

<< This document illustrates the changes that would be necessary to support VID assignment by the bridge communicated to the server on a VDP Response. >>

**42.2.2 7MAC/VLAN format**

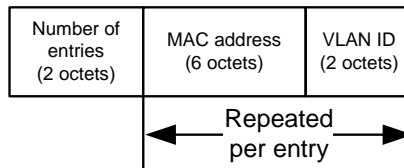
The MAC/VLAN information format determines the format of the MAC/VLANs field (42.2.2.8). The formats defined by this standard are shown in Table 42-2.

**Table 42-2—MAC/VLAN format values**

MAC/VLAN format	Value
Basic MAC/VLAN format ()	0x00
Partial MAC/VLAN format ()	0x01
VLAN-only MAC/VLAN format ()	0x02
GroupName format	0x03
GroupName/VID format	0x04
MAC/GroupName format	0x05
MAC/GroupName/VID format	0x06
Reserved for future standardization	0x07 through 0xFF

**42.2.2.8 MAC/VLANs field - Basic MAC/VLAN format**

The MAC/VLANs field contains one or more MAC address/VID pairs to be associated with the VSI Instance (42.2.2.6).



**Figure 42-2—MAC/VLANs field structure for basic and partial formats**

NOTE—The bridge uses MAC address/VID pairs to identify traffic from a VSI and to filter frames.

Figure 42-2 illustrates the format of the MAC/VLANs field for the basic MAC/VLAN format.

**42.2.2.8.1 Number of entries**

This 2-octet field defines the number of MAC address/VLAN ID pairs contained in the repeated portion of the MAC/VLANs field.

1 **42.2.2.8.2 Per MAC address/VLAN ID pair**

2  
 3 **MAC address:** A 48 bits MAC address.

4  
 5 **VID:** A 12 bit VID value. A VID value of 0 indicates that the VID is unknown to the station; this is  
 6 used as a signal to the EVBCB that the station is expecting to receive the MAC/VLAN ID pair  
 7 assignment from it. The EVBCB assigns the VLAN ID based on the VSI type ID or VSI instance ID  
 8 from the relevant database and replies to the station with the corresponding MAC/VLAN ID(s) in a  
 9 VDP TLV with a reason code of Success.

10 **GroupName:** A 32-octet (for example) string specifying the name by which a Service Instance is  
 11 known throughout the scope of the data center. The GroupName is required in cases where different  
 12 VID values represent the same Service Instance in different regions of the data center as would  
 13 generally be the case when a backbone is deployed. .

14  
 15  
 16 << Editor's Note: The variables described above apply to *all* of the MAC/VLAN field formats, not just the  
 17 'basic format'. These should be pulled into a subclause at a higher level than those describing the individual  
 18 formats. >>

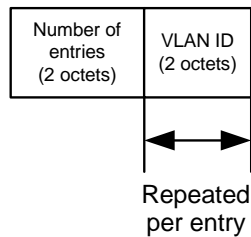
19  
 20 **42.2.2.9 MAC/VLANs field - Partial MAC/VLAN format**

21  
 22  
 23 The interpretation of the MAC/VLANs field for the partial MAC/VLAN format is identical to the basic  
 24 MAC/VLAN format, except that the station does not know all of the MAC address/VID pairs that are  
 25 associated with the VSI, and therefore the set of MAC address/VID pairs can be incomplete.

26  
 27 **42.2.2.10 MAC/VLANs field - VLAN-only MAC/VLAN format**

28  
 29  
 30 The MAC/VLANs field contains one or more VIDs to be associated with the VSI Instance (42.2.2.6).

31  
 32 Figure 42-3 illustrates the format of the MAC/VLANs field for the VLAN-only MAC/VLAN format. The  
 33 field definitions are as specified in 42.2.2.8.1 and 42.2.2.8.2.



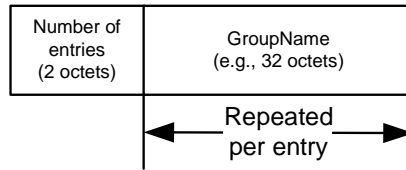
34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44 **Figure 26-3—MAC/VLANs field structure for VLAN-only format**

45  
 46  
 47 The VLAN ID field is permitted to contain a “wildcard” VID, indicated by the value 0xFFFF. If this VID is  
 48 present in the VLAN ID field, its meaning is interpreted as “All VLANs”.

49  
 50 **42.2.2.11 MAC/VLANs field - GroupName format**

51  
 52  
 53 The MAC/VLANs field contains one or more GroupNames to be associated with the VSI Instance  
 54 (42.2.2.6).

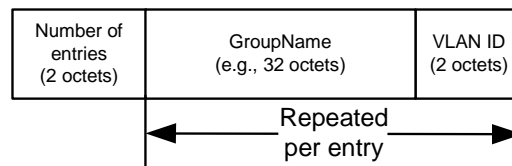
Figure 42-3 illustrates the GroupName format. The field definitions are as specified in 42.2.2.8.1 and 42.2.2.8.2.. This format is used in a VDP Associate Request when VID's values are assigned by the Bridge based on GroupName values supplied by the Server.



**Figure 26-4—GroupName format**

**42.2.2.12 MAC/VLANs field - GroupName/VID format**

The MAC/VLANs field contains one or more GroupName/VID pairs to be associated with the VSI Instance (42.2.2.6).



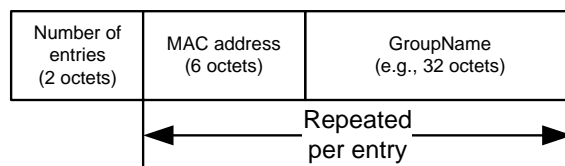
**Figure 26-5—GroupName/VID format**

Figure 42-3 illustrates the GroupName/VID format. The field definitions are as specified in 42.2.2.8.1 and 42.2.2.8.2. This format is used in a VDP Associate Response when the VID's values are assigned by the Bridge based on GroupName values supplied by the Server in the VDP Associate Request.

**42.2.2.13 MAC/VLANs field - MAC/GroupName format**

The MAC/VLANs field contains one or more MAC/GroupName pairs to be associated with the VSI Instance (42.2.2.6).

Figure 42-3 illustrates the MAC/GroupName format. The field definitions are as specified in 42.2.2.8.1 and 42.2.2.8.2. This format is used in a VDP Associate Request when VID's values are assigned by the Bridge based on GroupName values supplied by the Server.



**Figure 26-6—MAC/GroupName format**

#### 42.2.2.14 MAC/VLANs field - MAC/GroupName/VID format

The MAC/VLAN field contains one or more MAC/GroupName/VID triples to be associated with the VSI Instance (42.2.2.6).

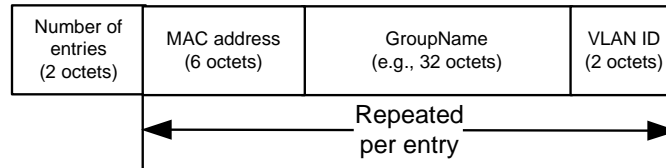


Figure 42-3 illustrates the MAC/GroupName/VID format. The field definitions are as specified in 42.2.2.8.1 and 42.2.2.8.2. This format is used in a VDP Associate Response when the VIDs values are assigned by the Bridge based on GroupName values supplied by the Server in the VDP Associate Request.