

AURON

Auron Websocket API

V0.1.0



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1 Definitions and types

1.1 Types

Follows are definitions of types and enumerations used in the websocket communication. For all enumerations applies that the index as a number will be interpreted as its corresponding string-label.

1.1.1 aes3_freq_t

Configures the AES3 sample rate.

Type	Value	Description
string	"48 kHz"	AES3 sample rate of 48kHz
number	48	
string	"96 kHz"	AES3 sample rate of 96 kHz
number	96	

1.1.2 afu_t

Type	Value	Description
string	"afu_1"	AFU 1
	"afu_2"	AFU 2
	"afu_3"	AFU 3
	"afu_4"	AFU 4
	"afu_5"	AFU 5
	"afu_6"	AFU 6

1.1.3 attenuation_bus_t

Type	Value	Description
string	"crm_speakers"	
	"crm_phones"	
	"studio_phones"	
	"studio_speakers"	
	"master"	
	"sub"	
	"aux"	
	"cue"	

1.1.4 aux_t

Configures the AUX Mix Bus to be PRE or POST fader.

Type	Value	Description
string	"pre"	Routing AUX pre-fader
	"post"	Routing AUX post-fader

1.1.5 blink_speed_t

Type	Value	Description
string	"static"	Continuously on
	"slow"	Blink with 0.6 Hz
	"normal"	Blink with 1.3 Hz
	"fast"	Blink with 2.5 Hz

1.1.6 channel_t

Type	Value	Description
string	"left"	
	"right"	

1.1.7 color_t

Colors of buttons.

Type	Value	Description
string	"off"	The LED of the button is off
	"red"	The LED of the button is red
	"green"	The LED of the button is green
	"yellow"	The LED of the button is yellow

1.1.8 dynamics_t

Type	Value	Description
string	"gate"	
	"expander"	
	"compressor"	
	"limiter"	

1.1.9 faderbase_non_stop_source_t

Type	Value	Description
string	"none"	
	"slot 1 channel 1"	
	"slot 1 channel 2"	
	"slot 2 channel 1"	
	"slot 2 channel 2"	
	"slot 2 channel 3"	
	"slot 2 channel 4"	
	"slot 2 channel 5"	
	"slot 2 channel 6"	
	"slot 2 channel 7"	
	"slot 2 channel 8"	

1.1.10 gpo_level_mode_t

Set a GPO to be active High or active Low.

Type	Value	Description
string	"normal"	Normal mode, default state is OFF
	"inverted"	Inverted mode, default state is ON

1.1.11 gpo_master_trigger_t

Select the trigger source of a Master GPO.

Type	Value	Description
string	"none"	No trigger
	"onair_1"	OnAir 1 status triggers GPO
	"onair_2"	OnAir 2 status triggers GPO
	"onair_3"	OnAir 3 status triggers GPO
	"onair_4"	OnAir 4 status triggers GPO
	"vt_active"	VoiceTrack status triggers GPO
	"non_stop_active"	NonStop status triggers GPO
	"voip_active"	Any VoIP active module triggers GPO

1.1.12 gpo_module_trigger_t

Type	Value	Description
string	"none"	No trigger
	"fader_start"	Fader triggers GPO
	"module_on"	Module ON state triggers GPO
	"module_active"	Module ON + Fader On trigger GPO
	"microphone_active"	Module is at a microphone-source + active
	"voip_active"	Module is at VoIP-source + active

1.1.13 gpo_pulse_mode_t

Type	Value	Description
string	"continuous"	Output signal is continuous
	"pulse_by_on"	Output signal pulse on activation
	"pulse_by_off"	Output signal pulse on deactivation
	"pulse_by_onoff"	Output signal pulse on change

1.1.14 gpo_t

Type	Value	Description
string	"gpo_1"	
	"gpo_2"	
	"gpo_3"	
	"gpo_4"	

1.1.15 indicator_led_t

Type	Value	Description
string	"led_1"	Clip / Peak
	"led_2"	PGM
	"led_3"	SUB
	"led_4"	VT

1.1.16 master_ctrl_switch_t

The CRM Buttons that are available for external use.

Type	Value	Description
string	"a_1"	Control key 1 column A
	"a_2"	Control key 2 column A
	"a_3"	Control key 3 column A
	"a_4"	Control key 4 column A
	"a_5"	Control key 5 column A
	"a_6"	Control key 6 column A
	"a_7"	Control key 7 column A
	"a_8"	Control key 8 column A
	"b_1"	Control key 1 column B
	"b_2"	Control key 2 column B
	"b_3"	Control key 3 column B
	"b_4"	Control key 4 column B
	"b_5"	Control key 5 column B
	"b_6"	Control key 6 column B
	"b_7"	Control key 7 column B
	"b_8"	Control key 8 column B
	"c_1"	Control key 1 column C (CRM section)
	"c_2"	Control key 2 column C
	"c_3"	Control key 3 column C
	"c_4"	Control key 4 column C
	"d_1"	Control key 1 column D
	"d_2"	Control key 2 column D
	"d_3"	Control key 3 column D
	"d_4"	Control key 4 column D
	"e_1"	Control key 1 column E (Studio section)
	"e_2"	Control key 2 column E
	"e_3"	Control key 3 column E
	"e_4"	Control key 4 column E
	"f_1"	Control key 1 column F
	"f_2"	Control key 2 column F
	"f_3"	Control key 3 column F
	"f_4"	Control key 4 column F

1.1.17 master_encoder_t

Type	Value	Description
string	"encoder_1"	
	"encoder_2"	
	"encoder_3"	
	"encoder_4"	

1.1.18 master_source_t

Select the Master Output source.

Type	Value	Description
string	"pgm"	The Program mixbus is the source
	non_stop"	The NonStop bus is this source

1.1.19 mic_gain_t

Type	Value	Description
string	"0 dB"	
number	0	
string	"20 dB"	
number	20	
string	"40 dB"	
number	40	
string	"60 dB"	
number	60	

1.1.20 microphone_location_t

Available microphone locations.

Type	Value	Description
string	"nowhere"	Microphone is not near any system controlled speaker
	"crm"	Microphone is in the ControlRoom
	"studio"	Microphone is in the Studio

1.1.21 module_led_t

LEDs inside the switches.

Type	Value	Description
string	"sw_1"	Small top left switch
	"sw_2"	Small top right switch
	"sw_3"	Big middle switch
	"sw_4"	Big bottom switch

1.1.22 module_mixbus_t

Type	Value	Description
string	"pgm"	Program Mixbus
	"sub"	Sub Mixbus
	"vt"	VoiceTrack Mixbus
	"cue"	CUE / PFL Mixbus
	"tb_1"	TalkBack 1 bus
	"tb_2"	TalkBack 2 bus

1.1.23 `module_non_stop_source_t`

Type	Value	Description
string	"none"	
	"line"	Line-In source is routed to the NonStop bus
	"voip"	Only applicable to modules with a USB connector

1.1.24 `module_slot2_ad_target_t`

Type	Value	Description
string	"none"	
	"mic_cf_1"	
	"mic_cf_2"	
	"mic_cf_3"	
	"mic_cf_4"	
	"mic_cf_5"	
	"mic_cf_6"	
	"mic_cf_7"	
	"mic_cf_8"	

1.1.25 `module_t`

Type	Value	Description
string	"module_1"	Module 1
	"module_2"	Module 2
	"module_3"	Module 3
	⋮	⋮
	"module_63"	Module 63
	"module_64"	Module 64

1.1.26 `monitor_bus_t`

Type	Value	Description
string	"crm"	
	"studio"	

1.1.27 `monitor_bus_target_t`

Type	Value	Description
string	"speakers"	
	"phones"	

1.1.28 `monitor_follow_bus_t`

Type	Value	Description
string	"cue"	
	"vt"	

1.1.29 onair_t

On AIR Groups.

Type	Value	Description
string	"on_air1"	
	"on_air2"	
	"on_air3"	
	"on_air4"	

1.1.30 screen_mode_t

Type	Value	Description
string	"none"	
	"source"	
	"gain"	
	"phantom"	
	"insert"	
	"eq"	
	"aux"	

1.1.31 silence_detection_mode_t

Type	Value	Description
string	"left channel only"	
	"right channel only"	
	"both channels"	

1.1.32 source_t

Type	Value	Description
string	"none"	
	"line"	
	"slot 1 channel 1"	Only available when a Slot1 card is present in the module's faderbase
	"slot 1 channel 2"	
	"slot 2 channel 1"	Only available when a Slot2 card is present in the module's faderbase
	"slot 2 channel 2"	
	"slot 2 channel 3"	
	"slot 2 channel 4"	
	"slot 2 channel 5"	
	"slot 2 channel 6"	
	"slot 2 channel 7"	
	"slot 2 channel 8"	
	"voip"	Only available on modules with a USB connector
	"mic"	Only available on modules with a Microphone connector
	"balanced line"	Only available on modules with a Balanced Line-In connector

1.1.33 talkback_bus_t

Type	Value	Description
string	"tb_1"	
	"tb_2"	

1.1.34 time_units_t

Type	Value	Description
string	"seconds"	
	"minutes"	

1.2 Objects

For all objects: not all attributes need to be present at all times.

1.2.1 config_studio_remote_value_t

Type	Value	Description
boolean	"cough_enable"	The Cough Button is enabled and mutes the module when pressed
boolean	"com_enable"	The Com Button is enabled and temporarily re-routes the module's output to the CUE Mixbus
boolean	"com_private"	The Com Button re-routes to the TB_1 Bus and activates CRM Phones Monitor Target rather than the CUE Mixbus

1.2.2 dynamics_value_t

Not all attributes apply to every [dynamics_t](#).

Type	Value	Description
boolean	"state"	Dynamic enabled
number	"threshold"	Threshold of this dynamic in dB
number	"attack"	Attack time in ms
number	"hold"	Hold or sustain in ms
number	"release"	Release time in ms
number	"ratio"	Ratio in 0.1 steps
number	"makeup_gain"	Gain in dB

1.2.3 encoder_t

Type	Value	Description
boolean	"state"	Encoder is pressed
number	"rotation"	Encoder is rotated, negative for counter-clockwise. Either 1, 2 or 5, depending on the speed.

1.2.4 gpo_value_t

Type	Value	Description
gpo_master_trigger_t	"trigger"	Master GPO trigger
gpo_module_trigger_t	"trigger"	Module GPO trigger
gpo_level_mode_t	"mode"	The mode of GPO
gpo_pulse_mode_t	"type"	
number	"time"	Duration of the pulse in milliseconds (not for continuous)

1.2.5 silence_detection_value_t

Type	Value	Description
boolean	"enable"	Activate the silence detection module
number	"interval"	The period of inspection
time_units_t	"interval_unit"	Granularity of inspection interval
silence_detection_mode_t	"mode"	Which channels to monitor
number	"threshold"	Audio level under which silence is considered

1.2.6 studio_remote_t

Type	Value	Description
boolean	"cough"	State of the Cough button
boolean	"comm"	State of the Comm button

1.2.7 switch_led_t

Type	Value	Description
boolean	"state"	Switch is pressed
blink_speed_t	"mode"	Static or blinking
color_t	"color_on"	Static color or blink color 1
color_t	"color_off"	Blink color 2 (not used with static color)

2 Requests

`ws://auron.local/auron`

2.1 General

General messages are applicable to all Auron's websocket endpoints.

2.1.1 get_api_version

Message Format JSON object

```
{
  "msg": "get_api_version"
}
```

Response JSON object

```
{
  "msg": "api_version",
  "param": "0.1.0"
}
```

2.1.2 help

Alias for [usage\(2.1.3\)](#).

2.1.3 usage

Retrieves a list of all supported calls on the particular Websocket.

Message Format: JSON object

```
{
  "msg": "usage"
}
```

2.2 Topics manager

The Topics Manager manages all asynchronous changes as they come. To be notified of a change, the client must be subscribed to a topic of change.

2.2.1 get_subscriptions

Gets a list of topic names this client is subscribed to.

Message Format: JSON object

```
{
  "msg": "get_subscriptions"
}
```

Response: JSON object

```
{
  "msg": "subscriptions"
  "param": <string[] >
}
```

Member	Type	Description
msg	string	"subscriptions"
param	string[]	A list of all subscribed topics.

2.2.2 get_topics

Message Format: JSON object

```
{
  "msg": "get_topics"
}
```

Response: JSON object

```
{
  "msg": "topics"
  "param": <string[] >
}
```

Member	Type	Description
msg	string	"topics"
param	string[]	A list of all available topics.

2.2.3 subscribe

Subscribe this client to an available topic name. After subscribing the server will send updates asynchronously to this client as they happen on the backend.

The wildcard character ‘*’ is permitted in the topic name and is expanded accordingly. The response object will include all topic name matches following the expanded pattern.

Note that the response message’s property “msg” is different from the request.

Message Format: JSON object

```
{
  "msg": "subscribe"
  "param": <string | string[] >
}
```

Member	Type	Description
msg	string	"subscribe"
param	string	A topic name to subscribe to.
param	string[]	A list of multiple topic names to subscribe to.

Response: JSON object

```
{
  "msg": "subscribed"
  "param": <string[] >
}
```

Member	Type	Description
msg	string	"subscribed"
param	string[]	A list of all newly subscribed topic names.

2.2.4 unsubscribe

Unsubscribe this client from a topic name. After unsubscribing the server will stop sending updates to this client even though the state will change on the backend.

The wildcard character ‘*’ is permitted in the topic name and is expanded accordingly. The response object will include all topic name matches following the expanded pattern.

Note that the response message’s property ‘msg’ is different from the request.

Message Format: JSON object

```
{
  "msg": "unsubscribe"
  "param": <string | string[] >
}
```

Member	Type	Description
msg	string	"unsubscribe"
param	string	A topic name to unsubscribe from.
param	string[]	A list of multiple topic names to unsubscribe from.

Response: JSON object

```
{
  "msg": "subscribed"
  "param": <string[] >
}
```

Member	Type	Description
msg	string	"unsubscribed"
param	string[]	A list of all newly unsubscribed topic names.

2.3 Auron specific

2.3.1 get_all

A mix of [get_config\(2.3.2\)](#) and [get_states\(2.3.3\)](#). Usually a good place to start after opening the socket.

Message Format: JSON object

```
{
  "msg": "get_all"
}
```

Member	Type	Description
msg	string	"get_all"

Response Format: JSON object

```
{
  "msg": "get_all"
  "param": { ... }
}
```

Member	Type	Description
msg	string	"get_all"
param	object	

2.3.2 get_config

Fetches all configured values from all modules, monitor buses, faderbases and the master.

Message Format: JSON object

```
{
  "msg": "get_config"
}
```

Member	Type	Description
msg	string	"get_config"

Response Format: JSON object

```
{
  "msg": "get_config"
  "param": { ... }
}
```

Member	Type	Description
msg	string	"get_config"
param	object	

2.3.3 get_states

Fetches all state values from all modules, monitor buses, faderbases and the master.

Message Format: JSON object

```
{
  "msg": "get_states"
}
```

Member	Type	Description
msg	string	"get_states"

Response Format: JSON object

```
{
  "msg": "get_states"
  "param": { ... }
}
```

Member	Type	Description
msg	string	"get_states"
param	object	

2.3.4 set_auto_cue

Lets the selected Monitorbus follow the CUE Mixbus.

When enabled this Monitorbus will switch listening to the CUE Mixbus as soon as any Module is routed to the CUE Mixbus. It will first save the current routing before switching, so it can restore it when no more Modules are routed to the CUE Mixbus.

Alias for the [set_config_monitor_follow\(2.3.28\)](#) call.

Message Format: JSON object

```
{
  "msg": "set_auto_cue",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_auto_cue"
param	{ [index: monitor_bus_t]: boolean }	The name of the monitor bus that needs auto-cue behavior.

Example: The following example request will set the CRM Monitor Bus to follow, and the Studio Monitor Bus to not follow the CUE Mixbus.

```
{
  "msg": "set_auto_cue",
  "param": {
    "crm": true,
    "studio": false
  }
}
```

Response Format: JSON object

```
{
  "msg": "auto_cue",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"auto_cue"
param	{ [index: monitor_bus_t]: boolean }	The name of the monitor bus that needs auto-cue behavior.

See also :

- [monitor_bus_t\(1.1.26\)](#)
- [set_config_monitor_follow\(2.3.28\)](#)

2.3.5 set_config_ad_target

Routes the Microphone input or the Cleanfeed output to Slot2 of its faderbase.

For the Auron-1 (Mic/Line input card), the Microphone Input, post Insert, is sent to one of the eight Slot2 AD channels. For the Auron-2 (VoIP input card), the Cleanfeed output, post cleanfeed gain, is sent to one of the eight Slot2 AD channels.

Message Format: JSON object

```
{
  "msg": "set_config_ad_target",
  "param": {
    <module_t>: <module_slot2_ad_target_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_ad_target"
param	{ [index: module_t]: module_slot2_ad_target_t }	

Example: The following example request will set Module-1 to nowhere, Module-2 to channel #3 and Module-3 to channel #1.

```
{
  "msg": "set_config_ad_target",
  "param": {
    "module_1": "none",
    "module_2": "mic_cf_3",
    "module_3": "mic_cf_1"
  }
}
```

Response Format: JSON object

```
{
  "msg": "config_ad_target",
  "param": {
    <module_t>: <module_slot2_ad_target_t>
  }
}
```

Member	Type	Description
msg	string	"config_ad_target"
param	{ [index: module_t]: module_slot2_ad_target_t }	

See also :

- [module_t\(1.1.25\)](#)
- [module_slot2_ad_target_t\(1.1.24\)](#)

2.3.6 set_config_attenuation

Sets the attenuation of an Output Bus.

The attenuation of the left and right channels on the Output Bus can be set separately. The attenuation is a number in the range of 0 – 1023, with 1023 corresponding to 0 dB and 0 with -∞ dB.

Message Format: JSON object

```
{
  "msg": "set_config_attenuation",
  "param": {
    <attenuation_bus_t>: <number> | { <channel_t> : number }
  }
}
```

Member	Type	Description
msg	string	"set_config_attenuation"
param	{ [index: attenuation_bus_t]: number }	Set the attenuation of the left and right channel equally
	{ [index: attenuation_bus_t]: { [channel_t]: number } }	Set the attenuation per channel specifically

Response Format: JSON object

```
{
  "msg": "config_attenuation",
  "param": {
    <attenuation_bus_t>: {
      <channel_t>: number
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_attenuation"
param	{ [index: attenuation_bus_t]: { [channel_t]: number } }	

See also :

- [attenuation_bus_t\(1.1.3\)](#)
- [channel_t\(1.1.6\)](#)

2.3.7 set_config_auto_off

Configures the fader to turn the module off automatically when it is set to $-\infty$ dB.

Message Format: JSON object

```
{
  "msg": "set_config_auto_off",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_auto_off"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_auto_off",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_auto_off"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.8 set_config_auto_on

Configures the fader to turn the module on automatically when it is set from $-\infty$ dB to any higher value.

Message Format: JSON object

```
{
  "msg": "set_config_auto_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_auto_on"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_auto_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_auto_on"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.9 set_config_aux

Configures the AUX Mixbus to be pre or post fader for the specified module(s).

Message Format: JSON object

```
{
  "msg": "set_config_aux",
  "param": {
    <module_t>: <aux_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_aux"
param	{ [index: module_t]: aux_t }	

Response Format: JSON object

```
{
  "msg": "config_aux",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"config_aux"
param	{ [index: module_t]: number }	0 → pre; 1 → post

See also :

- [module_t\(1.1.25\)](#)
- [aux_t\(1.1.4\)](#)

2.3.10 set_config_cleanfeed_dim

Enables the CleanFeed to be dimmed when this module is set as TalkBack target.

Message Format: JSON object

```
{
  "msg": "set_config_cleanfeed_dim",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_cleanfeed_dim"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_cleanfeed_dim",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_cleanfeed_dim"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.11 set_config_cleanfeed_gain

Set the CleanFeed output attenuation.

Message Format: JSON object

```
{
  "msg": "set_config_cleanfeed_gain",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"set_config_cleanfeed_gain"
param	{ [index: module_t]: number }	The attenuation in range 0–1023

Response Format: JSON object

```
{
  "msg": "config_cleanfeed_gain",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"config_cleanfeed_gain"
param	{ [index: module_t]: number }	The attenuation in range 0–1023

See also :

- [module_t\(1.1.25\)](#)

2.3.12 set_config_clip_led

Set the ClipLed’s ON time in milliseconds for all modules.

Message Format: JSON object

```
{
  "msg": "set_config_clip_led",
  "param": <number>
}
```

Member	Type	Description
msg	string	"set_config_clip_led"
param	number	The Clip ON time in ms

Response Format: JSON object

```
{
  "msg": "config_clip_led",
  "param": <number>
}
```

Member	Type	Description
msg	string	"config_clip_led"
param	number	

2.3.13 set_config_cue_interlock

Sets the behavior of the CUE button. Interlocked means that there can be only one module at most on the CUE Mixbus.

Message Format: JSON object

```
{
  "msg": "set_config_cue_interlock",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_config_cue_interlock"
param	boolean	

Response Format: JSON object

```
{
  "msg": "config_cue_interlock",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"config_cue_interlock"
param	boolean	

2.3.14 set_config_dynamics

Message Format: JSON object

```
{
  "msg": "set_config_dynamics",
  "param": {
    <module_t>: {
      <dynamics_t>: <dynamics_value_t>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_dynamics"
param	{ [index: module_t]: { [index: dynamics_t]: dynamics_value_t } }	

Response Format: JSON object

```
{
  "msg": "config_dynamics",
  "param": {
    <module_t>: {
      <dynamics_t>: <dynamics_value_t>
    }
  }
}
```

Member	Type	Description
msg	string	"config_dynamics"
param	{ [index: module_t]: { [index: dynamics_t]: dynamics_value_t } }	

See also :

- [module_t\(1.1.25\)](#)
- [dynamics_t\(1.1.8\)](#)
- [dynamics_value_t\(1.2.2\)](#)

2.3.15 set_config_eq

Sets the EQ to be active or have it bypassed for the specified module(s).

Message Format: JSON object

```
{
  "msg": "set_config_eq",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_eq"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_eq",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_eq"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.16 set_config_fader_reserve

Transposes the 0dB point with +10dB.

Message Format: JSON object

```
{
  "msg": "set_config_fader_reserve",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_fader_reserve"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_fader_reserve",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_fader_reserve"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.17 set_config_gpo

Set the behavior of the module's or master's GPO.

Message Format: JSON object

```
{
  "msg": "set_config_gpo",
  "param": {
    <module_t>: <gpo_value_t>,
    <gpo_t>: <gpo_value_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_gpo"
param	{ [index: gpo_t]: gpo_value_t }	Master GPO configuration
	{ [index: module_t]: gpo_value_t }	Module GPO configuration

Response Format: JSON object

```
{
  "msg": "config_gpo",
  "param": {
    <module_t>: <gpo_value_t>,
    <gpo_t>: <gpo_value_t>
  }
}
```

Member	Type	Description
msg	string	"config_gpo"
param	{ [index: gpo_t]: gpo_value_t }	Master GPO configuration
	{ [index: module_t]: gpo_value_t }	Module GPO configuration

See also :

- [module_t\(1.1.25\)](#)
- [gpo_t\(1.1.14\)](#)
- [gpo_value_t\(1.2.4\)](#)

2.3.18 set_config_master_aes_frequency

Message Format: JSON object

```
{
  "msg": "set_config_master_aes_frequency",
  "param": <aes3_freq_t> | <number>
}
```

Member	Type	Description
msg	string	"set_config_master_aes_frequency"
param	aes3_freq_t	
	number	0 → 48 kHz
	number	48 → 48 kHz
	string	"48 kHz"
	number	1 → 96 kHz
	number	96 → 96 kHz
	string	"96 kHz"

Response Format: JSON object

```
{
  "msg": "config_master_aes_frequency",
  "param": <number>
}
```

Member	Type	Description
msg	string	"config_master_aes_frequency"
param	number	0 → 48 kHz
		1 → 96 kHz

See also :

- [aes3_freq_t\(1.1.1\)](#)

2.3.19 set_config_master_insert

Configure to include the inserts on the Master Output.

Message Format: JSON object

```
{
  "msg": "set_config_master_insert",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_config_master_insert"
param	boolean	

Response Format: JSON object

```
{
  "msg": "config_master_insert",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"config_master_insert"
param	boolean	

2.3.20 set_config_master_source

Configure the Master Output source.

Message Format: JSON object

```
{
  "msg": "set_config_master_source",
  "param": <master_source_t>
}
```

Member	Type	Description
msg	string	"set_config_master_source"
param	master_source_t	

Response Format: JSON object

```
{
  "msg": "config_master_source",
  "param": <number>
}
```

Member	Type	Description
msg	string	"config_master_source"
param	number	0 → Program Mixbus 1 → NonStop bus

See also :

- [master_source_t\(1.1.18\)](#)

2.3.21 set_config_master_stereotools

Note: not applicable for current release.

Message Format: JSON object

```
{
  "msg": "set_config_master_stereotools",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_config_master_stereotools"
param	boolean	

Response Format: JSON object

```
{
  "msg": "config_master_stereotools",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"config_master_stereotools"
param	boolean	

2.3.22 set_config_mic_at_line

The module will act as if the Microphone source was selected, even though it is Line. Useful for microphone pre-amps and compressors.

Message Format: JSON object

```
{
  "msg": "set_config_mic_at_line",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_mic_at_line"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_mic_at_line",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_mic_at_line"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.23 set_config_mic_gain

A microphone's pre-gain gain setting.

Message Format: JSON object

```
{
  "msg": "set_config_mic_gain",
  "param": {
    <module_t>: <mic_gain_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_mic_gain"
param	{ [index: module_t]: mic_gain_t }	

Response Format: JSON object

```
{
  "msg": "config_mic_gain",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"config_mic_gain"
param	{ [index: module_t]: number }	0 → 0 dB 20 → 20 dB 40 → 40 dB 60 → 60 dB

See also :

- [module_t\(1.1.25\)](#)
- [mic_gain_t\(1.1.19\)](#)

2.3.24 set_config_mic_insert

Configure to include the insert on the Microphone Input.

Message Format: JSON object

```
{
  "msg": "set_config_mic_insert",
  "param": {
    <module_t>: <bool>
  }
}
```

}

Member	Type	Description
msg	string	"set_config_mic_insert"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_mic_insert",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_mic_insert"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.25 set_config_mic_location

Sets the location of the microphone, so that Monitorbus Target Outputs can automatically be dimmed.

Message Format: JSON object

```
{
  "msg": "set_config_mic_location",
  "param": {
    <module_t>: <microphone_location_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_mic_location"
param	{ [index: module_t]: microphone_location_t }	

Response Format: JSON object

```
{
  "msg": "config_mic_location",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"config_mic_location"
param	{ [index: module_t]: number }	0 → Nowhere 1 → CRM 2 → Studio

See also :

- [module_t\(1.1.25\)](#)
- [microphone_location_t\(1.1.20\)](#)

2.3.26 set_config_module_menu_cursor_wraparound

Makes rotary encoders spin endlessly by wrapping the begin and ends of menus together. This is applicable on Module's and Master's encoders.

Message Format: JSON object

```
{
  "msg": "set_config_module_menu_cursor_wraparound",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_config_module_menu_cursor_wraparound"
param	boolean	

Response Format: JSON object

```
{
  "msg": "config_module_menu_cursor_wraparound",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"config_module_menu_cursor_wraparound"
param	boolean	

2.3.27 set_config_module_menu_timeout

timeout in ms. 0 means disabled.

Message Format: JSON object

```
{
  "msg": "set_config_module_menu_timeout",
  "param": <number>
}
```

Member	Type	Description
msg	string	"set_config_module_menu_timeout"
param	number	Timeout is ms.

Response Format: JSON object

```
{
  "msg": "config_module_menu_timeout",
  "param": <number>
}
```

Member	Type	Description
msg	string	"config_module_menu_timeout"
param	number	

2.3.28 set_config_monitor_follow

Configure a Monitorbus to automatically follow module’s routing. When a Module’s routing is changed to output to a Mixbus, the monitor will also follow to this Mixbus. When the Module’s routing is changed back, the Monitorbus will revert to its previous routing.

Message Format: JSON object

```
{
  "msg": "set_config_monitor_follow",
  "param": {
    <monitor_bus_t>: {
      <monitor_follow_bus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_follow"
param	{ [index: monitor_bus_t]: { [monitor_follow_bus_t]: boolean } }	

Example: Make the CRM bus follow CUE and VT buses, while Studio only follows VT.

```
{
  "msg": "set_config_monitor_follow",
  "param": {
    "crm": {
      "cue": true,
      "vt": true
    },
    "studio": {
      "cue": false,
      "vt": true
    }
  }
}
```

Response Format: JSON object

```
{
  "msg": "config_monitor_follow",
  "param": {
    <monitor_bus_t>: {
      <monitor_follow_bus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"config_monitor_follow"
param	{ [index: monitor_bus_t]: { [monitor_follow_bus_t]: boolean } }	

See also :

- [monitor_bus_t\(1.1.26\)](#)
- [monitor_follow_bus_t\(1.1.28\)](#)

2.3.29 set_config_monitor_insert

Configure to include the inserts on the Monitorbus Output.

Message Format: JSON object

```
{
  "msg": "set_config_monitor_insert",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_insert"
param	{ [index: monitor_bus_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_monitor_insert",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_monitor_insert"
param	{ [index: monitor_bus_t]: boolean }	

See also :

- [monitor_bus_t\(1.1.26\)](#)

2.3.30 set_config_monitor_interlock

Sets Monitorbus interlocked routing. There can be only one Mixbus monitored at a given time. Selecting a Mixbus deselects the current.

Message Format: JSON object

```
{
  "msg": "set_config_monitor_interlock",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_interlock"
param	{ [index: monitor_bus_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "config_monitor_interlock",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"config_monitor_interlock"
param	{ [index: monitor_bus_t]: boolean }	

2.3.31 set_config_monitor_mute

Sets automatic dim capability for a monitor bus target.

Obsolete: use [set_config_monitor_mute_level\(2.3.32\)](#).

Message Format: JSON object

```
{
  "msg": "set_config_monitor_mute",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_mute"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

Response Format: JSON object

```
{
  "msg": "config_monitor_mute",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"config_monitor_mute"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

See also :

- [monitor_bus_t\(1.1.26\)](#)
- [monitor_bus_target_t\(1.1.27\)](#)

2.3.32 set_config_monitor_mute_level

Sets the attenuation level for the Monitorbus Target when the bus must be dimmed/muted. The currently set output attenuation, set with the potentiometer, and this attenuation are added when dim or muting is required. When no dim or mute is required, the potentiometer level is followed.

Message Format: JSON object

```
{
  "msg": "set_config_monitor_mute_level",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <number>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_mute_level"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: number } }	

Example: The following request sets the CRM Speakers attenuation reduction to half-way.

```
{
  "msg": "set_config_monitor_mute_level",
  "param": {
    "crm": {
      "speakers": 512
    }
  }
}
```

Response Format: JSON object

```
{
  "msg": "config_monitor_mute_level",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <number>
    }
  }
}
```

Member	Type	Description
msg	string	"config_monitor_mute_level"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: number } }	

See also :

- [monitor_bus_t\(1.1.26\)](#)
- [monitor_bus_target_t\(1.1.27\)](#)

2.3.33 set_config_monitor_talkback

Message Format: JSON object

```
{
  "msg": "set_config_monitor_talkback",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: {
        <talkback_bus_t>: <bool>
      }
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_talkback"
param	object	

Response Format: JSON object

```
{
  "msg": "config_monitor_talkback",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: {
        <talkback_bus_t>: <bool>
      }
    }
  }
}
```

Member	Type	Description
msg	string	"config_monitor_talkback"
param	object	

See also :

- [monitor_bus_t\(1.1.26\)](#)
- [monitor_bus_target_t\(1.1.27\)](#)
- [talkback_bus_t\(1.1.33\)](#)

2.3.34 set_config_monitor_talkback_dim

Enables dimming of the routed Mixbus(es) while TalkBack is active.

Message Format: JSON object

```
{
  "msg": "set_config_monitor_talkback_dim",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_monitor_talkback_dim"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

Response Format: JSON object

```
{
  "msg": "config_monitor_talkback_dim",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"config_monitor_talkback_dim"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

2.3.35 set_config_non_stop

Note: there can be only one non stop source at any given time.

Message Format: JSON object

```
{
  "msg": "set_config_non_stop",
  "param": {
    <module_t>: <module_non_stop_source_t>,
    <afu_t>: <faderbase_non_stop_source_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_non_stop"
param	{ [index: module_t]: module_non_stop_source_t }	
	{ [index: afu_t]: faderbase_non_stop_source_t }	

Response Format: JSON object

```
{
  "msg": "config_non_stop",
  "param": {
    <module_t>: <module_non_stop_source_t>,
    <afu_t>: <faderbase_non_stop_source_t>
  }
}
```

```
}
}
```

Member	Type	Description
msg	string	"config_non_stop"
param	{ [index: module_t]: module_non_stop_source_t }	
	{ [index: afu_t]: faderbase_non_stop_source_t }	

See also :

- [module_t\(1.1.25\)](#)
- [afu_t\(1.1.2\)](#)
- [module_non_stop_source_t\(1.1.23\)](#)
- [faderbase_non_stop_source_t\(1.1.9\)](#)

2.3.36 set_config_on_air

Connects a give Source of a Module to an OnAir group. When the Source becomes active, the OnAir group will become active. When all the connected Sources are inactive, the OnAir group will become inactive.

A source is active when:

1. it is choosen a the Module's Source and
2. the Module is turned On and
3. the Module's Fader is up (set to a value of -70 dB or heigher).

Message Format: JSON object

```
{
  "msg": "set_config_on_air",
  "param": {
    <module_t>: {
      <onair_t>: {
        <source_t>: <bool>
      }
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_on_air"
param	object	

Response Format: JSON object

```
{
  "msg": "config_on_air",
  "param": {
    <module_t>: {
      <onair_t>: {
        <source_t>: <bool>
      }
    }
  }
}
```

```

    }
  }
}

```

Member	Type	Description
msg	string	"config_on_air"
param	object	

See also :

- [module_t\(1.1.25\)](#)
- [onair_t\(1.1.29\)](#)
- [source_t\(1.1.32\)](#)

2.3.37 set_config_phantom

Enables phantom power on the Microphone's Input on the selected module.

Message Format: JSON object

```

{
  "msg": "set_config_phantom",
  "param": {
    <module_t>: <bool>
  }
}

```

Member	Type	Description
msg	string	"set_config_phantom"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```

{
  "msg": "config_phantom",
  "param": {
    <module_t>: <bool>
  }
}

```

Member	Type	Description
msg	string	"config_phantom"
param	{ [index: module_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)

2.3.38 set_config_route

Route the module's output to the specified Mixbus(es).

Message Format: JSON object

```
{
  "msg": "set_config_route",
  "param": {
    <module_t>: {
      <module_mixbus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"set_config_route"
param	{ [index: module_t]: { [index: module_mixbus_t]: boolean } }	

Response Format: JSON object

```
{
  "msg": "config_route",
  "param": {
    <module_t>: {
      <module_mixbus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"config_route"
param	{ [index: module_t]: { [index: module_mixbus_t]: boolean } }	

See also :

- [module_t\(1.1.25\)](#)
- [module_mixbus_t\(1.1.22\)](#)
- [set_cue\(2.3.43\)](#)
- [set_voicetrack\(2.3.57\)](#)

2.3.39 set_config_silence_detection

Configure Silence Detection parameters to automatically switch the Master Output to the NonStop Bus.

Message Format: JSON object

```
{
  "msg": "set_config_silence_detection",
  "param": <silence_detection_value_t>
}
```

Member	Type	Description
msg	string	"set_config_silence_detection"
param	silence_detection_value_t	

Response Format: JSON object

```
{
  "msg": "config_silence_detection",
  "param": <silence_detection_value_t>
}
```

Member	Type	Description
msg	string	"config_silence_detection"
param	silence_detection_value_t	

See also :

- [silence_detection_value_t\(1.2.5\)](#)
- [set_config_master_source\(2.3.20\)](#)

2.3.40 set_config_source

The module must not be *active* to change the source. The source must be available to the module to change the source to.

A source is active when:

1. the Module is turned On and
2. the Module's Fader is up (set to a value of -70 dB or heigher).

Message Format: JSON object

```
{
  "msg": "set_config_source",
  "param": {
    <module_t>: <source_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_source"
param	{ [index: module_t]: source_t }	

Response Format: JSON object

```
{
  "msg": "config_source",
  "param": {
    <module_1>: <number>
  }
}
```

Member	Type	Description
msg	string	"config_source"
param	{ [index: module_t]: number }	0 → None 1 → Line 2 → Sl_Ch1 3 → Sl_Ch2 4 → S2_Ch1 5 → S2_Ch2 6 → S2_Ch3 7 → S2_Ch4 8 → S2_Ch5 9 → S2_Ch6 10 → S2_Ch7 11 → S2_Ch8 12 → VoIP 13 → Mic 14 → Bal.Line

See also :

- [module_t\(1.1.25\)](#)
- [source_t\(1.1.32\)](#)

2.3.41 set_config_source_name

Set the name on the module’s display for the current selected input source.

Source names are shared between modules within the same faderbase when the input is set to a Slot1 or Slot2 source.

Note: The source name is limited to eight characters.

Note 2: The source name is encoded in UTF-8.

Message Format: JSON object

```
{
  "msg": "set_config_source_name",
  "param": {
    <module_t>: <string>
  }
}
```

Member	Type	Description
msg	string	"set_config_source_name"
param	{ [index: module_t]: string }	

Example: Set the name of the current source of Module 1 to "DJ".

```
{
  "msg": "set_config_source_name",
  "param": {
    "module_1": "DJ"
  }
}
```

Response Format: JSON object

```
{
  "msg": "config_source_name",
  "param": {
    <module_t>: <string>
  }
}
```

Member	Type	Description
msg	string	"config_source_name"
param	{ [index: module_t]: string }	

See also :

- [module_t\(1.1.25\)](#)

2.3.42 set_config_studio_remote

Enable the use of the buttons on the Studio Remote.

Cough will mute the output of the module.

Comm will re-route the module's output from the Program Mixbus to the CUE Mixbus. This is best combined with auto follow of the CUE Mixbus for either the CRM and/or Studio Monitorbuses.

CommPrivate will not use the CUE Mixbus but rather TalkBack straight into CRM Phones Monitorbus Target Output when the Com button is pressed.

Message Format: JSON object

```
{
  "msg": "set_config_studio_remote",
  "param": {
    <module_t>: <config_studio_remote_value_t>
  }
}
```

Member	Type	Description
msg	string	"set_config_studio_remote"
param	object	

Response Format: JSON object

```
{
  "msg": "config_studio_remote",
  "param": {
    <module_t>: <config_studio_remote_value_t>
  }
}
```

Member	Type	Description
msg	string	"config_studio_remote"
param	object	

See also :

- [module_t\(1.1.25\)](#)
- [config_studio_remote_value_t\(1.2.1\)](#)
- [set_config_monitor_follow\(2.3.28\)](#)

2.3.43 set_cue

Alias for [set_config_route\(2.3.38\)](#).

Message Format: JSON object

```
{
  "msg": "set_cue",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_cue"
param	object	

Response Format: JSON object

```
{
  "msg": "cue",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"cue"
param	{ [index: module_t]: boolean }	

See also :

- [set_config_route\(2.3.38\)](#)

2.3.44 set_fader

Set fader of module to position.

Position 0 is bottom (-∞ dB) and 1023 is top (0 dB or +10 dB when Fader Reserve is active)

Message Format: JSON object

```
{
  "msg": "set_fader",
  "param": {
    <module_t>: <number>
  }
}
```

```
}
}
```

Member	Type	Description
msg	string	"set_fader"
param	{ [index: module_t]: number }	

Response Format: JSON object

```
{
  "msg": "fader",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"fader"
param	{ [index: module_t]: number }	

See also :

- [module_t\(1.1.25\)](#)
- [set_config_fader_reserve\(2.3.16\)](#)

2.3.45 set_gpo

Sets the state of the GPO.

The behavior of GPO is configured with [set_config_gpo\(2.3.17\)](#).

Message Format: JSON object

```
{
  "msg": "set_gpo",
  "param": {
    <module_t>: <bool>,
    <gpo_t>: bool
  }
}
```

Member	Type	Description
msg	string	"set_gpo"
param	{ [index: module_t]: boolean }	
	{ [index: gpo_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "gpo",
  "param": {
    <module_t>: <bool>,
    <gpo_t>: bool
  }
}
```

}

Member	Type	Description
msg	string	"gpo"
param	{ [index: module_t]: boolean }	
	{ [index: gpo_t]: boolean }	

See also :

- [module_t\(1.1.25\)](#)
- [gpo_t\(1.1.14\)](#)
- [set_config_gpo\(2.3.17\)](#)

2.3.46 set_indicator

Controls the module’s indicator LEDs.

Message Format: JSON object

```
{
  "msg": "set_indicator",
  "param": {
    <module_t>: {
      <indicator_led_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"set_indicator"
param	{ [index: module_t]: { [index: indicator_led_t]: boolean } }	

Response Format: JSON object

```
{
  "msg": "indicator",
  "param": {
    <module_t>: {
      <indicator_led_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"indicator"
param	{ [index: module_t]: { [index: indicator_led_t]: boolean } }	

See also :

- [module_t\(1.1.25\)](#)
- [indicator_led_t\(1.1.15\)](#)

2.3.47 set_level

Set the Output level of a module. Normally this follows the fader's value, corrected with the fader reserve when set.

Message Format: JSON object

```
{
  "msg": "set_level",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"set_level"
param	{ [index: module_t]: number }	

Response Format: JSON object

```
{
  "msg": "level",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"level"
param	{ [index: module_t]: number }	

See also :

- [module_t\(1.1.25\)](#)
- [set_fader\(2.3.44\)](#)
- [set_config_fader_reserve\(2.3.16\)](#)

2.3.48 set_master_ctrl_led

Sets the state of the switch or LED color behind the switch.

Message Format: JSON object

```
{
  "msg": "set_master_ctrl_led",
  "param": {
    <master_ctrl_switch_t>: <bool> | <string> | <switch_led_t>
  }
}
```

Member	Type	Description
msg	string	"set_master_ctrl_led"
param	{ [index: master_ctrl_switch_t]: boolean }	Set the button pressed state
	{ [index: master_ctrl_switch_t]: string }	Set static LED color
	{ [index: master_ctrl_switch_t]: switch_led_t }	Set blink-speed and colors

Response Format: JSON object

```
{
  "msg": "master_ctrl_led",
  "param": {
    <master_ctrl_switch_t>: <switch_ctrl_t>
  }
}
```

Member	Type	Description
msg	string	"master_ctrl_led"
param	{ [index: master_ctrl_switch_t]: switch_led_t }	State, blink-speed and colors

See also :

- [master_ctrl_switch_t\(1.1.16\)](#)
- [switch_led_t\(1.2.7\)](#)

2.3.49 set_master_encoder

Message Format: JSON object

```
{
  "msg": "set_master_encoder",
  "param": {
    <master_encoder_t>: <bool> | <number> | <encoder_t>
  }
}
```

Member	Type	Description
msg	string	"set_master_encoder"
param	{ [index: master_encoder_t]: boolean }	Set the button state of the encoder
	{ [index: master_encoder_t]: number }	Set the rotation state of the encoder
	{ [index: master_encoder_t]: encoder_t }	Set both button state and rotation of the encoder

Response Format: JSON object

```
{
  "msg": "master_encoder",
  "param": {
    <master_encoder_t>: <encoder_t>
  }
}
```

Member	Type	Description
msg	string	"master_encoder"
param	{ [index: master_encoder_t]: encoder_t }	Shows both button state and rotation of the encoder

See also :

- [master_encoder_t\(1.1.17\)](#)
- [encoder_t\(1.2.3\)](#)

2.3.50 set_master_mute

Sets all Master Output's attenuation to $-\infty$ dB.

Message Format: JSON object

```
{
  "msg": "set_master_mute",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_master_mute"
param	boolean	

Response Format: JSON object

```
{
  "msg": "master_mute",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"master_mute"
param	boolean	

2.3.51 set_module_ctrl_led

Sets the state of the switch or LED color behind the switch.

Message Format: JSON object

```
{
  "msg": "set_module_ctrl_led",
  "param": {
    <module_t>: {
      <module_led_t>: <bool> | <string> | <switch_led_t>
    }
  }
}
```

Member	Type	Description
msg	string	"set_module_ctrl_led"
param	{ [index: module_t]: { [index: module_led_t]: boolean } }	Set button state
	{ [index: module_t]: { [index: module_led_t]: string } }	Set static color
	{ [index: module_t]: { [index: module_led_t]: switch_led_t } }	Set blink-speed and colors

Response Format: JSON object

```
{
  "msg": "module_ctrl_led",
  "param": {
    <module_t>: {
      <module_led_t>: <switch_led_t>
    }
  }
}
```

Member	Type	Description
msg	string	"module_ctrl_led"
param	{ [index: module_t]: { [index: module_led_t]: switch_led_t } }	Shows blink-speed and colors

See also :

- [module_t\(1.1.25\)](#)
- [module_led_t\(1.1.21\)](#)
- [switch_led_t\(1.2.7\)](#)

2.3.52 set_module_encoder

Message Format: JSON object

```
{
  "msg": "set_module_encoder",
  "param": {
    <module_t>: <bool> | <number> | <encoder_t>
  }
}
```

Member	Type	Description
msg	string	"set_module_encoder"
param	{ [index: module_t]: boolean }	Set the button state of the encoder
	{ [index: module_t]: number }	Set the rotation state of the encoder
	{ [index: module_t]: encoder_t }	Set both button state and rotation of the encoder

Response Format: JSON object

```
{
  "msg": "module_encoder",
  "param": {
    <module_t>: <encoder_t>
  }
}
```

Member	Type	Description
msg	string	"module_encoder"
param	{ [index: module_t]: encoder_t }	Set both button state and rotation of the encoder

See also :

- [module_t\(1.1.25\)](#)
- [encoder_t\(1.2.3\)](#)

2.3.53 set_non_stop

Alias for [set_config_master_source\(2.3.20\)](#).

Message Format: JSON object

```
{
  "msg": "set_non_stop",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"set_non_stop"
param	boolean	

Response Format: JSON object

```
{
  "msg": "non_stop",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"non_stop"
param	boolean	

2.3.54 set_on

Turn the module on, e.g. put the module's Output to the routed Mixbuses (except for the CUE Mixbus).

Message Format: JSON object

```
{
  "msg": "set_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_on"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "on",
  "param": {}
}
```

Member	Type	Description
msg	string	"on"
param	{ [index: module_t]: boolean }	

2.3.55 set_screen_mode

Sets all the modules of the console to a specific parameter screen.

Message Format: JSON object

```
{
  "msg": "set_screen_mode",
  "param": <screen_mode_t>
}
```

Member	Type	Description
msg	string	"set_screen_mode"
param	screen_mode_t	

Response Format: JSON object

```
{
  "msg": "screen_mode",
  "param": <screen_mode_t>
}
```

Member	Type	Description
msg	string	"screen_mode"
param	number	

See also :

- [screen_mode_t\(1.1.30\)](#)

2.3.56 set_studio_remote

Controls the StudioRemote like the physical thing.

Message Format: JSON object

```
{
  "msg": "set_studio_remote",
  "param": {
    <module_t>: <studio_remote_t>
  }
}
```

Member	Type	Description
msg	string	"set_studio_remote"
param	{ [index: module_t]: studio_remote_t }	

Response Format: JSON object

```
{
  "msg": "studio_remote",
  "param": {
    <module_t>: <studio_remote_t>
  }
}
```

Member	Type	Description
msg	string	"studio_remote"
param	{ [index: module_t]: studio_remote_t }	

See also :

- [module_t\(1.1.25\)](#)
- [studio_remote_t\(1.2.6\)](#)

2.3.57 set_voicetrack

Alias for [set_config_route\(2.3.38\)](#).

Message Format: JSON object

```
{
  "msg": "set_voicetrack",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_voicetrack"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "voicetrack",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"voicetrack"
param	{ [index: module_t]: boolean }	

2.3.58 set_voip_connect

Message Format: JSON object

```
{
  "msg": "set_voip_connect",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"set_voip_connect"
param	{ [index: module_t]: boolean }	

Response Format: JSON object

```
{
  "msg": "voip_connect",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"voip_connect"
param	{ [index: module_t]: boolean }	

2.4 EmberPlus

Do not use, internal only, will be removed without notice.

2.4.1 get_state_emberplus_connected

```
{
  "msg": "get_state_emberplus_connected"
}
```

2.4.2 set_state_emberplus_connected

```
{
  "msg": "set_state_emberplus_connected"
}
```

2.4.3 get_value

```
{  
  "msg": "get_value"  
}
```

2.4.4 set_value

```
{  
  "msg": "set_value"  
}
```

2.4.5 start_watching

```
{  
  "msg": "start_watching"  
}
```

2.4.6 stop_watching

```
{  
  "msg": "stop_watching"  
}
```

3 Events

3.1 Auron specific

3.1.1 on_config_ad_target

Message Format: JSON object

```
{
  "msg": "on_config_ad_target",
  "param": {
    <module_t>: <module_slot2_ad_target_t>
  }
}
```

Member	Type	Description
msg	string	"on_config_ad_target"
param	{ [index: module_t]: module_slot2_ad_target_t }	

3.1.2 on_config_attenuation

Message Format: JSON object

```
{
  "msg": "on_config_attenuation",
  "param": {
    <attenuation_bus_t>: {
      <channel_t>: number
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_attenuation"
param	{ [index: attenuation_bus_t]: { [index: channel_t]: number } }	

3.1.3 on_config_auto_off

Message Format: JSON object

```
{
  "msg": "on_config_auto_off",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_auto_off"
param	{ [index: module_t]: boolean }	

3.1.4 on_config_auto_on

Message Format: JSON object

```
{
  "msg": "on_config_auto_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_auto_on"
param	{ [index: module_t]: boolean }	

3.1.5 on_config_aux

Message Format: JSON object

```
{
  "msg": "on_config_aux",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_config_aux"
param	{ [index: module_t]: number }	0 → AUX PRE 1 → AUX POST

3.1.6 on_config_cleanfeed_dim

Message Format: JSON object

```
{
  "msg": "on_config_cleanfeed_dim",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_cleanfeed_dim"
param	{ [index: module_t]: boolean }	

3.1.7 on_config_cleanfeed_gain

Message Format: JSON object

```
{
  "msg": "on_config_cleanfeed_gain",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_config_cleanfeed_gain"
param	{ [index: module_t]: number }	

3.1.8 on_config_clip_led

Message Format: JSON object

```
{
  "msg": "on_config_clip_led",
  "param": <number>
}
```

Member	Type	Description
msg	string	"on_config_clip_led"
param	number	

3.1.9 on_config_cue_interlock

Message Format: JSON object

```
{
  "msg": "on_config_cue_interlock",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_config_cue_interlock"
param	boolean	

3.1.10 on_config_dynamics

Message Format: JSON object

```
{
  "msg": "on_config_dynamics",
  "param": {
    <module_t>: {
      <dynamics_t>: <dynamics_value_t>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_dynamics"
param	{ [index: module_t]: { [index: dynamics_t]: dynamics_value_t } }	

3.1.11 on_config_eq

Message Format: JSON object

```
{
  "msg": "on_config_eq",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_eq"
param	{ [index: module_t]: boolean }	

3.1.12 on_config_fader_reserve

Message Format: JSON object

```
{
  "msg": "on_config_fader_reserve",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_fader_reserve"
param	{ [index: module_t]: boolean }	

3.1.13 on_config_gpo

Message Format: JSON object

```
{
  "msg": "on_config_gpo",
  "param": {
    <module_t>: <gpo_value_t>,
    <gpo_t>: <gpo_value_t>
  }
}
```

Member	Type	Description
msg	string	"on_config_gpo"
param	{ [index: gpo_t]: gpo_value_t }	Master GPO configuration
	{ [index: module_t]: gpo_value_t }	Module GPO configuration

3.1.14 on_config_master_aes3_frequency

Message Format: JSON object

```
{
  "msg": "on_config_master_aes3_frequency",
  "param": <number>
}
```

Member	Type	Description
msg	string	"on_config_master_aes3_frequency"
param	number	0 → 48 kHz 1 → 96 kHz

3.1.15 on_config_master_insert

Message Format: JSON object

```
{
  "msg": "on_config_master_insert",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_config_master_insert"
param	boolean	

3.1.16 on_config_master_stereotools

Message Format: JSON object

```
{
  "msg": "on_config_master_stereotools",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_config_master_stereotools"
param	boolean	

3.1.17 on_config_mic_at_line

Message Format: JSON object

```
{
  "msg": "on_config_mic_at_line",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_mic_at_line"
param	{ [index: module_t]: boolean }	

3.1.18 on_config_mic_gain

Message Format: JSON object

```
{
  "msg": "on_config_mic_gain",
  "param": {
    <module_t>: <number>
  }
}
```

```
}
}
```

Member	Type	Description
msg	string	"on_config_mic_gain"
param	{ [index: module_t]: number }	0 → 0 dB 20 → 20 dB 40 → 40 dB 60 → 60 dB

3.1.19 on_config_mic_insert

Message Format: JSON object

```
{
  "msg": "on_config_mic_insert",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_mic_insert"
param	{ [index: module_t]: boolean }	

3.1.20 on_config_mic_location

Message Format: JSON object

```
{
  "msg": "on_config_mic_location",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_config_mic_location"
param	{ [index: module_t]: number }	0 → Nowhere 1 → CRM 2 → Studio

3.1.21 on_config_module_menu_cursor_wraparound

Message Format: JSON object

```
{
  "msg": "on_config_module_menu_cursor_wraparound",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_config_module_menu_cursor_wraparound"
param	boolean	

3.1.22 on_config_module_menu_timeout

Message Format: JSON object

```
{
  "msg": "on_config_module_menu_timeout",
  "param": <number>
}
```

Member	Type	Description
msg	string	"on_config_module_menu_timeout"
param	number	

3.1.23 on_config_monitor_follow

Message Format: JSON object

```
{
  "msg": "on_config_monitor_follow",
  "param": {
    <monitor_bus_t>: {
      <monitor_follow_bus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_follow"
param	{ [index: monitor_bus_t]: { [monitor_follow_bus_t]: boolean } }	

3.1.24 on_config_monitor_insert

Message Format: JSON object

```
{
  "msg": "on_config_monitor_insert",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_insert"
param	{ [index: monitor_bus_t]: boolean }	

3.1.25 on_config_monitor_interlock

Message Format: JSON object

```
{
  "msg": "on_config_monitor_interlock",
  "param": {
    <monitor_bus_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_interlock"
param	{ [index: monitor_bus_t]: boolean }	

3.1.26 on_config_monitor_mute

Message Format: JSON object

```
{
  "msg": "on_config_monitor_mute",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_mute"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

3.1.27 on_config_monitor_mute_level

Message Format: JSON object

```
{
  "msg": "on_config_monitor_mute_level",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <number>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_mute_level"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: number } }	

3.1.28 on_config_monitor_talkback

Message Format: JSON object

```
{
  "msg": "on_config_monitor_talkback",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: {
        <talkback_bus_t>: <bool>
      }
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_talkback"
param	object	

3.1.29 on_config_monitor_talkback_dim

Message Format: JSON object

```
{
  "msg": "on_config_monitor_talkback_dim",
  "param": {
    <monitor_bus_t>: {
      <monitor_bus_target_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_monitor_talkback_dim"
param	{ [index: monitor_bus_t]: { [index: monitor_bus_target_t]: boolean } }	

3.1.30 on_config_non_stop

Message Format: JSON object

```
{
  "msg": "on_config_non_stop",
  "param": {
    <module_t>: <module_non_stop_source_t>,
    <afu_t>: <faderbase_non_stop_source_t>
  }
}
```

Member	Type	Description
msg	string	"on_config_non_stop"
param	{ [index: module_t]: module_non_stop_source_t } { [index: afu_t]: faderbase_non_stop_source_t }	

3.1.31 on_config_on_air

Message Format: JSON object

```
{
  "msg": "on_config_on_air",
  "param": {
    <module_t>: {
      <onair_t>: {
        <source_t>: <bool>
      }
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_on_air"
param	{ [index: module_t]: { [index: onair_t]: { [index: source_t]: boolean } } }	

3.1.32 on_config_phantom

Message Format: JSON object

```
{
  "msg": "on_config_phantom",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_config_phantom"
param	{ [index: module_t]: boolean }	

3.1.33 on_config_route

Message Format: JSON object

```
{
  "msg": "on_config_route",
  "param": {
    <module_t>: {
      <module_mixbus_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"on_config_route"
param	{ [index: module_t]: { [index: module_mixbus_t]: boolean } }	

3.1.34 on_config_silence_detection

Message Format: JSON object

```
{
  "msg": "on_config_silence_detection",
  "param": <silence_detection_value_t>
}
```

Member	Type	Description
msg	string	"on_config_silence_detection"
param	silence_detection_value_t	

3.1.35 on_config_source

Message Format: JSON object

```
{
  "msg": "on_config_source",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_config_source"
param	{ [index: module_t]: number }	0 → None 1 → Line 2 → Sl_Ch1 3 → Sl_Ch2 4 → S2_Ch1 5 → S2_Ch2 6 → S2_Ch3 7 → S2_Ch4 8 → S2_Ch5 9 → S2_Ch6 10 → S2_Ch7 11 → S2_Ch8 12 → VoIP 13 → Mic 14 → Bal.Line

3.1.36 on_config_source_name

Message Format: JSON object

```
{
  "msg": "on_config_source_name",
  "param": {
    <module_t>: <string>
  }
}
```

Member	Type	Description
msg	string	"on_config_source_name"
param	{ [index: module_t]: string }	New name of the module's current source

3.1.37 on_config_studio_remote

Message Format: JSON object

```
{
  "msg": "on_config_studio_remote",
  "param": {
    <module_t>: <config_studio_remote_value_t>
  }
}
```

Member	Type	Description
msg	string	"on_config_studio_remote"
param	{ [index: module_t]: config_studio_remote_value_t }	

3.1.38 on_ctrl_key

Message Format: JSON object

```
{
  "msg": "on_ctrl_key",
  "param": {
    <module_t>: {
```

```

    <module_led_t>: <bool>
  },
  <master_ctrl_switch_t>: <bool>
}

```

Member	Type	Description
msg	string	"on_ctrl_key"
param	{ [index: module_t]: { [index: module_led_t]: boolean } }	
	{ [index: master_ctrl_switch_t]: boolean }	

3.1.39 on_ctrl_led

Message Format: JSON object

```

{
  "msg": "on_ctrl_led",
  "param": {
    <module_t>: {
      <module_led_t>: <switch_led_t>
    },
    <master_ctrl_switch_t>: <switch_led_t>
  }
}

```

Member	Type	Description
msg	string	"on_ctrl_led"
param	{ [index: module_t]: { [index: module_led_t]: switch_led_t } }	
	{ [index: master_ctrl_switch_t]: switch_led_t }	

3.1.40 on_cue

Message Format: JSON object

```

{
  "msg": "on_cue",
  "param": {
    <module_t>: <bool>
  }
}

```

Member	Type	Description
msg	string	"on_cue"
param	{ [index: module_t]: boolean }	

3.1.41 on_dynamic_gain:module_X

This message is unique per module, due to its high frequency updates.

Message Format: JSON object

```

{
  "msg": "on_dynamic_gain:module_X",
  "param": <number>
}

```

Member	Type	Description
msg	string	"on_dynamic_gain:module_X"
param	number	Dynamic Gain value in dB

3.1.42 on_encoder

This message will be sent for any encoder on the mixer, including the module's encoders. For a rotation, first a message will be sent with the rotation, followed by a message with a rotation of 0.

Message Format: JSON object

```
{
  "msg": "on_encoder",
  "param": {
    <module_t>: <encoder_t>,
    <master_encoder_t>: <encoder_t>
  }
}
```

Member	Type	Description
msg	string	"on_encoder"
param	object	

3.1.43 on_fader

Message Format: JSON object

```
{
  "msg": "on_fader",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_fader"
param	{ [index: module_t]: number }	

3.1.44 on_fader_start

Message Format: JSON object

```
{
  "msg": "on_fader_start",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_fader_start"
param	{ [index: module_t]: boolean }	

3.1.45 on_gpo

Message Format: JSON object

```
{
  "msg": "on_gpo",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_gpo"
param	{ [index: module_t]: boolean }	

3.1.46 on_indicator

Message Format: JSON object

```
{
  "msg": "on_indicator",
  "param": {
    <module_t>: {
      <indicator_led_t>: <bool>
    }
  }
}
```

Member	Type	Description
msg	string	"on_indicator"
param	{ [index: module_t]: { [index: indicator_led_t]: boolean } }	

3.1.47 on_level

Message Format: JSON object

```
{
  "msg": "on_level",
  "param": {
    <module_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_level"
param	{ [index: module_t]: number }	

3.1.48 on_master_mute

Message Format: JSON object

```
{
  "msg": "on_master_mute",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_master_mute"
param	boolean	

3.1.49 on_metering:master

Message Format: JSON object

```
{
  "msg": "on_metering:master",
  "param": {
    <master_metering_bus_t>: {
      <channel_t>: number
    }
  }
}
```

Member	Type	Description
msg	string	"on_metering:master"
param	{ [index: ??]: { [index: channel_t]: number } }	

3.1.50 on_metering:module_X

This message is unique per module, due to its high frequency updates. These measurements are taken post Gain, pre-On/Fader.

Message Format: JSON object

```
{
  "msg": "on_metering:module_X",
  "param": {
    <channel_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_metering:module_X"
param	{ [index: channel_t]: number }	Level of the channel in dB

3.1.51 on_metering_post:module_X

This message is unique per module, due to its high frequency updates. These measurements are taken post Fader/-Dynamics.

Message Format: JSON object

```
{
  "msg": "on_metering_post:module_X",
  "param": {
    <channel_t>: <number>
  }
}
```

Member	Type	Description
msg	string	"on_metering_post:module_X"
param	{ [index: channel_t]: number }	Level of the channel in dB

3.1.52 on_mic_on

Message Format: JSON object

```
{
  "msg": "on_mic_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_mic_on"
param	{ [index: module_t]: boolean }	

3.1.53 on_module_active

Message Format: JSON object

```
{
  "msg": "on_module_active",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_module_active"
param	{ [index: module_t]: boolean }	

3.1.54 on_non_stop

Message Format: JSON object

```
{
  "msg": "on_non_stop",
  "param": <number>
}
```

Member	Type	Description
msg	string	"on_non_stop"
param	number	0 → PGM 1 → NonStop

3.1.55 on_on

Message Format: JSON object

```
{
  "msg": "on_on",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_on"
param	{ [index: module_t]: boolean }	

3.1.56 on_on_air

Message Format: JSON object

```
{
  "msg": "on_on_air",
  "param": {}
}
```

Member	Type	Description
msg	string	"on_on_air"
param	object	

3.1.57 on_phone_ringing

Message Format: JSON object

```
{
  "msg": "on_phone_ringing",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_phone_ringing"
param	{ [index: module_t]: boolean }	

3.1.58 on_potmeter

Message Format: JSON object

```
{
  "msg": "on_potmeter",
  "param": {
    "crm_phones": <number>,
    "crm_speakers": <number>,
    "studio_phones": <number>,
    "studio_speakers": <number>
  }
}
```

Member	Type	Description
msg	string	"on_potmeter"
param	{ [index: ??]: number }	Level of potentiometer in range 0–1023

3.1.59 on_screen_mode**Message Format:** JSON object

```
{
  "msg": "on_screen_mode",
  "param": <screen_mode_t>
}
```

Member	Type	Description
msg	string	"on_screen_mode"
param	screen_mode_t	

3.1.60 on_silence_detection_alarm**Message Format:** JSON object

```
{
  "msg": "on_silence_detection_alarm",
  "param": <bool>
}
```

Member	Type	Description
msg	string	"on_silence_detection_alarm"
param	boolean	

3.1.61 on_studio_remote**Message Format:** JSON object

```
{
  "msg": "on_studio_remote",
  "param": {
    <studio_remote_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_studio_remote"
param	{ [index: studio_remote_t]: boolean }	

3.1.62 on_voicetrack**Message Format:** JSON object

```
{
  "msg": "on_voicetrack",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_voicetrack"
param	{ [index: module_t]: boolean }	

3.1.63 on_voip_connect

Message Format: JSON object

```
{
  "msg": "on_voip_connect",
  "param": {
    <module_t>: <bool>
  }
}
```

Member	Type	Description
msg	string	"on_voip_connect"
param	{ [index: module_t]: boolean }	

3.2 EmberPlus

3.2.1 on_value_changed

Message Format: JSON object

```
{
  "msg": "on_value_changed",
  "param": {}
}
```

Member	Type	Description
msg	string	"on_value_changed"
param	object	