CLAIMS

1. A method for wireless communication, comprising:

transmitting, by an access point of a first basic service set (BSS) to a plurality of stations in the first BSS, a first indication including one or more first reuse parameters for enabling reuse of a wireless channel by the plurality of stations in the first BSS, the one or more first reuse parameters including an intra-BSS received signal strength indication (RSSI) threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing a clear channel assessment (CCA) on the wireless channel and determining based on a signal field or a MAC header of the wireless transmission that the wireless transmission is from a station in the first BSS, the first indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from the station in the first BSS and has an RSSI below the intra-BSS RSSI detection threshold; and

transmitting, by the access point to the plurality of stations in the first BSS, a second indication including one or more second reuse parameters for enabling reuse of the wireless channel by the plurality of stations in the first BSS, the second indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from a station in an overlapping basic service set (OBSS) operating on the same channel as the first BSS and has an RSSI below an inter-BSS RSSI detection threshold greater than the intra-BSS RSSI detection threshold, the one or more second reuse parameters including the inter-BSS RSSI detection threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing the CCA on the wireless channel and determining based on the signal field or the MAC header of the wireless transmission that the wireless transmission is from the station in the OBSS operating on the same channel as the first BSS, the determination that the station is in the OBSS operating on the same channel as the first BSS causing the stations in the first BSS to apply the inter-BSS RSSI detection threshold instead of the intra-BSS RSSI detection threshold during the CCA on the wireless channel.

2. A method for wireless communication, comprising:

receiving, by a first station of a first basic service set (BSS) that includes a plurality of stations, a first indication including one or more first reuse parameters for enabling reuse of a wireless channel by the plurality of stations in the first BSS, the one or more first reuse parameters including an intra-BSS received signal strength indication (RSSI) threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing a clear channel assessment (CCA) on the wireless channel and determining based on a signal field or a MAC header of the wireless transmission that the wireless transmission is from another station in the first BSS, the first indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from the other station in the first BSS and has an RSSI below the intra-BSS RSSI detection threshold;

receiving, by the first station, a second indication including one or more second reuse parameters for enabling reuse of the wireless channel by the plurality of stations in the first BSS, the second indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from a station in an overlapping basic service set (OBSS) operating on the same channel as the first BSS and has an RSSI below an inter-BSS RSSI detection threshold greater than the inter-BSS RSSI detection threshold, the one or more second reuse parameters including the inter-BSS RSSI detection threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting the wireless transmission on the wireless channel when performing the CCA on the wireless channel and determining based on the signal field or the MAC header of the wireless transmission that the wireless transmission is from the station in the OBSS operating on the same channel as the first BSS;

receiving, by the first station, a first wireless transmission on the wireless channel;

determining, by the first station, based at least in part on a signal field or a MAC header of the first wireless transmission, whether the first wireless transmission is from a station in the first BSS or is from a station in an OBSS;

responsive to determining that the first wireless transmission is from the station in the OBSS, applying, by the first station, the inter-BSS RSSI detection threshold instead of the intra-

BSS RSSI detection threshold;

determining, by the first station, whether or not the first wireless transmission has an RSSI below the inter-BSSRSSI detection threshold; and

responsive to determining that the first wireless transmission has an RSSI below the inter-BSS RSSI detection threshold, transmitting, by the first station, a message on the wireless channel.

3. An access point, comprising:

a processor configured to:

determine one or more first reuse parameters for enabling reuse of a wireless channel by a plurality of stations in a first basic service set (BSS), the one or more first reuse parameters including an intra-BSS received signal strength indication (RSSI) threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing a clear channel assessment (CCA) on the wireless channel and determining based on a signal field or a MAC header of the wireless transmission that the wireless transmission is from a station in the first BSS, the first reuse parameters indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from the station in the first BSS and has an RSSI below the intra-BSS RSSI detection threshold, and

determine one or more second reuse parameters for enabling reuse of the wireless channel by the plurality of stations in the first BSS, the second reuse parameters indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from a station in an overlapping basic service set (OBSS) operating on the same channel as the first BSS and has an RSSI below an inter-BSS RSSI detection threshold greater than the intra-BSS RSSI detection threshold, the one or more second reuse parameters including the inter-BSS RSSI detection threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing the CCA on the wireless channel and determining based on the signal field or the MAC header of the wireless transmission

that the wireless transmission is from the station in the OBSS operating on the same channel as the first BSS, the determination that the station is in the OBSS operating on the same channel as the first BSS causing the stations in the first BSS to apply the inter-BSS RSSI detection threshold instead of the intra-BSS RSSI detection threshold during the CCA on the wireless channel; and

a transmitter configured to transmit a first indication to the plurality of stations in the first BSS that includes the one or more first reuse parameters, and to transmit a second indication to the plurality of stations in the first BSS that includes the one or more second reuse parameters.

4. A wireless communication station, comprising:

a transmitter;

a receiver configured to:

receive a first indication including one or more first reuse parameters for enabling reuse of a wireless channel by a plurality of stations in a first basic service set (BSS) that includes the wireless communication station, the one or more first reuse parameters including an intra-BSS received signal strength indication (RSSI) threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing a clear channel assessment (CCA) on the wireless channel and determining based on a signal field or a MAC header of the wireless transmission that the wireless transmission is from another station in the first BSS, the first indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from the other station in the first BSS and has an RSSI below the intra-BSS RSSI detection threshold,

receive a second indication including one or more second reuse parameters for enabling reuse of the wireless channel by the plurality of stations in the first BSS, the second indication indicating that the stations of the plurality of stations in the first BSS performing the CCA are permitted to transmit on the wireless channel when the detected wireless transmission is from a station in an overlapping basic service set (OBSS) operating on the same channel as the first BSS and has an RSSI below an inter-BSS RSSI detection threshold greater than the inter-BSS RSSI detection threshold, the one or more

second reuse parameters including the inter-BSS RSSI detection threshold to be used by the stations of the plurality of stations in the first BSS in response to detecting a wireless transmission on the wireless channel when performing the CCA on the wireless channel and determining based on the signal field or the MAC header of the wireless transmission that the wireless transmission is from the station in the OBSS operating on the same channel as the first BSS, and

receive a first wireless transmission on the wireless channel; and

a processor configured to:

determine, based on a signal field or a MAC header of the first wireless transmission, whether the first wireless transmission is from a station in the first BSS or is from a station in an OBSS,

responsive to determining that the first wireless transmission is from the station in the OBSS, applying the inter-BSS RSSI detection threshold when performing a CCA on the wireless channel instead of the intra-BSS RSSI detection threshold;

determine whether or not the first wireless transmission has an RSSI below the inter-BSS RSSI detection threshold, and

responsive to determining that the first wireless transmission has an RSSI below the inter-BSS RSSI detection threshold, cause the transmitter to transmit a message on the wireless channel.