CLAIMS

1. A first wireless station, comprising:

a processor;

memory in electronic communication with the processor; and

instructions stored in the memory and executable by the processor to cause the first wireless station to:

receive a first physical layer convergence protocol (PLCP) protocol data unit (PPDU) compatible with both legacy wireless stations and non-legacy wireless stations, the first wireless station being a non-legacy wireless station, the first PPDU including a trigger frame configured to solicit an uplink transmission of a second PPDU, the trigger frame including a common information field and one or more user information fields including a first user information field for the first wireless station, the first user information field including a resource unit (RU) allocation field that includes an index to an RU allocation table configured for a legacy bandwidth;

identify a non-legacy bandwidth associated with the second PPDU based at least in part on a value of a bandwidth field in the first PPDU, the non-legacy bandwidth being greater than a maximum legacy bandwidth associated with the legacy wireless stations;

identify a value of a bit in the first user information field that is outside of the RU allocation field;

identify whether a location of a first RU for the first wireless station is located in a first portion of a channel or a second portion of the channel based at least in part on the value of the bit, the channel having the identified non-legacy bandwidth;

determine the location of the first RU within the identified first or second portion of the channel based on the index and the RU allocation table; and

transmit the second PPDU via the first RU in response to the trigger frame.

2. The first wireless station of claim 1, wherein the non-legacy bandwidth is 320 MHz, the first portion of the channel is a primary 160 MHz subchannel of the channel, and the second portion of the channel is a secondary 160 MHz subchannel of the channel.

3. The first wireless station of claim 1, wherein the trigger frame is further configured

to solicit an uplink transmission from at least one legacy wireless station concurrent with the transmission of the second PPDU by the first wireless station.

4. A method for wireless communication by a first wireless station, the method comprising:

receiving a first physical layer convergence protocol (PLCP) protocol data unit (PPDU) compatible with both legacy wireless stations and non-legacy wireless stations, the first wireless station being a non-legacy wireless station, the first PPDU including a trigger frame configured to solicit an uplink transmission of a second PPDU, the trigger frame including a common information field and one or more user information fields including a first user information field for the first wireless station, the first user information field including a resource unit (RU) allocation field that includes an index to an RU allocation table configured for a legacy bandwidth;

identifying a non-legacy bandwidth associated with the second PPDU based at least in part on a value of a bandwidth field in the first PPDU, the non-legacy bandwidth being greater than a maximum legacy bandwidth associated with the legacy wireless stations;

identifying a value of a bit in the first user information field that is outside of the RU allocation field;

identifying whether a location of a first RU for the first wireless station is located in a first portion of a channel or a second portion of the channel based at least in part on the value of the bit, the channel having the identified non-legacy bandwidth;

determining the location of the first RU within the identified first or second portion of the channel based on the index and the RU allocation table; and

transmitting the second PPDU via the first RU in response to the trigger frame.

5. The method of claim 4, wherein the non-legacy bandwidth is 320 MHz, the first portion of the channel is a primary 160 MHz subchannel of the channel, and the second portion of the channel is a secondary 160 MHz subchannel of the channel.

6. The method of claim 4, wherein the trigger frame is further configured to solicit an uplink transmission from at least one legacy wireless station concurrent with the transmission of the second PPDU by the first wireless station.