

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

Submission Title: [TG3c's Actions on VHT SG PAR r1 ]

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Source: [Shuzo Kato <sup>(1)</sup>, James Gilb]

Company [<sup>(1)</sup>National Institute of Information and Communications Technology (NICT)]

Address<sup>1</sup>[3-4 Hikari-no-oka, Yokosuka-shi, Kanagawa 239-0847, Japan]

Voice<sup>1</sup>:[+81-46-847-5074] , FAX<sup>1</sup>: [+81-46-847-5440]

E-Mail[]

Re: []

Abstract: [TG3c's Actions on VHT SG PAR r1 ]

Purpose: [TG3c's Actions on VHT SG PAR r1 ]

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# **TG3c's Actions on VHT SG PAR r1**

**July 17, 2008**

**Shuzo Kato and James Gilb**

# **VHT PAR Approval Voting @802.11 Mid-week Plenary on July 16**

## **VHT PAR Approved**

Yes: 89

No: 18

Abstain: 16

# TG3c's Actions on VHT SG PAR

1. **802.11WG approved VHTSG PAR (doc.: IEEE 802.11-08/0880r0) proposed by VHTSG**
2. **IEEE802.15 WG may need TG3c's opinion on this by 802.15 WG Closing Plenary Meeting**
3. **TG3c may need to review following documents:**
  - i. **TG3c's Suggestions to VHT SG (IEEE 802.15-08-0498-03-003c)**
  - ii. **802.11WG approved VHTSG PAR (IEEE 802.11-08/0880r0)**
  - iii. **802.11WG draft VHTSG PAR (IEEE 802. 11-08-0223-05-0vht-proposal-for-60ghz-vht-par)**

# Original and Revised PAR Comparison (Major Part)

1. **Scope**
2. **Purpose**
3. **Similarity**

# Original and Revised PAR Comparison (Major Part)

**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**



# Concerns on and Suggestions to 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.**