StackControl

SC100 - Microphone Camera Controller
Communication Sheet

Revision
2025-05-01

Device Type: Camera Controller
Manufacturer: StackControl
Firmware Version: v3.0.3.
Modell(s): SC100

Version	Date	Notes
1.0.0	2024-03-12	Initial Version
1.0.1	2024-07-22	added credentials and standby
1.0.2	2025-01-23	added GET-commands
1.0.3	2025-04-15	added SET SWITCHER-commands
1.0.4	2025-05-01	added websocket and tcp/ip section

The SC100 offers a variety of communication options, supporting HTTP, WebSocket, and TCP/IP communication.

To help display the examples the following shorthand definitions will be used:

Shortcut	Definition
<arg>	<> Represent an input argument
[arg]	[] Represent an optional argument
(arg0 | ... | argN)	(... | ...) Represent a choice.

The IP-Address of the device can be obtained from the StackControl_SC100-Info.txt file, which is generated and saved to a connected USB stick during the boot process. See quickstart guide for details. You may use the IPv4 address, or if applicable on your network, the IPv6 address, or even the hostname if DNS is available on your network.

Commands and values are case-sensitive.

The device accepts all documented parameters; however, actual support may vary depending on the edition. Parameters that exceed the capabilities of a given edition are accepted but have no effect.

HTTP communication

HTTP is a communications protocol that enables a stateless and non-persistent, uni-directional, half-duplex TCP connection between a user's program (client) and a server. The Protocol itself operates on a request-response model. A HTTP connection is initiated by sending a HTTP request from the client to the server.

Basic Syntax Format:
http://<IP-Address>:<Port>/control?command=<command>&value1=<value1>[[&value2=<value2>][&value3=<value3>]]

Connection Parameters:

- **IP-Address**: IPv4 or, if applicable, IPv6 or hostname of the device. Can be obtained from the StackControl_SC100-Info.txt file.
- **Port**: 1881

The commands can be called up via a web browser, e.g:
`http://192.168.178.138:1881/control?command=SET%20PRESET&value1=1`

The command can be saved as a pre-configured shortcut, which is particularly useful for end users as it allows them to easily execute specific commands without manually entering the command details.

Alternatively, the call can also be made via the command line or powershell using curl:
`curl "192.168.178.138:1881/control?command=SET%20PRESET&value1=1"`

According to rfc1630, spaces are ‘unsafe‘ characters and should be encoded as %20

Feedback:
The device responds to a command with a JSON-formatted reply, e.g.:

```
{
  "application": "StackControl",
  "version": "SC100 v3.0.1",
  "command": "SET PRESET",
  "status": "SUCCESS",
  "message": "SET PRESET 1 SUCCESSFULLY ACTIVATED"
}
```

If a command was invalid for any reason, this is indicated by the response message:

```
{
  "application": "StackControl",
  "version": "SC100 v3.0.1",
  "command": "SET PRESET",
  "status": "FAILED",
  "message": "ERROR - COMMAND NOT VALID"
}
```

Command List

SET CHANNEL_ID_AUDIO

Command	value1	value2
SET CHANNEL_ID_AUDIO	0	ENABLE | DISABLE
SET CHANNEL_ID_AUDIO	1	ENABLE | DISABLE
SET CHANNEL_ID_AUDIO	101...999	ENABLE | DISABLE

This command activates or deactivates (simulates) the audio activity on the specified channel. Data from microphones continues to influence the channel, so the value can change despite the command being sent. Channel 2 cannot be set via the API, as its value is determined by the logic (2 or more channels active). When the command is sent for channel 0, this channel is not activated or deactivated, but all other channels are deactivated as a result. This can be used to ‘reset‘ audio for all channels.

Important: Channels should also receive a "DISABLE" command eventually, as a continuously enabled channel can block the logic.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20CHANNEL_ID_AUDIO&value1=201&value2=ENABLE
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1":"SET CHANNEL_ID_AUDIO","status":"SUCCESS","message":"SET CHANNEL_ID_AUDIO 201 SUCCESSFULLY ENABLED"}
```

Failed responses:

a)

```
{"application":"StackControl","version":"v3.0.1","command":"SET CHANNEL_ID_AUDIO","status":"FAILED","message":"SET CHANNEL_ID_AUDIO 301 NOT AVAILABLE"}
```

b)

```
{"application":"StackControl","version":"v3.0.1","command":"SET CHANNEL_ID_AUDIO","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}
```

The command may fail if the number of the desired channel does not exist in the configuration or if an incorrect value was transmitted for value1 or value2.

SET INPUT_DEVICE_DATA

command	value1	value2
SET INPUT_DEVICE_DATA	0	ENABLE | DISABLE
SET INPUT_DEVICE_DATA	1..12	ENABLE | DISABLE

This command enables or disables data processing for the specified input device. The use of 0 for value1 affects all other input devices simultaneously and can be used to enable or disable data processing for all input devices at the same time.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20INPUT_DEVICE_DATA&value1=1&value2=DISABLE
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","command":"SET INPUT_DEVICE_DATA","status":"SUCCESS","message":"SET INPUT_DEVICE_DATA 1 SUCCESSFULLY DISABLED"}
```

Failed responses:

a)

```
{"application":"StackControl","version":"v3.0.1","command":"SET INPUT_DEVICE_DATA","status":"FAILED","message":"SET INPUT_DEVICE_DATA 5 NOT AVAILABLE"}
```

b)

```
{"application":"StackControl","version":"v3.0.1","command":"SET INPUT_DEVICE_DATA","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}
```

The command may fail if the number of the desired input device exceeds the number of configured input devices or if an incorrect value was transmitted for value1 or value2.

SET OUTPUT_DEVICE_DATA

command	value1	value2
SET OUTPUT_DEVICE_DATA	0	ENABLE | DISABLE
SET OUTPUT_DEVICE_DATA	1..8	ENABLE | DISABLE

This command enables or disables data processing for the specified output device. The use of 0 for value1 affects all other output devices simultaneously and can be used to enable or disable data processing for all output devices at the same time.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20OUTPUT_DEVICE_DATA&value1=1&value2=DISABLE
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","command":"SET OUTPUT_DEVICE_DATA","status":"SUCCESS","message":"SET OUTPUT_DEVICE_DATA 1 SUCCESSFULLY DISABLED"}
```

Failed responses:

a)

{"application":"StackControl","version":"v3.0.1","command":"SET OUTPUT_DEVICE_DATA","status":"FAILED","message":"SET OUTPUT_DEVICE_DATA 5 NOT AVAILABLE"}

b)

{"application":"StackControl","version":"v3.0.1","command":"SET OUTPUT_DEVICE_DATA","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}

The command may fail if the number of the desired output device exceeds the number of configured output devices or if an incorrect value was transmitted for value1 or value2.

SET PRESET

command	value1	value2
SET PRESET	1..10	

This command calls up the corresponding preset. A preset is a pre-configured setting that the device can quickly switch to, allowing for fast changes in configuration without manually adjusting individual parameters.

Important: The preset must be saved to the device beforehand.

Using presets is particularly useful in environments where the device needs to switch between different configurations frequently, such as in a multi-functional room. Ensure that the presets are saved correctly to avoid failed command responses, as a failed response might indicate that the preset was not saved or is corrupted.

Example:

Command:

http://192.168.178.138:1881/control?command=SET%20PRESET&value1=1

Successful response:

{"application":"StackControl","version":"v3.0.1","command":"SET PRESET","status":"SUCCESS","message":"SET PRESET 1 SUCCESSFULLY ACTIVATED"}

Failed responses:

a)

{"application":"StackControl","version":"v3.0.1","command":"SET PRESET","status":"FAILED","message":"SET PRESET 5 NOT FOUND"}

b)

{"application":"StackControl","version":"v3.0.1","command":"SET PRESET","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}

The command may fail if no preset was previously saved in the corresponding preset slot or an incorrect value was transferred for value1

SET SWITCH_DEVICE_DATA

Command	value1	value2
SET SWITCH_DEVICE_DATA	0	ENABLE | DISABLE
SET SWITCH_DEVICE_DATA	1	ENABLE | DISABLE

This command enables or disables data processing for the specified switch device. The use of 0 for value1 affects all other switch devices simultaneously and can be used to enable or disable data processing for all devices at the same time. Future firmware versions may extend the number of switch devices.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20SWITCH_DEVICE_DATA&value1=1&value2=DISABLE
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","command":"SET SWITCH_DEVICE_DATA","status":"SUCCESS","message":"SET SWITCH_DEVICE_DATA 1 SUCCESSFULLY DISABLED"}
```

Failed response:

```
{"application":"StackControl","version":"v3.0.1","command":"SET SWITCH_DEVICE_DATA","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}
```

The command may fail if an incorrect value was transmitted for value1 or value2.

SET SWITCHER_INPUT

command	value1	value2
SET SWITCHER_INPUT	1..12	

This command activates the specified input on the video switcher or matrix.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20SWITCHER_INPUT&value1=1
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","command":"SET SWITCHER_INPUT","status":"SUCCESS","message":"SET SWITCHER_INPUT 1 - SUCCESSFULLY ACTIVATED"}
```

Failed response:

{"application":"StackControl","version":"v3.0.3","command":"SET SWITCHER_INPUT","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}

SET SWITCHER_INPUT_NAME

command	value1	value2
SET SWITCHER_INPUT_NAME	1..12	<name>

This command assigns a specific name given as value2 to the input specified by value1. The name must match exactly what is expected by systems such as routers or management tools.

Example:

Command:

```
http://192.168.178.138:1881/browser?command=SET%20SWITCHER_INPUT_NAME&value1=1&value2=Your%20Stream%20Name
```

Successful response:

{"application":"StackControl","version":"v3.0.1","command":"SET SWITCHER_INPUT_NAME","status":"SUCCESS","message":"SET SWITCHER_INPUT_NAME 1 - \"Your Stream Name\" - SUCCESSFULLY ASSIGNED"}

Failed response:

{"application":"StackControl","version":"v3.0.1","command":"SET SWITCHER_INPUT_NAME","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}

SET SYSTEM_STANDBY

command	value1	value2
SET SYSTEM_STANDBY	SYSTEM_ON	
SET SYSTEM_STANDBY	SYSTEM_OFF	

This command puts the system into standby mode (system off) or wakes it up from standby mode (system on). During standyby mode, communication is still possible. The command can be interpreted as global enable or disable data processing.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20SYSTEM_STANDBY&value1=SYSTEM_ON
```

Successful response:

{"application":"StackControl","version":"SC100 v3.0.1","command":"SET SYSTEM_STANDBY","status":"SUCCESS","message":"SET SYSTEM_STANDBY: SYSTEM SUCCESSFULLY TURNED ON"}

Failed response:

{"application":"StackControl","version":"SC100 v3.0.1","command":"SET SYSTEM_STANDBY","status":"FAILED","message":"ERROR - COMMAND NOT VALID"}

DELETE CREDENTIALS

command	value1	value2
DELETE CREDENTIALS		

This command deletes the login information for the Web GUI, but two conditions must be met beforehand:
1. credentials must be stored
2. The flag must be set in the settings to allow the credentials to be deleted via the network command.

Example:

Command:
`http://192.168.178.138:1881/control?command=DELETE%20CREDENTIALS`

Successful response:
{"application":"StackControl","version":"SC100 v3.0.1","command":"DELETE CREDENTIALS","status":"SUCCESS","message":"DELETE CREDENTIALS - SUCCESS - SUCCESSFULLY DELETED"}

Failed responses:
a)
{"application":"StackControl","version":"SC100 v3.0.1","command":"DELETE CREDENTIALS","status":"ERROR","message":"DELETE CREDENTIALS - ERROR - NO CREDENTIALS FOUND"}
b)
{"application":"StackControl","version":"SC100 v3.0.1","command":"DELETE CREDENTIALS","status":"INFO","message":"DELETE CREDENTIALS - ERROR - CREDENTIALS NOT DELETED. CREDENTIAL DELETE FLAG NOT SET."}

GET INPUT_DEVICE_DATA

command	value1	value2
GET INPUT_DEVICE_DATA		

This command retrieves all available input devices (microphone / DSP) specified in the configuration section, along with their respective data processing state (enabled or disabled). Each device generates a separate response message, and the order of these responses is not guaranteed.

Important: This command is not supported in the browser interface, even if only a single input device is available. This is due to the multi-message response structure, which cannot be handled reliably in that environment.

Example:

Command:
`http://192.168.178.138:1881/control?command=GET%20INPUT_DEVICE_DATA`

GET OUTPUT_DEVICE_DATA

command	value1	value2
GET OUTPUT_DEVICE_DATA		

This command retrieves all available output devices (cameras) specified in the configuration section, along with their corresponding data processing state (enabled or disabled). Note that it does not indicate whether a device is configured or online. Also note that each device entry will generate a separate response, and the order of the responses is not guaranteed.

Important: This command is not supported in the browser interface, even if only a single input device is available. This is due to the multi-message response structure, which cannot be handled reliably in that environment.

Example:

Command:
`http://192.168.178.138:1881/control?command=GET%20OUTPUT_DEVICE_DATA`

GET PRESET

command	value1	value2
GET PRESET		

This command retrieves the last recalled preset number. If no preset was loaded, the return value1 equals 0.

Example:

Command:
`http://192.168.178.138:1881/control?command=GET%20PRESET`

Successful response:
`{"application":"StackControl","version":"v3.0.1","command":"GET PRESET","status":"DEFINED","message":"GET PRESET : 1"}`

Failed response:
There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.s.

GET SYSTEM STANDBY

command	value1	value2
GET SYSTEM_STANDBY		

This command retrieves the current standyby mode oft he device slot.

Example:

Command:

```
http://192.168.178.138:1881/control?command=GET%20SYSTEM_STANDBY
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","command":"GET
SYSTEM_STANDBY","status":"DEFINED","message":"GET SYSTEM_STANDBY :
SYSTEM_ON"}
```

Failed response:

There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.s.

TCP/IP communication

TCP/IP provides a reliable, connection-oriented communication channel between a client and the device. And allows for persistent, bi-directional, full-duplex communication.

Basic Syntax Format:
{"command":<command>,"value1":<val1>,"value2":<val2>,"value3":<val3>}

Connection Parameters:

- **IP-Address**: IPv4 or, if applicable, IPv6 or hostname of the device. Can be obtained from the StackControl_SC100-Info.txt file.
- **Port**: 11881
- **Protocol**: TCP

Example JSON Command (sent via an open TCP socket):

```
{"command": "SET PRESET", "value1": 1}
```

The TCP connection uses JSON-formatted messages, each ending with a newline (\n). Keys must use double quotes; numbers follow JSON types.

Feedback:
The device responds to a command with a JSON-formatted reply, e.g.:

```
{
        "application":"StackControl",
        "version":"v3.0.1",
        "status":"N/A",
        "message":"N/A",
        "command":"REP PRESET",
        "value1":1,
        "value2":"LOADED",
        "value3":"N/A",
        "compactValues":"REP PRESET 1 LOADED N/A",
        "_msgid":"47a5802ceeafb5e6"
}
```

If a command was invalid for any reason, this is indicated by the response message:

```
{
        "application":"StackControl",
        "version":"v3.0.1",
        "status":"FAILED",
        "message":"ERROR - COMMAND NOT VALID",
        "command":"SET PRESET",
        "value1":N/A",
        "value2":"N/A",
        "_msgid":"461e7e54c1750eba"
}
```

Command List

SET CHANNEL_ID_AUDIO

Command	value1	value2
SET CHANNEL_ID_AUDIO	0	ENABLE | DISABLE
SET CHANNEL_ID_AUDIO	1	ENABLE | DISABLE
SET CHANNEL_ID_AUDIO	101...999	ENABLE | DISABLE

This command activates or deactivates (simulates) the audio activity on the specified channel. Data from microphones continues to influence the channel, so the value can change despite the command being sent. Channel 2 cannot be set via the API, as its value is determined by the logic (2 or more channels active). When the command is sent for channel 0, this channel is not activated or deactivated, but all other channels are deactivated as a result. This can be used to ‘reset‘ audio for all channels.

Important: Channels should also receive a "DISABLE" command eventually, as a continuously enabled channel can block the logic.

Example:

Command:


```
{"command":"SET CHANNEL_ID_AUDIO","value1":201,"value2":"ENABLE"}
```


Successful response:


```
{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"SET
CHANNEL_ID_AUDIO","value1":101,"value2":"ENABLE","value3":"N/A","compact
Values":"SET CHANNEL_ID_AUDIO 101 ENABLE
N/A","_msgid":"0e2b6bb0147be6dc"}
```


Failed responses:

a)


```
{"application":"StackControl","version":"v3.0.1","status":"FAILED","mess
age":"SET CHANNEL_ID_AUDIO 301 NOT AVAILABLE","command":"SET
CHANNEL_ID_AUDIO","value1":301,"value2":"ENABLE","value3":"N/A","compact
Values":"SET CHANNEL_ID_AUDIO 301 ENABLE
N/A","_msgid":"100a35bb100b31d3"}
```


b)


```
{"application":"StackControl","version":"v3.0.1","command":"SET
CHANNEL_ID_AUDIO","value1":101,"value2":"N/A","status":"FAILED","message
":"ERROR - COMMAND NOT VALID","_msgid":"fec5ec127b57ead0"}
```


The command may fail if the number of the desired channel does not exist in the configuration or if an incorrect value was transmitted for value1 or value2.

SET INPUT_DEVICE_DATA

command	value1	value2

SET INPUT_DEVICE_DATA	0	ENABLE | DISABLE
SET INPUT_DEVICE_DATA	1..12	ENABLE | DISABLE

This command enables or disables data processing for the specified input device. The use of 0 for value1 affects all other input devices simultaneously and can be used to enable or disable data processing for all input devices at the same time.

Example:

Command:


```
{"command":"SET INPUT_DEVICE_DATA","value1":1,"value2":"DISABLE"}
```


Successful response:


```
{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"SET
INPUT_DEVICE_DATA","value1":1,"value2":"DISABLE","value3":"N/A","compact
Values":"SET INPUT_DEVICE_DATA 1 DISABLE
N/A","_msgid":"5c70029683e2f465"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","message
":"N/A","command":"REP
INPUT_DEVICE_DATA","value1":1,"value2":"DISABLED","value3":"N/A","compac
tValues":"REP INPUT_DEVICE_DATA 1 DISABLED
N/A","_msgid":"5c70029683e2f465"}
```


The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed responses:

a)


```
{"application":"StackControl","version":"v3.0.1","status":"FAILED","mess
age":"SET INPUT_DEVICE_DATA 5 NOT AVAILABLE","command":"SET
INPUT_DEVICE_DATA","value1":5,"value2":"DISABLE","value3":"N/A","compact
Values":"SET INPUT_DEVICE_DATA 5 DISABLE
N/A","_msgid":"bf1866752022b9d0"}
```


b)


```
{"application":"StackControl","version":"v3.0.1","command":"SET
INPUT_DEVICE_DATA","value1":"N/A","value2":"DISABLE","status":"FAILED","
message":"ERROR - COMMAND NOT VALID","_msgid":"b07f33ba6b39321e"}
```


The command may fail if the number of the desired input device exceeds the number of configured input devices or if an incorrect value was transmitted for value1 or value2.

SET OUTPUT_DEVICE_DATA

command	**value1**	**value2**
SET OUTPUT_DEVICE_DATA	0	ENABLE | DISABLE
SET OUTPUT_DEVICE_DATA	1..8	ENABLE | DISABLE

This command enables or disables data processing for the specified output device.

The use of 0 for value1 affects all other output devices simultaneously and can be used to enable or disable data processing for all output devices at the same time.

Example:

Command:

```
http://192.168.178.138:1881/control?command=SET%20OUTPUT_DEVICE_DATA&value1=1&value2=DISABLE
```

Successful response:

```
{"application":"StackControl","version":"v3.0.3","status":"IN_PROGRESS","message":"N/A","command":"SET OUTPUT_DEVICE_DATA","value1":1,"value2":"DISABLE","value3":"N/A","compactValues":"SET OUTPUT_DEVICE_DATA 1 DISABLE N/A","_msgid":"e98632f315ca611e"}

{"application":"StackControl","version":"v3.0.3","status":"N/A","message":"N/A","command":"REP OUTPUT_DEVICE_DATA","value1":1,"value2":"DISABLED","value3":"N/A","compactValues":"REP OUTPUT_DEVICE_DATA 1 DISABLED N/A","_msgid":"e98632f315ca611e"}
```

The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed responses:

a)

```
{"application":"StackControl","version":"v3.0.1","status":"FAILED","message":"SET OUTPUT_DEVICE_DATA 5 NOT AVAILABLE","command":"SET OUTPUT_DEVICE_DATA","value1":5,"value2":"DISABLE","value3":"N/A","compactValues":"SET OUTPUT_DEVICE_DATA 5 DISABLE N/A","_msgid":"5b9fd80fa07d9d82"}
```

b)

```
{"application":"StackControl","version":"v3.0.1","command":"SET OUTPUT_DEVICE_DATA","value1":"N/A","value2":"DISABLE","status":"FAILED","message":"ERROR - COMMAND NOT VALID","_msgid":"582e7187e5196523"}
```

The command may fail if the number of the desired output device exceeds the number of configured output devices or if an incorrect value was transmitted for value1 or value2.

SET PRESET

command	value1	value2
SET PRESET	1..10	

The integer value for value1 ranges from 1 to 10.
This command calls up the corresponding preset. The preset must have been saved beforehand.

Example:

Command:

{"command":"SET PRESET","value1":1}

Successful response:

{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"SET
PRESET","value1":1,"value2":"N/A","value3":"N/A","compactValues":"SET
PRESET 1 N/A N/A","_msgid":"7a057c2886e68cf8"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","message
":"N/A","command":"REP
PRESET","value1":1,"value2":"LOADED","value3":"N/A","compactValues":"REP
PRESET 1 LOADED N/A","_msgid":"7a057c2886e68cf8"}

The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed responses:

a)

{"application":"StackControl","version":"v3.0.1","status":"FAILED","mess
age":"SET PRESET 5 NOT FOUND","command":"SET
PRESET","value1":5,"value2":"N/A","value3":"N/A","compactValues":"SET
PRESET 5 N/A N/A","_msgid":"f1faec1429b51ac1"}

b)

{"application":"StackControl","version":"v3.0.3","command":"SET
PRESET","value1":"N/A","value2":"N/A","status":"FAILED","message":"ERROR
- COMMAND NOT VALID","_msgid":"e095dae5527bced0"}

The command may fail if no preset was previously saved in the corresponding preset slot or an incorrect value was transferred for value1

SET SWITCH_DEVICE_DATA

Command	value1	value2
SET SWITCH_DEVICE_DATA	0	ENABLE | DISABLE
SET SWITCH_DEVICE_DATA	1	ENABLE | DISABLE

This command enables or disables data processing for the specified switch device. The use of 0 for value1 affects all other switch devices simultaneously and can be used to enable or disable data processing for all devices at the same time. Future firmware versions may extend the number of switch devices.

Example:

Command:

{"command":"SET SWITCH_DEVICE_DATA","value1":1,
"value2":"DISABLE"}

Successful response:

{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"SET
SWITCH_DEVICE_DATA","value1":1,"value2":"DISABLE","value3":"N/A","compac

```
tValues":"SET SWITCH_DEVICE_DATA 1 DISABLE
N/A","_msgid":"ab9e482057a65943"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","message
":"N/A","command":"REP
SWITCH_DEVICE_DATA","value1":1,"value2":"DISABLED","value3":"N/A","compa
ctValues":"REP SWITCH_DEVICE_DATA 1 DISABLED
N/A","_msgid":"ab9e482057a65943"}
```


The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed response:


```
{"application":"StackControl","version":"v3.0.1","command":"SET
SWITCH_DEVICE_DATA","value1":"N/A","value2":"N/A","status":"FAILED","mes
sage":"ERROR - COMMAND NOT VALID","_msgid":"9bdb692637a2c241"}
```


The command may fail if an incorrect value was transmitted for value1 or value2.

SET SWITCHER_INPUT

command	value1	value2
SET SWITCHER_INPUT	1..12	

This command activates the specified input on the video switcher or matrix.

Example:

Command:


```
{"command":"SET SWITCHER_INPUT","value1":1}
```


Successful response:


```
{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"SET
SWITCHER_INPUT","value1":1,"value2":"N/A","value3":"N/A","compactValues"
:"SET SWITCHER_INPUT 1 N/A N/A","_msgid":"3a2e1c7644cc736e"}
```


Failed response:


```
{"application":"StackControl","version":"v3.0.3","command":"SET
SWITCHER_INPUT","value1":"N/A","value2":"N/A","status":"FAILED","message
":"ERROR - COMMAND NOT VALID","_msgid":"ddac711cd5c76525"}
```


SET SWITCHER_INPUT_NAME

command	value1	value2
SET SWITCHER_INPUT_NAME	1..12	<name>

This command assigns a specific name given as value2 to the input specified by value1. The name must match exactly what is expected by systems such as routers or management tools.

Example:

Command:

{"command":"SET SWITCHER_INPUT_NAME","value1":1,"value2":"Your Stream Name"}

Successful response:

{"application":"StackControl","version":"v3.0.3","status":"IN_PROGRESS","message":"N/A","command":"SET SWITCHER_INPUT_NAME","value1":1,"value2":"Your Stream Name","value3":"N/A","compactValues":"SET SWITCHER_INPUT_NAME 1 Your Stream Name N/A","_msgid":"86edf34c2f7a6ebf"}

Failed response:

{"application":"StackControl","version":"v3.0.3","command":"SET SWITCHER_INPUT_NAME","value1":"N/A","value2":"N/A","status":"FAILED","message":"ERROR - COMMAND NOT VALID","_msgid":"53b70b2653163b21"}

SET SYSTEM_STANDBY

command	value1	value2
SET SYSTEM_STANDBY	SYSTEM_ON	
SET SYSTEM_STANDBY	SYSTEM_OFF	

This command puts the system into standby mode (system off) or wakes it up from standby mode (system on). During standyby mode, communication is still possible. The command can be interpreted as global enable or disable data processing.

Example:

Command:

{"command":"SET SYSTEM_STANDBY","value1":"SYSTEM_ON"}

Successful response:

{"application":"StackControl","version":"v3.0.3","status":"IN_PROGRESS","message":"N/A","command":"SET SYSTEM_STANDBY","value1":"SYSTEM_ON","value2":"N/A","value3":"N/A","compactValues":"SET SYSTEM_STANDBY SYSTEM_ON N/A N/A","_msgid":"599cdfc91e10051e"}

{"application":"StackControl","version":"v3.0.3","status":"N/A","message":"N/A","command":"REP SYSTEM_STANDBY","value1":"SYSTEM_ON","value2":"N/A","value3":"N/A","compactValues":"REP SYSTEM_STANDBY SYSTEM_ON N/A N/A","_msgid":"599cdfc91e10051e"}

The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed response:

{"application":"StackControl","version":"v3.0.3","command":"SET SYSTEM_STANDBY","value1":"N/A","value2":"N/A","status":"FAILED","message":"ERROR - COMMAND NOT VALID","_msgid":"a3fa97f0e710d2a3"}

DELETE CREDENTIALS

command	value1	value2
DELETE CREDENTIALS		

This command deletes the login information for the Web GUI, but two conditions must be met beforehand:
1. credentials must be stored
2. The flag must be set in the settings to allow the credentials to be deleted via the network command.

Example:

Command:

```
{"command":"DELETE CREDENTIALS"}
```

Successful response:

```
{"application":"StackControl","version":"SC100 v3.0.1","command":"DELETE
CREDENTIALS","status":"SUCCESS","message":"DELETE CREDENTIALS - SUCCESS
- SUCCESSFULLY DELETED"}
```

Failed responses:

a)

```
{"application":"StackControl","version":"v3.0.1","status":"ERROR","messa
ge":"DELETE CREDENTIALS - ERROR - NO CREDENTIALS
FOUND","command":"DELETE
CREDENTIALS","value1":"N/A","value2":"N/A","value3":"N/A","compactValues
":"DELETE CREDENTIALS N/A N/A N/A","_msgid":"929e336b171e19ae"}
```

b)

```
{"application":"StackControl","version":"v3.0.1","status":"INFO","messag
e":"DELETE CREDENTIALS - ERROR - CREDENTIALS NOT DELETED. CREDENTIAL
DELETE FLAG NOT SET.","command":"DELETE
CREDENTIALS","value1":"N/A","value2":"N/A","value3":"N/A","compactValues
":"DELETE CREDENTIALS N/A N/A N/A","_msgid":"181b5547ec93cebe"}
```

GET INPUT_DEVICE_DATA

command	value1	value2
GET INPUT_DEVICE_DATA		

This command retrieves all available input devices (microphone / DSP) specified in the configuration section, along with their respective data processing state (enabled or disabled). Each device generates a separate response message, and the order of these responses is not guaranteed.

Example:

Command:

```
{"command":"GET INPUT_DEVICE_DATA"}
```

Successful response:

```
{"application":"StackControl","version":"v3.0.1","status":"IN_PRO
GRESS","message":"N/A","command":"GET
INPUT_DEVICE_DATA","value1":"N/A","value2":"N/A","value3":"N/A","
compactValues":"GET INPUT_DEVICE_DATA N/A N/A
N/A","_msgid":"87450e4aed4003b1"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","
message":"N/A","command":"REP
INPUT_DEVICE_DATA","value1":2,"value2":"ENABLED","value3":"N/A","
compactValues":"REP INPUT_DEVICE_DATA 2 ENABLED
N/A","_msgid":"87450e4aed4003b1"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","
message":"N/A","command":"REP
INPUT_DEVICE_DATA","value1":1,"value2":"DISABLED","value3":"N/A",
"compactValues":"REP INPUT_DEVICE_DATA 1 DISABLED
N/A","_msgid":"87450e4aed4003b1"}
```


The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed response:
There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.s.

GET OUTPUT_DEVICE_DATA

command	value1	value2
GET OUTPUT_DEVICE_DATA		

This command retrieves all available output devices (cameras) specified in the configuration section, along with their corresponding data processing state (enabled or disabled). Note that it does not indicate whether a device is configured or online. Also note that each device entry will generate a separate response, and the order of the responses is not guaranteed.

Example:

Command:

```
{"command":"GET OUTPUT_DEVICE_DATA"}
```

Successful response:


```
{"application":"StackControl","version":"v3.0.1","status":"IN_PROGRESS",
"message":"N/A","command":"GET
OUTPUT_DEVICE_DATA","value1":"N/A","value2":"N/A","value3":"N/A","compac
tValues":"GET OUTPUT_DEVICE_DATA N/A N/A
N/A","_msgid":"c48ccb48e27ed412"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","message
":"N/A","command":"REP
OUTPUT_DEVICE_DATA","value1":1,"value2":"DISABLED","value3":"N/A","compa
```

```
ctValues":"REP OUTPUT_DEVICE_DATA 1 DISABLED
N/A","_msgid":"c48ccb48e27ed412"}

{"application":"StackControl","version":"v3.0.1","status":"N/A","message
":"N/A","command":"REP
OUTPUT_DEVICE_DATA","value1":2,"value2":"ENABLED","value3":"N/A","compac
tValues":"REP OUTPUT_DEVICE_DATA 2 ENABLED
N/A","_msgid":"c48ccb48e27ed412"}
```


The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed response:
There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.s.

GET PRESET

command	value1	value2
GET PRESET		

This command retrieves the last recalled preset number. If no preset was loaded, the return value1 equals 0.

Example:

Command:


```
{"command":"GET PRESET"}
```


Successful response:


```
{"application":"StackControl","version":"v3.0.3","status":"DEFINED","mes
sage":"GET PRESET : 0","command":"GET
PRESET","value1":"N/A","value2":"N/A","value3":"N/A","compactValues":"GE
T PRESET N/A N/A N/A","_msgid":"6ec63171bb94db3c"}

{"application":"StackControl","version":"v3.0.3","status":"N/A","message
":"N/A","command":"REP
PRESET","value1":0,"value2":"LOADED","value3":"N/A","compactValues":"REP
PRESET 0 LOADED N/A","_msgid":"6ec63171bb94db3c"}
```


Failed response:
There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.s.

GET SYSTEM STANDBY

command	value1	value2
GET SYSTEM_STANDBY		

This command retrieves the current standyby mode oft he device slot.

Example:

Command:

{"command":"GET SYSTEM_STANDBY"}

Successful response:

{"application":"StackControl","version":"v3.0.3","status":"IN_PROGRESS",
"message":"N/A","command":"GET
SYSTEM_STANDBY","value1":"N/A","value2":"N/A","value3":"N/A","compactVal
ues":"GET SYSTEM_STANDBY N/A N/A N/A","_msgid":"4d83419b474477bc"}

{"application":"StackControl","version":"v3.0.3","status":"N/A","message
":"N/A","command":"REP
SYSTEM_STANDBY","value1":"SYSTEM_ON","value2":"N/A","value3":"N/A","comp
actValues":"REP SYSTEM_STANDBY SYSTEM_ON N/A
N/A","_msgid":"4d83419b474477bc"}

The command may respond with an ‚in progress'-message and a final success message. However, the order of the responses is not guaranteed.

Failed response:

There are currently no known scenarios in which this command would fail, provided it is not misspelled, as it does not require any parameters.

websocket communication

WebSocket is a communications protocol that enables a persistent, bi-directional, full-duplex TCP connection between a user's program and a server. A WebSocket connection is initiated by sending a WebSocket handshake request from the program's existing HTTP connection to the server, which upgrades the connection.

Basic Syntax Format:
{"command":"<command>","value1":<val1>,"val2":"<val2>,“value3“:<val3>}

The connection is established as follows:
ws://<IP-Address>:<Port>/websocket

- **IP-Address**: IPv4 or, if applicable, IPv6 or hostname of the device. Can be obtained from the StackControl_SC100-Info.txt file.
- **Port**: 1881
- **Protocol**: Websocket over TCP

The command structure is identical to the one used in TCP/IP communication. For details on message formatting and syntax, see the TCP/IP Communication section. Unlike TCP/IP, WebSocket messages do not require a terminating newline character.

Appendix A. Set Commands

SET PRESET 1	
...	
SET PRESET 10	
SET INPUT_DEVICE_DATA 0 ENABLE	
SET INPUT_DEVICE_DATA 0 DISABLE	
...	
SET INPUT_DEVICE_DATA 12 ENABLE	
SET INPUT_DEVICE_DATA 12 DISABLE	
SET OUTPUT_DEVICE_DATA 0 ENABLE	
SET OUTPUT_DEVICE_DATA 0 DISABLE	
...	
SET OUTPUT_DEVICE_DATA 12 ENABLE	
SET OUTPUT_DEVICE_DATA 12 DISABLE	
SET SWITCH_DEVICE_DATA 0 ENABLE	
SET SWITCH_DEVICE_DATA 0 DISABLE	
SET SWITCH_DEVICE_DATA 1 ENABLE	
SET SWITCH_DEVICE_DATA 1 DISABLE	
SET SWITCHER_INPUT_NAME 1 <arg>	
...	
SET SWITCHER_INPUT_NAME 12 <arg>	
SET SWITCHER_INPUT 1	
...	
SET SWITCHER_INPUT 12	
SET CHANNEL_ID_AUDIO 0 ENABLE	
SET CHANNEL_ID_AUDIO 0 DISABLE	
SET CHANNEL_ID_AUDIO 1 ENABLE	
SET CHANNEL_ID_AUDIO 1 DISABLE	
SET CHANNEL_ID_AUDIO 101 ENABLE	
SET CHANNEL_ID_AUDIO 101 DISABLE	
...	
SET CHANNEL_ID_AUDIO 999 ENABLE	
SET CHANNEL_ID_AUDIO 999 DISABLE	
DELETE CREDENTIALS	
SET SYSTEM_STANDBY SYSTEM_ON	
SET SYSTEM_STANDBY SYSTEM_OFF	

Appendix B. Get Commands

GET INPUT_DEVICE_DATA	
GET OUTPUT_DEVICE_DATA	
GET PRESET	
GET SWITCH_DEVICE_DATA	
GET SYSTEM_STANDBY	