



ERICSSON

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

Response to FCC Query Reference 44756, form 731 confirmation number EA181043 for FCC ID RAR40015001

FCC question 1:

1) Please provide an operational exhibit of bridge (Peer-to-peer) and mesh mode configurations. This should be a detailed explanation on the configuration and how DFS compliance is achieved in the various configurations.

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.

FCC question 2:

2) Explanation what controls are implemented to prevent third parties or unauthorized parties from making modifications to the transmitter to enable operation outside the conditions of the grant of authorization according to KDB Publication 1781919 (Section 4).

Ericsson WiFi Access Points shipped to the United States are hardware locked to the US certification values by means of a country-code value stored in non-volatile memory. This value is factory written and cannot be overwritten by changing the software running on the access-point. The power and channel limits for any given certification regime, including the US, are defined in each software release categorized by 'country-codes', but the allowed country codes for an AP is only available to the customer based on the value stored in non-volatile memory. For units shipped to the US, the only selectable country-code for the unit is US. Other countries and regulatory regimes (ETSI, for example) are not even listed.



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Sincerely,

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