



Asgard Edge Plugin

Annotator

JSON API



CONTENTS

REVISION HISTORY	3
OVERVIEW	4
API CONNECTION	4
COMMAND PROCESSOR	5
KEEPALIVE	5
INSERTRAF - NOTE	6
RESPONSES	7
STATUS CODES	7
STATUS STRING	7
UNSOLICITED EVENT MESSAGES	8
UNSOLICITED MESSAGE OVERVIEW	8
NOTE EVENT	8
HEADER EVENT	9
START RECORDING EVENT	10
STOP RECORDING EVENT	10
MICROPHONE ON EVENT	11
USER NOTES	12



Revision History

Document Version	Issued	Notes	Comments
1.5.0.0	5 April 2026	Plugin v1.5.0.0	First release
1.5.1.2	20 April 2026	Plugin v1.5.1.2	Added client field to the KeepAlive message. Added clientLicensed field to all response messages. Added pluginVersion field to all response messages.



Overview

The Asgard Edge plugin v1.5 provides a TCP JSON API providing the following:

- Command Processor
- Unsolicited Event Messages

The Asgard JSON API was introduced in plugin v1.5 and is not available in prior versions.

API Connection

Protocol: TCP

Port: 4242

Format: JSON

Timeout: 30 seconds

The Asgard plugin TCP server supports multiple TCP connections.

When issuing commands, each message should be limited to a single command.

Commands, responses and unsolicited messages are JSON formatted ASCII.

All JSON properties are case sensitive.

A keep alive command should be issued periodically within the timeout period to keep the connection active.

Command Processor

The following API commands are accepted by the Asgard Edge Plugin API:

- KeepAlive
- insertRAF

KeepAlive

Keeps an established TCP connection active. Must be periodically issued within the TCP API timeout period.

Structure

```
{
  "command": string,
  "client": string
}
```

Example with Asgard Tølker keepalive

```
{
  "command": "KeepAlive",
  "client": "Asgard Tølker"
}
```

Example with third party keepalive

```
{
  "command": "KeepAlive",
  "client": "Your Client Application Name"
}
```

Client field

The field "client" is used by the Asgard Edge Plugin to determine if the client application is to be enabled via the installed Asgard Edge Plugin license "feature set".

The determined API license is returned to the client in the "clientLicensed" field returned by the Asgard Edge Plugin response message. For more information refer to the Responses section on page 7.

All third party client names are considered licensed and return "**clientLicensed**": **true** in all Asgard Edge Plugin response messages, with full API access granted.

The client field may be an empty string or any text of your choosing.

Note: "Asgard Tølker" is a reserved client name and should not be used by third parties.

insertRAF - Note

Inserts a note event into the Plugin generated RAF file.

This command is accepted only when the Asgard recorder is recording. Issuing this command when the recorder is stopped or when the backup recorder is recording will result in an error code of 6.

Parameters

- type - "note"
- addedBy - The operator's name
- addedBy - The name of the operator inserting the note
- text - The note text
- asr - Boolean flag used to determine the RAF note entry timestamp, see below

Structure

```
{
  "command": "insertRAF",
  "params": {
    "type": "note",
    "fields": {
      "addedBy": string,
      "text": string,
      "asr": boolean
    }
  }
}
```

Example

```
{
  "command": "insertRAF",
  "params": {
    "type": "note",
    "fields": {
      "addedBy": "Wayne Osborn",
      "text": "This is a user note regarding evidence",
      "asr": true
    }
  }
}
```

The field "asr" (Automatic Speech Recognition) determines the timestamp inserted by the Asgard Edge Plugin into the RAF file with the note.

- false - The current time is inserted
- true - The timestamp of the previously API note insertion

Note: inserting the current time with the ASR note is not desirable. In doing so, the time represents the time the recognition completed the inserted paragraph, not the time the paragraph recognition started. This flag when true resolves this issue.

Responses

A response message is returned with each received command.

The response message returns the name of the command received and the status of the processed command.

All response messages are terminated with a newline character (0x0A).

Fields provided

- command - The initiating command the response is for
- pluginVersion - The Asgard Edge Plugin version string
- clientLicensed - Boolean indicating if the Asgard Edge Plugin determined the client is API licensed
- status - The status of the received message after being processed

Structure

```
{
  "reply": {
    "command": string,
    "pluginVersion": string,
    "clientLicensed": Boolean,
    "status": {
      "code": integer,
      "string": string
    }
  }
}
```

Example

```
{
  "reply": {
    "command": keepAlive,
    "pluginVersion": "1.5.1.2",
    "clientLicensed": true,
    "status": {
      "code": 0,
      "string": ""
    }
  }
}
```

Status Codes

- 0 - Command processed without error
- 1 - The received message was invalid
- 2 - The received command was not recognised or supported
- 3 - The type field was not specified
- 4 - The type field was not recognised
- 5 - The received command was missing a parameter
- 6 - The command was refused (reason provided in the Status String)

Status String

Detailed information regarding any errors

Unsolicited Event Messages

When connected the Asgard plugin provides the following unsolicited event messages when the Asgard Recorder is recording, excluding when the Backup Recorder is running.

All unsolicited messages are terminated with a newline character (0x0A).

All connected clients receive unsolicited event messages.

Unsolicited Message Overview

The following messages are issued whenever the Asgard Plugin RAF file is appended:

- header - The header block
- recording start - Recording started or a new turn was created
- recording stop - Recording stopped
- micOn - The current open microphone
- note - user created note

The following messages are sent when first connecting to the Asgard API and when the recorder is started or a new recording turn is generated:

- header
- micOn

Note Event

Fields provided

- type - "note"
- timestamp - The event timestamp in Asgard Edge time format
- addedBy - The operator's name
- text - The note text

Structure

```
{
  "event": {
    "timestamp": string,
    "addedBy": string,
    "text": string,
    "type": string,
  }
}
```

Example

```
{
  "event": {
    "timestamp": "2022-11-28T14:31:52.330",
    "addedBy": "Wayne Osborn",
    "text": "Evidence provided",
    "type": "note"
  }
}
```

Note: inserting an note with the insertRAF command does not generate an unsolicited Note Event via the API.

Header Event

Fields provided

- **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
- **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

Structure

```
{
  "header": {
    "timezone": string,
    "version": string,
    "vendor": string,
    "generator": string,
    "description": string,
    "prefix": string,
    "jurisdiction": string,
    "seal": string,
    "timestamp": string,
    "extension": string,
    "channels": integer,
    "files": integer
  }
}
```

Example

```
{
  "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
  }
}
```

Start Recording Event

The recording started.

Fields provided

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

Structure

```
{
  "event": {
    "timestamp": string,
    "room": string,
    "type": string
  }
}
```

Example

```
{
  "event": {
    "timestamp": "2022-11-28T14:31:46.010",
    "room": "AsgardEdgeRecording",
    "type": "startRecording"
  }
}
```

Stop Recording Event

The recording stopped.

Fields provided

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

Structure

```
{
  "event": {
    "timestamp": string,
    "room": string,
    "type": string
  }
}
```

Example

```
{
  "event": {
    "timestamp": "2022-11-28T14:32:10.280",
    "room": "AsgardEdgeRecording",
    "type": "stopRecording"
  }
}
```

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")

Structure

```
{
  "event": {
    "timestamp": string,
    "label": string,
    "room": string,
    "location": string,
    "mic": integer,
    "type": string
  }
}
```

Example

```
{
  "event": {
    "timestamp": "2022-11-28T14:31:46.010",
    "label": "Ms Black",
    "room": "Court 42",
    "location": "Forperson",
    "mic": 8,
    "type": "micOn"
  }
}
```




This page intentionally left blank