LUNA-U

Unified audio matrix processor

Table of contents

Luna-U Commands List - V1.5

Port Numbers

Protocol	Port Number	Number of Available Sockets
TCP	5001	10
UDP	8711	-
Websocket	80	50

Uart Information

Baud rate	19200
Data bits	8
Start bit	1
Stop bit	1
Parity	None

ASCII Commands (Luna U)

Version: 1.5.0

This is the list of ASCII Commands supported by this device. An ASCII command always follows the same structure:

`#|Destination|Source|Type^Target^Command|Arguments|CRC|CRLF`

This format uses 3 separator characters for different levels of separating each value in the message:

- Message separator '|':

  This separates a message in 7 blocks (if you include the start '#' and end <CRLF>)

- Block separator '^':

  This splits a block into logical elements. This is used to split the command in the message type, 'command' and 'target'

- Value separator '>':

  This splits up a logical single value in their primitives, for example: a target consists of a channel type and a channel index, split by '>'

Messages are Case sensitive, if the example shows the text in uppercase, this should always be uppercase!

Destination

The target device. This consists of 2 parts: `Device>Address`.

- **Device**

This is the device type: **LUNA_U**

- **Address**

  This is the user configurable device address, default: **1**. You can also leave this field empty, this results in all Luna U devices that receive this command to respond.

Examples	Destination
default destination	`LUNA_U>1`
broadcast to all Luna U devices	`LUNA_U`

Device Matching

If the device type or address does not match, the message will be ignored. Device Address 0 is a special address and will always match (this can be seen as a broadcast)

Destination	Device address: `LUNA_U>2`	Remarks
`LUNA_U>2`	Destination Matches Device	this is an exact match
`LUNA_U>1`	Message ignored	the destination address does not match
`LUNA_U`	Destination Matches Device	the destination address will always match
`LUNA_U>0`	Destination Matches Device	Equivalent to `LUNA_U`
`CLIENT>2`	Message ignored	the device type does not match
`CLIENT`	Message ignored	the device type does not match

Source (optional)

The source address is optional when sending, but the device will always fill this field with its own address.

Examples	Sent message	Response message `LUNA_U>2`
broadcast to a Luna U	`#|LUNA_U||...|<CRLF>`	`#||LUNA_U>2|...|<CRLF>`
send to a specific Luna U	`#|LUNA_U>2||...|<CRLF>`	`#||LUNA_U>2|...|<CRLF>`
use a source address in the request message	`#|LUNA_U|CLIENT>1|...|<CRLF>`	`#|CLIENT>1|LUNA_U>2|...|<CRLF>`

Type

The type explains what the message wants to do. There are 3 supported message types:

Type	From	To	Explanation
`SET_REQ`	CLIENT	Luna U	Change a setting in the Luna U
`GET_REQ`	CLIENT	Luna U	Request the current status of a setting in the Luna U
`GET_RSP`	Luna U	CLIENT	Response to either a GET_REQ or SET_REQ, if the request was valid

Command, Target, Arguments

These 3 parameters are explained together, because they influence each other. The command dictates the meaning of the argument, while the target distinguishes which exact setting you want to change. the target can also influence the valid range of the argument.

Some commands (like the mixer) can have a range arguments (for the mixer: all mixer volumes are an individual argument). In this case, the argument looks like: `idx>val[^idx2>val2]`, where the part in between the brackets `[]` can appear 0 or more times.

- idx, idx2, ...: the argument index
- val, val2, ...: the value at the specified index

This device supports special `ALL_*` commands that allow you to set multiple values in a single command. They look similar to their single counterparts, but the *Target* starts with `ALL_`. The *Argument* is an array of elements, separated by "block separators", instead of a single value.

For example: if there's a device that supports grouping 2 MUTE commands, the following can be shortened:

```
#|LUNA_U>1||SET_REQ^TARGET>1^MUTE|TRUE|U|<CRLF>
#|LUNA_U>1||SET_REQ^TARGET>2^MUTE|TRUE|U|<CRLF>
```

becomes

```
#|LUNA_U>1||SET_REQ^ALL_TARGET^MUTE|TRUE^TRUE|U|<CRLF>
```

Note: For backwards compatibility reasons there might be gaps in the arguments sent, it is important to leave these gaps in the command you build! A gap is created by putting 2 block separators next to each other: "^^".

You can leverage this as well, if there are parts of this grouped command you don't want to change. You can then leave this value empty like the gaps, and you can only change the values you want, leaving the rest as is.

- `TRUE^^FALSE`: Set the first value to true, leave the second value as is, set the third value to false.

You can also skip the last elements in the list, if you don't want to change them. For example: the command groups 4 volumes together, all. If you only want to change the first two values, you have 2 options for the "Arguments" field:

- `-15^-30^^`
- `-15^-30`

Both are equivalent, but in the first example you explicitly define the third and fourth values as "gaps", in the second example they are implicitly defined as gaps.

APPLY_SNAPSHOT

applies a snapshot

Argument (id): the name of the snapshot to apply

Target	Argument	Example (default value)
SNAPSHOTS>1	regex: ^(settings\/snapshots\/)[a-zA-Z0-9 _-]+\.snapshot$	`#|LUNA_U>1||SET_REQ^SNAPSHOTS>1^APPLY_SNAPSHOT|settings/snapshots/New Snapshot.snapshot|U|<CRLF>`

VOLUME

Set a single Volume in dB

Argument (volume): the requested Volume in dB

Target	Argument	Example (default value)
INPUT_LINE>1>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>1>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>2>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>2>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>3>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>3>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>4>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>4>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>5>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>5>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>6>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>6>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>7>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>7>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>8>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>8>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>9>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>9>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>10>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>10>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>11>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>11>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_LINE>12>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_LINE>12>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>1>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>1>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>2>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>2>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>3>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>3>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>4>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>4>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>5>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>5>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>6>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>6>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>7>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>7>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>8>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>8>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>9>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>9>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>10>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>10>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>11>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>11>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>12>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>12>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>13>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>13>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>14>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>14>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>15>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>15>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>16>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>16>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>17>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>17>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>18>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>18>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>19>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>19>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>20>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>20>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>21>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>21>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>22>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>22>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>23>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>23>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>24>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>24>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>25>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>25>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>26>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>26>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>27>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>27>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>28>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>28>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>29>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>29>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>30>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>30>VOLUME>1^VOLUME|0|U|<CRLF>

INPUT_DANTE>31>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>31>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_DANTE>32>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_DANTE>32>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_OS>1>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_OS>1>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_OS>2>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_OS>2>VOLUME>1^VOLUME|0|U|<CRLF>
INPUT_GENERATOR>1>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^INPUT_GENERATOR>1>VOLUME>1^VOLUME|0|U|<CRLF>
ZONE>1>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>1>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>2>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>2>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>3>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>3>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>4>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>4>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>5>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>5>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>6>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>6>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>7>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>7>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>8>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>8>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>9>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>9>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>10>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>10>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>11>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>11>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>12>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>12>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>13>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>13>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>14>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>14>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>15>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>15>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>16>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>16>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>17>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>17>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>18>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>18>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>19>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>19>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>20>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>20>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>21>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>21>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>22>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>22>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>23>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>23>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>24>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>24>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>25>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>25>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>26>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>26>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>27>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>27>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>28>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>28>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>29>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>29>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>30>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>30>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>31>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>31>VOLUME>1^VOLUME|-90|U|<CRLF>
ZONE>32>VOLUME>1	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>32>VOLUME>1^VOLUME|-90|U|<CRLF>

Grouped Commands

ALL_ZONES

example (default value):

#|LUNA_U>1||SET_REQ^ALL_ZONES^VOLUME|-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^
-90^-90^-90^-90^-90^-90^-90^-90^-90|U|<CRLF>

Index	Target
1	ZONE>1>VOLUME>1
2	ZONE>2>VOLUME>1
3	ZONE>3>VOLUME>1
4	ZONE>4>VOLUME>1
5	ZONE>5>VOLUME>1
6	ZONE>6>VOLUME>1
7	ZONE>7>VOLUME>1
8	ZONE>8>VOLUME>1
9	ZONE>9>VOLUME>1
10	ZONE>10>VOLUME>1
11	ZONE>11>VOLUME>1
12	ZONE>12>VOLUME>1
13	ZONE>13>VOLUME>1
14	ZONE>14>VOLUME>1
15	ZONE>15>VOLUME>1
16	ZONE>16>VOLUME>1
17	ZONE>17>VOLUME>1
18	ZONE>18>VOLUME>1
19	ZONE>19>VOLUME>1
20	ZONE>20>VOLUME>1
21	ZONE>21>VOLUME>1
22	ZONE>22>VOLUME>1
23	ZONE>23>VOLUME>1
24	ZONE>24>VOLUME>1
25	ZONE>25>VOLUME>1
26	ZONE>26>VOLUME>1
27	ZONE>27>VOLUME>1
28	ZONE>28>VOLUME>1
29	ZONE>29>VOLUME>1
30	ZONE>30>VOLUME>1
31	ZONE>31>VOLUME>1
32	ZONE>32>VOLUME>1

ALL_DANTE_IN

example (default value): #|LUNA_U>1||SET_REQ^ALL_DANTE_IN^VOLUME|0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>

Index	Target
1	INPUT_DANTE>1>VOLUME>1
2	INPUT_DANTE>2>VOLUME>1
3	INPUT_DANTE>3>VOLUME>1
4	INPUT_DANTE>4>VOLUME>1
5	INPUT_DANTE>5>VOLUME>1
6	INPUT_DANTE>6>VOLUME>1
7	INPUT_DANTE>7>VOLUME>1
8	INPUT_DANTE>8>VOLUME>1
9	INPUT_DANTE>9>VOLUME>1
10	INPUT_DANTE>10>VOLUME>1
11	INPUT_DANTE>11>VOLUME>1
12	INPUT_DANTE>12>VOLUME>1
13	INPUT_DANTE>13>VOLUME>1
14	INPUT_DANTE>14>VOLUME>1
15	INPUT_DANTE>15>VOLUME>1
16	INPUT_DANTE>16>VOLUME>1
17	INPUT_DANTE>17>VOLUME>1
18	INPUT_DANTE>18>VOLUME>1
19	INPUT_DANTE>19>VOLUME>1
20	INPUT_DANTE>20>VOLUME>1
21	INPUT_DANTE>21>VOLUME>1
22	INPUT_DANTE>22>VOLUME>1
23	INPUT_DANTE>23>VOLUME>1
24	INPUT_DANTE>24>VOLUME>1
25	INPUT_DANTE>25>VOLUME>1
26	INPUT_DANTE>26>VOLUME>1
27	INPUT_DANTE>27>VOLUME>1
28	INPUT_DANTE>28>VOLUME>1
29	INPUT_DANTE>29>VOLUME>1
30	INPUT_DANTE>30>VOLUME>1
31	INPUT_DANTE>31>VOLUME>1
32	INPUT_DANTE>32>VOLUME>1

ALL_ANALOG_IN

example (default value): `#|LUNA_U>1||SET_REQ^ALL_ANALOG_IN^VOLUME|0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>`

Index	Target
1	INPUT_LINE>1>VOLUME>1
2	INPUT_LINE>2>VOLUME>1
3	INPUT_LINE>3>VOLUME>1
4	INPUT_LINE>4>VOLUME>1
5	INPUT_LINE>5>VOLUME>1
6	INPUT_LINE>6>VOLUME>1
7	INPUT_LINE>7>VOLUME>1
8	INPUT_LINE>8>VOLUME>1
9	INPUT_LINE>9>VOLUME>1
10	INPUT_LINE>10>VOLUME>1
11	INPUT_LINE>11>VOLUME>1
12	INPUT_LINE>12>VOLUME>1

ALL_OS_IN

example (default value): `#|LUNA_U>1||SET_REQ^ALL_OS_IN^VOLUME|0^0^0|U|<CRLF>`

Index	Target
1	INPUT_GENERATOR>1>VOLUME>1
2	INPUT_OS>1>VOLUME>1
3	INPUT_OS>2>VOLUME>1

MUTE

mute an audio channel

Argument (enabled): is the audio channel muted

Target	Argument	Example (default value)
INPUT_LINE>1>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>1>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>2>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>2>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>3>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>3>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>4>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>4>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>5>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>5>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>6>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>6>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>7>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>7>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>8>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>8>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>9>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>9>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>10>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>10>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>11>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>11>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_LINE>12>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_LINE>12>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>1>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>1>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>2>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>2>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>3>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>3>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>4>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>4>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>5>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>5>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>6>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>6>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>7>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>7>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>8>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>8>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>9>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>9>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>10>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>10>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>11>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>11>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>12>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>12>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>13>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>13>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>14>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>14>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>15>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>15>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>16>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>16>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>17>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>17>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>18>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>18>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>19>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>19>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>20>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>20>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>21>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>21>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>22>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>22>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>23>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>23>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>24>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>24>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>25>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>25>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>26>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>26>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>27>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>27>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>28>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>28>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>29>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>29>VOLUME>1^MUTE|FALSE|U|<CRLF>
INPUT_DANTE>30>VOLUME>1	options: TRUE,FALSE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>30>VOLUME>1^MUTE|FALSE|U|<CRLF>

<table>
<tr><td>INPUT_DANTE>31>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^INPUT_DANTE>31>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>INPUT_DANTE>32>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^INPUT_DANTE>32>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>INPUT_OS>1>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^INPUT_OS>1>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>INPUT_OS>2>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^INPUT_OS>2>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>INPUT_GENERATOR>1>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^INPUT_GENERATOR>1>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>1>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>1>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>2>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>2>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>3>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>3>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>4>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>4>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>5>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>5>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>6>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>6>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>7>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>7>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>8>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>8>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>9>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>9>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>10>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>10>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>11>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>11>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>12>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>12>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>13>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>13>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>14>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>14>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>15>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>15>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>16>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>16>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>17>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>17>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>18>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>18>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>19>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>19>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>20>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>20>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>21>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>21>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>22>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>22>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>23>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>23>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>24>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>24>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>25>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>25>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>26>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>26>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>27>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>27>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>28>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>28>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>29>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>29>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>30>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>30>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>31>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>31>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
<tr><td>ZONE>32>VOLUME>1</td><td>options: TRUE,FALSE</td><td>#|LUNA_U>1||SET_REQ^ZONE>32>VOLUME>1^MUTE|FALSE|U|<CRLF></td></tr>
</table>

Grouped Commands

ALL_ZONES

example (default value):

#|LUNA_U>1||SET_REQ^ALL_ZONES^MUTE|FALSE^FALSE|U|<CRLF>

Index	Target
1	ZONE>1>VOLUME>1
2	ZONE>2>VOLUME>1
3	ZONE>3>VOLUME>1
4	ZONE>4>VOLUME>1
5	ZONE>5>VOLUME>1
6	ZONE>6>VOLUME>1
7	ZONE>7>VOLUME>1
8	ZONE>8>VOLUME>1
9	ZONE>9>VOLUME>1
10	ZONE>10>VOLUME>1
11	ZONE>11>VOLUME>1
12	ZONE>12>VOLUME>1
13	ZONE>13>VOLUME>1
14	ZONE>14>VOLUME>1
15	ZONE>15>VOLUME>1
16	ZONE>16>VOLUME>1
17	ZONE>17>VOLUME>1
18	ZONE>18>VOLUME>1
19	ZONE>19>VOLUME>1
20	ZONE>20>VOLUME>1
21	ZONE>21>VOLUME>1
22	ZONE>22>VOLUME>1
23	ZONE>23>VOLUME>1
24	ZONE>24>VOLUME>1
25	ZONE>25>VOLUME>1
26	ZONE>26>VOLUME>1
27	ZONE>27>VOLUME>1
28	ZONE>28>VOLUME>1
29	ZONE>29>VOLUME>1
30	ZONE>30>VOLUME>1
31	ZONE>31>VOLUME>1
32	ZONE>32>VOLUME>1

ALL_DANTE_IN

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_DANTE_IN^MUTE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE|U|<CRLF>
```

Index	Target
1	INPUT_DANTE>1>VOLUME>1
2	INPUT_DANTE>2>VOLUME>1
3	INPUT_DANTE>3>VOLUME>1
4	INPUT_DANTE>4>VOLUME>1
5	INPUT_DANTE>5>VOLUME>1
6	INPUT_DANTE>6>VOLUME>1
7	INPUT_DANTE>7>VOLUME>1
8	INPUT_DANTE>8>VOLUME>1
9	INPUT_DANTE>9>VOLUME>1
10	INPUT_DANTE>10>VOLUME>1
11	INPUT_DANTE>11>VOLUME>1
12	INPUT_DANTE>12>VOLUME>1
13	INPUT_DANTE>13>VOLUME>1
14	INPUT_DANTE>14>VOLUME>1
15	INPUT_DANTE>15>VOLUME>1
16	INPUT_DANTE>16>VOLUME>1
17	INPUT_DANTE>17>VOLUME>1
18	INPUT_DANTE>18>VOLUME>1
19	INPUT_DANTE>19>VOLUME>1
20	INPUT_DANTE>20>VOLUME>1
21	INPUT_DANTE>21>VOLUME>1
22	INPUT_DANTE>22>VOLUME>1
23	INPUT_DANTE>23>VOLUME>1
24	INPUT_DANTE>24>VOLUME>1
25	INPUT_DANTE>25>VOLUME>1
26	INPUT_DANTE>26>VOLUME>1
27	INPUT_DANTE>27>VOLUME>1
28	INPUT_DANTE>28>VOLUME>1
29	INPUT_DANTE>29>VOLUME>1
30	INPUT_DANTE>30>VOLUME>1
31	INPUT_DANTE>31>VOLUME>1
32	INPUT_DANTE>32>VOLUME>1

ALL_ANALOG_IN

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_ANALOG_IN^MUTE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	INPUT_LINE>1>VOLUME>1
2	INPUT_LINE>2>VOLUME>1
3	INPUT_LINE>3>VOLUME>1
4	INPUT_LINE>4>VOLUME>1
5	INPUT_LINE>5>VOLUME>1
6	INPUT_LINE>6>VOLUME>1
7	INPUT_LINE>7>VOLUME>1
8	INPUT_LINE>8>VOLUME>1
9	INPUT_LINE>9>VOLUME>1
10	INPUT_LINE>10>VOLUME>1
11	INPUT_LINE>11>VOLUME>1
12	INPUT_LINE>12>VOLUME>1

ALL_OS_IN

example (default value): `#|LUNA_U>1||SET_REQ^ALL_OS_IN^MUTE|FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	INPUT_GENERATOR>1>VOLUME>1
2	INPUT_OS>1>VOLUME>1
3	INPUT_OS>2>VOLUME>1

GPO_ENABLE

trigger a GPIO Output

Argument (enable): trigger the GP0

Target	Argument	Example (default value)
GPO>1>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>1>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>2>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>2>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>3>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>3>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>4>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>4>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>5>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>5>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>6>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>6>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>7>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>7>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>8>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>8>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>9>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>9>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>10>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>10>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>11>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>11>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>12>GPO_TRIGGER>1	options: TRUE,FALSE	`#|LUNA_U>1||SET_REQ^GPO>12>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`

Grouped Commands

ALL_GPIO

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_GPIO^GPO_ENABLE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	GPO>1>GPO_TRIGGER>1
2	GPO>2>GPO_TRIGGER>1
3	GPO>3>GPO_TRIGGER>1
4	GPO>4>GPO_TRIGGER>1
5	GPO>5>GPO_TRIGGER>1
6	GPO>6>GPO_TRIGGER>1
7	GPO>7>GPO_TRIGGER>1
8	GPO>8>GPO_TRIGGER>1
9	GPO>9>GPO_TRIGGER>1
10	GPO>10>GPO_TRIGGER>1
11	GPO>11>GPO_TRIGGER>1
12	GPO>12>GPO_TRIGGER>1

MIXER

mixer slider for zones

Argument (volume): mixing volume

Target	Argument Index	Argument	Example (default value)
ZONE>1>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>1>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>2>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>2>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>3>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>3>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>4>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>4>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>5>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>5>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>6>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>6>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>7>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>7>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>8>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>8>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>9>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>9>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^10 <CRLF>
ZONE>10>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>10>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>11>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>11>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>12>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>12>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>13>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>13>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>14>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>14>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>15>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>15>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>16>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>16>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>17>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>17>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>18>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>18>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>19>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>19>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>20>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>20>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>21>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>21>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>22>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>22>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>23>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>23>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>24>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>24>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>25>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>25>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>26>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>26>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>

ZONE>27>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>27>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>28>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>28>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>29>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>29>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>30>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>30>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>31>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>31>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>
ZONE>32>MIXER>1	min: 1, max: 16	min: -90, max: 0	#|LUNA_U>1||SET_REQ^ZONE>32>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90^5>-90^6>-90^7>-90^8>-90^9>-90^1 <CRLF>

ROUTE

change the routing of a zone

Argument (input): the input that is selected in that zone. -1 = Mixed (not settable), O = OFF, 1 = input 1 ,...

Target	Argument	Example (default value)
ZONE>1>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>1>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>2>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>2>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>3>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>3>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>4>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>4>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>5>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>5>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>6>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>6>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>7>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>7>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>8>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>8>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>9>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>9>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>10>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>10>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>11>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>11>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>12>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>12>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>13>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>13>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>14>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>14>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>15>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>15>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>16>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>16>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>17>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>17>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>18>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>18>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>19>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>19>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>20>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>20>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>21>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>21>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>22>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>22>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>23>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>23>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>24>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>24>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>25>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>25>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>26>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>26>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>27>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>27>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>28>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>28>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>29>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>29>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>30>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>30>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>31>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>31>MIXER>1^ROUTE|0|U|<CRLF>`
ZONE>32>MIXER>1	min: -1, max: 24	`#|LUNA_U>1||SET_REQ^ZONE>32>MIXER>1^ROUTE|0|U|<CRLF>`

Grouped Commands

ALL_ZONES

example (default value): `#|LUNA_U>1||SET_REQ^ALL_ZONES^ROUTE|0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>`

Index	Target
1	ZONE>1>MIXER>1
2	ZONE>2>MIXER>1
3	ZONE>3>MIXER>1
4	ZONE>4>MIXER>1
5	ZONE>5>MIXER>1
6	ZONE>6>MIXER>1
7	ZONE>7>MIXER>1
8	ZONE>8>MIXER>1
9	ZONE>9>MIXER>1
10	ZONE>10>MIXER>1
11	ZONE>11>MIXER>1
12	ZONE>12>MIXER>1
13	ZONE>13>MIXER>1
14	ZONE>14>MIXER>1
15	ZONE>15>MIXER>1
16	ZONE>16>MIXER>1
17	ZONE>17>MIXER>1
18	ZONE>18>MIXER>1
19	ZONE>19>MIXER>1
20	ZONE>20>MIXER>1
21	ZONE>21>MIXER>1
22	ZONE>22>MIXER>1
23	ZONE>23>MIXER>1
24	ZONE>24>MIXER>1
25	ZONE>25>MIXER>1
26	ZONE>26>MIXER>1
27	ZONE>27>MIXER>1
28	ZONE>28>MIXER>1
29	ZONE>29>MIXER>1
30	ZONE>30>MIXER>1
31	ZONE>31>MIXER>1
32	ZONE>32>MIXER>1

CRC

The CRC block is calculated over the message starting from and including the first pipe "|", up to and including the last pipe **before** the CRC Block. These CRC's can ensure message integrity if desired.

CRC Type	Configuration	Format	Example	notes
None	/	U	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|U|<CRLF>`	'U' means unused
CRC16-ARC	• input reflected • output reflected • polynomial: 0x8005 • initial value: 0x0000 • final exor: 0x0000	XXXX	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|C06C|<CRLF>`	calculator
CRC32	• input reflected • output reflected • polynomial: 0x04C11DB7 • initial value: 0xFFFFFFFF • final exor: 0xFFFFFFFF	XXXXXXXX	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|D887125C|<CRLF>`	calculator

The examples in the table above are example for calculating the CRC, they may not be a valid command for the Luna U

The CRC can ensure data integrity accross unreliable data channels (RS232, RS485), but they are by no means a security measure! If someone has the knowledge and means to maliciously alter a message, correcting the CRC becomes trivial for the attacker. We support different kinds of CRC for maximum flexibility, but we recommend not using any so you do not get a false sense of security.

Stop Bytes

The final 2 characters are denoted as <CRLF>, they mean "Carriage Return, Line Feed" or simply put a new line. Depending on the tool used to create the command, you can have different representations:

- CRLF
- \r\n
- 0x0D 0x0A

We support both CRLF and LF only

ASCII Commands (Luna U V1.6.0)

This is the list of ASCII Commands supported by this device. An ASCII command always follows the same structure:

`#|Destination|Source|Type^Target^Command|Arguments|CRC|CRLF`

This format uses 3 separator characters for different levels of separating each value in the message:

- Message separator '|':

  This separates a message in 7 blocks (if you include the start '#' and end <CRLF>)

- Block separator '^':

  This splits a block into logical elements. This is used to split the command in the message type, 'command' and 'target'

- Value separator '>':

  This splits up a logical single value in their primitives, for example: a target consists of a channel type and a channel index, split by '>'

Messages are Case sensitive, if the example shows the text in uppercase, this should always be uppercase!

Destination

The target device. This consists of 2 parts: `Device>Address`.

- **Device**

  This is the device type: **LUNA_U**

- **Address**

  This is the user configurable device address, default: **1**. You can also leave this field empty, results in all Luna U devices that receive this command to respond.

Examples	Destination
default destination	`LUNA_U>1`
broadcast to all Luna U devices	`LUNA_U`

Device Matching

If the device type or address does not match, the message will be ignored. Device Address 0 is a special address and will always match (this can be seen as a broadcast)

The table below describes if a message is accepted with a device that has address: `LUNA_U>2`

Destination	Matches	Remarks
`LUNA_U>2`	Destination Matches Device	this is an exact match
`LUNA_U>1`	Message ignored	the destination address does not match
`LUNA_U`	Destination Matches Device	the destination address will always match
`LUNA_U>0`	Destination Matches Device	Equivalent to `LUNA_U`
`CLIENT>2`	Message ignored	the device type does not match
`CLIENT`	Message ignored	the device type does not match

Source (optional)

The source address is optional when sending, but the device will always fill this field with its own address.

The table below the responses of a device with address: `LUNA_U>2`

Examples	Message	Response
broadcast to a Luna U	`#|LUNA_U||...|<CRLF>`	`#||LUNA_U>2|...|<CRLF>`
send to a specific Luna U	`#|LUNA_U>2||...|<CRLF>`	`#||LUNA_U>2|...|<CRLF>`
use a source address in the request message	`#|LUNA_U|CLIENT>1|...|<CRLF>`	`#|CLIENT>1|LUNA_U>2|...|<CRLF>`

Type

The type explains what the message wants to do. There are 4 supported message types:

Type	From	To	Explanation
`SET_REQ`	CLIENT	Luna U	Change a setting in the Luna U. If the value you send is invalid (too high, too low, not a valid stepsize, ...) the device does nothing
`SET_FRC`	CLIENT	Luna U	Change a setting in the Luna U. If the value you send is invalid, the device will clamp to the closest allowed value. This is especially useful if you don't know the limits, or if you are using UP/DOWN commands
`GET_REQ`	CLIENT	Luna U	Request the current status of a setting in the Luna U
`GET_RSP`	Luna U	CLIENT	Response to either a GET_REQ or SET_REQ, if the request was valid

Command, Target, Arguments

These 3 parameters are explained together, because they influence each other. The command dictates the meaning of the argument, while the target distinguishes which exact setting you want to change. the target can also influence the valid range of the argument.

Some commands (like the mixer) can have a range arguments (for the mixer: all mixer volumes are an individual argument). In this case, the argument looks like: `idx>val[^idx2>val2]`, where the part in between the brackets `[]` can appear 0 or more times.

- idx, idx2, ...: the argument index
- val, val2, ...: the value at the specified index

Grouped Commands

This device supports special `ALL_*` commands that allow you to set multiple values in a single command. They look similar to their single counterparts, but the *Target* starts with `ALL_`. The *Argument* is an array of elements, separated by "block separators", instead of a single value.

For example: if there's a device that supports grouping 2 MUTE commands, the following can be shortened:

```
#|LUNA_U>1||SET_REQ^TARGET>1^MUTE|TRUE|U|<CRLF>
#|LUNA_U>1||SET_REQ^TARGET>2^MUTE|TRUE|U|<CRLF>
```

becomes

```
#|LUNA_U>1||SET_REQ^ALL_TARGET^MUTE|TRUE^TRUE|U|<CRLF>
```

Note: For backwards compatibility reasons there might be gaps in the arguments sent, it is important to leave these gaps in the command you build! A gap is created by putting 2 block separators next to each other: "^^".

You can leverage this as well, if there are parts of this grouped command you don't want to change. You can then leave this value empty like the gaps, and you can only change the values you want, leaving the rest as is.

- `TRUE^^FALSE`: Set the first value to true, leave the second value as is, set the third value to false.

You can also skip the last elements in the list, if you don't want to change them. For example: the command groups 4 volumes together, all. If you only want to change the first two values, you have 2 options for the "Arguments" field:

- `-15^-30^^`
- `-15^-30`

Both are equivalent, but in the first example you explicitly define the third and fourth values as "gaps", in the second example they are implicitly defined as gaps.

UP/DOWN Commands

Instead of always sending an absolute value of a command that contains a number, you can also send commands to increase, or decrease the value. You do this by instead of sending only a number as argument, you send `U<amount>` or `D<amount>`. `<amount>` is how much you want to increase or decrease the value with.

Some notes:

- You have to specify a number, omitting the number will be seen as `U0` or `D0`. While this command is accepted and will generate a response, it won't change the value!
- You can specify negative numbers, `U-1` is the same `D1` and vice-versa.
- You can also use these UP/DOWN commands in the `grouped commands`. You can mix and match with absolute values within the same command.
- It's important to note the distinction between SET_FRC and SET_REQ with relative commands. This is best explained using an example. If the current value of something is -8, and the maximum allowed value is 0, and you want to increase the value by 10 (`U10`) you can send this with SET_FRC or SET_REQ
  - SET_FRC will force the value within the limits, resulting in the value being set to 0
  - SET_REQ will validate the value to the limits, detect it would try to set +2, which is outside the limits, and do nothing.

Command List

APPLY_SNAPSHOT

applies a snapshot

Argument (id): the name of the snapshot to apply

Target	Argument	Example(s)
SNAPSHOTS>1	regex: ^(settings\/snapshots\/)[a-zA-Z0-9_-]+\.snapshot$	Default value: `#|LUNA_U>1||SET_REQ^SNAPSHOTS>1^APPLY_SNAPSHOT|settings/snapshots/New Sna`

GPO_ENABLE

trigger a GPIO Output

Argument (enable): trigger the GP0

Target	Argument	Example(s)
GPO>1>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>1>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>2>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>2>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>3>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>3>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>4>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>4>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>5>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>5>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>6>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>6>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>7>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>7>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>8>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>8>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>9>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>9>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>10>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>10>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>11>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>11>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`
GPO>12>GPO_TRIGGER>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^GPO>12>GPO_TRIGGER>1^GPO_ENABLE|FALSE|U|<CRLF>`

Grouped Commands

ALL_GPIO

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_GPIO^GPO_ENABLE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	GPO>1>GPO_TRIGGER>1
2	GPO>2>GPO_TRIGGER>1
3	GPO>3>GPO_TRIGGER>1
4	GPO>4>GPO_TRIGGER>1
5	GPO>5>GPO_TRIGGER>1
6	GPO>6>GPO_TRIGGER>1
7	GPO>7>GPO_TRIGGER>1
8	GPO>8>GPO_TRIGGER>1
9	GPO>9>GPO_TRIGGER>1
10	GPO>10>GPO_TRIGGER>1
11	GPO>11>GPO_TRIGGER>1
12	GPO>12>GPO_TRIGGER>1

MIXER

mixer slider for zones

Argument (volume): mixing volume

Target	Argument Index	Argument	Example(s)
ZONE>1>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>1>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>1>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>2>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>2>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>2>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>3>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>3>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>3>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>4>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>4>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>4>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>5>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>5>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>5>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>6>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>6>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>6>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>7>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>7>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>7>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>8>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>8>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>8>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>9>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>9>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-90 • #|LUNA_U>1||SET_FRC^ZONE>9>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>U
ZONE>10>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>10>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>10>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>11>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>11>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>11>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>12>MIXER>1	min: 1, max: 16	min: -90, max: 0	• #|LUNA_U>1||SET_REQ^ZONE>12>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>12>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>

		stepsize: 1	
ZONE>13>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>13>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>13>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>14>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>14>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>14>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>15>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>15>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>15>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>16>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>16>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>16>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>17>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>17>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>17>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>18>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>18>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>18>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>19>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>19>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>19>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>20>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>20>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>20>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>21>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>21>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>21>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>22>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>22>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>22>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>23>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>23>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>23>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>24>MIXER>1	min: 1, max: 16	min: -90, max: 0	• #|LUNA_U>1||SET_REQ^ZONE>24>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>24>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>

		stepsize: 1	
ZONE>25>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>25>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>25>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>26>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>26>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>26>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>27>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>27>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>27>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>28>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>28>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>28>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>29>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>29>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>29>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>30>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>30>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>30>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>31>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>31>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>31>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>
ZONE>32>MIXER>1	min: 1, max: 16	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>32>MIXER>1^MIXER|1>-90^2>-90^3>-90^4>-9 • #|LUNA_U>1||SET_FRC^ZONE>32>MIXER>1^MIXER|1>U1^2>D1^3>U1^4>D1^5>

MUTE

mute an audio channel

Argument (enabled): is the audio channel muted

Target	Argument	Example(s)
INPUT_LINE>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>1>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>2>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>2>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>3>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>3>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>4>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>4>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>5>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>5>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>6>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>6>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>7>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>7>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>8>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>8>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>9>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>9>VOLUME>1^MUTE|FALSE|U|<`
INPUT_LINE>10>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>10>VOLUME>1^MUTE|FALSE|U|`
INPUT_LINE>11>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>11>VOLUME>1^MUTE|FALSE|U|`
INPUT_LINE>12>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_LINE>12>VOLUME>1^MUTE|FALSE|U|`
INPUT_DANTE>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_DANTE>1>VOLUME>1^MUTE|FALSE|U|`
INPUT_DANTE>2>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_DANTE>2>VOLUME>1^MUTE|FALSE|U|`
INPUT_DANTE>3>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_DANTE>3>VOLUME>1^MUTE|FALSE|U|`
INPUT_DANTE>4>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: `#|LUNA_U>1||SET_REQ^INPUT_DANTE>4>VOLUME>1^MUTE|FALSE|U|`
INPUT_DANTE>5>VOLUME>1	• TRUE • FALSE	Default value:

	• TOGGLE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>5>VOLUME>1^MUTE|FALSE|U|
INPUT_DANTE>6>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>6>VOLUME>1^MUTE|FALSE|U|
INPUT_DANTE>7>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>7>VOLUME>1^MUTE|FALSE|U|
INPUT_DANTE>8>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>8>VOLUME>1^MUTE|FALSE|U|
INPUT_DANTE>9>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>9>VOLUME>1^MUTE|FALSE|U|
INPUT_DANTE>10>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>10>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>11>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>11>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>12>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>12>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>13>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>13>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>14>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>14>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>15>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>15>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>16>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>16>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>17>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>17>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>18>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>18>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>19>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>19>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>20>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>20>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>21>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>21>VOLUME>1^MUTE|FALSE|U
	• TRUE • FALSE	Default value:

INPUT_DANTE>22>VOLUME>1	• TOGGLE	#|LUNA_U>1||SET_REQ^INPUT_DANTE>22>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>23>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>23>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>24>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>24>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>25>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>25>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>26>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>26>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>27>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>27>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>28>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>28>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>29>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>29>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>30>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>30>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>31>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>31>VOLUME>1^MUTE|FALSE|U
INPUT_DANTE>32>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_DANTE>32>VOLUME>1^MUTE|FALSE|U
INPUT_OS>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_OS>1>VOLUME>1^MUTE|FALSE|U|<CR
INPUT_OS>2>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_OS>2>VOLUME>1^MUTE|FALSE|U|<CR
INPUT_GENERATOR>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^INPUT_GENERATOR>1>VOLUME>1^MUTE|FALS
ZONE>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>1>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>2>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>2>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>3>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>3>VOLUME>1^MUTE|FALSE|U|<CRLF>
	• TRUE	Default value:

ZONE>4>VOLUME>1	• FALSE • TOGGLE	#|LUNA_U>1||SET_REQ^ZONE>4>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>5>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>5>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>6>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>6>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>7>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>7>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>8>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>8>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>9>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>9>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>10>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>10>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>11>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>11>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>12>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>12>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>13>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>13>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>14>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>14>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>15>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>15>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>16>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>16>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>17>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>17>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>18>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>18>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>19>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>19>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>20>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>20>VOLUME>1^MUTE|FALSE|U|<CRLF>
	• TRUE	Default value:

ZONE>21>VOLUME>1	• FALSE • TOGGLE	#|LUNA_U>1||SET_REQ^ZONE>21>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>22>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>22>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>23>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>23>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>24>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>24>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>25>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>25>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>26>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>26>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>27>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>27>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>28>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>28>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>29>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>29>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>30>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>30>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>31>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>31>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONE>32>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONE>32>VOLUME>1^MUTE|FALSE|U|<CRLF>
ZONEMONO_AUTOMIXER>1>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>1>VOLUME>1^MUTE|F
ZONEMONO_AUTOMIXER>2>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>2>VOLUME>1^MUTE|F
ZONEMONO_AUTOMIXER>3>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>3>VOLUME>1^MUTE|F
ZONEMONO_AUTOMIXER>4>VOLUME>1	• TRUE • FALSE • TOGGLE	Default value: #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>4>VOLUME>1^MUTE|F

Grouped Commands

ALL_ZONES

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_ZONES^MUTE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE
```

Index	Target
1	ZONE>1>VOLUME>1
2	ZONE>2>VOLUME>1
3	ZONE>3>VOLUME>1
4	ZONE>4>VOLUME>1
5	ZONE>5>VOLUME>1
6	ZONE>6>VOLUME>1
7	ZONE>7>VOLUME>1
8	ZONE>8>VOLUME>1
9	ZONE>9>VOLUME>1
10	ZONE>10>VOLUME>1
11	ZONE>11>VOLUME>1
12	ZONE>12>VOLUME>1
13	ZONE>13>VOLUME>1
14	ZONE>14>VOLUME>1
15	ZONE>15>VOLUME>1
16	ZONE>16>VOLUME>1
17	ZONE>17>VOLUME>1
18	ZONE>18>VOLUME>1
19	ZONE>19>VOLUME>1
20	ZONE>20>VOLUME>1
21	ZONE>21>VOLUME>1
22	ZONE>22>VOLUME>1
23	ZONE>23>VOLUME>1
24	ZONE>24>VOLUME>1
25	ZONE>25>VOLUME>1
26	ZONE>26>VOLUME>1
27	ZONE>27>VOLUME>1
28	ZONE>28>VOLUME>1
29	ZONE>29>VOLUME>1
30	ZONE>30>VOLUME>1
31	ZONE>31>VOLUME>1
32	ZONE>32>VOLUME>1

ALL_DANTE_IN

example (default value):

#|LUNA_U>1||SET_REQ^ALL_DANTE_IN^MUTE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FA

Index	Target
1	INPUT_DANTE>1>VOLUME>1
2	INPUT_DANTE>2>VOLUME>1
3	INPUT_DANTE>3>VOLUME>1
4	INPUT_DANTE>4>VOLUME>1
5	INPUT_DANTE>5>VOLUME>1
6	INPUT_DANTE>6>VOLUME>1
7	INPUT_DANTE>7>VOLUME>1
8	INPUT_DANTE>8>VOLUME>1
9	INPUT_DANTE>9>VOLUME>1
10	INPUT_DANTE>10>VOLUME>1
11	INPUT_DANTE>11>VOLUME>1
12	INPUT_DANTE>12>VOLUME>1
13	INPUT_DANTE>13>VOLUME>1
14	INPUT_DANTE>14>VOLUME>1
15	INPUT_DANTE>15>VOLUME>1
16	INPUT_DANTE>16>VOLUME>1
17	INPUT_DANTE>17>VOLUME>1
18	INPUT_DANTE>18>VOLUME>1
19	INPUT_DANTE>19>VOLUME>1
20	INPUT_DANTE>20>VOLUME>1
21	INPUT_DANTE>21>VOLUME>1
22	INPUT_DANTE>22>VOLUME>1
23	INPUT_DANTE>23>VOLUME>1
24	INPUT_DANTE>24>VOLUME>1
25	INPUT_DANTE>25>VOLUME>1
26	INPUT_DANTE>26>VOLUME>1
27	INPUT_DANTE>27>VOLUME>1
28	INPUT_DANTE>28>VOLUME>1
29	INPUT_DANTE>29>VOLUME>1
30	INPUT_DANTE>30>VOLUME>1
31	INPUT_DANTE>31>VOLUME>1
32	INPUT_DANTE>32>VOLUME>1

ALL_ANALOG_IN

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_ANALOG_IN^MUTE|FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE^FALSE|U|<CRLF>
```

Index	Target
1	INPUT_LINE>1>VOLUME>1
2	INPUT_LINE>2>VOLUME>1
3	INPUT_LINE>3>VOLUME>1
4	INPUT_LINE>4>VOLUME>1
5	INPUT_LINE>5>VOLUME>1
6	INPUT_LINE>6>VOLUME>1
7	INPUT_LINE>7>VOLUME>1
8	INPUT_LINE>8>VOLUME>1
9	INPUT_LINE>9>VOLUME>1
10	INPUT_LINE>10>VOLUME>1
11	INPUT_LINE>11>VOLUME>1
12	INPUT_LINE>12>VOLUME>1

ALL_OS_IN

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_OS_IN^MUTE|FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	INPUT_GENERATOR>1>VOLUME>1
2	INPUT_OS>1>VOLUME>1
3	INPUT_OS>2>VOLUME>1

ALL_AUTOMIXERS

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_AUTOMIXERS^MUTE|FALSE^FALSE^FALSE^FALSE|U|<CRLF>`

Index	Target
1	ZONEMONO_AUTOMIXER>1>VOLUME>1
2	ZONEMONO_AUTOMIXER>2>VOLUME>1
3	ZONEMONO_AUTOMIXER>3>VOLUME>1
4	ZONEMONO_AUTOMIXER>4>VOLUME>1

ROUTE

change the routing of a zone

Argument (input): the input that is selected in that zone. -1 = Mixed (not settable), O = OFF, 1 = input 1 ,...

Target	Argument	Example(s)
ZONE>1>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>1>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>1>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>2>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>2>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>2>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>3>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>3>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>3>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>4>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>4>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>4>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>5>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>5>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>5>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>6>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>6>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>6>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>7>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>7>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>7>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>8>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>8>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>8>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>9>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>9>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>9>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>10>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>10>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>10>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>11>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>11>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>11>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>12>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>12>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>12>MIXER>1^ROUTE|U1|U|<CRLF>

ZONE>13>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>13>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>13>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>14>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>14>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>14>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>15>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>15>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>15>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>16>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>16>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>16>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>17>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>17>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>17>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>18>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>18>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>18>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>19>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>19>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>19>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>20>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>20>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>20>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>21>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>21>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>21>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>22>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>22>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>22>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>23>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>23>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>23>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>24>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>24>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>24>MIXER>1^ROUTE|U1|U|<CRLF>

ZONE>25>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>25>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>25>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>26>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>26>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>26>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>27>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>27>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>27>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>28>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>28>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>28>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>29>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>29>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>29>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>30>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>30>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>30>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>31>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>31>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>31>MIXER>1^ROUTE|U1|U|<CRLF>
ZONE>32>MIXER>1	min: -1, max: 24 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>32>MIXER>1^ROUTE|0|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>32>MIXER>1^ROUTE|U1|U|<CRLF>

Grouped Commands

ALL_ZONES

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_ZONES^ROUTE|0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>
```

Index	Target
1	ZONE>1>MIXER>1
2	ZONE>2>MIXER>1
3	ZONE>3>MIXER>1
4	ZONE>4>MIXER>1
5	ZONE>5>MIXER>1
6	ZONE>6>MIXER>1
7	ZONE>7>MIXER>1
8	ZONE>8>MIXER>1
9	ZONE>9>MIXER>1
10	ZONE>10>MIXER>1
11	ZONE>11>MIXER>1
12	ZONE>12>MIXER>1
13	ZONE>13>MIXER>1
14	ZONE>14>MIXER>1
15	ZONE>15>MIXER>1
16	ZONE>16>MIXER>1
17	ZONE>17>MIXER>1
18	ZONE>18>MIXER>1
19	ZONE>19>MIXER>1
20	ZONE>20>MIXER>1
21	ZONE>21>MIXER>1
22	ZONE>22>MIXER>1
23	ZONE>23>MIXER>1
24	ZONE>24>MIXER>1
25	ZONE>25>MIXER>1
26	ZONE>26>MIXER>1
27	ZONE>27>MIXER>1
28	ZONE>28>MIXER>1
29	ZONE>29>MIXER>1
30	ZONE>30>MIXER>1
31	ZONE>31>MIXER>1
32	ZONE>32>MIXER>1

VOLUME

Set a single Volume in dB

Argument (volume): the requested Volume in dB

Target	Argument	Example(s)
INPUT_LINE>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>1>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>1>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>2>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>2>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>2>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>3>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>3>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>3>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>4>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>4>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>4>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>5>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>5>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>5>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>6>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>6>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>6>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>7>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>7>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>7>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>8>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>8>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>8>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>9>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>9>VOLUME>1^VOLUME|0|U|<C • #|LUNA_U>1||SET_FRC^INPUT_LINE>9>VOLUME>1^VOLUME|U1|U|<
INPUT_LINE>10>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>10>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_LINE>10>VOLUME>1^VOLUME|U1|U|
INPUT_LINE>11>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>11>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_LINE>11>VOLUME>1^VOLUME|U1|U|
INPUT_LINE>12>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_LINE>12>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_LINE>12>VOLUME>1^VOLUME|U1|U|

INPUT_DANTE>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>1>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>1>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>2>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>2>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>2>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>3>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>3>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>3>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>4>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>4>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>4>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>5>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>5>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>5>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>6>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>6>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>6>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>7>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>7>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>7>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>8>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>8>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>8>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>9>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>9>VOLUME>1^VOLUME|0|U|< • #|LUNA_U>1||SET_FRC^INPUT_DANTE>9>VOLUME>1^VOLUME|U1|U|
INPUT_DANTE>10>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>10>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>10>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>11>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>11>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>11>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>12>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>12>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>12>VOLUME>1^VOLUME|U1|U

INPUT_DANTE>13>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>13>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>13>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>14>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>14>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>14>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>15>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>15>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>15>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>16>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>16>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>16>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>17>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>17>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>17>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>18>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>18>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>18>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>19>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>19>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>19>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>20>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>20>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>20>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>21>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>21>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>21>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>22>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>22>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>22>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>23>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>23>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>23>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>24>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>24>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>24>VOLUME>1^VOLUME|U1|U

INPUT_DANTE>25>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>25>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>25>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>26>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>26>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>26>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>27>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>27>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>27>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>28>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>28>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>28>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>29>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>29>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>29>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>30>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>30>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>30>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>31>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>31>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>31>VOLUME>1^VOLUME|U1|U
INPUT_DANTE>32>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_DANTE>32>VOLUME>1^VOLUME|0|U| • #|LUNA_U>1||SET_FRC^INPUT_DANTE>32>VOLUME>1^VOLUME|U1|U
INPUT_OS>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_OS>1>VOLUME>1^VOLUME|0|U|<CRL • #|LUNA_U>1||SET_FRC^INPUT_OS>1>VOLUME>1^VOLUME|U1|U|<CR
INPUT_OS>2>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_OS>2>VOLUME>1^VOLUME|0|U|<CRL • #|LUNA_U>1||SET_FRC^INPUT_OS>2>VOLUME>1^VOLUME|U1|U|<CR
INPUT_GENERATOR>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^INPUT_GENERATOR>1>VOLUME>1^VOLUME|0 • #|LUNA_U>1||SET_FRC^INPUT_GENERATOR>1>VOLUME>1^VOLUME|U
ZONE>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>1>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>1>VOLUME>1^VOLUME|U1|U|<CRLF>

ZONE>2>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>2>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>2>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>3>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>3>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>3>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>4>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>4>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>4>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>5>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>5>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>5>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>6>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>6>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>6>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>7>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>7>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>7>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>8>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>8>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>8>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>9>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>9>VOLUME>1^VOLUME|-90|U|<CRLF> • #|LUNA_U>1||SET_FRC^ZONE>9>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>10>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>10>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>10>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>11>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>11>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>11>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>12>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>12>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>12>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>13>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>13>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>13>VOLUME>1^VOLUME|U1|U|<CRLF>

ZONE>14>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>14>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>14>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>15>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>15>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>15>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>16>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>16>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>16>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>17>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>17>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>17>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>18>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>18>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>18>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>19>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>19>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>19>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>20>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>20>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>20>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>21>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>21>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>21>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>22>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>22>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>22>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>23>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>23>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>23>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>24>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>24>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>24>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>25>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>25>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>25>VOLUME>1^VOLUME|U1|U|<CRLF>

ZONE>26>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>26>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>26>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>27>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>27>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>27>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>28>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>28>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>28>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>29>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>29>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>29>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>30>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>30>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>30>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>31>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>31>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>31>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONE>32>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONE>32>VOLUME>1^VOLUME|-90|U|<CRLF • #|LUNA_U>1||SET_FRC^ZONE>32>VOLUME>1^VOLUME|U1|U|<CRLF>
ZONEMONO_AUTOMIXER>1>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>1>VOLUME>1^VOLUM • #|LUNA_U>1||SET_FRC^ZONEMONO_AUTOMIXER>1>VOLUME>1^VOLUM
ZONEMONO_AUTOMIXER>2>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>2>VOLUME>1^VOLUM • #|LUNA_U>1||SET_FRC^ZONEMONO_AUTOMIXER>2>VOLUME>1^VOLUM
ZONEMONO_AUTOMIXER>3>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>3>VOLUME>1^VOLUM • #|LUNA_U>1||SET_FRC^ZONEMONO_AUTOMIXER>3>VOLUME>1^VOLUM
ZONEMONO_AUTOMIXER>4>VOLUME>1	min: -90, max: 0 stepsize: 1	• #|LUNA_U>1||SET_REQ^ZONEMONO_AUTOMIXER>4>VOLUME>1^VOLUM • #|LUNA_U>1||SET_FRC^ZONEMONO_AUTOMIXER>4>VOLUME>1^VOLUM

Grouped Commands

ALL_ZONES

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_ZONES^VOLUME|-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-90^-
```

Index	Target
1	ZONE>1>VOLUME>1
2	ZONE>2>VOLUME>1
3	ZONE>3>VOLUME>1
4	ZONE>4>VOLUME>1
5	ZONE>5>VOLUME>1
6	ZONE>6>VOLUME>1
7	ZONE>7>VOLUME>1
8	ZONE>8>VOLUME>1
9	ZONE>9>VOLUME>1
10	ZONE>10>VOLUME>1
11	ZONE>11>VOLUME>1
12	ZONE>12>VOLUME>1
13	ZONE>13>VOLUME>1
14	ZONE>14>VOLUME>1
15	ZONE>15>VOLUME>1
16	ZONE>16>VOLUME>1
17	ZONE>17>VOLUME>1
18	ZONE>18>VOLUME>1
19	ZONE>19>VOLUME>1
20	ZONE>20>VOLUME>1
21	ZONE>21>VOLUME>1
22	ZONE>22>VOLUME>1
23	ZONE>23>VOLUME>1
24	ZONE>24>VOLUME>1
25	ZONE>25>VOLUME>1
26	ZONE>26>VOLUME>1
27	ZONE>27>VOLUME>1
28	ZONE>28>VOLUME>1
29	ZONE>29>VOLUME>1
30	ZONE>30>VOLUME>1
31	ZONE>31>VOLUME>1
32	ZONE>32>VOLUME>1

ALL_DANTE_IN

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_DANTE_IN^VOLUME|0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>
```

Index	Target
1	INPUT_DANTE>1>VOLUME>1
2	INPUT_DANTE>2>VOLUME>1
3	INPUT_DANTE>3>VOLUME>1
4	INPUT_DANTE>4>VOLUME>1
5	INPUT_DANTE>5>VOLUME>1
6	INPUT_DANTE>6>VOLUME>1
7	INPUT_DANTE>7>VOLUME>1
8	INPUT_DANTE>8>VOLUME>1
9	INPUT_DANTE>9>VOLUME>1
10	INPUT_DANTE>10>VOLUME>1
11	INPUT_DANTE>11>VOLUME>1
12	INPUT_DANTE>12>VOLUME>1
13	INPUT_DANTE>13>VOLUME>1
14	INPUT_DANTE>14>VOLUME>1
15	INPUT_DANTE>15>VOLUME>1
16	INPUT_DANTE>16>VOLUME>1
17	INPUT_DANTE>17>VOLUME>1
18	INPUT_DANTE>18>VOLUME>1
19	INPUT_DANTE>19>VOLUME>1
20	INPUT_DANTE>20>VOLUME>1
21	INPUT_DANTE>21>VOLUME>1
22	INPUT_DANTE>22>VOLUME>1
23	INPUT_DANTE>23>VOLUME>1
24	INPUT_DANTE>24>VOLUME>1
25	INPUT_DANTE>25>VOLUME>1
26	INPUT_DANTE>26>VOLUME>1
27	INPUT_DANTE>27>VOLUME>1
28	INPUT_DANTE>28>VOLUME>1
29	INPUT_DANTE>29>VOLUME>1
30	INPUT_DANTE>30>VOLUME>1
31	INPUT_DANTE>31>VOLUME>1
32	INPUT_DANTE>32>VOLUME>1

ALL_ANALOG_IN

example (default value):

```
#|LUNA_U>1||SET_REQ^ALL_ANALOG_IN^VOLUME|0^0^0^0^0^0^0^0^0^0^0^0|U|<CRLF>
```

Index	Target
1	INPUT_LINE>1>VOLUME>1
2	INPUT_LINE>2>VOLUME>1
3	INPUT_LINE>3>VOLUME>1
4	INPUT_LINE>4>VOLUME>1
5	INPUT_LINE>5>VOLUME>1
6	INPUT_LINE>6>VOLUME>1
7	INPUT_LINE>7>VOLUME>1
8	INPUT_LINE>8>VOLUME>1
9	INPUT_LINE>9>VOLUME>1
10	INPUT_LINE>10>VOLUME>1
11	INPUT_LINE>11>VOLUME>1
12	INPUT_LINE>12>VOLUME>1

ALL_OS_IN

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_OS_IN^VOLUME|0^0^0|U|<CRLF>`

Index	Target
1	INPUT_GENERATOR>1>VOLUME>1
2	INPUT_OS>1>VOLUME>1
3	INPUT_OS>2>VOLUME>1

ALL_AUTOMIXERS

example (default value):

`#|LUNA_U>1||SET_REQ^ALL_AUTOMIXERS^VOLUME|0^0^0^0|U|<CRLF>`

Index	Target
1	ZONEMONO_AUTOMIXER>1>VOLUME>1
2	ZONEMONO_AUTOMIXER>2>VOLUME>1
3	ZONEMONO_AUTOMIXER>3>VOLUME>1
4	ZONEMONO_AUTOMIXER>4>VOLUME>1

CRC

The CRC block is calculated over the message starting from and including the first pipe "|", up to and including the last pipe **before** the CRC Block. These CRC's can ensure message integrity if desired.

CRC Type	Configuration	Format	Example	notes
None	/	U	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|U|<CRLF>`	'U' means unused
CRC16-ARC	• input reflected • output reflected • polynomial: 0x8005 • initial value: 0x0000 • final exor: 0x0000	XXXX	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|C06C|<CRLF>`	calculator
CRC32	• input reflected • output reflected • polynomial: 0x04C11DB7 • initial value: 0xFFFFFFFF • final exor: 0xFFFFFFFF	XXXXXXXX	`#|ALL||SET_REQ^INPUT_LINE>1^VOLUME|0|D887125C|<CRLF>`	calculator

The examples in the table above are examples for calculating the CRC, they may not be a valid command for the Luna U

The CRC can ensure data integrity accross unreliable data channels (RS232, RS485), but they are by no means a security measure! If someone has the knowledge and means to maliciously alter a message, correcting the CRC becomes trivial for the attacker. We support different kinds of CRC for maximum flexibility, but we recommend not using any so you do not get a false sense of security.

Stop Bytes

The final 2 characters are denoted as <CRLF>, they mean "Carriage Return, Line Feed" or simply put a new line. Depending on the tool used to create the command, you can have different representations:

- CRLF
- \r\n
- 0x0D 0x0A

We support both CRLF and LF only