IEEE P802.11  
Wireless LANs

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| Proposed Change to P802.11ak\_D0.06 Regarding Portals | | | | |
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Abstract

This document contains a proposed change to the text in clause 4 of the P802.11ak draft D0.06 pertaining to portals. This change is pursuant to discussion of the integration service at the Joint Meeting between 802.11ak, 802.1Qbz, 802.1AC, and ARC during the January 2015 Interim Session.

**4.3.7 Integration with wired LANs**

To integrate the IEEE Std 802.11 non-GLK architecture with a non-IEEE Std 802.11 LAN, including a traditional wired LAN, a final *logical* architectural component is introduced—a *portal*. In the GLK 802.11 architecture the portal function is used strictly to provide integration on behalf of non-GLK STAs under constraints discussed in 4.3.23.

**4.3.23.1 General**

GLK STAs establish links with other GLK STAs that are suitable to be used as a transit link inside an IEEE Std 802.1Q conformant network insofar as the capabilities of IEEE 802.11 permit.

A GLK STA provides an ISS SAP to an IEEE 802.1Q bridge for each peer GLK STA with which it is communicating.

A GLK STA that starts a BSS uses membership selector values in the Supported Rates and BSS Membership Selectors IE to set the BSS policy of requiring or not requiring GLK or EPD support for each member of the BSS.

Every non-AP STA acts as either a GLK STA or a non-GLK STA. A GLK AP may permit associations from non-GLK non-AP STAs and acts as a non-GLK AP for those associated non-GLK non-AP STAs. The DS used with GLK APs is constrained either to have not more than one portal connecting to the 802.1Q conformant bridged network or to use a distributed portal function that performs all integration service data transfers via the 802.1Q conformant bridged network.

The four address frame format (with both From DS and To DS set to 1) may be used in GLK transmissions of data MPDUs. The use of the four address frame format is required for such MPDUs if the SA, TA, RA, and DA are all different from each other. The three address frame format may be used if SA equals TA and/or RA equals DA as described in clause 8.3.2.1.

As described in clause 4.3.23.3, in a data MPDU transmitted between GLK STAs that has a group address RA, the RA will be a SYNRA and therefore not equal the DA; a non-AP GLK STA supports selective reception of group addressed MPDUs using SYNRA.