IEEE P802.11
Wireless LANs

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| Resolution for CID 69 “Remove RIFS for non-DMG”  |
| Date: 2017-09 |
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Abstract

This submission proposes resolutions for CID 69

Green indicates material agreed to in the group,

yellow material to be discussed, red material rejected by the group and

cyan material not to be overlooked.

The “Final” view should be selected in Word.

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| --- | --- | --- | --- | --- | --- | --- |
| CID | Commenter | Clause  | Page  | Line | Comment | Proposed |
| 69 | Graham Smith | 10.3.2.3.2 | 1409 | 38 | Time to remove RIFS? | Remove |

CID 69 RIFS

1409.41

*The use of RIFS for a non-DMG STA is obsolete, and support for such use might be subject to removal in a future revision of the standard. A VHT STA shall not transmit frames separated by a RIFS.*

*1409.47 RIFS may be used in place of SIFS to separate multiple transmissions from a single transmitter, when no SIFS separated response transmission is expected and either of the following is true:*

*— The transmitter is not a DMG STA.*

*— The transmitter is a DMG STA, and each transmission occurs with the same transmit antenna*

*configuration.*

So a DMG STA may use RIFS, but is obsolete for non-DMG.

1010.1 *An HT STA shall not transmit PPDUs separated by a RIFS unless the beacon or probe response most recently received from the BSS’s AP contains an HT Operation element with RIFS Mode field equal to 1.*

To remove from Standard will take some effort; however, let’s have a go. I have tried to remove from anything that is non-DMG and left it where possible DMG use.

Discussion in Berlin

* There are implementations, “RIFS” testing results are published.
* Already marked Obsolete. Do not change.
* Maybe implementations but no-one uses it. Similar to WEP possibly.

Straw Polls

Remove RIFS 11/0

No Change 5/7

Consensus to remove

RESOLUTION

REVISED

At 201.27 delete “The use of certain HT features, such as reduced interframe space (RIFS), is not permitted for VHT STAs.

At 1550.49 Delete 10.26.3.3 entirely

At 1014.6 Figure 9-339 B3 to B7 to be Reserved

At 1015.20 Table 9-168 delete RIFS Mode

1409.41 Delete “The use of RIFS for a non-DMG STA is obsolete, and support for such use might be subject to removal in a future revision of the standard. A VHT STA shall not transmit frames separated by a RIFS.”

At 1409.47 replace

“RIFS may be used in place of SIFS to separate multiple transmissions from a single transmitter, when no SIFS separated response transmission is expected and either of the following is true:

— The transmitter is not a DMG STA.

— The transmitter is a DMG STA, and each transmission occurs with the same transmit antenna configuration.”

With

“RIFS may be used in place of SIFS to separate multiple transmissions from a single transmitter, when no SIFS separated

response transmission is expected and the transmitter is a DMG STA, and each transmission occurs with the same transmit antenna configuration.”

At 1409.56 delete “(see Table 19-25 (HT PHY characteristics) and”

At 1409 61 delete “shall both be HT PPDUs or”

At 1410.1 delete “An HT STA shall not transmit PPDUs separated by a RIFS unless the beacon or probe response most recently received from the BSS’s AP contains an HT Operation element with RIFS Mode field equal to 1.”

At 1437.64 delete “, except for RIFS transmissions”

At 1410.5 delete entire paragraph.

At 1491.30 delete “(or RIFS, if the conditions defined in 10.3.2.3.2 (RIFS) are met)”

At 1548.51 delete “and RIFS sequences”

At 1548.61 delete “In an IBSS and an MBSS, the RIFS Mode field of the HT Operation element is reserved, but an HT STA shall operate as though this field were equal to 1.”

At 1549.10 delete “The protection requirements for HT transmissions using RIFS within the HT transmission burst are specified in 10.26.3.3 (RIFS protection).”

1549.60 delete “and/or be separated by RIFS”

1550.37 delete “a) The RIFS Mode field of the HT Operation element equal to 1”

Delete clause 10.26.3.3 “RIFS protection”. (Note this is for HT)

1551.12 delete “and RIFS”

1551.28 delete “and RIFS”

1551.31 delete “or RIFS”

1551.33 delete “and RIFS”

1562.50 delete “and 10.26.3.3 (RIFS protection)”

1565.11 delete “and 10.26.3.3 (RIFS protection)”

1565.34 delete “unless the use of RIFS is permitted, as defined in 10.26.3.3 (RIFS protection)”

1565.37 delete “using RIFS” and “The use of RIFS is limited as defined in 10.3.2.3.2 (RIFS) and 10.26.3.3 (RIFS protection).”

Figure 10-44 1567.143 delete “RIFS or”

2026.41 delete “A VHT AP shall set the RIFS Mode field in the HT Operation element to 0.”

2581.8 delete 19.3.19.7

At 2588.22 delete “While in the Signal Extension state, if the receiver detects a CS/CCA event, it issues an RXEND.indication primitive (with the RXERROR parameter set to NoError or CarrierLost, depending on whether a carrier lost event occurred during the reception of the PPDU), leaves the Signal Extension state, and enters the Detect SIG state. This sequence occurs when signal-extended PPDUs are transmitted while separated by a RIFS.”

2970.28 delete HTM6.1 and HTM6.2

2987.19 delete HTP2.13

3263.15 Delete dot11RMNeighborReportHTInfoRIFSMode