IEEE P802.11
Wireless LANs

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| 11ak Telecon Minutes 2013-01-28 |
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Abstract

This document contains the meeting minutes of the IEEE 802.11ak TGak Group teleconference on 2013-01-28.

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

January 28, 2013

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

Notes taken by Yan Zhuang.

Call for patents by Donald Eastlake: No response.

Philippe Klein (Broadcom) presented document **13/0184r1 “CSN & 802.11 BSS Bridging”**

Philippe: It provides several ideas for different models, but not a special solution. We should also consider wireless link metrics needed for bridge function.

Donald Eastlake (Huawei) presented document **13/0185r0 “Problems to be solved by 802.11ak/802.1Qbz”.**

Norman Finn (Cisco): The reflection problem is a subset problem. And problem 4 has two problems, while mapping is one of them.

Norm: If an AP has multiple SSIDs, how many queues are there?

Response: There tend to be 4 queues per SSID for the 4 ACs.

Bruce Kraemer (Marvell): Which of these problems are critical? Which are nice to add, but not critical? We should differentiate devices and protocols. Mapping QoS from .1 to .11, we should differentiate between the critical and be nice to add.

Norm: think all the problems have to be solved or you get nothing. But there are Cadillac [fancy, expensive] soltuions and Ford [simple, cheap] solutions. For example, some solutions might require more copies of a frame to be transmitted by an AP, such as serial unicast, while other solutions might transmit one copy, saving bandwidth, but be more complex in other ways. It is how efficient that we use our resources. Whether bridge is in an AP or outside AP is an implementation issue.

Pat Thaler (Broadcom): There may be no perfect cost solution, but we only want a good cost solution. Possible we could get away without providing per port VLAN mapping. But we clearly have to support selective VLAN tag stripping.

Bruce: Cannot avoid these questions? Are QoS and queueing critical? Actually, radio resource has its own queuing mechanism.

Norm: Bridges have all kinds of queues in them but the 802.1 standard is carefully ambiguous about some aspects of queueing to encompass a variety of implementation strategies. We should maintain that flexibility in 802.11.

Norman: How to get QoS work? How do you get specification? An AP is not the same as bridge, so the issue is what kind of Qo S802.11 can offer.

Donald: I will revise this document [13/185r0] based on these discussions but I’m sure the result will be unsatisfactory and require further work.

Philppe Klein (Broadcom): I will bring a presentation about 802.11 QoS/queueing.

Donald was tracking attendees for this teleconference and has the information about attendees displayed by WebEx. If you think he may not know you attended or, particularly, if you think he might not know you affilication, please send Donald email.

Meeting adjourned at 6pm.

**Attendees:**

Donald Eastlake (Huawei)

Norm Finn (Cisco)

Philippe Klein (Broadcom)

Bruce Kraemer (Marvell)

Dan Romascanu (Avaya)

Jeff Caitlin

Jeremy Touve

Ken Boehike

Mark Gravel (HP)

Mark Hamilton (SpectraLink)

Mitsuru Iwaoka (Yokogawa Electric Co.)

Pat Thaler (Broadcom)

Wenjing Chu (Dell)

Yan Zhuang (Huawei)

Yonggang Fang (ZTE)