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |
| Ethernet port parameter name | octet d+1octet d+2 |
| Length of Ethernet port parameter value | octet d+3octet d+4 |
| Ethernet port parameter value | octet d+5octet e |

Figure 9.2.5: Operation for operation code set to "00000011"

Table 9.2.1: Ethernet port management list information element

|  |
| --- |
| Value part of the Ethernet port management list information element (octets 4 to z) |
|  |
| The value part of the Ethernet port management list information element consists of one or several operations. |
|  |
| Operation |
|  |
| Operation code (octet d) |
| Bits**8 7 6 5 4 3 2 1**0 0 0 0 0 0 0 0 Reserved0 0 0 0 0 0 0 1 Get capabilities0 0 0 0 0 0 1 0 Read parameter0 0 0 0 0 0 1 1 Set parameter0 0 0 0 0 1 0 0 Subscribe-notify for parameter |
| 0 0 0 0 0 1 0 1 Unsubscribe for parameter |
| All other values are spare. |
|  |
| Ethernet port parameter name (octets d+1 to d+2) |
|  |
| This field contains the name of the Ethernet port parameter to which the operation applies, encoded as follows:- 0000H Reserved;- 0001H txPropagationDelay;- 0002H Traffic class table;- 0003H GateEnabled;- 0004H AdminBaseTime;- 0005H AdminControlListLength;- 0006H AdminControlList;- 0007H AdminCycleTime;- 0008H Tick granularity;- 0009H to Spare- 003FH- 0040H lldpV2PortConfigAdminStatusV2;- 0041H lldpV2LocChassisIdSubtype;- 0042H lldpV2LocChassisId;- 0043H lldpV2MessageTxInterval;- 0044H lldpV2MessageTxHoldMultiplier;- 0045H to Spare- 005FH- 0060H lldpV2LocPortIdSubtype;- 0061H lldpV2LocPortId;- 0062H to Spare- 009FH- 00A0H lldpV2RemChassisIdSubtype;- 00A1H lldpV2RemChassisId;- 00A2H lldpV2RemPortIdSubtype;- 00A3H lldpV2RemPortId;- 00A4H lldpTTL;- 00A5H to Spare- 00DFH- 00E0H Stream filter instance table- 00E1H Stream gate instance table- 00E2H to Spare- 7FFFH- 8000H to Reserved for deployment specific parameters- FFFFH |
| Length of Ethernet port parameter value (octets d+3 to d+4) |
|  |
| This field contains the binary encoding of the length of the Ethernet port parameter value |
|  |
| Ethernet port parameter value (octet d+5 to e) |
|  |
| This field contains the value to be set for the Ethernet port parameter.When the Ethernet port parameter name indicates txPropagationDelay, the Ethernet port parameter value field contains the binary representation of the txPropagationDelay as defined in IEEE Std 802.1Qcc [9], expressed in unit of nanoseconds and multiplied by 216, with the LSB bit included in bit 1 of the first octet. If the txPropagationDelay is too big to be represented, all bits of the Ethernet port parameter value field shall be coded as "1" except the MSB bit. The length of Ethernet port parameter value indicates a value of 8.When the Ethernet port parameter name indicates Traffic class table, the Ethernet port parameter value field contains the traffic class table as defined in IEEE Std 802.1Q [7], encoded as the value part of the Traffic class information element as specified in clause 9.7.When the Ethernet port parameter name indicates GateEnabled, the Ethernet port parameter value field contains the value of GateEnabled as defined in IEEE Std 802.1Q [7], with a Boolean value of FALSE encoded as "00000000" and a Boolean value of TRUE encoded as "00000001". The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates AdminBaseTime, the Ethernet port parameter value field contains the value of the administrative base time as specified in IEEE Std 802.1Q [7]. The length of Ethernet port parameter value field indicates a value of 10.When the Ethernet port parameter name indicates AdminControlListLength, the Ethernet port parameter value field contains the value of the AdminControlListLength as specified in IEEE Std 802.1Q [7]. The length of Ethernet port parameter value field indicates a value of 2.When the Ethernet port parameter name indicates AdminControlList, the Ethernet port parameter value field contains the concatenation of AdminControlListLength entries, each encoded as a GateControlEntry as specified in IEEE Std 802.1Q [7].When the Ethernet port parameter name indicates AdminCycleTime, the Ethernet port parameter value field contains the value of the AdminCycleTime as specified in IEEE Std 802.1Q [7]. The length of Ethernet port parameter value field indicates a value of 8.When the Ethernet port parameter name indicates Tick granularity, the Ethernet port parameter value field contains the value of the Tick granularity as specified in IEEE Std 802.1Q [7]. The length of Ethernet port parameter value field indicates a value of 4.When the Ethernet port parameter name indicates lldpV2PortConfigAdminStatusV2, the Ethernet port parameter value field contains values of lldpV2PortConfigAdminStatusV2 as specified in IEEE Std 802.1AB [6] clause 9.2.5.1 with value of txOnly encoded as 01H, rxOnly encoded as 02H, txAndRx encoded as 03H, and disabled encoded as 04H. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2LocChassisIdSubtype, the Ethernet port parameter value field contains values of lldpV2LocChassisIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.2.2. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2LocChassisId, the Ethernet port parameter value field contains values of lldpV2LocChassisId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.2.3. The length of Ethernet port parameter value field indicates the length of the octet string with a maximum value of 255.When the Ethernet port parameter name indicates lldpV2MessageTxInterval, the Ethernet port parameter value field contains the value of lldpV2MessageTxInterval as specified in IEEE Std 802.1AB [6] table 11-2. The length of Ethernet port parameter value field indicates a value of 2.When the Ethernet port parameter name indicates lldpV2MessageTxHoldMultiplier, the Ethernet port parameter value field contains the value of lldpV2MessageTxHoldMultiplier as specified in IEEE Std 802.1AB [6] table 11-2. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2LocPortIdSubtype, the Ethernet port parameter value field contains values of lldpV2LocPortIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.3.2. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2LocPortId, the Ethernet port parameter value field contains values of lldpV2LocPortId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.3.3. The length of Ethernet port parameter value field indicates the length of the octet string with a maximum value of 255.When the Ethernet port parameter name indicates lldpV2RemChassisIdSubtype, the Ethernet port parameter value field contains values of lldpV2RemChassisIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.2.2. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2RemChassisId, the Ethernet port parameter value field contains values of lldpV2RemChassisId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.2.3. The length of Ethernet port parameter value field indicates the length of the octet string with a maximum value of 255.When the Ethernet port parameter name indicates lldpV2RemPortIdSubtype, the Ethernet port parameter value field contains values of lldpV2RemPortIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.3.2. The length of Ethernet port parameter value field indicates a value of 1.When the Ethernet port parameter name indicates lldpV2RemPortId, the Ethernet port parameter value field contains values of lldpV2RemPortId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.3.3. The length of Ethernet port parameter value field indicates the length of the octet string with a maximum value of 255.When the Ethernet port parameter name indicates lldpTTL, the Ethernet port parameter value field contains the value of TTL as specified in IEEE Std 802.1AB [6] clause 8.5.4. The length of Ethernet port parameter value field indicates a value of 2.When the Ethernet port parameter name indicates Stream filter instance table, the Ethernet port parameter value field contains a Stream filter instance table as defined in 3GPP TS 23.501 [2] table 5.28.3.1-1, encoded as the value part of the Stream filter instance table information element as specified in clause 9.8.When the Ethernet port parameter name indicates Stream gate instance table, the Ethernet port parameter value field contains a Stream gate instance table as defined in 3GPP TS 23.501 [2] table 5.28.3.1-1, encoded as the value part of the Stream gate instance table information element as specified in clause 9.9.When the hexadecimal encoding of the Ethernet port parameter name is in the "8000H" to "FFFFH" range, the encoding of the Ethernet port parameter value field and the value of the length of Ethernet port parameter value field are deployment-specific. |
|  |

\*\*\* Next change \*\*\*

## 9.5B Bridge management list

The purpose of the Bridge management list information element is to transfer from the TSN AF to the NW-TT a list of operations related to Bridge management of the NW-TT to be performed at the NW-TT.

The Bridge management list information element is coded as shown in figure 9.5B.1, figure 9.5B.2, figure 9.5B.3, figure 9.5B.4, figure 9.5B.5, and table 9.5B.1.

The Bridge management list information element has a minimum length of 4 octets and a maximum length of 65534 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Bridge management list IEI | octet 1 |
| Length of Bridge management list contents | octet 2octet 3 |
| Bridge management list contents | octet 4octet z |

Figure 9.5B.1: Bridge management list information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation 1 | octet 4octet a |
| Operation 2 | octet a+1\*octet b\* |
| … | octet b+1\*…octet c\* |
| Operation N | octet c+1\*octet z\* |

Figure 9.5B.2: Bridge management list contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |

Figure 9.5B.3: Operation for operation code set to "00000001"

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |
| Bridge parameter name | octet d+1octet d+2 |

Figure 9.5B.4: Operation for operation code set to "00000010", "00000100", or "00000101"

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Operation code | octet d |
| Bridge parameter name | octet d+1octet d+2 |
| Length of Bridge parameter value | octet d+3octet d+4 |
| Bridge parameter value | octet d+5octet e |

Figure 9.5B.5: Operation for operation code set to "00000011"

Table 9.5B.1: Bridge management list information element

|  |
| --- |
| Value part of the Bridge management list information element (octets 4 to z) |
|  |
| The value part of the Bridge management list information element consists of one or several operations. |
|  |
| Operation |
|  |
| Operation code (octet d) |
| Bits**8 7 6 5 4 3 2 1**0 0 0 0 0 0 0 0 Reserved0 0 0 0 0 0 0 1 Get capabilities0 0 0 0 0 0 1 0 Read parameter0 0 0 0 0 0 1 1 Set parameter0 0 0 0 0 1 0 0 Subscribe-notify for parameter |
| 0 0 0 0 0 1 0 1 Unsubscribe for parameter |
| All other values are spare. |
|  |
| Bridge parameter name (octets d+1 to d+2) |
|  |
| This field contains the name of the Bridge parameter to which the operation applies, encoded as follows:- 0000H Reserved;- 0001H Bridge Address;- 0002H Spare (NOTE1)- 0003H Bridge ID;- 0004H to Spare- 0009H- 0010H Spare (NOTE2)- 0011H Spare (NOTE3)- 0012H Static filtering entries;- 0013H to Spare- 0019H- 0020H lldpV2PortConfigAdminStatusV2;- 0021H lldpV2LocChassisIdSubtype;- 0022H lldpV2LocChassisId;- 0023H lldpV2MessageTxInterval;- 0024H lldpV2MessageTxHoldMultiplier;- 0025H to Spare- 004FH- 0050H DS-TT port neighbor discovery configuration for DS-TT ports- 0051H Discovered neighbor information for DS-TT ports- 0052H to Spare- 006FH- 0070H PSFPMaxStreamFilterInstances;- 0071H PSFPMaxStreamGateInstances;- 0072H PSFPMaxFlowMeterInstances;- 0073H PSFPSupportedListMax;- 0074H to Spare- 7FFFH- 8000H to Reserved for deployment specific parameters- FFFFH |
| Length of Bridge parameter value (octets d+3 to d+4) |
|  |
| This field contains the binary encoding of the length of the Bridge parameter value |
|  |
| Bridge parameter value (octet d+5 to e) |
|  |
| This field contains the value to be set for the Bridge parameter.When the Bridge parameter name indicates Bridge Address, the Bridge parameter value field contains the values of Bridge Address as defined in IEEE Std 802.1Q [7] clause 8.13.8. The length of Bridge parameter value field indicates a value of 6. When the Bridge parameter name indicates Bridge ID, the Bridge parameter value field contains the values of Bridge Identifier as defined in IEEE Std 802.1Q [7] clause 14.2.5. The length of Bridge parameter value field indicates a value of 8. When the Bridge parameter name indicates Static filtering entries, the Bridge parameter value field contains Static filtering entries as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2, encoded as the value part of the Static filtering entries information element as specified in clause 9.6.When the Bridge parameter name indicates lldpV2PortConfigAdminStatusV2, the Bridge parameter value field contains values of lldpV2PortConfigAdminStatusV2 as specified in IEEE Std 802.1AB [6] clause 9.2.5.1 with value of txOnly encoded as 01H, rxOnly encoded as 02H, txAndRx encoded as 03H, and disabled encoded as 04H. The length of Bridge parameter value field indicates a value of 1.When the Bridge parameter name indicates lldpV2LocChassisIdSubtype, the Bridge parameter value field contains values of lldpV2LocChassisIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.2.2. The length of Bridge parameter value field indicates a value of 1.When the Bridge parameter name indicates lldpV2LocChassisId, the Bridge parameter value field contains values of lldpV2LocChassisId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.2.3. The length of Bridge parameter value field indicates the length of the octet string with a maximum value of 255.When the Bridge parameter name indicates lldpV2MessageTxInterval, the Bridge parameter value field contains the value of lldpV2MessageTxInterval as specified in IEEE Std 802.1AB [6] table 11-2. The length of Bridge parameter value field indicates a value of 2.When the Bridge parameter name indicates lldpV2MessageTxHoldMultiplier, the Bridge parameter value field contains the value of lldpV2MessageTxHoldMultiplier as specified in IEEE Std 802.1AB [6] table 11-2. The length of Bridge parameter value field indicates a value of 1.When the Bridge parameter name indicates DS-TT port neighbor discovery configuration for DS-TT ports, the Bridge parameter value field contains DS-TT port neighbor discovery configuration for DS-TT ports as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2, encoded as the value part of the DS-TT port neighbor discovery configuration for DS-TT ports information element as specified in clause 9.10.When the Bridge parameter name indicates Discovered neighbor information for DS-TT ports, the Bridge parameter value field contains Discovered neighbor information for DS-TT ports as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2, encoded as the value part of the Discovered neighbor information for DS-TT ports information element as specified in clause 9.11.When the Bridge parameter name indicates PSFPMaxStreamFilterInstances, the Bridge parameter value field contains the value of PSFPMaxStreamFilterInstances as specified in IEEE Std 802.1Q [7] Table 12-31. The length of Bridge parameter value field indicates a value of 4.When the Bridge parameter name indicates PSFPMaxStreamGateInstances, the Bridge parameter value field contains the value of PSFPMaxStreamGateInstances as specified in IEEE Std 802.1Q [7] Table 12-31. The length of Bridge parameter value field indicates a value of 4.When the Bridge parameter name indicates PSFPMaxFlowMeterInstances, the Bridge parameter value field contains the value of PSFPMaxFlowMeterInstances as specified in IEEE Std 802.1Q [7] Table 12-31. The length of Bridge parameter value field indicates a value of 4.When the Bridge parameter name indicates PSFPSupportedListMax, the Bridge parameter value field contains the value of SupportedListMax as specified in IEEE Std 802.1Q [7] clause 12. 31.1.4. The length of Bridge parameter value field indicates a value of 4.When the hexadecimal encoding of the Bridge parameter name is in the "8000H" to "FFFFH" range, the encoding of the Bridge parameter value field and the value of the length of Bridge parameter value field are deployment-specific. |
|  |
| NOTE1: Implementations compliant with earlier versions of this release of the specification can interpret these values as signalling the Bridge Name.NOTE2: Implementations compliant with earlier versions of this release of the specification can interpret these values as signalling the Chassis ID subtype.NOTE3: Implementations compliant with earlier versions of this release of the specification can interpret these values as signalling the Chassis ID. |

\*\*\* Next change \*\*\*

## 9.6 Static filtering entries

The purpose of the Static filtering entries information element is to convey Static filtering entries as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2.

The Static filtering entries information element is coded as shown in figure 9.6.1, figure 9.6.2 and table 9.6.1.

The Static filtering entries information element has a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Static filtering entries IEI | octet 1 |
| Length of Static filtering entries contents | octet 2octet 3 |
| Static filtering entry 1 | octet 4octet 13 |
| … |  |
| Static filtering entry n | octet 10n-6octet 10n+3 |

Figure 9.6.1: Static filtering entries information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| MacAddress value | octet 4octet 9 |
| VID value | octet 10octet 11 |
| Port value | octet 12octet 13 |

Figure 9.6.2: Static filtering entry

Table 9.6.1: Static filtering entries

|  |
| --- |
| Value part of the Static filtering entries information element (octets 4 to 10n+3) |
|  |
| Static filtering entries contents (octets 4 to 10n+3)This field consists of zero or more Static filtering entries. |
|  |
| Static filtering entry (octets 4 to 13) |
|  |
| MacAddress value (octets 4 to 9)MacAddress value contains the value of MAC address as specified in IEEE Std 802.1Q [7] clause 8.8.1. |
|  |
| VID value (octets 10 to 11)VID value contains the value of VID specification as specified in IEEE Std 802.1Q [7] clause 8.8.1. |
|  |
| Port value (octets 12 to 13)Port value contains the value of outbound Port as specified in IEEE Std 802.1Q [7] clause 8.8.1. |

\*\*\* Next change \*\*\*

## 9.7 Traffic class table

The purpose of the Traffic class table information element is to convey a traffic class table as defined in IEEE Std 802.1Q [7].

The Traffic class table information element is coded as shown in figure 9.7.1, figure 9.7.2, figure 9.7.3, and table 9.7.1.

The Traffic class table information element has a minimum length of 3 octets and a maximum length of 19 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Traffic class table IEI | octet 1 |
| Length of traffic class table contents | octet 2 |
| Traffic class table contents | octet 3octet 2n+3 |

Figure 9.7.1: Traffic class table information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| 0Spare | 0Spare | 0Spare | 0Spare | Number of traffic classes | octet 3 |
| Information for traffic class 1 | octet 4\*octet 5\* |
| … | octet 6\*octet n+2\* |
| Information for traffic class N | octet 2n+2\*octet 2n+3\* |

Figure 9.7.2: Traffic class table contents

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| 0Spare | 0Spare | 0Spare | 0Spare | Traffic class value | octet m |
| PriorityValue7 | PriorityValue6 | PriorityValue5 | PriorityValue4 | PriorityValue3 | PriorityValue2 | PriorityValue1 | PriorityValue0 | octet m+1 |

Figure 9.7.3: Information for traffic class

Table 9.7.1: Traffic class information

|  |
| --- |
| Number of traffic classes (bit 1 to bit 3 of octet 3) |
| Bits |
| 4 | 3 | 2 | 1 |  |
| 0 | 0 | 0 | 0 | No traffic class information is included |
| 0 | 0 | 0 | 1 | Information on one traffic class is included |
| 0 | 0 | 1 | 0 | Information on two traffic classes is included |
| 0 | 0 | 1 | 1 | Information on three traffic classes is included |
| 0 | 1 | 0 | 0 | Information on four traffic classes is included |
| 0 | 1 | 0 | 1 | Information on five traffic classes is included |
| 0 | 1 | 1 | 0 | Information on six traffic classes is included |
| 0 | 1 | 1 | 1 | Information on seven traffic classes is included |
| 1 | 0 | 0 | 0 | Information on eight traffic classes is included |
| 1 | 0 | 0 | 1 |  |
| to | Reserved |
| 1 | 1 | 1 | 1 |  |
|  |
| Traffic class value (bit 1 to bit 3 of octet m) |
| Bits |
| 3 | 2 | 1 |  |
| 0 | 0 | 0 | The value of the traffic class is 0 |
| 0 | 0 | 1 | The value of the traffic class is 1 |
| 0 | 1 | 0 | The value of the traffic class is 2 |
| 0 | 1 | 1 | The value of the traffic class is 3 |
| 1 | 0 | 0 | The value of the traffic class is 4 |
| 1 | 0 | 1 | The value of the traffic class is 5 |
| 1 | 1 | 0 | The value of the traffic class is 6 |
| 1 | 1 | 1 | The value of the traffic class is 7 |
|  |
| PriorityValue0 (bit 1 of octet m+1)Bit |
| 1 |  |
| 0 | Priority value 0 is not assigned to the traffic class |
| 1 | Priority value 0 is assigned to the traffic class |
|  |
| PriorityValue1 (bit 2 of octet m+1)Bit |
| 2 |  |
| 0 | Priority value 1 is not assigned to the traffic class |
| 1 | Priority value 1 is assigned to the traffic class |
|  |
| PriorityValue2 (bit 3 of octet m+1)Bit |
| 3 |  |
| 0 | Priority value 2 is not assigned to the traffic class |
| 1 | Priority value 2 is assigned to the traffic class |
|  |
| PriorityValue3 (bit 4 of octet m+1)Bit |
| 4 |  |
| 0 | Priority value 3 is not assigned to the traffic class |
| 1 | Priority value 3 is assigned to the traffic class |
|  |
| PriorityValue4 (bit 5 of octet m+1)Bit |
| 5 |  |
| 0 | Priority value 4 is not assigned to the traffic class |
| 1 | Priority value 4 is assigned to the traffic class |
|  |
| PriorityValue5 (bit 6 of octet m+1)Bit |
| 6 |  |
| 0 | Priority value 5 is not assigned to the traffic class |
| 1 | Priority value 5 is assigned to the traffic class |
|  |
| PriorityValue6 (bit 7 of octet m+1)Bit |
| 7 |  |
| 0 | Priority value 6 is not assigned to the traffic class |
| 1 | Priority value 6 is assigned to the traffic class |
|  |
| PriorityValue7 (bit 8 of octet m+1)Bit |
| 8 |  |
| 0 | Priority value 7 is not assigned to the traffic class |
| 1 | Priority value 7 is assigned to the traffic class |

\*\*\* Next change \*\*\*

## 9.8 Stream filter instance table

The purpose of the Stream filter instance table information element is to convey a Stream filter instance table as defined 3GPP TS 23.501 [2] table 5.28.3.1-1.

The Stream filter instance table information element is coded as shown in figure 9.8.1, figure 9.8.2, figure 9.8.3, figure 9.8.4, figure 9.8.5, and table 9.8.1.

The Stream filter instance table is a type 6 information element with a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Stream filter instance table IEI | octet 1 |
| Length of Stream filter instance table contents | octet 2octet 3 |
| Stream filter instance 1 | octet 4\*octet m\* |
| … |  |
| Stream filter instance n | octet n\*octet o\* |

Figure 9.8.1: Stream filter instance table information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of Stream filter instance contents | octet 4 |
| PrioritySpec value | octet 5octet 8 |
| StreamGateInstanceID value | octet 9octet 12 |
| tsnStreamIdIdentificationType value | octet 13octet 16 |
| tsnStreamIdParameters | octet 17octet m |

Figure 9.8.2: Stream filter instance

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of tsnStreamIdParameters contents | octet 17 |
| tsnCpeNullDownDestMac value | octet 18octet 23 |
| tsnCpeNullDownTagged value | octet 24 |
| tsnCpeNullDownVlan value | octet 25octet 26 |

Figure 9.8.3: tsnStreamIdParameters for tsnStreamIdIdentificationType = 00-80-C2 01

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of tsnStreamIdParameters contents | octet 17 |
| tsnCpeSmacVlanDownSrcMac value | octet 18octet 23 |
| tsnCpeSmacVlanDownTagged value | octet 24 |
| tsnCpeSmacVlanDownVlan value | octet 25octet 26 |

Figure 9.8.4: tsnStreamIdParameters for tsnStreamIdIdentificationType = 00-80-C2 02

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of tsnStreamIdParameters contents | octet 17 |
| tsnCpeDmacVlanDownDestMac value | octet 18octet 23 |
| tsnCpeDmacVlanDownTagged value | octet 24 |
| tsnCpeDmacVlanDownVlan value | octet 25octet 26 |
| tsnCpeDmacVlanDownPriority value | octet 27 |
| tsnCpeDmacVlanUpDestMac value | octet 28octet 33 |
| tsnCpeDmacVlanUpTagged value | octet 34 |
| tsnCpeDmacVlanUpVlan value | octet 35octet 36 |
| tsnCpeDmacVlanUpPriority value | octet 37 |

Figure 9.8.5: tsnStreamIdParameters for tsnStreamIdIdentificationType = 00-80-C2 03

Table 9.8.1: Stream filter instance table

|  |
| --- |
| Value part of the Stream filter instance table information element (octets 4 to o) |
|  |
| Stream filter instance table contents (octets 4 to o)This field consists of zero or more Stream filter instances. |
|  |
| Stream filter instance (octets 4 to m) |
|  |
| Length of Stream filter instance contents (octet 4)Length of Stream filter instance contents contains the length of the value part of Stream filter instance in octets. |
|  |
| PrioritySpec value (octets 5to 8)PrioritySpec value contains the value of PrioritySpec as specified in IEEE Std 802.1Q [7] table 12-32. |
|  |
| StreamGateInstanceID value (octets 9 to 12)StreamGateInstanceID value contains the value of StreamGateInstanceID as specified in IEEE Std 802.1Q [7] table 12-32.tsnStreamIdIdentificationType value (octets 13 to 16)tsnStreamIdIdentificationType value contains the value of tsnStreamIdIdentificationType in the form of four octets as specified in IEEE Std 802.1CB [10] clause 9.1.1.6. The first 3 octets contain the binary encoding of Organizationally Unique Identifier (OUI) or Company ID (CID). The 4th octet contains the binary encoded value of type number. In this document only OUI/CID value 00-80-C2 with type number value 1, 2 and 3 are specified. Other type number values are reserved. Other OUI/CID values are outside the scope of the present document.tsnStreamIdParameters (octets 17 to m)Length of tsnStreamIdParameters (octet 17)Length of tsnStreamIdParameters contents contains the length of the value part of tsnStreamIdParameters in octets.tsnCpeNullDownDestMac value (octets 18 to 23)tsnCpeNullDownDestMac value contains the value of tsnCpeNullDownDestMac as specified in IEEE Std 802.1CB [10] clause 9.1.2.1.tsnCpeNullDownTagged value (octet 24)tsnCpeNullDownTagged value contains an enumerated value of tsnCpeNullDownTagged as specified in IEEE Std 802.1CB [10] clause 9.1.2.2 in the form of a binary encoded octet. Value “tagged” is encoded as binary 0, value “priority” is encoded as binary 1, and value “all” is encoded as binary 2. All other values are reserved.tsnCpeNullDownVlan value (octets 25 to 26)tsnCpeNullDownVlan value contains the value of tsnCpeNullDownVlan as specified in IEEE Std 802.1CB [10] clause 9.1.2.3.tsnCpeSmacVlanDownSrcMac value (octets 18 to 23)tsnCpeSmacVlanDownSrcMac value contains the value of tsnCpeSmacVlanDownSrctMac as specified in IEEE Std 802.1CB [10] clause 9.1.3.1. tsnCpeSmacVlanDownTagged value (octet 24)tsnCpeSmacVlanDownTagged value contains an enumerated value of tsnCpeSmacVlanDownTagged as specified in IEEE Std 802.1CB [10] clause 9.1.3.2 in the form of a binary encoded octet. Value “tagged” is encoded as binary 0, value “priority” is encoded as binary 1, and value “all” is encoded as binary 2. All other values are reserved.tsnCpeSmacVlanDownVlan value (octets 25 to 26)tsnCpeSmacVlanDownVlan value contains the value of tsnCpeSmacVlanDownVlan as specified in IEEE Std 802.1CB [10] clause 9.1.3.3.tsnCpeDmacVlanDownDestMac value (octets 18 to 23)tsnCpeDmacVlanDownDestMac value contains the value of tsnCpeDmacVlanDownDestMac as specified in IEEE Std 802.1CB [10] clause 9.1.4.1.tsnCpeDmacVlanDownTagged value (octet 24)tsnCpeDmacVlanDownTagged value contains an enumerated value of tsnCpeDmacVlanDownTagged as specified in IEEE Std 802.1CB [10] clause 9.1.4.2 in the form of a binary encoded octet. Value “tagged” is encoded as binary 0, value “priority” is encoded as binary 1, and value “all” is encoded as binary 2. All other values are reserved.tsnCpeDmacVlanDownVlan value (octets 25 to 26)tsnCpeDmacVlanDownVlan value contains the value of tsnCpeDmacVlanDownVlan as specified in IEEE Std 802.1CB [10] clause 9.1.4.3.tsnCpeDmacVlanDownPriority value (octet 27)tsnCpeDmacVlanDownPriority value contains the value of tsnCpeDmacVlanDownPriority as specified in IEEE Std 802.1CB [10] clause 9.1.4.4.tsnCpeDmacVlanUpDestMac value (octets 28 to 33)tsnCpeDmacVlanUpDestMac value contains the value of tsnCpeDmacVlanUpDestMac as specified in IEEE Std 802.1CB [10] clause 9.1.4.5.tsnCpeDmacVlanUpTagged value (octet 34)tsnCpeDmacVlanUpTagged value contains an enumerated value of tsnCpeDmacVlanUpTagged as specified in IEEE Std 802.1CB [10] clause 9.1.4.6 in the form of a binary encoded octet. Value “tagged” is encoded as binary 0, value “priority” is encoded as binary 1, and value “all” is encoded as binary 2. All other values are reserved.tsnCpeDmacVlanUpVlan value (octets 35 to 36)tsnCpeDmacVlanUpVlan value contains the value of tsnCpeDmacVlanUpVlan as specified in IEEE Std 802.1CB [10] clause 9.1.4.7.tsnCpeDmacVlanUpPriority value (octet 37)tsnCpeDmacVlanUpPriority value contains the value of tsnCpeDmacVlanUpPriority as specified in IEEE Std 802.1CB [10] clause 9.1.4.8. |

\*\*\* Next change \*\*\*

## 9.9 Stream gate instance table

The purpose of the Stream gate instance table information element is to convey a Stream gate instance table as defined in 3GPP TS 23.501 [2] table 5.28.3.1-1.

The Stream gate instance table information element is coded as shown in figure 9.9.1, figure 9.9.2, and table 9.9.1.

The Stream gate instance table is a type 6 information element with a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Stream gate instance table IEI | octet 1 |
| Length of Stream gate instance table contents | octet 2octet 3 |
| Stream gate instance 1 | octet 4\*octet a\* |
| … |  |
| Stream gate instance N | octet b\*octet c\* |

Figure 9.9.1: Stream gate instance table information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of Stream gate instance contents | octet 4octet 5 |
| StreamGateInstance | octet 6octet 9 |
| PSFPAdminBaseTime value | octet 10octet 19 |
| PSFPAdminCycleTime value | octet 20octet 27 |
| PSFPTickGranularity value | octet 28octet 31 |
| PSFPAdminControlListLength value | octet 32octet 33 |
| PSFPAdminControlList contents | octet 34octet a |

Figure 9.9.2: Stream gate instance

Table 9.9.1: Stream gate instance table

|  |
| --- |
| Value part of the Stream gate instance table information element (octets 4 to c) |
|  |
| Stream gate instance table contents (octets 4 to c)This field consists of zero or more Stream gate instances. |
|  |
| Stream gate instance (octets 4 to a) |
|  |
| Length of Stream gate instance (octets 4 to 5)Length of Stream gate instance contents contains the length of the vale part of Stream gate instance in octets. |
|  |
| StreamGateInstance value (octets 6 to 9)StreamGateInstance value contains the value of StreamGateInstance as specified in IEEE Std 802.1Q [7] table 12-33. |
|  |
| PSFPAdminBaseTime value (octets 10 to 19)PSFPAdminBaseTime value contains the value of PSFPAdminBaseTime as specified in IEEE Std 802.1Q [7] table 12-33. |
|  |
| PSFPAdminCycleTime value (octets 20 to 27)PSFPAdminCycleTime value contains the value of PSFPAdminCycleTime as specified in IEEE Std 802.1Q [7] table 12-33. |
|  |
| PSFPTickGranularity value (octets 28 to 31)PSFPTickGranularity value contains the value of PSFPTickGranularity as specified in IEEE Std 802.1Q [7] table 12-33. |
|  |
| PSFPAdminControlListLength value (octets 32 to 33)PSFPAdminControlListLength value contains the value of PSFPAdminControlListLength as specified in IEEE Std 802.1Q [7] table 12-33. |
|  |
| PSFPAdminControlList contents (octets 34 to a)This field contains the concatenation of entries, each encoded as a PSFPGateControlEntry as specified in IEEE Std 802.1Q [7] table 12-33. PSFPAdminControlListLength value indicates number of entries in this field. |
|  |

\*\*\* Next change \*\*\*

## 9.10 DS-TT port neighbor discovery configuration for DS-TT ports

The purpose of the DS-TT port neighbor discovery configuration for DS-TT ports information element is to convey DS-TT port neighbor discovery configuration for DS-TT ports as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2.

The DS-TT port neighbor discovery configuration for DS-TT ports information element is coded as shown in figure 9.10.1, figure 9.10.2 and table 9.10.1.

The DS-TT port neighbor discovery configuration for DS-TT ports information element has a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| DS-TT port neighbor discovery configuration for DS-TT ports IEI | octet 1 |
| Length of DS-TT port neighbor discovery configuration for DS-TT ports contents | octet 2octet 3 |
| DS-TT port neighbor discovery configuration for DS-TT ports instance 1 | octet 4\*octet x\* |
| … |  |
| DS-TT port neighbor discovery configuration for DS-TT ports instance n | octet y\*octet z\* |

Figure 9.10.1: DS-TT port neighbor discovery configuration for DS-TT ports information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of DS-TT port neighbor discovery configuration for DS-TT ports instance | octet 4octet 5 |
| DS-TT port number value | octet 6octet 7 |
| lldpV2LocPortIdSubtype value | octet 8 |
| Length of lldpV2LocPortId value | octet 9 |
| lldpV2LocPortId value | octet 10octet x |

Figure 9.10.2: DS-TT port neighbor discovery configuration for DS-TT ports instance

Table 9.10.1: DS-TT port neighbor discovery configuration for DS-TT ports

|  |
| --- |
| Value part of the DS-TT port neighbor discovery configuration for DS-TT ports information element (octets 4 to z) |
|  |
| DS-TT port neighbor discovery configuration for DS-TT ports contents (octets 4 to z)This field consists of zero or more DS-TT port neighbor discovery configuration for DS-TT ports instances. |
|  |
| DS-TT port neighbor discovery configuration for DS-TT ports instance (octets 4 to x) |
|  |
| Length of DS-TT port neighbor discovery configuration for DS-TT ports instance (octets 4 to 5)Length of DS-TT port neighbor discovery configuration for DS-TT ports instance contains the length of the vale part of DS-TT port neighbor discovery configuration for DS-TT ports instance in octets.  |
|  |
| DS-TT port number value (octets 6 to 7)DS-TT port number value contains the value of Port Number as specified in IEEE Std 802.1Q [7]. |
|  |
| lldpV2LocPortIdSubtype value (octet 8)lldpV2LocPortIdSubtype value contains the value of lldpV2LocPortIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.3.2. |
|  |
| Length of lldpV2LocPortId value (octet 9)Length of lldpV2LocPortId value contains the binary coded length in octets of lldpV2LocPortId value. |
|  |
| lldpV2LocPortId value (octets 10 to x)lldpV2LocPortId value contains the value of lldpV2LocPortId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.3.3. |
|  |

\*\*\* Next change \*\*\*

## 9.11 Discovered neighbor information for DS-TT ports

The purpose of the Discovered neighbor information for DS-TT ports information element is to convey Discovered neighbor information for DS-TT ports as defined in 3GPP TS 23.501 [2] table 5.28.3.1-2.

The Discovered neighbor information for DS-TT ports information element is coded as shown in figure 9.11.1, figure 9.11.2 and table 9.11.1.

The Neighbor discovery information information element has a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Discovered neighbor information for DS-TT ports IEI | octet 1 |
| Length of Discovered neighbor information for DS-TT ports contens | octet 2octet 3 |
| Discovered neighbor information for DS-TT ports instance 1 | octet 4\*octet x\* |
| … |  |
| Discovered neighbor information for DS-TT ports instance n | octet y\*octet z\* |

Figure 9.11.1: Discovered neighbor information for DS-TT ports information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of Discovered neighbor information for DS-TT ports instance | octet 4octet 5 |
| DS-TT port number value | octet 6octet 7 |
| lldpTTL value | octet 8octet 9 |
| lldpV2RemChassisIdSubtype value | octet 10 |
| Length of lldpV2RemChassisId value | octet 11 |
| lldpV2RemChassisId value | octet 12octet a |
| lldpV2RemPortIdSubtype value | octet a+1 |
| Length of lldpV2RemPortId value | octet a+2 |
| lldpV2RemPortId value | octet a+3octet x |

Figure 9.11.2: Discovered neighbor information for DS-TT ports instance

Table 9.11.1: Discovered neighbor information for DS-TT ports

|  |
| --- |
| Value part of the Discovered neighbor information for DS-TT ports information element (octets 4 to z) |
|  |
| Neighbor discovery information contents (octets 4 to z)This field consists of zero or more Neighbor discovery information instances. |
|  |
| Neighbor discovery information instance (octets 4 to x) |
|  |
| Length of Discovered neighbor information for DS-TT ports instance (octets 4 to 5)Length of Discovered neighbor information for DS-TT ports instance contains the length of the vale part of Discovered neighbor information for DS-TT ports instance in octets.  |
|  |
| DS-TT port number value (octets 6 to 7)DS-TT port number value contains the value of Port Number as specified in IEEE Std 802.1Q [7]. |
|  |
| lldpTTL value (octets 8 to 9)lldpTTL value contains the value of TTL as specified in IEEE Std 802.1AB [6] clause 8.5.4. |
|  |
| lldpV2RemChassisIdSubtype value (octet 10)lldpV2RemChassisIdSubtype value contains the value of lldpV2RemChassisIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.2.2. |
|  |
| Length of lldpV2RemChassisId value (octet 11)Length of lldpV2RemChassisId value contains the binary coded length in octets of lldpV2RemChassisId value. |
|  |
| lldpV2RemChassisId value (octets 12 to a)lldpV2RemChassisId value contains the value of lldpV2RemChassisId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.2.3. |
|  |
| lldpV2RemPortIdSubtype value (octet a+1)lldpV2RemPortIdSubtype value contains the value of lldpV2RemPortIdSubtype as specified in IEEE Std 802.1AB [6] clause 8.5.3.2. |
|  |
| Length of lldpV2RemPortId value (octet a+2)Length of lldpV2RemPortId value contains the binary coded length in octets of lldpV2RemPortId value. |
|  |
| lldpV2RemPortId value (octets a+3 to x)lldpV2RemPortId value contains the value of lldpV2RemPortId in the form of an octet string as specified in IEEE Std 802.1AB [6] clause 8.5.3.3. |
|  |

\*\*\* End change \*\*\*