Asgard Edge Plugin

Annotator

RAF File Format v1.0.5

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Revision History

Document Version	Issued	Notes	Comments
1.0.30	24 February 2023	Plugin v1.1.0.0 RAF File v1.0.2	First release to QSC Asset Manager.
1.0.31	18 May 2023	Plugin v1.2.3.0 RAF File v1.0.3	Removed the “notePlain” event (deprecated). Added details for historical note entries created by capturing a timestamp or by manually entering a free form time.
1.0.32	8 January 2024	Proposed RAF File v1.0.4	Added proposed header additions to identify the audio channel count and audio file count.
1.0.33	11 January 2024	Plugin v1.2.3.4 RAF File v1.0.4	Added proposed header additions to include the audio file prefix, timestamp and extension.
1.0.34	27 March 2025	Plugin v1.3.0.0 RAF File v1.0.5	Added “seal” and “jurisdiction” fields to the RAF header. Expanded Filename format section and included audio filename formats.
1.0.35	4 April 2025	Plugin v1.3.0.0 RAF File v1.0.5	Moved RAF sections text around, added more detail to the RAF file structure section,

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Overview

The Asgard Edge RAF file provides the annotation records associated with Asgard Edge recording audio files.

RAF files are plain text JSON files with a file extension of ".raf", generated by the Asgard Edge Annotator.

The top-level REF file records are as follows:

- header - A single header block is included within each RAF file
- event - Two or more event blocks are included within each RAF file

RAF Filename Format

Asgard Edge annotation filenames are constructed using strict naming conventions.

The "_" underscore character separates the key portions of the filename.

`PREFIX_JURIS_DATE_TIME_Annotation.raf`

Where:

PREFIX - Recording prefix text as set in the Asgard Recorder "Prefix" field, typically the court room name

JURIS - Recording jurisdiction text as set in the Asgard Recorder "Jurisdiction Short" field

DATE - The full date indicating when the Asgard Recording commenced

TIME - The full time indicating when the Asgard Recording commenced

The complete filename format with the DATE and TIME elements fully expanded is as follows:

`PREFIX_JURIS_YYYY-MM-DD_HH-MM-SS_Annotation.raf`

Where:

YYYY - The full year including century

MM - The numerical month (01..12)

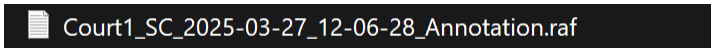
DD - The numerical day of month (01..31)

HH - The hour in 24-hour format (00..23)

MM - Minutes past the hour (00..59)

SS - Seconds past the minute (00.59)

Example:



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Jurisdiction Special Cases

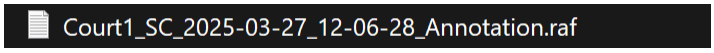
The JURIS section of the Asgard Edge audio and annotation filenames is modified by the Agard Recorder when a recording is “Sealed” or when the recording is an “Idle Backup” recording.

Recording Seal/Un-Seal

The JURIS element is appended with “-SEALED” when the Asgard operator has “Sealed” the recording.

Examples:

User Initiated “un-sealed” recording



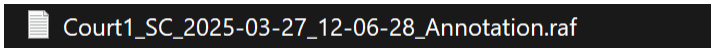
User initiated “sealed” recording

Backup Recordings

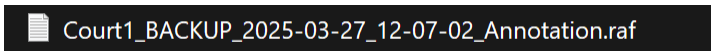
The JURIS element is changed to “BACKUP” for background Backup recordings.

Examples:

User Initiated recording



Backup recording



Note: All Backup recordings are “Un-Sealed”.

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Audio Filename Format

Asgard Edge audio filenames are constructed using the same strict naming conventions yet differ following the TIME element dependant on the number of recording channels configured in the Agard Edge plugin properties and the Audio File Format selected within the Asgard Edge Recorder.

1 & 2 Channel Recordings: **PREFIX_JURIS_DATE_TIME.EXTENSION**

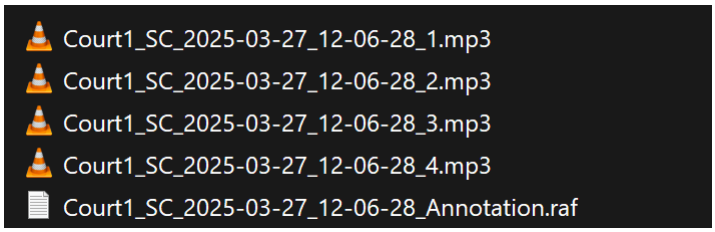
4 Channel Recordings: **PREFIX_JURIS_DATE_TIME_1.EXTENSION**
PREFIX_JURIS_DATE_TIME_2.EXTENSION
PREFIX_JURIS_DATE_TIME_3.EXTENSION
PREFIX_JURIS_DATE_TIME_4.EXTENSION

Where:

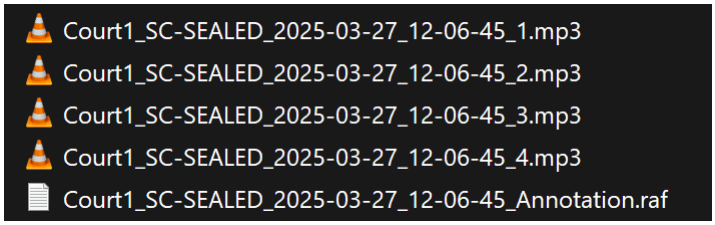
EXTENSION - “mp3” for MP3 audio files, “wav” for WAV audio files

The following examples demonstrate 4 channel MP3 recordings with the associated RAF file.

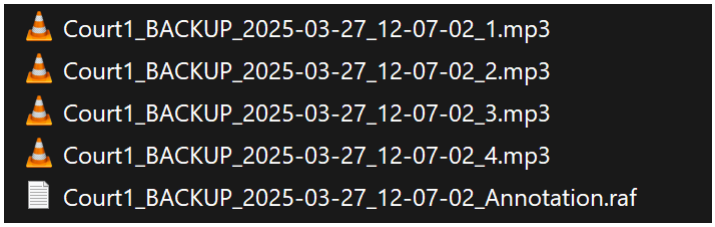
Un-sealed operator-initiated recording



Sealed operator-initiated recording



Backup recording



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RAF Structure

RAF Structure Overview

Asgard Edge RAF files are created as plain text JSON files, structured as follows:

- header - A single header block is included within each RAF file
- event - Two or more event blocks are included within each RAF file

RAF Header

The RAF Header always appears at the start of a RAF file.

The following header fields are fixed and generated by the Asgard Edge plugin:

- timezone - The time zone for the recording location
- vendor - The recording vendor information
- version - The Asgard RAF format version
- generator - The name of the recording generator software

The remaining Asgard Edge header fields are dynamic and reflect the configured and normal use data at the time of the creation of the RAF file when the Asgard Recorder commences recording or starts a new recorder turn:

- description - The operator entered recording description text
- prefix - The audio file name prefix as defined in the plugin recorder tab
- timestamp - The audio file timestamp portion of the filename
- extension - The audio file extension, dependant on the audio format (mp3 or wav)
- channels - The number of recorded audio channels (1, 2 or 4)
- files - The number of recorded audio files (1 or 4)
- seal - Indicates if the recording is “Sealed” or “Un-Sealed”
- jurisdiction - The “Jurisdiction Long” name as set in the recorder tab

Backup Recordings

For “Idle Backup” recordings:

- ✓ The “jurisdiction” header field is set to “BACKUP”.
- ✓ The “seal” header field is always “Un-sealed”.

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RAF Event

Each RAF file will contain exactly one each of the following event types:

- startRecording - Indicates a “Start Recording” event. The room name and timestamp are included
- stopRecording - Indicates a “Stop Recording” event. The room name and timestamp are included

Each RAF file may contain any number of the following events, identified by the “type” field as follows:

- micOn - Indicates a “Microphone On” event. Mic details, room, location and timestamp
- note - an operator note with timestamp

Start Recording Event

The recording started.

Fields provided:

- type - “startRecording”
- timestamp - The event timestamp in Asgard Edge time format
- room - The room name

Stop Recording Event

The recording stopped.

Fields provided:

- type - “stopRecording”
- timestamp - The event timestamp in Asgard Edge time format
- room - The room name

Microphone On Event

A microphone ON event, indicates a change of speaker, or a re-stamping of a long speaker speaker.

Fields provided:

- type - “micOn”
- timestamp - The event timestamp in Asgard Edge time format
- room - The room name
- location - The microphone location (ie. “Bench”)
- label - The microphone label (ie. “Mr Browne”)
- mic - The microphone channel number (ie “8)

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Note Event

Fields provided:

- type - “note”
- timestamp - The event timestamp in Asgard Edge time format
- addedBy - The operator’s name
- text - The note text

Notes entered with an historical captured or entered timestamp are recorded with the historical timestamp prefixing the note text as per the following example:

"text": "Historical@14:31:40 Magistrate Smith presiding",

While the timestamp field records the actual time the note was inserted as with all notes.

Notes are automatically inserted when an operator “Seals” or “Un-seals” a recording.

Examples:

Sealed: ***"text": "Court1 Room Audio Sealed",***

Un-Sealed: ***"text": "Court1 Room Audio Un-Sealed",***

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Timestamp Format

Timestamp are recorded with the following fixed format. The order of fields is fixed and does not change regardless of the platform region settings.

Timestamp Format:

YYYY-MM-DDTHH:MM:SS.sss

Where:

YYYY - The full year including century

MM - The numerical month (01..12)

DD - The numerical day of month (01..31)

T - Indicates the start of the time information

HH - The hour in 24-hour format (00..23)

MM - Minutes past the hour (00..59)

SS - Seconds past the minute (00.59)

sss - Thousands of a second (000..999)

Examples:

- ***"2022-11-28T14:31:46.010"***
- ***"2022-06-12T09:55:12.250"***

Timezone Format

The Timezone header field displays the Asgard Edge platform timezone settings (Q-Sys Core Region).

Format:

UTC+HH:MM

Where:

UTC - Universal Time Coordinated

+/- - Offset, Plus or Minus offset

HH - Number of hours offset from UTC

MM - Number of minutes offset from UTC

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Example RAF File


```
[
   {
      "header": {
         "timezone": "UTC+08:00",
         "version": "1.0.5",
         "vendor": "Asgard Edge Pty Ltd",
         "generator": "recording-device-model-Asgard-Edge",
         "description": "PRESIDING: Young.”,
         “prefix”: “AsgardEdgeRecording”,
         “jurisdiction”: “Supreme Court”,
         “seal”: “Un-sealed”,
         “timestamp”: “2022-11-28_14-00-00”,
         “extension”: “mp3”,
         “channels”: 4,
         “files”: 4
      }
   },
   {
      "event": {
         "timestamp": "2022-11-28T14:31:46.010",
         "room": "AsgardEdgeRecording",
         "type": "startRecording"
      }
   },
   {
      "event": {
         "timestamp": "2022-11-28T14:31:46.010",
         "label": "Ms Black",
         "room": "Court 42",
         "location": "Forperson",
         "mic": 8,
         "type": "micOn"
      }
   },
   {
      "event": {
         "timestamp": "2022-11-28T14:31:52.330",
         "addedBy": "Wayne Osborn",
         "text": "Historical@14:31:40 Magistrate Smith presiding",
         "type": "note"
      }
   },
   {
      "event": {
         "timestamp": "2022-11-28T14:32:02.100",
         "addedBy": "Wayne Osborn",
         "text": "Court Adjourned",
         "type": "note"
      }
   },
   {
      "event": {
         "timestamp": "2022-11-28T14:32:10.280",
         "room": "AsgardEdgeRecording",
         "type": "stopRecording"
      }
   }
]
```


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User Notes

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