IEEE P802.11
Wireless LANs

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Abstract

This document contains the meeting minutes of the IEEE 802.11ak TGak Group teleconference on 2013-04-22.

Teleconference from 05:00 pm EDT to 06:00 pm EDT

April 22, 2013

Co-Chaired by Donald Eastlake (Huawei) and Norm Finn (Cisco).

Notes taken by Yan Zhuang.

Call for patents by Norm Finn (Cisco): No response.

Mark Hamilton (SpectraLink) presented document 13-0427r0 “Intro to Distribution Service concepts”

Comments on “ESS network”:

The key part of this is when STAs move in the ESS, it will not change any up layer stuff, which means it is transparently to LLC.

Comments on “message distribution within the DS”:

Mark Hamilton: Actually, in the current standard, how the message is distributed is not specified.

Norman Finn: To make things move from AP to AP easily, is there any 802.11 standard that talks about that?

Mark Hamilton: No standard to do that now.

Norman Finn: Good, so we will not break anything.

Philippe Klein: Is 802.11F tryting to do that?

Mark Hamilton: Yes, F attempted to do that, but it did not succeed.

Joseph Levy: It (AP to AP) is not specified directly, but there are many implementations existing.

Norman Finn: if not specify any handover, then I will not bring anything to specify it.

Comments on “Distribution SAP”:

How to keep and update that mapping is unspecified.

Is that mapped to ISS?

Not sure. Kinda medium indpendant interface to 802.1AC. This converge function is to provide what the underlay is like.

It is the portal that provides this interface.

Comments on “integration service vs. bridging”:

Mark Hamilton: We do not have to do all the things, but just necessary ones, left enough space for implementation.

Norman Finn: You can implement DS as a bridge but not have to.

Mark Hamilton: Yes.

Norman Finn: What I mentioned about AP to AP link, is a link nothing to do with DS. It’s both fine whether your DS wants or not to use it. If you have two APs from different vendors, then in order to support interoperation between them, it’s necessary to provide some mechanisms for handover. The bridge cannot depend on the DS, because it’s not defined. We can define such a link and offer the DS an access to use it.

Philippe Klein: Does the AP communicate directly with the bridge or through the portal? If there is VLAN information, is the DS transparent to that?

Norman Finn: We can define the mapping in later discussion.

Norman Finn: Our definitions of data plane and control plane are without any reference to DS anyway. But they can provide interfaces and resources to DS, if DS wants to use them.

Mark Hamilton: Then how to make non-AP STA bridged to outside networks? Regarding the AP-to-AP link, what’s new there for us to do?

Mark Hamilton: We’d better focuse on how to make non-AP STA bridged, and would not want to modify the DS.

Norman Finn: We do not have to make reference to the DS/portal to define the bridging.

Mark Hamilton: We can still support DS and portal concepts and accomadate the concepts proposed during the bridging work.

Norman Finn/Philippe Klein: Yes.

Philippe Klein: Although it is not defined in the standard, is there any requirement in reality on the DS, like the performance of handover, reserving IP, or other requirements?

Mark Hamilton: It’s a case-by-case thing, depending on applications, whether what are you doing with it and how is acceptable.

Comments on “DS implementaion”:

We should better define the risks and make no change to the original network topology. If there is a non-AP STA connecting to the bridge, then it might ask some time for configrating the costs, however, it will not impact users that do not use the bridge function.

Comments on next step:

Norman Finn: In the interim meeting, present a draft of 802.1Q document to 802.1 people. And ask them to decide how much to do with 802.1Q. The 802.1 and 802.11 interim meetings are in different locations, let’s keep in touch by email reflector.

Donald Eastlake: I will bring a presentation next teleconference.

**Attendees (alphabetical):**

 Bruce Kraemer (Marvell)

Carl Kain

Chris Hansen

 Chris Williams (Ericsson)

Dan Romascanu (Avaya)

David Goodall (Broadcom)

Donald Eastlake (Huawei)

Ed Reuss (Signal Share)

Jeremy Touve

Joseph Levy (InterDigital)

Ken Boehlke

Mark Gravel (HP)

Mark Hamilton (SpectraLink)

Mitsuru Iwaoka (Yokogawa Electric Co.)

Norman Finn (Cisco System)

Pat Thaler (Broadcom)

Philippe Klein (Broadcom)

Rick Muerphy

Stephen Haddock

Yan Zhuang (Huawei)