

Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: [Report on VHT60 to 802.15 WG]

Date Submitted: [July 17, 2008]

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Abstract:[Report on VHT60 to 802.15 WG]

Purpose:[]

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TG3c's Concerns and Suggestions on VHT60 PAR

July 17, 2008

Reed Fisher

Chair, TG3c

Suggestions made to EC and 802.11 WG on July 15, 2008 (1/2)

- 1) In PAR scope, change "Address coexistence with other systems in the band" to be "Address coexistence with 802.15.3c and other systems in the band"
- 2) Change PAR item 7.1 from "no" to "yes" and list 802.15.3c because it has a similar scope.
- 3) Add to PAR scope "The standard specifies a channel plan that is compatible with 802.15.3c."
- 4) Add to PAR scope "Compliant STAs and APs shall be able to identify the 802.15.3c common mode for the purpose of detecting and avoiding mutual interference."
- 5) Add to the PAR scope "The amendment shall support all of the currently approved 802.11 management functions."

Suggestions (2/2)

- 6) Suggest VHT60 adopt the three PHYs developed in TG3c and work on a MAC amendment.

- 7) Modify the PAR to show significant differences in scope, in terms of data rate and range from 802.15.3c.

Old(11-08/223r5) and New VHT60 PAR(11-08/880r0) Comparison

Found “No Change” in

- Scope
- Purpose
- Similarity

Old and New PAR Comparison

OLD: 5.2 Scope of Proposed Standard

The scope of this project is to define an amendment that shall define standardized modifications to both the 802.11 physical layers (PHY) and the 802.11 Medium Access Control Layer (MAC) to enable operation in the 60 GHz frequency band (typically 57-66 GHz) capable of very high throughput. The MAC and PHY specified in this amendment:

- Enable a maximum throughput of at least 1 Gbps, as measured at the MAC data service access point (SAP)
- Enable fast session transfer between PHYs
- Maintain the 802.11 user experience
- Address coexistence with other systems in the band

NEW: 5.2 Scope of Proposed Standard

The scope of this project is to define an amendment that shall define standardized modifications to both the 802.11 physical layers (PHY) and the 802.11 Medium Access Control Layer (MAC) to enable operation in the 60 GHz frequency band (typically 57-66 GHz) capable of very high throughput. The MAC and PHY specified in this amendment:

- Enables a maximum throughput of at least 1 Gbps, as measured at the MAC data service access point (SAP)
- Enables fast session transfer between PHYs
- Maintains the 802.11 user experience
- Addresses coexistence with other systems in the band

Purpose

OLD: 5.4 Purpose of Proposed Standard: The purpose of the project is to improve the 802.11 user experience by providing significantly higher throughput for local area networking

NEW: 5.4 Purpose of Proposed Standard: The purpose of the project is to improve the 802.11 user experience by providing significantly higher throughput for local area networking

Scope

OLD: 7.1

**Are there other standards or projects with a similar scope?
:No**

NEW: 7.1

Are there other standards or projects with a similar scope? :No

15-08/534r0 “Concerns and Suggestions on VHT 60 PAR”

1. Suggest “not to rush and to work thoroughly on the PAR paying attention on co-existence with other systems in the same frequency bands, 60 GHz”
2. The unfortunate fact, as an example, found in the subject PAR is seen in “not recognizing the fact TG3c has been working on the systems in the same frequency bands: TG3c’s draft passed Letter Ballot in July, 2008 and has been working towards the planned RevCom Approval in September, 2009.

TG3c approved 15-08/534r0 July 17, 2008

Yes: 42 , No:3, Abstain: 4