

AIRLITE & WEBSTATION

WebSocket API Reference Manual

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2 Changelog

3 Enums

3.1 <ctrl_key_t>

Constraints:

WEBSTATION: "7a", "8a", "7b", "8b" n.a.

Type	Value	Description
String	"a1"	Control key 1 column A
	"a2"	Control key 2 column A
	"a3"	Control key 3 column A
	"a4"	Control key 4 column A
	"a5"	Control key 5 column A
	"a6"	Control key 6 column A
	"a7"	Control key 7 column A
	"a8"	Control key 8 column A
	"b1"	Control key 1 column B
	"b2"	Control key 2 column B
	"b3"	Control key 3 column B
	"b4"	Control key 4 column B
	"b5"	Control key 5 column B
	"b6"	Control key 6 column B
	"b7"	Control key 7 column B
	"b8"	Control key 8 column B
	"*"	All Control keys

3.2 <color_t>

Type	Value	Description
String	"off"	LED off
	"red"	LED red
	"green"	LED green

3.3 <blink_speed_t>

Type	Value	Description
String	"slow"	T=800ms
	"normal"	T=400ms
	"fast"	T=200ms

3.4 <modulet>

Constraints:

WEBSTATION: "mod7", "mod8" n.a.

Type	Value	Description
String	"mod1"	Module 1
	"mod2"	Module 2
	"mod3"	Module 3
	"mod4"	Module 4
	"mod5"	Module 5
	"mod6"	Module 6
	"mod7"	Module 7
	"mod8"	Module 8
	"*"	All

3.5 <cue_t>

Constraints:

WEBSTATION: "mod7"..."air" n.a.

Type	Value	Description
String	"mod1"	Module 1
	"mod2"	Module 2
	"mod3"	Module 3
	"mod4"	Module 4
	"mod5"	Module 5
	"mod6"	Module 6
	"mod7"	Module 7
	"mod8"	Module 8
	"aux"	Aux
	"non_stop"	NonStop
	"air"	Air
	"*"	All

3.6 <auto_cue_t>

Constraints:

WEBSTATION: "announcer" n.a.

Type	Value	Description
String	"crm"	CRM buss
	"announcer"	Announcer buss
	"*"	All

3.7 <action_t>

Type	Value	Description
String	"off"	Off
	"on"	On
	"toggle"	Toggle

3.8 <track_t>

Type	Value	Description
String	"stop"	Track is in stop state
	"play"	Track is in playing state
	"end"	Track is in ending state (flashing ON button)

3.9 <mic_on_trigger_t>

Type	Value	Description
String	"mic_on"	Mic on output listens if one or more mic's are active
	"on_air1"	Mic on output listens on on_air1 logical buss
	"on_air2"	Mic on output listens on on_air2 logical buss

3.10 <gpo_t>

Type	Value	Description
String	"gpo1"	GPO 1
	"gpo2"	GPO 2

3.11 <gpo_trigger_t>

Type	Value	Description
String	"off"	GPO disabled
	"onair1"	OnAir 1 logic buss
	"onair2"	OnAir 2 logic buss
	"phone"	Phone ringing
	"micon"	Microphone on output
	"nonstop"	Nonstop active
	"mod1_active"	Module 1 Fader and ON active
	"mod2_active"	Module 2 Fader and ON active
	"mod3_active"	Module 3 Fader and ON active
	"mod4_active"	Module 4 Fader and ON active
	"mod5_active"	Module 5 Fader and ON active
	"mod6_active"	Module 6 Fader and ON active
	"mod7_active"	Module 7 Fader and ON active
	"mod8_active"	Module 8 Fader and ON active

3.12 <gpo_mode_t>

Type	Value	Description
String	"non-inverted"	GPO output is not inverted (normal)
	"inverted"	GPO output is inverted

3.13 <gpo_type_t>

Type	Value	Description
String	"continues"	GPO continues
	"pulse_by_on"	GPO pulse by on
	"pulse_by_off"	GPO pulse by off
	"pulse_by_onoff"	GPO pulse by on and off

3.14 <silence_detection_interval_unit_t>

Type	Value	Description
String	"seconds"	Interval unit in seconds
	"minutes"	Interval unit in minutes

3.15 <silence_detection_source_t>

Type	Value	Description
String	"left"	Left signal of PGM buss
	"right"	Right signal of PGM buss
	"stereo"	Stereo signal of PGM buss

4 Requests

4.1 get_api_version

- Added in v0.1.0

Message Format:

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

Response:

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

4.2 get_all

- Added in v0.1.0

Get all the configuration and the state data of the device.

Message Format:

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

Response:

```
{
  "msg": "all",
  "data": {...}
}
```

4.3 get_config

- Added in v0.1.0

Get all the configuration data of the device.

Message Format:

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

Response:

```
{
  "msg": "config",
  "data": {...}
}
```

4.4 get_states

- Added in v0.1.0

Get all the state data of the device.

Message Format:

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

Response:

```
{
  "msg": "states",
  "data": {...}
}
```

4.5 get_subscriptions

- Added in v0.1.0

Message Format:

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

Response:

```
{
  "msg": "subscriptions",
  "data": [...]
}
```

4.6 get_topics

- Added in v0.1.0

Message Format:

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

Response:

```
{
  "msg": "topics",
  "data": [...]
}
```

4.7 set_auto_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_auto_cue",
  "data": {
    <auto_cue_t>: <action_t>
  }
}
```

The *data* object may contain one or more *<auto_cue_t>* keys. The corresponding value should be an *<action_t>*.

4.8 set_config_auto_off

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_auto_off",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*.

4.9 set_config_auto_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_auto_on",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*.

4.10 set_config_crm_auto_cue_reset

- Added in v0.1.0

Availability:

AIRLITE:
WEBSTATION:

Message Format:

```
{
  "msg": "set_config_crm_auto_cue_reset",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.11 set_config_crm_mute

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_crm_mute",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.12 set_config_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_cue",
  "data": {
    <cue_t>: {
      "color_on": <color_t>,
      "color_off": <color_t>
    }
  }
}
```

The *data* object may contain one or more *<cue_t>* keys. The corresponding value should be an *object*. All keys in the object are optional, not required.

4.13 set_config_cue_interlock

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_cue_interlock",
  "data": <Bool>
}
```

4.14 set_config_cue_reset

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_cue_reset",
  "data": {
    <module_t>: {
      "enabled_by_line": <Bool>,
      "enabled_by_mic_usb_voip": <Bool>,
      "reset_by_fader": <Bool>,
      "reset_by_on": <Bool>,
      "reset_by_fader_and_on": <Bool>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required.

4.15 set_config_fader_reserve

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_fader_reserve",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*.

4.16 set_config_gpo

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_gpo",
  "data": {
    <gpo_t>: {
      "trigger": <gpo_trigger_t>,
      "mode": <gpo_mode_t>,
      "type": <gpo_type_t>,
      "time": <Number>
    }
  }
}
```

The *data* object may contain one or more *<gpo_t>* keys. The corresponding value should be an *object*. All keys in the object are optional, not required. The *time* key should be specified in milliseconds.

4.17 set_config_locked_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_locked_on",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*.

4.18 set_config_mic_at_line

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_mic_at_line",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.19 set_config_mic_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_mic_on",
  "data": <mic_on_trigger_t>
}
```

4.20 set_config_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_on",
  "data": {
    <module_t>: {
      "color_on": <color_t>,
      "color_on_and_fader": <color_t>,
      "color_off": <color_t>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required.

4.21 set_config_on_air

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_on_air",
  "data": {
    <module_t>: {
      "on_air1_enabled_by_line": <Bool>,
      "on_air1_enabled_by_mic_usb_voip": <Bool>,
      "on_air2_enabled_by_line": <Bool>,
      "on_air2_enabled_by_mic_usb_voip": <Bool>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required.

4.22 set_config_pgm_auto_off

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_pgm_auto_off",
  "data": {
    <module_t>: {
      "enabled_by_line": <Bool>,
      "enabled_by_mic_usb_voip": <Bool>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required.

4.23 set_config_phantom

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_phantom",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.24 set_config_silence_detection

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_silence_detection",
  "data": {
    "threshold": <Number>,
    "interval": <Number>,
    "interval_unit": <silence_detection_interval_unit_t>,
    "source": <silence_detection_source_t>,
    "enable": <Bool>
  }
}
```

The value should be an object. All keys in the object are optional, not required.

4.25 set_config_studio_remote

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_config_studio_remote",
  "data": {
    <module_t>: {
      "cough_enable": <Bool>,
      "comm_enable": <Bool>,
      "comm_private": <Bool>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.26 set_ctrl_led

- Added in v0.1.0

Sets the LED of one or more control keys to a static color or blinking state.

Message Format:

```
{
  "msg": "set_ctrl_led",
  "data": {
    <ctrl_key_t>: <color_t>,
    <ctrl_key_t>: {
      "color_on": <color_t>,
      "color_off": <color_t>,
      "blink_speed": <blink_speed_t>
    }
  }
}
```


The *data* object may contain one or more *<ctrl_key_t>* keys. The corresponding value should be a *<color_t>* for setting a static LED color, or an object for configuring a blinking state. All keys in the object are optional, not required.

4.27 set_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_cue",
  "data": {
    <cue_t>: <action_t>
  }
}
```

The *data* object may contain one or more *<cue_t>* keys. The corresponding value should be an *<action_t>*.

4.28 set_non_stop

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_non_stop",
  "data": <action_t>
}
```

4.29 set_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_on",
  "data": {
    <module_t>: <action_t>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an *<action_t>*.

4.30 set_studio_remote

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_studio_remote",
  "data": {
    <module_t>: {
      "cough": <Bool>,
      "comm": <Bool>
    }
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an object. All keys in the object are optional, not required. Only available for microphone modules (Airlite: 1..3, Webstation: 1..2).

4.31 set_track

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_track",
  "data": {
    <module_t>: <track_t>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be an *<track_t>*.

4.32 set_voicetrack

- Added in v0.1.0

Message Format:

```
{
  "msg": "set_voicetrack",
  "data": {
    <module_t>: <Bool>
  }
}
```

The *data* object may contain one or more *<module_t>* keys. The corresponding value should be a *<Bool>*. Only available for microphone or voip modules (Airlite: 1..3 and 8, Webstation: 1..2 and 6).

4.33 subscribe

- Added in v0.1.0

Message Format:

```
{
  "msg": "subscribe",
  "data": [...]
}
```

The *data* can be an array of topics to subscribe to, or instead use a string type for subscribing to a single topic. Available topics can be obtained by sending the *get_topics* message. The topics you are subscribed to can be obtained by sending the *get_subscriptions* message.

4.34 unsubscribe

- Added in v0.1.0

Message Format:

```
{
  "msg": "unsubscribe",
  "data": [...]
}
```

The *data* can be an array of topics to unsubscribe from, or instead use a string type for unsubscribing from a single topic. In order to unsubscribe from all topics use the "*" wildcard as a string data type. The topics you are subscribed to can be obtained by sending the ***get_subscriptions*** message.

5 Events

5.1 on_auto_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_auto_cue",
  "data": {
    <auto_cue_t>: <Bool>
  }
}
```

5.2 on_config_auto_off

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_auto_off",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.3 on_config_auto_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_auto_on",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.4 on_config_crm_auto_cue_reset

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_crm_auto_cue_reset",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.5 on_config_crm_mute

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_crm_mute",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.6 on_config_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_cue",
  "data": {
    <cue_t>: {
      "color_on": <color_t>,
      "color_off": <color_t>
    }
  }
}
```

5.7 on_config_cue_interlock

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_cue_interlock",
  "data": <Bool>
}
```

5.8 on_config_cue_reset

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_cue_reset",
  "data": {
    <module_t>: {
      "enabled_by_line": <Bool>,
      "enabled_by_mic_usb_voip": <Bool>,
      "reset_by_fader": <Bool>,
      "reset_by_on": <Bool>,
      "reset_by_fader_and_on": <Bool>
    }
  }
}
```

5.9 on_config_fader_reserve

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_fader_reserve",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.10 on_config_gpo

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_gpo",
  "data": {
    <gpo_t>: {
      "trigger": <gpo_trigger_t>,
      "mode": <gpo_mode_t>,
      "type": <gpo_type_t>,
      "time": <Number>
    }
  }
}
```

5.11 on_config_locked_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_locked_on",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.12 on_config_mic_at_line

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_mic_at_line",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.13 on_config_mic_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_mic_on",
  "data": <mic_on_trigger_t>
}
```

5.14 on_config_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_on",
  "data": {
    <module_t>: {
      "color_on": <color_t>,
      "color_on_and_fader": <color_t>,
      "color_off": <color_t>
    }
  }
}
```

5.15 on_config_on_air

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_on_air",
  "data": {
    <module_t>: {
      "on_air1_enabled_by_line": <Bool>,
      "on_air1_enabled_by_mic_usb_voip": <Bool>,
      "on_air2_enabled_by_line": <Bool>,
      "on_air2_enabled_by_mic_usb_voip": <Bool>
    }
  }
}
```

5.16 on_config_pgm_auto_off

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_pgm_auto_off",
  "data": {
    <module_t>: {
      "enabled_by_line": <Bool>,
      "enabled_by_mic_usb_voip": <Bool>
    }
  }
}
```

5.17 on_config_phantom

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_phantom",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.18 on_config_silence_detection

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_silence_detection",
  "data": {
    "threshold": <Number>,
    "interval": <Number>,
    "interval_unit": <silence_detection_interval_unit_t>,
    "source": <silence_detection_source_t>,
    "enable": <Bool>
  }
}
```

Threshold: -40 ... 0 dB

Interval: 2 ... 255

5.19 on_config_studio_remote

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_config_studio_remote",
  "data": {
    <module_t>: {
      "cough_enable": <Bool>,
      "comm_enable": <Bool>,
      "comm_private": <Bool>
    }
  }
}
```

5.20 on_crm_mute

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_crm_mute",
  "data": <Bool>
}
```


5.21 on_ctrl_key

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_ctrl_key",
  "data": {
    <ctrl_key_t>: <Bool>
  }
}
```

5.22 on_ctrl_led

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_ctrl_led",
  "data": {
    <ctrl_key_t>: <color_t>,
    <ctrl_key_t>: {
      "color_on": <color_t>,
      "color_off": <color_t>,
      "blink_speed": <blink_speed_t>
    }
  }
}
```

5.23 on_cue

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_cue",
  "data": {
    <cue_t>: <action_t>
  }
}
```

5.24 on_device_status

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_device_status",
  "data": "connected" | "disconnected"
}
```

5.25 on_fader

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_fader",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.26 on_gpo

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_gpo",
  "data": {
    <gpo_t>: <Bool>
  }
}
```

5.27 on_metering

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_metering",
  "data": {
    "pgm_left": <Number>,
    "pgm_right": <Number>,
    "phones_left": <Number>,
    "phones_right": <Number>,
    "crm_left": <Number>,
    "crm_right": <Number>
  }
}
```

Levels are in dB and in the range [-50 ... +5]. DIN PPM Scale.

5.28 on_mic_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_mic_on",
  "data": <Bool>
}
```

5.29 on_module_active

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_module_active",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.30 on_non_stop

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_non_stop",
  "data": <Bool>
}
```

5.31 on_on

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_on",
  "data": {
    <module_t>: <Bool>
  }
}
```

5.32 on_on_air

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_on_air",
  "data": {
    "on_air1": <Bool>,
    "on_air2": <Bool>
  }
}
```

5.33 on_phone_ringing

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_phone_ringing",
  "data": <Bool>
}
```

5.34 on_silence_detection

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_silence_detection",
  "data": <Bool>
}
```

5.35 on_source_select

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_source_select",
  "data": {
    <module_t>: "line" | "mic" | "usb" | "voip"
  }
}
```

5.36 on_studio_remote

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_studio_remote",
  "data": {
    <module_t>: {
      "cough": <Bool>,
      "comm": <Bool>
    }
  }
}
```

5.37 on_track

- Added in v0.1.0

Message Format:

```
{
  "msg": "on_track",
  "data": {
    <module_t>: <track_t>
  }
}
```

5.38 on_voicetrack

- Added in v0.1.0

Message Format:

```
{  
  "msg": "on_voicetrack",  
  "data": {  
    <module_t>: <Bool>  
  }  
}
```

5.39 on_voip_connect

- Added in v0.1.0

Message Format:

```
{  
  "msg": "on_voip_connect",  
  "data": <Bool>  
}
```