<< Editor's note: The following is text, tables, and figures that should be substituted for 802.1Qbg D1.2 subclause 42.2.2 as agreed in the 11/2/10 weekly phone conference. Features supported by this change are:

- 1) VID value can be supplied on VDP Rsp when Bridge allocates VID values;
- 2) GroupID is a global identifier for a Service Instance. The Service Instance may be associated with a different local VID value (for example, in each rack) in which the Service Instance is present. The GroupID need not be specified when the Service Instance is known by a single VID value throughout the network. The GroupID can be specified on the VDP Associate Req or Rsp;
- 3) The TLV fields that were previously identified as 'MAC/VLAN format' and 'MAC/VLANs' are now known as 'filter format' and 'filter'.
- 4) Exactly two 'filter formats' are defined (MAC/VID and VID) but other 'filter formats' may be defined in the future that are unrelated to MAC and/or VID;
- 5) There is only one 'filter' value specified per VSI (ie., per TLV); that is, there is not a list of 'filter' values as was previously specified;
- The distinction between 'Basic' and 'Partial' MAC/VID formats is no longer needed.

>>

42.2.2 VDP TLV definition

The VDP TLV is used for discovery and configuration and is exchanged between the Station and the EVBCB. One or more VDP TLVs are transported in an ECPDU. Figure 42-1 illustrates the format of the VDP TLV.

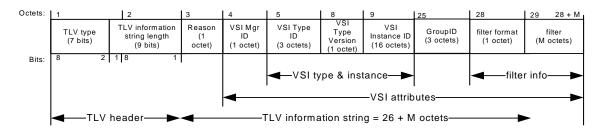


Table 42-1—VDP TLV

The VDP TLV field definitions are contained in 42.2.2.1 through 42.2.2.8. The semantics of the VDP TLV types are defined in 42.2.3.

42.2.2.7 GroupID

The GroupID is a global identifier that refers to the VLAN associated with the VSI specified in the VDP TLV. Use of the GroupID allows Bridges in a region of the network (e.g., in a rack) to reference a VLAN using a VID value that is local to that region. This allows the data center network to support a total number of VLANs greater than the approximately 4K VLANs that could be supported if VID values were global with respect to the data center. Support for more than 4K VLANs in the data center is useful when supporting Cloud Services.

42.2.2.8 Filter format

The filter format specifies the format of the filter field (42.2.2.8). The formats defined by this standard are shown in Table 42-2. When the value 0 is supplied for a field within the filter (e.g., when the value of the

MAC or VID is zero in a filter of type MAC/VID) on a VDP Request, then the VDP Response may supply a non-zero value for that field.

Table 42-2—Filter format values

Filter format	Value
MAC/VLAN	0x00
VLAN	0x01
Reserved for future standardization	0x02 through 0xFF

In the case that a VID value of 0 is specified in the filter field of a VDP Request or if no filter information is specified by the VDP Request, the Bridge can compute the value of the VID supplied on the VDP Response as follows:

- a) If the GroupID field value of the VDP Request is non-zero, then the Bridge derives the value of the VID from a GroupID-to-VID mapping for the local network region; else
- b) If the VSI-Type specified by the VTID carried by the VDP Request specifies the value of the VID, then this value can be supplied in the VDP Response; else
- c) If the VSI-Type specified by the VTID carried by the VDP Request specifies the value of the GroupID, then the Bridge derives the value of the VID from a GroupID-to-VID mapping for the local network region; else
- d) the Bridge has no means to identify the VID to be supplied on the VDP response. The VDP response is sent with reason value 0x03 (other failure).

42.2.2.8.1 MAC/VID filter format

The MAC/VID filter format specifies one MAC Address and one VID to be associated with the VSI Instance (42.2.2.6). Figure 42-1 illustrates the MAC/VID filter format of the filter field.

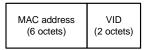


Figure 42-1—MAC/VID filter format

42.2.2.8.2 VID filter format

The VID filter format specifies one VID to be associated with the VSI Instance (42.2.2.7). Figure 42-1 illustrates the VID filter format of the filter field.

Figure 42-2 illustrates the format of the filter field for the VID filter format.



Figure 42-2—VID filter format

The VID field is permitted to contain a "wildcard" VID value, indicated by the value 0xFFF. If this VID value is present in the VID field, its meaning is interpreted as "All VLANs".

NOTE—The intent of the "All VLANs" VID is to identify that this VSI profile is a default profile for the port.