IEEE P802.11  
Wireless LANs

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| Proposed Draft Text for  TID-to-Link Mapping element | | | | |
| Date: 2021-03-24 | | | | |
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Abstract

This submission proposes draft text for TID-to-Link Mapping element.

Revisions:

* Rev 0: Initial version of the document.

***Editing instructions formatted like this are intended to be copied into the TGbe Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbe Editor: Editing instructions preceded by “TGbe Editor” are instructions to the TGbe editor to modify existing material in the TGbe draft. As a result of adopting the changes, the TGbe editor will execute the instructions rather than copy them to the TGbe Draft.***

***TGbe Editor: Insert the following new subclause in 9.4.2 as follows:***

9.4.2.295xx TID-to-Link Mapping element

The TID-to-Link Mapping element is shown in Figure 9-788el (TID-to-Link Mapping element format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | Element ID Extension | TID-to-Link Mapping Control | TID-to-Link Mapping Information |
| Octets: | 1 | 1 | 1 | 1 | variable |

Figure 9-788el – TID-to-Link Mapping element format

The Element ID, Length, and Element ID Extension fields are defined in 9.4.2.1 (General).

The TID-to-Link Mapping Control field is shown in Figure 9-788em (TID-to-Link Mapping Control field format).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Direction | TID-to-Link Mapping Request | TID-to-Link Mapping Negotiation Type | Default Mapping | Reserved |
| Bits: | 2 | 1 | 3 | 1 | 1 |

Figure 9-788em – TID-to-Link Mapping Control field format

The Direction subfield indicates the direction of data to which the TID-to-Link mapping applies for all links indicated in the TID-to-Link Mapping information field. The encoding of the Direction subfiled is shown in Table 9-158 (Direction subfield encoding).

A STA that transmits the TID-to-Link Mapping element with the TID-to-Link Mapping Request subfield equal to 1 is a TID-to-Link mapping initiator. Otherwise, it is a TID-to-Link mapping responder.

The TID-to-Link Mapping Negotiation Type subfield is encoded as shown in Table 9-322ao.

**Table 9-322ao – TID-to-Link Mapping Negotiation Type subfield values**

|  |  |
| --- | --- |
| TID-to-Link Mapping Negotiation Type subfield value | Meaning |
| 0 | Suggest TID-to-Link Mapping.  A TID-to-Link mapping initiator request to establish a TID-to-Link mapping, and specifies a suggested TID-to-Link mapping.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 1. |
| 1 | Demand TID-to-Link Mapping.  A TID-to-Link mapping initiator request to establish a TID-to-Link mapping, and specifies a demanded TID-to-Link mapping.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 1. |
| 2 | Accept TID-to-Link Mapping.  A TID-to-Link mapping responder accepts the TID-to-Link mapping request indicated in the TID-to-Link mapping element transmitted by the TID-to-Link mapping initiator.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 0. |
| 3 | Alternate TID-to-Link Mapping.  A TID-to-Link mapping responder suggests a TID-to-Link mapping that is different from the one suggested by the TID-to-Link mapping initiator.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 0. |
| 4 | Dictate TID-to-Link Mapping.  A TID-to-Link mapping responder indicates a TID-to-Link mapping that is different from the one suggested by the TID-to-Link mapping initiator.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 0. |
| 5 | Reject TID-to-Link Mapping.  A TID-to-Link mapping responder rejects the TID-to-Link mapping requested by the TID-to-Link mapping initiator.  Only applicable when the TID-to-Link Mapping Request subfield is equal to 0. |
| 6-7 | Reserved |

The Default Mapping subfield is set to 1 to indicate that all TIDs are mapped to all setup links. Otherwise, it is set to 0.

The TID-to-Link Mapping Information field is only present when the Default Mapping subfield is set to 0. Otherwise, it is not present. If present, the TID-to-Link Mapping Information field is shown in Figure 9-788en (TID-to-Link Mapping Information field format).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Link Profile | … | Link Profile |
| Octets: | 1 or 2 |  | 1 or 2 |

Figure 9-788en – TID-to-Link Mapping Information field format

The Link Profile subfield is shown in Figure 9-788e0 (Link Profile subfield format).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Link ID | Disable | Reserved | TID Bitmap |
| Bits: | 4 | 1 | 3 | 0 or 8 |

Figure 9-788eo – Link Profile subfield format

The Link ID subfield indicates the link that the TID-to-Link mapping applies to.

The Disable subfield is set to 1 if no TID is mapped to the link indicated in the Link ID subfield. Otherwise, it is set to 0.

The TID Bitmap subfield is only present when the Disable subfield is set to 0. Otherwise, it is not present. If present, the TID Bitmap subfield indicates whether the frames of one or more TIDs that can be exchanged on the link indicated in the Link ID subfield. A value of 1 in the bit position i of the TID Bitmap subfield means that the frames of TID i can be exchanged on the link indicated in the Link ID subfield. A value of 0 1 in the bit position i of the TID Bitmap subfield means that the frames of TID i can not be exchanged on the link indicated in the Link ID subfield.

**Straw Poll: Do you support to incorporate the proposed draft text in this document 11-21/XXXXr0 to the next revision of TGbe Draft 0.4?**

**Result: Yes/No/Abstain**