CLAIMS

1. A device comprising:

one or more processors configured to:

determine an audio event based on receiving an audio signal;

track audio activity based on the determined audio event;

summarize the tracked audio activity based on a user selection of a summary mode, wherein the summary mode is one or more of the following: a time mode, an emotion mode, an activity mode, an environment mode, a speech state mode, an association mode, an overlap mode, or a recommendation mode; and

provide feedback of the summarized tracked audio activity based on a feedback mode.

2. The device of claim 1, further comprising an audio decoder coupled to the one or more processors, and the audio decoder is configured to receive a packet from another device.

3. The device of claim 2, wherein the audio decoder is coupled to a payload data extractor, and the payload data extractor is configured to extract from the packet received from another device at least one of a person identification, identification type, personal identification information, remote device ID, or a timestamp.

4. The device of claim 2, further comprising an audio path selector configured to select whether an audio waveform, based on output from a one or microphones, is provided to an audio event determinator, or the packet received from another device is provided to the audio event determinator.

5. The device of claim 4, wherein the audio path selector is configured to receive controller input and provide a device mode.

6. The device of claim 1, further comprising one or more microphones, coupled to an audio CODEC configured to output an audio waveform, and configured to provide the audio waveform to the one or more processors.

7. The device of claim 6, wherein the determined audio event is based on at least classifying one voice metric, from a voice metric determinator unit, and the one or more processors include

an audio event classifier bank configured to provide at least one of a local clock, local device identification value, and the audio event.

8. The device of claim 7, wherein the event classifier bank is controlled by a device mode.

9. The device of claim 1, further comprising a memory including a summarized tracked audio activity buffer.

10. The device of claim 9, wherein the one or more processors include an audio activity feedback provider configured to select the feedback mode.

11. The device of claim 10, further comprising a display device configured to display the visual feedback of summarized tracked audio activity when the visual feedback mode is selected.

12. The device of claim 10, further comprising one or more loudspeakers configured to produce the audible feedback of summarized tracked audio activity when the audible feedback mode is selected.

13. The device of claim 12, wherein the one or more loudspeakers are integrated into a hearable device.

14. The device of claim 1, wherein the one or more processors include an audio activity tracker to provide the tracked audio activity based on the summary mode, and wherein the audio activity tracker comprises comparing a previous audio event to determine if the determined audio event is a same audio event or a different audio event.

15. The device of claim 14, wherein the audio activity tracker is configured to batch process more than one audio event based on aggregating the determined audio event, and based on at least one of a timestamp, device identification value, or person identification value.

16. The device of claim 15, wherein the tracked audio activity is based on detecting at least one of environment, emotion, speech state, audible context, visual context, or a sensor reading.

17. The device of claim 16, wherein the tracked audio activity is additionally based on one of an identification data type, person identification and personal identification information.

18. The device of claim 1, further comprising a display device configured to represent a link of an emotion associated with the summarized tracked audio activity.

19. A method comprising:

determining an audio event based on receiving an audio signal;

tracking an audio activity based on the determined audio event;

summarizing the tracked audio activity based on a user selection of a summary mode, wherein the summary mode is one or more of the following: a time mode, an emotion mode, an activity mode, an environment mode, a speech state mode, an association mode, an overlap mode, or a recommendation mode; and

providing feedback of the summarized tracked audio activity based on a feedback mode.

20. The method of claim 19, further comprising selecting a feedback mode.

21. The method of claim 20, wherein the feedback of the summarized tracked audio activity is displayed when the feedback mode is a visual feedback mode.

22. The method of claim 20, wherein the feedback of the summarized tracked audio activity is audible when the feedback mode is an audible feedback mode.

23. The method of claim 19, wherein the summarized tracked audio activity is based on comparing a previous audio event to determine if the determined audio event is a same audio event or a different audio event.

24. The method of claim 19, wherein the summarized tracked audio activity batch processes more than one audio event based on aggregating the determined audio event.

25. The method of claim 19, wherein the summarized tracked audio activity is transmitted to another device.

26. An apparatus comprising:

means for determining an audio event based on receiving an audio signal;

means for tracking an audio activity based on the determined audio event;

means for summarizing the tracked audio activity based on a user selection of a summary mode wherein the summary mode is one or more of the following: a time mode, an emotion

mode, an activity mode, an environment mode, a speech state mode, an association mode, an overlap mode, or a recommendation mode; and

means for providing feedback of the summarized tracked audio activity based on a feedback mode.

27. The apparatus of claim 26, further comprising means for selecting the feedback mode.

28. A non-transitory computer-readable storage medium having stored thereon instructions that, when executed, cause one or more processors of a device to:

determine an audio event based on receiving an audio signal;

track an audio activity based on the determined audio event;

summarize the tracked audio activity based on a user selection of a summary mode, wherein the summary mode is one or more of the following: a time mode, an emotion mode, an activity mode, an environment mode, a speech state mode, an association mode, an overlap mode, or a recommendation mode; and

provide feedback of the summarized tracked audio activity based on a feedback mode.