CLAIMS

1. A method for selecting channel access parameters for communication in a network, the method comprising: selecting, at a first wireless device, a first enhanced distributed channel access (EDCA) parameter for communication by a first subset of wireless devices that do not have the capability to transmit multi-user uplink transmissions, the first EDCA parameter comprising at least one of a first minimum contention window (CWmin), a first maximum contention window (CWmax), a first transmission opportunity limit (TXOP limit), or a first arbitration inter frame space (AIFS); selecting, at the first wireless device, a second EDCA parameter for communication by a second subset of wireless devices, the second EDCA parameter comprising at least one of a second CWmin different than the first CWmin, a second CWmax different than the first CWmax, a second TXOP limit different than the first TXOP limit, or a second AIFS different than the first AIFS, wherein selecting the second EDCA parameter is based on: a capability of the first wireless device to receive scheduled uplink transmissions, and a capability of the second subset of wireless devices to transmit multi-user uplink transmissions; and outputting, for transmission to the second subset of wireless devices, a message that indicates the second EDCA parameter, wherein the message is only addressed to the second subset of wireless devices, and wherein the message is not decodable by the first subset of wireless devices.

2. The method of claim 1, wherein the first wireless device is an access point, and wherein the first subset of wireless devices and the second subset of wireless devices are stations.

3. The method of claim 1, further comprising: determining whether the second EDCA parameter satisfies a performance characteristic, and in response to determining that the second EDCA fails to satisfy the performance characteristic, selecting a third EDCA parameter.

4. The method of claim 3, wherein selecting the third EDCA parameter is based on a previous transmission from a second wireless device of the second subset of wireless devices to the first wireless device.

5. The method of claim 3, wherein selecting the third EDCA parameter is based on receiving an immediate response to the message transmitted to the second subset of wireless devices.

6. The method of claim 3, wherein selecting the third EDCA parameter is based on failure to receive a response from a second wireless device of the second subset of wireless devices after transmitting an indication of the selection of the second EDCA parameter to the second subset of wireless devices a number of times.

7. The method of claim 1, further comprising generating an information element for inclusion in the message, the information element comprising a variable length of bits, wherein the variable length of bits is based on at least one of a type of signal and a service provider.

8. The method of claim 1, wherein selecting the second EDCA parameter further comprises selecting the EDCA parameter based on a type of the second subset of wireless devices.

9. The method of claim 1, wherein the first wireless device appends one or more rules for communicating with the first wireless device to the indication of the second EDCA parameter.

10. The method of claim 1, wherein the message includes an information element, wherein the information element includes the indication of the second EDCA parameter and at least one of an element identification field, a length field, another information field, or an extension field.

11. An apparatus for wireless communication, comprising: a processing system configured to: select, at a first wireless device, a first enhanced distributed channel access (EDCA) parameter for communication by a first subset of wireless devices that do not have the capability to transmit multi-user uplink transmissions, the first EDCA parameter comprising at least one of a first minimum contention window (CWmin), a first maximum contention window (CWmax), a first transmission opportunity limit (TXOP limit), or a first arbitration inter frame space (AIFS); select, at the first wireless device, a second EDCA parameter for communication by a second subset of wireless devices, the second EDCA parameter comprising at least one of a second CWmin different than the first CWmin, a second CWmax different than the first CWmax, a second TXOP limit different than the first TXOP limit, or a second AIFS different than the first AIFS, wherein selecting the second EDCA parameter is based on: a capability of the first wireless device to receive scheduled uplink transmissions, and a capability of the second subset of wireless devices to transmit multi-user uplink transmissions; and output, for transmission to the second subset of wireless devices, a message that indicates the second EDCA parameter, wherein the message is only addressed to the second subset of wireless devices, and wherein the message is not decodable by the first subset of wireless devices.

12. The apparatus of claim 11, further comprising a transmitter configured to transmit the message to the second subset of wireless devices.

13. The apparatus of claim 11, wherein selecting the second EDCA parameter comprises selecting the second EDCA parameter based on a type of the second subset of wireless devices.

14. The apparatus of claim 11, wherein the first wireless device appends one or more rules for communicating with the first wireless device to the indication of the second EDCA parameter.

15. The apparatus of claim 11, wherein the message includes an information element, wherein the information element includes the indication of the second EDCA parameter and

at least one of an element identification field, a length field, another information field, or an extension field.

16. A non-transitory computer-readable medium comprising code that, when executed, causes an apparatus to: select a first enhanced distributed channel access (EDCA) parameter for communication by a first subset of wireless devices that do not have the capability to transmit multi-user uplink transmissions, the first EDCA parameter comprising at least one of a first minimum contention window (CWmin), a first maximum contention window (CWmax), a first transmission opportunity limit (TXOP limit), or a first arbitration inter frame space (AIFS); select a second EDCA parameter for communication by a second subset of wireless devices, the second EDCA parameter comprising at least one of a second CWmin different than the first CWmin, a second CWmax different than the first CWmax, a second TXOP limit different than the first TXOP limit, or a second AIFS different than the first AIFS, wherein selecting the second EDCA parameter is based on: a capability of the first wireless device to receive scheduled uplink transmissions, and a capability of the second subset of wireless devices to transmit multi-user uplink transmissions; and output, for transmission to the second subset of wireless devices, a message that indicates the second EDCA parameter, wherein the message is only addressed to the second subset of wireless devices, and wherein the message is not decodable by the first subset of wireless devices.

17. The non-transitory computer-readable medium of claim 16, wherein the message includes an information element, wherein the information element includes the indication of the second EDCA parameter and at least one of an element identification field, a length field, another information field, and an extension field.