1. An access point for establishing an uplink trigger based data communication with one or more station devices across a plurality of tones in a radio band, the access point configured to generate and transmit a physical layer protocol data unit to one or more station devices that contains one or more sounding feedback report frames for each of the station devices including a first field comprising precoder information for establishing a single uplink data connection between the access point and the station device and a second field comprising a set of parameters to instruct processing of the precoder information in the first field.

2. The access point of claim 1, wherein the first field of the feedback report frame is an uplink beamforming Precoder field and the second field of the feedback report frame is an uplink (UL) beamforming (BF) multiple input multiple output (MIMO) Control field.

3. The access point of claim 1 or 2, wherein the precoder information is contained within the feedback report frame as a single MAC Protocol Data Unit (MPDU) and comprises one of a plurality of segments of a total of the precoder information needed for establishing the single uplink data connection and the set of parameters in the second field correspond to processing only the segment of precoder information contained in the first field.

4. The access point of any of claims 1 to 3, wherein the second field of the feedback report frame comprises the subfields: Grouping, Codebook Information, Remaining UL BF Feedback Segments, First UL BF Feedback Segment and Reserved.

5. The access point of any of claims 1 to 4, wherein the second field comprises the subfields: Grouping, Codebook Information, and Reserved.

6. The access point of any of claims 1 to 5, wherein the second field comprises the subfields Nc Index and Nr Index indicating the dimensions of each of a plurality of feedback matrices contained in the feedback report frame.

7. The access point of any of claims 1 to 4, or 6, wherein the second field is a modified EHT MIMO Control Field where the subfields Bandwidth, Feedback Type, Partial Bandwidth Information and Sounding Dialog Token Number are defined as reserved fields.

8. The access point of claim 1 or 2, wherein the second field and precoder information are included within a Trigger Dependent User Info field of a trigger frame (TF).

9. The access point of any of claims 1 to 8, wherein the access point is configured to generate a physical layer protocol data unit containing the sounding feedback report frame and a trigger frame which includes the corresponding parameters to initiate an acknowledgement frame from each station device to whom the sounding feedback report frame was transmitted.

10. A non-access point station device for establishing an uplink trigger based data communication with an access point across a plurality of tones in a radio band, the station device configured to:

receive from the access point a sounding feedback report frame;

process the report frame including a first field comprising precoder information for establishing a single uplink data connection between the access point and the station device and a second field comprising a set of parameters to instruct processing of the precoder information in the first field; and

maintain the precoder parameters when triggered and indicated by the access point to transmit a trigger-based physical layer protocol data unit containing beam-formed uplink data frames.

11. The station device of claim 10, wherein the first field of the sounding feedback report frame is an uplink beamforming Precoder field and the second field of the feedback report frame is an uplink, UL, beamforming, BF, multiple input multiple output, MIMO, Control field.

12. The station device of claim 10 or 11, wherein the precoder information is contained within the feedback report frame as a single MAC Protocol Data Unit (MPDU) and comprises one of a plurality of segments of a total of the precoder information needed for establishing the single uplink data connection and the station device is configured to process only the segment of precoder information contained in the first field according to the set of parameters in the second field.

13. The station device of any of claims 10 to 12, wherein the second field comprises the subfields: Grouping, Codebook Information, Remaining UL BF Feedback Segments, First UL BF Feedback Segment and Reserved.

14. The station device of any of claims 10 to 13, wherein the second field comprises the subfields: Grouping, Codebook Information, and Reserved.

15. The station device of any of claims 10 to 13, wherein the second field comprises the subfields Nc Index and Nr Index indicating the dimensions of each of a plurality of feedback matrices contained in the feedback report frame.

16. The station device of any of claims 10 to 13, or 15, wherein the second field is a modified EHT MIMO Control Field where the subfields Bandwidth, Feedback Type, Partial Bandwidth Information and Sounding Dialog Token Number are defined as reserved subfields.

17. The station device of claim 10 or 11, wherein the second field and precoder information are included within a Trigger Dependent User Info field of a trigger frame.

18. The station device of any of claims 10 to 17, the station device configured to receive a physical layer protocol data unit containing the sounding feedback report frame and a trigger frame which includes the corresponding parameters to initiate an acknowledgement frame from each non-access point station device to whom the sounding feedback report frame was transmitted.