IEEE P802.11
Wireless LANs

|  |
| --- |
| Clause 5.1.5 proposal for TGah |
| Date: 2015-03-01 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Mark Hamilton | Spectralink | 2560 55th StBoulder, CO 80301 USA | +1 303 441 7553 | mark.hamilton@spectralink.com |
|  |  |  |  |  |

Abstract

This submission contains a proposed comment resolution for TGah LB 207 CID 6155:

R0 – Initial proposal.

# CID 6155

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 6155 | 136.18 | 5.1.5.5 | Add a 5.1.5 subclause with the role-specific model for Relay AP and Relay STA - and make a proposal, this time. | See 11-15/257 for a proposal. |

**Discussion:**

Clause 5.1 is intended to provide the architectural overview of the MAC services provided by 802.11, and in particular subclause 5.1.5 shows the architectural concepts for the data plane.

Currently, 5.1.5 has a General subclause with two major data plane architectures for a general STA and an FST STA. Subsequent subclauses further refine the general concept, for non-AP STA, AP, Mesh STA and Mesh gate. The S1G relay seems to be a sufficiently new concept (a pairing of AP and STA, and behavior that does forwarding decisions for frames between the two) to get a new subclause, and a new major data plane architecture figure.

Thus, a proposal is made to add a new subclause, 5.1.5.6, for the S1G relay data plane architecture.

**Proposed changes:**

Insert the following subclause, after 5.1.5.5 (Mesh gate role):

5.1.5.6 S1G Relay

An S1G relay comprises a relay AP, a relay STA and a relay function.

A relay STA is a non-AP STA associated to a root AP or the relay AP of another relay. A relay AP is an AP which offers the relay function to its associated non-AP STAs, and provides access to the DS indirectly through the relay STA’s path to the root AP. The relay function performs local reception or selective forwarding of MSDUs between the relay STA and relay AP, based on destination address as described in 9.51 (S1G Relay operation).

The MAC data plane architecture of an S1G relay is shown in Figure 5-7 (S1G relay data plane architecture)



**Figure 5-7—S1G relay data plane architecture**

**Proposed resolution: Revised**

Make the changes as shown in 11-15/0257r0.