

December 08, 2014

Equipment Authorization Division
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Response to FCC Query for filing the C2PC to add UNII band 2C with DFS to FCC ID: RAR80005111

FCC question:

This device supports mesh networking. Submit an Operational Description explaining how the Mesh Network is configured, operates, and maintains DFS compliance.

The p2p (point to point) and mesh modes defined for Ericsson WiFi Access Points (AP) allow communications directly between APs. A p2p link involves exactly two APs linked together, whereas a network operating in mesh mode may contain more than two APs.

From a DFS perspective, each AP in either a p2p or mesh network acts as a 'master' device. This means that each AP independently monitors its operating channel for radar and is responsible for reacting to detected radar according to FCC regulations. In particular this means that each AP will observe the Channel Availability Check and Non-Occupancy requirements before attempting to connect on a DFS channel, independent of other APs in the network. When a radar event is detected, each AP will stop transmission in accordance with the channel closing requirements; including indicating the channel change using the Channel Switch mechanisms (802.11h). Each partner AP therefore watches for the Channel Switch Announcements of linked APs to determine when to switch channels.

Sincerely,



Marcel Chenier

Head, R&D Wi-Fi products, LW

Ericsson WiFi Inc.

6300 Legacy Drive
Plano, Texas 75024
1 972 583 0000

Ericsson Canada Inc.
349 Terry Fox
Ottawa, ON K2K 2V6

Telephone: +1 613 963-8987
Fax: +1 613 963-8996