



iAM Series APIs

Documentation related to Application Programming Interfaces for iAM Series Units

Documentation

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CHAPTER 1: iAM AUDIO API Documentation

AUDIO API Presets

Get all presets or a specific preset:

GET /api/v1/configs/

GET /api/v1/configs/(int: , config_id)

Response JSON Object

- **string unit_name:** Product Name ("iAM-AUDIO")
- **string model:** Product model ("iAM-AUDIO-1")
- **string presets:** List of Presets for each input type as sixteen channels :
- **string sdi_indicator:** Enabling SDI source. Only one can be enabled for each preset. { ["SDI1"|"SDI2"] }
- **string dolby_input_type:** { "None" | "AES Pair" [1|2|3|4] | "SDI Pair" [1|2|3|4|5|6|7|8] }. Example: "AES Pair 6"
- **string madi_bnc_optical:** { ["BNC" | "OPTICAL"] }
- **int meter_number:** { [1 .. 16] }
- **string cluster_name:** Audio Group or Program identifier.
- **string cluster_type:** Audio Group or Program { ["None" | "Mono 1.0" | "Stereo 2.0" | "Surround 5.1" | "Surround 7.1"] }
- **string input_type:** Audio Input: { ["AES" | "ANALOG" | "AoIP" | "Dolby" | "MADI BNC" | "MADI OPTICAL" | "NONE" | "SDI"] }
- **string clock_reference:** Setting input to serve as clock sync reference : { ["Y" | "N"] }
- **int channel_number:** Set source channel for each strip location is set : { [1 .. 64] }
- **string label_1:** It will be displayed on the upper line of the channel strip
- **string label_2:** It will be displayed on the lower line of the channel strip
- **int label_displayed:** Provides a way to display one of the labels or both: { ["1" , "2" , "3"] }
- **string mix:** Assignments for the input source audio to be heard on front panel speakers and headphones: { ["LEFT" | "RIGHT" | "LEFT/RIGHT"] }

Example request:

GET /api/v1/configs/1

GET /api/v1/configs

Example response:

```
{
  "unit_name": "iAM-AUDIO",
  "model": "iAM-AUDIO-1",
  "presets": {
    "1": {
```

```

"sdi_indicator": "SDI1",
"dolby_input_type": "AES Pair 4",
"madi_bnc_optical": "BNC",
"channels":
[
  {
    "meter_number": "1",
    "cluster_name": "HUJTX",
    "cluster_type": "Mono 1.0",
    "input_type": "AES",
    "clock_reference": "Y",
    "channel_number": "1",
    "label_1": "AES",
    "label_2": "1",
    "label_displayed": "1",
    "mix": "Left Front"
  }
  ...
  {
    "meter_number": "16",
    "input_type": "Analog",
    "cluster_name": "Stereo",
    "mix": "Right Front",
    "cluster_id": 8,
    "label_1": "Analog",
    "label_2": "8",
    "cluster_type": "Stereo",
    "label_displayed": "3",
    "channel_number": "8",
    "clock_reference": "N"
  }
]
}
"2":
{
  "madi_bnc_optical": "Optical",
  "sdi_indicator": "Y",
  "dolby_input_type": "SDI-6",
  "channels":
  [
    ...
  ]
}
"8":
...
{
  "madi_bnc_optical": "Optical",
  "sdi_indicator": "Y",
  "dolby_input_type": "SDI-6",
  "channels":
  [
    ...
  ]
}
}
}

```


Get current active preset

GET /api/v1/configs/current

Example request:

GET /api/v1/configs/current

Example response:

```
{  
  "preset": "3",  
}
```

Setting Mute/Unmute/Updating Presets

param json

data: Data in a json format with all presets.

return: String.

rtype: JSON Format (see below)

PUT /api/v1/configs/(int: preset_number)/unmute-mute-solo

Parameters:

- **data** -- data in a json format

Request

Headers: • **Accept** -- application/json

- **Content-Type** -- application/json

Response

Headers: • **Content-Type** -- application/json

Status Codes:

- **200 OK** -- ok
- **201 Created** -- Resource was been updated
- **400 Bad Request** -- Invalid url
- **422 Unprocessable Entity** -- when form parameters are missing

Example request:

PUT /api/v1/configs/3/mute-solo mute-solo-data.json

Example response:

`{"user_message": "Setting Mute/Unmute/Solo on Preset 3 has been done successfully"}`

Parameters are missing:

`[{"preset_number": "Preset number is missing."}]`

`[{"preset_number": "Preset must be an integer value between 1 and 8."}]`

`[{"channel_error": "You can set one Solo value per preset. Channel 2 and Channel 10 has a solo value."}]`

Mute-solo-data.json

```
{preset: "1",
  channels:[ {1: "M"},
             {2: "M"},
             {3: "S"},
             ...
             {15: "M"},
             {16: "M"}
            ]
}
```


iAM-AUDIO HTTP Routing Table

/api

GET /api/v1/configs/
GET /api/v1/configs/(int:config_id)
GET /api/v1/configs/current
POST /api/v1/configs
PUT /api/v1/configs
PUT /api/v1/configs/(int:preset_number)/activate

CHAPTER 2: iAM-VIDEO API Documentation

Video API Presets

Get all available groups, sub-groups and presets:

URL: /api/availablegroups

Method: GET

URL Parameters: Not required

Response JSON Object

- **string unit_name:** Product Name ("iiAM-Video")
- **string model:** Product model ("iAM_VIDEO")
- **string serial_number:** Product serial number
- **float version:** Rest API's version
- **string result:** List of available Groups, Sub-groups (Programs) and Presets without configuration data.

Status Codes:

- 200 OK
- 400 Bad Request – Invalid url
- 404 Data Not Found – Invalid HTTP method request
- 500 Server error – Internal server error

Example request:

GET /api/availablegroups

Example response:

```
{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "serial_number": "YYYYYY",
  "version": 1.1,
  "result": [...]
}
```

```

{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "version": 1.1,
  "result": [
    {
      "Name": "Group-1",
      "Id": 2,
      "Programs": [
        {
          "Presets": [
            {
              "Id": 3,
              "Name": "English"
            }
          ],
          "Name": "CNN",
          "Id": 2
        }
      ]
    },
    {
      "Name": "Group-2",
      "Id": 3,
      "Programs": [
        {
          "Presets": [
            {
              "Id": 4,
              "Name": "English"
            },
            {
              "Id": 5,
              "Name": "English-2"
            },
            {
              "Id": 6,
              "Name": "English-3"
            },
            {
              "Id": 7,
              "Name": "English-4"
            }
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "Id": 8,
      "Name": "English-5"
    }
  ],
  "Name": "CNN",
  "Id": 3
}
]
},
{
  "Name": "Group-3",
  "Id": 4,
  "Programs": [
    {
      "Presets": [
        {
          "Id": 9,
          "Name": "English"
        }
      ],
      "Name": "CNN",
      "Id": 4
    }
  ]
}
],
"serial_number": "YYYYYYY"

```

Get current active preset

GET /api/activepreset

URL: /api/activepreset

Method: GET

URL Parameters: Not required

Response JSON Object:

- **string unit_name:** Product Name ("iiAM-Video")
- **string model:** Product model ("iAM_VIDEO")
- **string serial_number:** Product serial number
- **float version:** Rest API's version
- **string result:** Preset information without configuration data:

Status Codes:

- 200 OK
- 400 Bad Request – Invalid url
- 404 Data Not Found – Invalid HTTP method request
- **500 Server error – Internal server error**

Example request:

GET /api/activepreset

Example response:

```
{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "version": 1.1,
  "serial_number": "YYYYYYY",
  "result": {...}
}
```

```
{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "serial_number": "YYYYYYY",
  "result": {
    "program": {
      "Id": 2,
      "Name": "CNN"
    }
  }
}
```

```
},
"group": {
  "Id": 2,
  "Name": "Group-1"
},
"preset": {
  "Data": null,
  "Id": 3,
  "Name": "English"
}
}
```

Preset activation:

URL: /api/presetrecall/<int:preset ID>

Method: GET

URL Parameters:

- **preset ID -- Preset ID (Number)**

Response JSON Object

- **integer status:** http status code
- **string message:** message

Status Codes:

- 202 Accepted -- Request accepted for processing
- 400 Bad Request – Invalid URL
- 404 Data Not Found – Invalid HTTP method request
- 500 Server error – Internal server error

Example request:

GET /api/presetrecall/4

Example response:

```
{  
  "status":200,  
  "message": "Preset 4:English is set for recall"  
}
```

Get Preset Information:

GET /api/preset/<int:preset ID>

URL: /api/preset/<int:preset ID>

Method: GET

URL Parameters:

- **preset ID -- preset ID (Number greater than zero)**

Response JSON Object

- **string unit_name:** Product Name ("iiAM-Video")
- **string model:** Product model ("iAM_VIDEO")
- **string serial_number:** Product serial number
- **float version:** Rest API's version
- **string result:** Preset information with configuration data.

Status Codes:

- 200 OK
- 400 Bad Request – Invalid url
- 404 Data Not Found – Invalid HTTP method request
- 500 Server error – Internal server error

Example request:

GET /api/preset/4

Example response:

```
{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "serial_number": "YYYYYYY",
  "version": 1.1,
  "result": {...}
}
```

```
{
  "unit_name": "iAM-Video",
  "model": "iAM_VIDEO",
  "serial_number": "YYYYYYY",
  "result": {
```



```

"program": {
  "Id": 3,
  "Name": "CNN"
},
"group": {
  "Id": 3,
  "Name": "Group-2"
},
"preset": {
  "Id": 4,
  "Name": "English",
  "Data": {
    "PresetConf": {
      "Cat1100Source": {},
      "MeterSet": {
        "1": {
          "Source": {
            "Type": "Sfp-1.Dual-1.Sdi",
            "Channel": 1
          },
          "Speaker": "MonoSurround"
        },
        "2": {
          "Source": {
            "Type": "Sfp-1.Dual-1.Sdi",
            "Channel": 2
          },
          "Speaker": "MonoSurround"
        },
        "3": {
          "Source": {
            "Type": "None",
            "Channel": 0
          },
          "Speaker": "MonoSurround"
        },
        "4": {
          "Source": {
            "Type": "None",
            "Channel": 0
          },
          "Speaker": "MonoSurround"
        },
        "5": {

```

```

"Source": {
  "Type": "None",
  "Channel": 0
},
"Speaker": "MonoSurround"
},
"6": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"7": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"8": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"9": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"10": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"11": {
  "Source": {
    "Type": "None",

```

```

    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"12": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"13": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"14": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"15": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
},
"16": {
  "Source": {
    "Type": "None",
    "Channel": 0
  },
  "Speaker": "MonoSurround"
}
},
"VideoSource": {
  "Type": "Sfp-1.Dual-1.Sdi"
},
"SystemClockSource": {

```

```

    "Type": "Internal"
  },
  "Clusters": [
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 1
    },
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 2
    },
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 3
    },
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 4
    },
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 5
    },
    {
      "NumberOfMeters": 1,
      "MuteOnPresetRecall": true,
      "Type": "Mono",
      "Name": "Mono 1.0",
      "FirstMeter": 6
    }
  ]
}

```

```

},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 7
},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 8
},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 9
},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 10
},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 11
},
{
  "NumberOfMeters": 1,
  "MuteOnPresetRecall": true,
  "Type": "Mono",
  "Name": "Mono 1.0",
  "FirstMeter": 12
},
{

```

```

        "NumberOfMeters": 1,
        "MuteOnPresetRecall": true,
        "Type": "Mono",
        "Name": "Mono 1.0",
        "FirstMeter": 13
    },
    {
        "NumberOfMeters": 1,
        "MuteOnPresetRecall": true,
        "Type": "Mono",
        "Name": "Mono 1.0",
        "FirstMeter": 14
    },
    {
        "NumberOfMeters": 1,
        "MuteOnPresetRecall": true,
        "Type": "Mono",
        "Name": "Mono 1.0",
        "FirstMeter": 15
    },
    {
        "NumberOfMeters": 1,
        "MuteOnPresetRecall": true,
        "Type": "Mono",
        "Name": "Mono 1.0",
        "FirstMeter": 16
    }
],
    "Name": {
        "Preset": "English",
        "Program": "CNN",
        "Group": "Group-3"
    }
},
    "InputSrcList": {
        "videoInputStr": "SFP-1.SDI.SDI-1.Video",
        "meters": {
            "1": {
                "parentInput": "SFP-1.SDI.SDI-1"
            },
            "2": {
                "parentInput": "SFP-1.SDI.SDI-1"
            }
        }
    },
},

```

```
        "inputClockRef": "Internal"  
    }  
  }  
}  
}
```

Input select:

URL: /api/inputselect

Method: POST

URL Parameters: Not required.

Data: "application/json" type of body content is required.

Body content for VoIP:

```
{
  "inputparams": {
    "MpegDecoderSource": {
      "Input": {
        "Type": "Voip.Mpeg"
      },
      "IsDownmixed": <Boolean: true or false>,
      "Pid": {
        "Audio": <Number: PID>,
        "Video": <Number: PID>
      },
      "MpegVoip": {
        "SSM": <String: Source Specific Multicast Address [Optional]>,
        "MulticastAddress": <String: Multi-cast address>,
        "MulticastPort": <Number: Port>,
        "UseDefault": <Boolean: true or false>
      }
    }
  },
  "MuteOnPresetRecall": <Boolean: true or false>
}
```

Body content for ASI:

```
{
  "inputparams": {
    "MpegDecoderSource": {
      "Input": {
        "Type": <String: ASI Input Source>
      },
      "IsDownmixed": <Boolean: true or false>,
      "Pid": {
        "Audio": <Number: PID>,
        "Video": <Number: PID>
      }
    }
  }
}
```



```

    },
    "MuteOnPresetRecall":<Boolean: true or false>
  }
}

```

Note: Allowed VoIP input sources are "Sfp-1.Single.Mpeg" and "Sfp-2.Single.Mpeg".

Body content for SDI

```

{
  "inputparams": {
    "VideoSource": {
      "Type": <String: SDI Input Source>
    },
    "MuteOnPresetRecall": <Boolean: true or false>
  }
}

```

Note: Allowed SDI input sources are "Sfp-1.Dual-1.Sdi" and "Sfp-2.Dual-1.Sdi".

Body content for MADI

```

{
  "inputparams": {
    "AudioSource": {
      "Type": "Madi"
    },
    "MuteOnPresetRecall":<Boolean: true or false>,
    "MadiExpectedType": <String: Expected MADI type>
  }
}

```

Note: Allowed MADI expected types are "Coax" and "Optical".

Body content for Analog

```

{
  "inputparams": {
    "AudioSource": {
      "Type": "Analog"
    },
    "MuteOnPresetRecall":<Boolean: true or false>
  }
}

```

Body content for Aes

```

{

```

```



```

Response JSON Object:

- **string unit_name**: Product Name ("iiAM-Video").
- **string model**: Product model ("iAM_VIDEO").
- **string serial_number**: Product serial number.
- **float version**: Rest API's version.
- **string result**: Information applied on the input including Cluster and Meter configuration.

Status Codes:

- 200 OK
- 400 Bad Request – Invalid url
- 404 Data Not Found – Invalid HTTP method request
- 500 Server error – Internal server error

Example request:

POST /api/inputselect

```

{
  "inputparams": {
    "MpegDecoderSource": {
      "Input": {
        "Type": "Voip.Mpeg"
      },
      "IsDownmixed": true,
      "Pid": {
        "Audio": 4352,
        "Video": 4113
      },
      "MpegVoip": {
        "SSM": "",
        "MulticastAddress": "224.4.4.5",
        "MulticastPort": 5001,
        "UseDefault": true
      }
    }
  }
}

```

```
    },  
    "MuteOnPresetRecall":true  
}
```

Example response:

```
{  
  "unit_name": "iAM-Video",  
  "model": "iAM_VIDEO",  
  "serial_number": "YYYYYY",  
  "version":1.1,  
  "result": {...}  
}
```

```
{  
  "unit_name": "iAM-Video",  
  "model": "iAM_VIDEO",  
  "version": 1.1,  
  "result": {  
    "PresetConf": {  
      "Cat1100Source": {}},  
    "MeterSet": {  
      1: {  
        "Source": {  
          "Type": "Voip.Mpeg",  
          "Channel": 1  
        },  
        "Speaker": "Left"  
      },  
      2: {  
        "Source": {  
          "Type": "Voip.Mpeg",  
          "Channel": 2  
        },  
        "Speaker": "Right"  
      },  
      3: {  
        "Source": {  
          "Type": "None",  
          "Channel": 3  
        },  
        "Speaker": "None"  
      }  
    }  
  }  
}
```

"Channel": 0

},

"Speaker": "Left"

},

4: {

"Source": {

"Type": "None",

"Channel": 0

},

"Speaker": "Right"

},

5: {

"Source": {

"Type": "None",

"Channel": 0

},

"Speaker": "Left"

},

6: {

"Source": {

"Type": "None",

"Channel": 0

},

"Speaker": "Right"

},

7: {

"Source": {

"Type": "None",

"Channel": 0

},

"Speaker": "Left"

},

8: {

"Source": {

```
"Type": "None",  
"Channel": 0  
},
```

```
"Speaker": "Right"  
},
```

```
9: {  
  "Source": {  
    "Type": "None",  
    "Channel": 0  
  },
```

```
"Speaker": "Left"  
},
```

```
10: {  
  "Source": {  
    "Type": "None",  
    "Channel": 0  
  },
```

```
"Speaker": "Right"  
},
```

```
11: {  
  "Source": {  
    "Type": "None",  
    "Channel": 0  
  },
```

```
"Speaker": "Left"  
},
```

```
12: {  
  "Source": {  
    "Type": "None",  
    "Channel": 0  
  },
```

```
"Speaker": "Right"  
},
```

```
13: {
```

```
"Source": {
  "Type": "None",
  "Channel": 0
},

"Speaker": "Left"
},

14: {
  "Source": {
    "Type": "None",
    "Channel": 0
  },

  "Speaker": "Right"
},

15: {
  "Source": {
    "Type": "None",
    "Channel": 0
  },

  "Speaker": "Left"
},

16: {
  "Source": {
    "Type": "None",
    "Channel": 0
  },

  "Speaker": "Right"
},

  },

  "MpegDecoderSource": {
    "Input": {
      "Type": "Voip.Mpeg"
    },
    "IsDownmixed": true,
    "Pid": {
```

```

"Audio": 4352,
"Video": 4113
},

"MpegVoip": {
"SSM": "",
"NetworkConfiguration": {
"Dhcp": false,
"Mask": "255.255.255.0",
"Gateway": "172.27.2.1",
"Dns": "",
"Address": "172.27.2.22"
},

"MulticastAddress": "224.4.4.5",
"UseDefault": false,
"MulticastPort": 5001
}

},

"VideoSource": {
"Type": "Voip.Mpeg"
},

"SystemClockSource": {
"Type": "Internal"
},

"Clusters": [
{
"NumberOfMeters": 2,
"MuteOnPresetRecall": true,
"Type": "Stereo",
"Name": "Stereo 2.0 #1",
"FirstMeter": 1
},

{
"NumberOfMeters": 2,
"MuteOnPresetRecall": true,
"Type": "Stereo",
"Name": "Stereo 2.0 #2",
"FirstMeter": 3
}
]

```

},

```
{  
  "NumberOfMeters": 2,  
  "MuteOnPresetRecall": true,  
  "Type": "Stereo",  
  "Name": "Stereo 2.0 #3",  
  "FirstMeter": 5  
},
```

```
{  
  "NumberOfMeters": 2,  
  "MuteOnPresetRecall": true,  
  "Type": "Stereo",  
  "Name": "Stereo 2.0 #4",  
  "FirstMeter": 7  
},
```

```
{  
  "NumberOfMeters": 2,  
  "MuteOnPresetRecall": true,  
  "Type": "Stereo",  
  "Name": "Stereo 2.0 #5",  
  "FirstMeter": 9  
},
```

```
{  
  "NumberOfMeters": 2,  
  "MuteOnPresetRecall": true,  
  "Type": "Stereo",  
  "Name": "Stereo 2.0 #6",  
  "FirstMeter": 11  
},
```

```
{  
  "NumberOfMeters": 2,  
  "MuteOnPresetRecall": true,  
  "Type": "Stereo",  
  "Name": "Stereo 2.0 #7",  
  "FirstMeter": 13  
},
```

```
{  
  "NumberOfMeters": 2,
```



```
"MuteOnPresetRecall": true,  
"Type": "Stereo",  
"Name": "Stereo 2.0 #8",  
"FirstMeter": 15  
}
```

```
],
```

```
"Name": {  
"Program": "inputselect",  
"Preset": "inputselect",  
"Group": "inputselect"  
}
```

```
}
```

```
},
```

```
"serial_number": "YYYYYY"  
}
```

iAM-VIDEO HTTP Routing Table

/api

GET /api/availablegroups/

GET /api/activepreset

GET /api/presetrecall/<int: preset id>

GET /api/preset/<int: preset id>

POST /api/inputselect

CHAPTER 3: iAM-MIX API Documentation

MIX API Presets

This is current unavailable but is planned for inclusion in the future. Please contact salesteam@wohler.com for updates.