*gListen Board (MMCB, sensor i*cListen HF)

*Command Line Interface (CLI) Guide*

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## Command Line Interface (CLI)

### Show commands

#### show sensor info

Command syntax:

**show sensor info**

Description:

Command display icListen hydrophone status and information.

Output:

**"Sensor type: "**

Correspond to icListen Command & Control Telemetry codes below

|  |  |
| --- | --- |
|  01 | icTalk LF |
|  02 | icListen LF |
|  03 | Standalone Guest Sensor |
|  04 | icTalk HF |
|  05 | icListen HF |
|  07 | icListen AF |
|  41 | icListen MF |

**"Serial num: "**

Serial number of the icListen hydrophone.

**"FW version: "**

icListen hydrophone firmware version.

**"Build date: "**

icListen hydrophone firmware build date.

**"Status: "**

Status of USB connection. 0means the icListen hydrophone is connected. 1 means the icListen hydrophone is disconnected.

#### show sensor triggers

Command syntax:

**show sensor triggers**

Description:

Command display information about the configured triggers on the isListen hydrophone.

Output:

 Table with 5 rows, one row per trigger. Each column in table described as:

**"Id"**

Trigger ID. Range **0-4.**

**"Status"**

Status of the trigger. Values: **E**-enabled, **D**-disabled.

**"MinF"**

This is the minimum frequency in the range checked by this trigger, set in **Hz.**

**"MaxF"**

This is the maximum frequency in the range checked by this trigger, set in **Hz.**

**"Type"**

Trigger test type. Values: **AB** - signal is above the threshold, **BL** - signal is below the threshold.

**"Thr"**

This is the threshold against which data is checked, set in **dB.**

**"Unit"**

Trigger test threshold units. **P-**for dB re 1µPa, **V-** for dB re 1V.

**"Dur"**

 The **number of seconds** a signal must be present to activate the trigger.

**"Hold"**

The **number of seconds** a trigger remains active after a signal goes away.

**"Log\_W"**

Log waveform data. Values: **E**-enabled, **D**-disabled.

**"Log\_S"**

Log spectrum data. Values: **E**-enabled,  **D**-disabled.

#### show mmcb info

Command syntax:

**show mmcb info**

Description:

Command display gListen Board information.

Output:

**"MCU Ver:"**

MCU module version.

**"MB Ver:"**

Motherboard module version.

**"M1 Ver:"**

Module 1 module version.

**"M2 Ver:"**

Module 2 module version.

**"HW ID:"**

Hardware ID.

**"SW ID:"**

Software ID.

#### show mmcb clock

Command syntax:

**show mmcb clock**

Description:

Command display current RTC time and date on gListen Board.

Output:

**"System clock: hh:mm:ss DD/MM/YY"**

#### show mmcb settings

Command syntax:

**show mmcb settings**

Description:

Command displays gListen Board network settings.

Output:

**"IP address: X.X.X.X"**

IPv4 address of the gListen Board.

**"Netmask: X.X.X.X"**

IPv4 netmask of the gListen Board.

**"Gateway: X.X.X.X"**

IPv4 gateway of the gListen Board.

**"Sensor IP: X.X.X.X"**

IPv4 address of the icListen hydrophone.

### Set commands

#### set clock

Command syntax:

**set clock** <datetime>

Description:

Command sets gListen Board and icListen hydrophone RTC time and date. Year format is last 2 digits.

Available options for <datetime>: hh:mm:ss DD/MM/YY

#### set sensor trigger status

Command syntax:

**set sensor trigger** <ID> <status>

Description:

Command sets status of icListen hydrophone trigger.

Available options for <ID>: range **0-4.**

Available options for <status>: **enable –** enable the trigger, **disable** - disable the trigger.

#### set sensor trigger duration

Command syntax:

**set sensor trigger** <ID> **duration** <duration\_time>

Description:

Command sets duration time of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <duration\_time>: **number of seconds** a signal must be present to activate the trigger.

#### set sensor trigger hold

Command syntax:

**set sensor trigger** <ID> **hold** <hold\_time>

Description:

Command sets hold time of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <hold\_time>: **number of seconds** a trigger remains active after a signal goes away.

#### set sensor trigger min\_freq

Command syntax:

**set sensor trigger** <ID> **min\_freq** <frequency>

Description:

Command sets minimum frequency of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <frequency>: minimum frequency in the range checked by this trigger, set in **Hz.**

#### set sensor trigger max\_freq

Command syntax:

**set sensor trigger** <ID> **max\_freq** <frequency>

Description:

Command sets maximum frequency of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <frequency>: maximum frequency in the range checked by this trigger, set in **Hz.**

#### set sensor trigger threshold\_unit

Command syntax:

**set sensor trigger** <ID> **threshold\_unit** <unit>

Description:

Command sets threshold unit type of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <unit>:  **pressure** - for dB re 1µPa, **voltage** - for dB re 1V.

#### set sensor trigger threshold

Command syntax:

**set sensor trigger** <ID> **threshold** <threshold\_value>

Description:

Command sets threshold of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <threshold\_value>: threshold against which data is checked, set in **dB.**

#### set sensor trigger log\_wave

Command syntax:

**set sensor trigger** <ID> **log\_wave** <status>

Description:

Command sets waveform logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <status>: **enable –** enable logging, **disable** - disable logging.

#### set sensor trigger log\_spectrum

Command syntax:

**set sensor trigger** <ID> **log\_spectrum** <status>

Description:

Command sets spectrum logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <status>: **enable –** enable logging, **disable** - disable logging.

#### set sensor trigger type

Command syntax:

**set sensor trigger** <ID> **type** <trigger\_type>

Description:

Command sets spectrum logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4.**

Available options for <trigger\_type>: s\_below **–** signal is below the threshold, s\_above- signal is above the threshold.

#### set sensor ip4address

Command syntax:

**set sensor ip4address** <address>

Description:

Command sets icListen hydrophone IPv4 address.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

#### set sensor power

Command syntax:

**set sensor power** <status>

Description:

Command changes the icListen hydrophone power line status.

Available options for <status>: **enable -** set power on, **disable** - set power off.

#### set mmcb ip4address

Command syntax:

**set mmcb ip4address** <address>

Description:

Command sets gListen Board IPv4 address.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

#### set mmcb ip4mask

Command syntax:

**set mmcb ip4mask** <address>

Description:

Command sets gListen Board IPv4 mask.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

#### set mmcb ip4gateway

Command syntax:

**set mmcb ip4gateway** <address>

Description:

Command sets gListen Board IPv4 gateway.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

### Clear commands

#### clear sensor triggers

Command syntax:

**clear sensor triggers**

Description:

Command clears all triggers setting on the icListen hydrophone.