IEEE P802.11  
Wireless LANs

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| GLK Architecture Drawings (Visio) | | | | |
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Abstract

This document contains the GLK Architecture drawings for figures 4.13a, 4.13b, and 4.13c.

The base line figures included in this document were supplied by Philippe Klein (Broadcom) via e-mail corispondance to several interested members of the 802.11 TGak. The file name “Fig 4-13c – 170710a.vsd” and is attached to this document.

R1- based on discussion at the 802.11 TGak meeting on Wednesday, 12 July 2017, as recorded in the agenda and minutes several changes to the diagram were proposed. This document attempts to update the drawings as agreed at the meeting.

Attached Visio File:



Visio file name “Fig 4-13c – 170710a.vsd” as provided by Philipe Klein (Broadcom)

Figures from visio file name “Fig 4-13c – 170710a.vsd” as provided by Philipe Klein (Broadcom)



Figure 4-13a



Figure 4-13b



Figure 4-13c

Agreeed changes from the discussion held at the 802.11 TGak F2F meeting on 12 July 2017, PM2. As provided in [1] and [2]:

From [1], page 7:

“Reviewed 11-17/1140, proposed updated figures for Fig 4-13a, 4-13b and 4-13c. Suggested changes:

1. There should be a 1-1 mapping between all EISS/ISS pair connections. (That is, create more EISS SAPs in 4-13a, 4-13b, 4-13c.
2. “MAC Relay Function” should be “MAC Relay Entity” throughout
3. On Figure 4-13c, flip the left two non-AP STAs of the center BSS (the LLC sublayer one and the 802.1Q MAC Relay Function one), and then extend the 802.1Q MAC Relay Function (sic) of the now left non-AP STA to merge with the 802.1Q MAC Relay Function of the right-most non-AP STA in the left BSS. This is just to illustrate a single bridge with multiple GLK links coming into it, somewhere.
4. Slight preference to always have “jogs” in the lines between the MS-SAP and the multiple ISSs (when there are multiple) though the GLK CF. This reinforces the many-to-one mapping occurring in the GLK CF.
5. Per 802.1Q, between the ISS and the EISS is a “Media access method independent function”, but that is a really long phrase. Let’s call it “802.1Q media independent function” as a shorthand.
6. On 4-13c, the leftmost media independent function is not tall enough, so the LLC Sublayer is not “above” the MAC layer (compared to the top of the 802.1Q MAC Relay Function).
7. In 4-13c, the Portal (on the legacy DS) is not right. Let’s just make it one box, labelled “Portal”. We don’t need to get the legacy connections including 802.1 concepts all correct here – we can focus on GLK stuff.
8. On the leaf node stacks, there is no 802.1Q media independent function, because that function is used to support an EISS. We can’t find a name for the box that converts between an ISS and MAC SAP, in 802.1AC. Seems like a gap. 802.1AC does say that this is a simple subseting, from the ISS to the MAC SAP, but that seems to be the only description of this box.”

Note: all changes were made except 5, as the figure does not seem to have any issues with including the longer, complete name “802.1Q Media Access Independent Function”.



Visio file name “Fig 4-13c – 170713.vsd”



Figure 4-13a



Figure 4-13b



Figure 4-13c

**References:**

1. **802.11ak July 2017 Minutes (**[**https://mentor.ieee.org/802.11/dcn/17/11-17-1106-02-00ak-802-11ak-july-2017-minutes.doc**](https://mentor.ieee.org/802.11/dcn/17/11-17-1106-02-00ak-802-11ak-july-2017-minutes.doc)**)**
2. **July 2017802.11ak Agenda (**[**https://mentor.ieee.org/802.11/dcn/17/11-17-0859-04-00ak-july-2017-802-11ak-agenda.pptx**](https://mentor.ieee.org/802.11/dcn/17/11-17-0859-04-00ak-july-2017-802-11ak-agenda.pptx)**)**