IEEE P802.11
Wireless LANs

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| PDT MAC Coordinated Spatial Reuse |
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 Abstract

This document contains Proposed Draft Text (PDT) for the coordinated spatial reuse feature of the TGbn (UHR, Ultra High Reliability) amendment to the 802.11 standard.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Change subclause number. Change the text on the definition.
* Rev 2: Minor changes
* Rev 3: add text to reflect motion 135
* Rev 4: polish the text according the comments during the meeting
* Rev 5: add more co-authors
* **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbn Draft. The abstract, revision information, introduction, explanation of the proposed changes and references sections are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbn Draft (i.e., they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

**Explanation of the proposed changes:**

The proposed changes to the 802.11 TGbn draft within this document are based on the following motions adopted by the TGbn task group:

**Relevant passed motions:**

[Motion #29]

**TGbn defines a multi-AP Coordinated Spatial Reuse (Co-SR) at TXOP-level with power control.**

[Motion #135]

**The sharing AP, that transmits a Trigger frame as part of a transmission sequence in a Multi-AP coordinated transmission scheme, identifies the shared AP via an AP ID carried in the AID12 field of the User Info field of the frame**

**Note: the name of "sharing AP" and "shared AP" are TBD**

**Note: Multi-AP coordinated transmission schemes are Co-SR, Co-BF and Co-TDMA**

# Text to be adopted begins here:

**3.2 Definitions specific to IEEE Std 802.11 [M#29]**

**coordinated spatial reuse:** [Co-SR] A multi-AP technique where multiple APs perform concurrent transmissions through transmit power control of the shared AP by the sharing AP.

**37.9 Coordinated spatial reuse**

**37.9.1 General**

[M#29]The objective of coordinated spatial reuse (Co-SR) is to allow more efficient medium usage by concurrent transmissions of multiple APs using transmit power control. The Co-SR transmission is initiated by an AP that obtains a TXOP and becomes the sharing AP. [M#135]The sharing AP transmits a Trigger frame to the shared AP identified by the AP ID carried in the AID12 field of the User Info field of the Trigger frame to initiate the Co-SR transmission.