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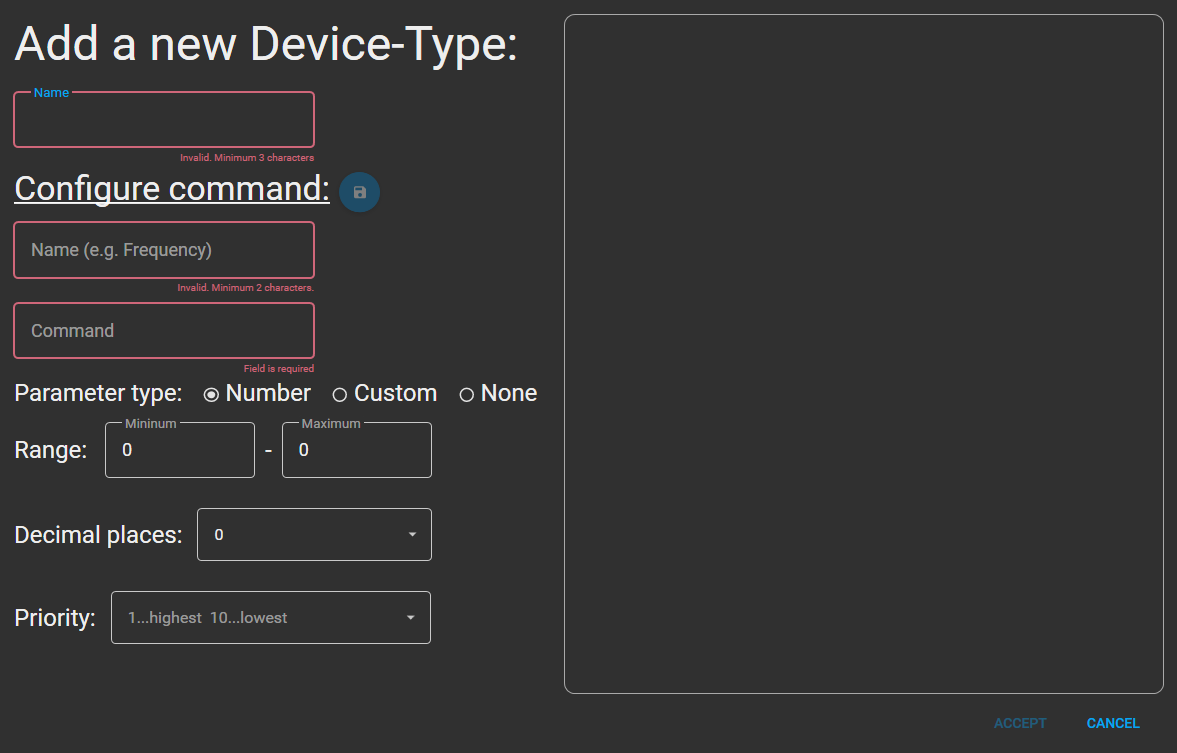
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# Configure SCPI-Devices

## Adding a new device type

To be able to create a sequence you need to add a device. This device is based on a predefined device type. To create such a device type you must navigate to “**Edit**” → “**Add device-type**”.



### Name the new device type

Each device-type must have a **unique name**. To name it, just type in the name in the text box.

### Add a command to the device-type

Once you named your new device-type, you can start with **assigning commands** to it.

In the first two text boxes you can **name** the command and enter the command string. It is recommended to assign the names according to a structure.

To **save** a command, click the blue save button.

### Command parameter types

#### None

If the parameter type none is selected the command is created as a **read-only** command. It can only be used to receive data from the device.

#### Number

If the parameter type number is selected, the command can be given a **number** corresponding to the **specified range** and **decimal digits**.

#### Custom

If the parameter type custom is selected, **various selection parameters can be set**. The **name** determines how the parameter is **displayed**, and the field “**command parameter**” defines which **string** actually corresponds to the parameter given to the **command**.

Once you are finished defining a custom parameter you must click the **blue button** with a **plus**. Now you can add a new custom parameter or save the command with the blue save button.

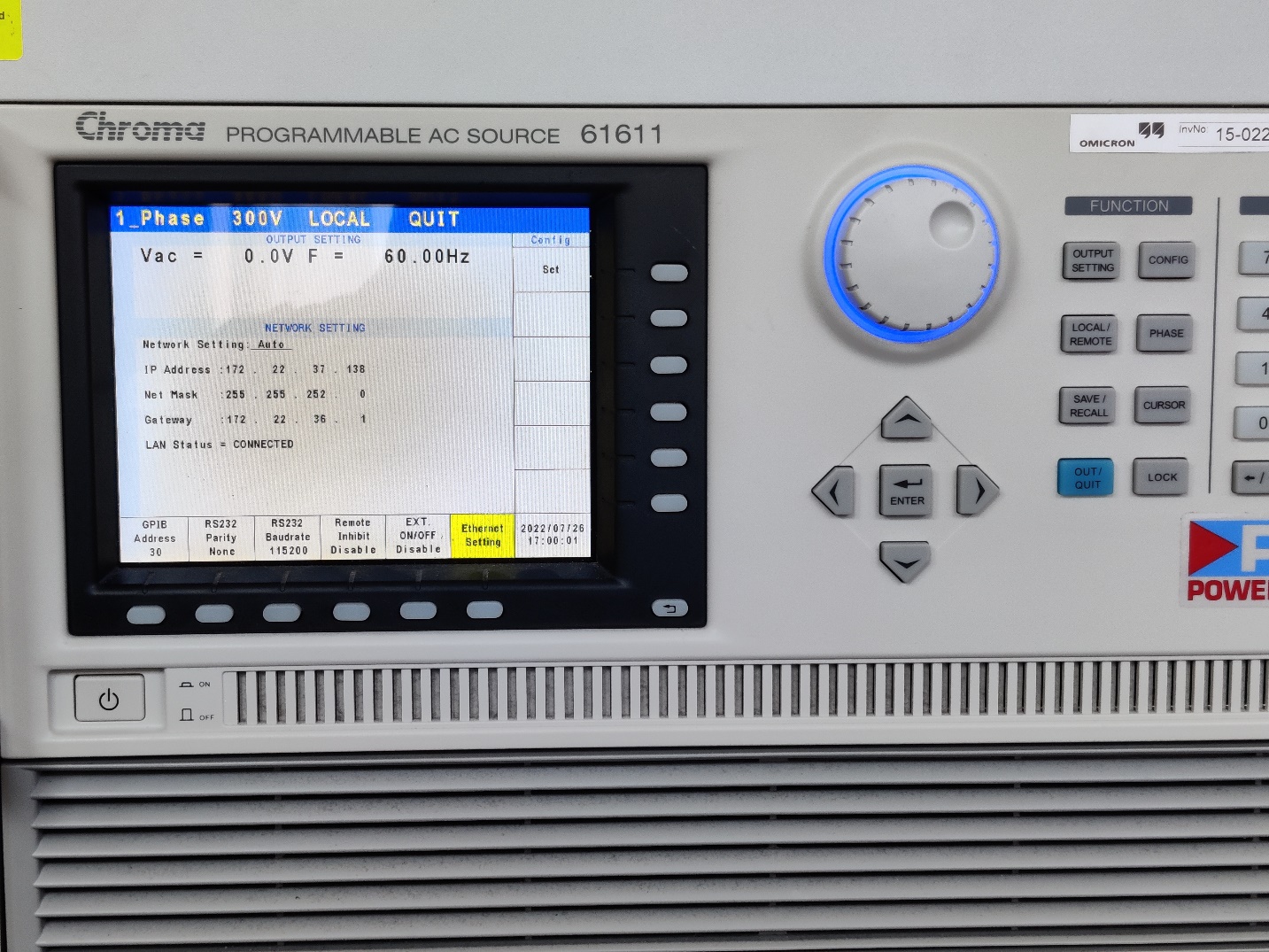
### Command priority

If you add a number- or custom-command you have the possibility to set a priority. This determines the position of the command in the operation.

This can be useful, for example, if you want to change the voltage and the current limit in an operation. In this way, you can ensure that the current limit is set before the voltage is increased.

## Adding a new device to the Sequence

### Find the device IP and PORT

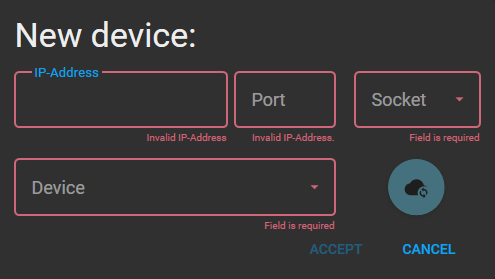


The easiest way to find out the **IP-Address** of a device is to go into the “**Ethernet Settings**”.

Note: Most local-area-networks devices get their IPs from a DHCP server, which means that it can change after re-verifying in the network. To edit a device TCPIP see: [1.2 Edit a device](#_Edit_a_device)

To find out the **PORT** of the device the easiest way search for it in the manual of the specific device. The default PORT for Chroma devices is **2101**.

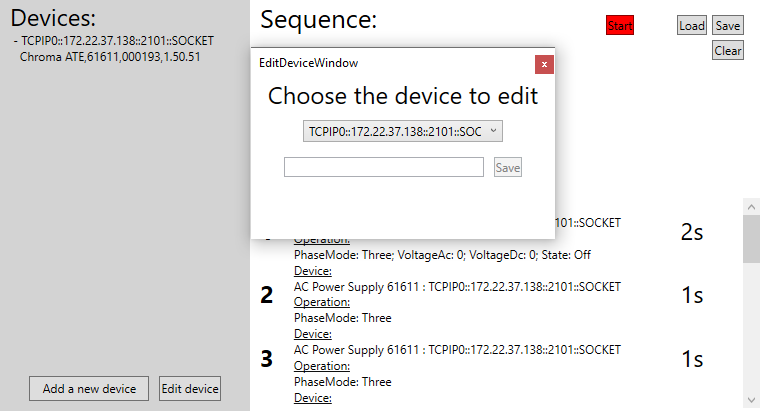
### Add a new device

To add a new device you must click on the plus button next to the headline “Devices:”. Once you clicked it a window shows up where you can define the IP-address, PORT, Socket (usually “SOCKET”) and the device type. To save the device click on the accept button.

If you want to check the connection you can click on the blue check button.

## Edit a device

If you load a saved sequence, the actual TCPIP of a device could have changed. To change this TCPIP in the sequence you can click on “Edit device”

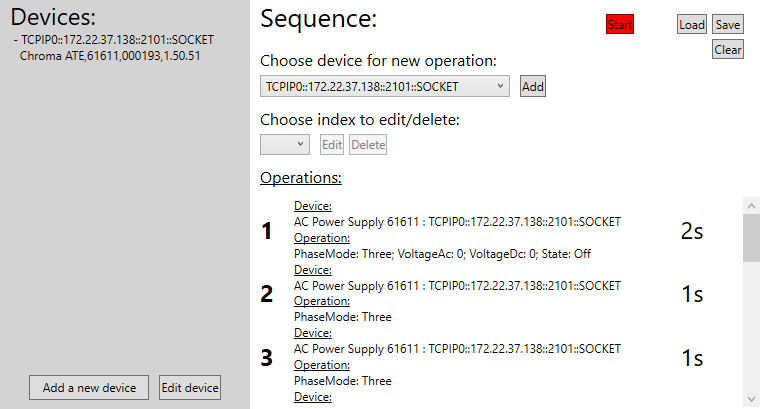


In the dropdown menu you can select the IP of the device you want to edit. When selected you can now type in the new IP in the textbox and save the changes with a click on “Save”. The changes only affect the currently loaded sequence.

# Add a device operation to the current sequence

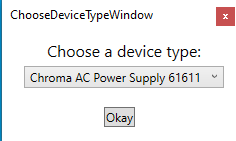
## Choose the device IP for the operation

To add a new operation to the sequence, you must first select the IP of the device with which you want to perform an operation. After this you can click on the “Add” button to proceed.



## Choose the device type for the operation

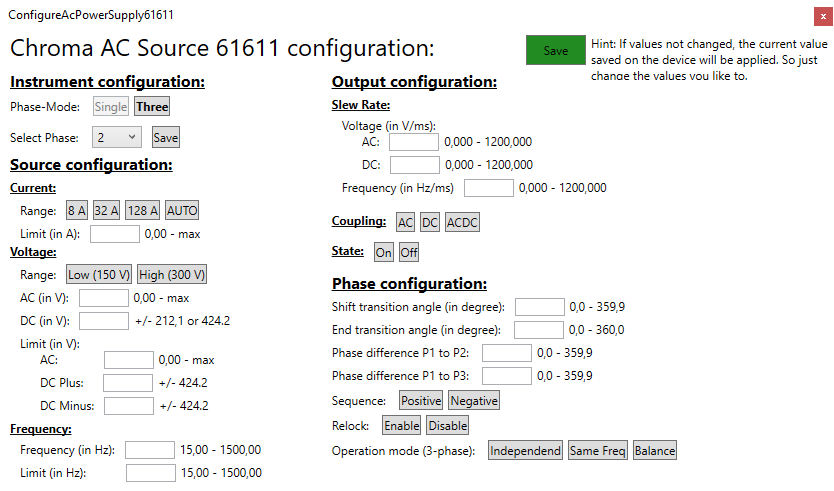
After you have selected the IP of your device to be used, select the corresponding device type from the list of implemented devices and click the “Okay” button.



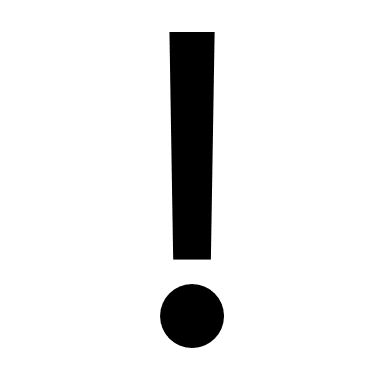
## Configure your device operation

After you have selected the device type for the operation, you are going to be forwarded to the device specific configuration page.

### Chroma AC Source 61611 configuration



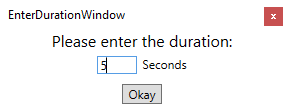
To configure the operation, you only must enter your desired value in the values you want to change.



*Note to Version 1.0.1: There is no input validation for the value ranges. It is also recommended that the change of the limits is carried out an operation before changing the initial value. For editing values in three-phase mode you must select each phase, insert your values and then press on the little “Save” button for each phase. To then save the whole configuration you can press the big green “Save” button.*

## Configure operation duration

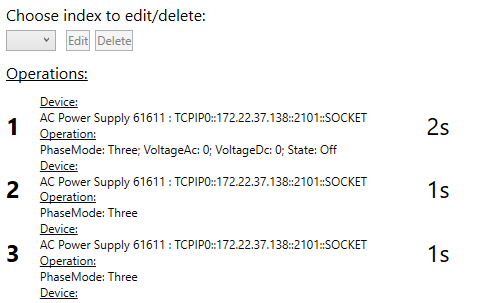
After clicking on the “Save” button in the device configuration page, you are going to be forwarded to the duration window. The duration is the time that is waited after executing the command of the current operation until the next operation is executed.



After clicking on the “Okay” button you will see your new operation in the operations-list on the main window.

# Modifying existing operations

## Select operation to be modified



To select an operation, you must select the index of it in the drop-down menu. To get the index of an operation you can look for it in the operations-list.

## Delete a selected operation



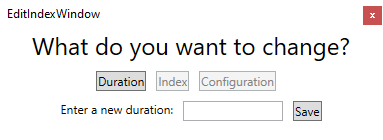
To delete a selected operation, you must click on the “Delete” button, you can see in the operations-list how the operation disappeared.

## Edit a selected operation



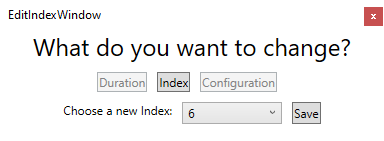
To edit a selected operation, you must click on the “Edit” button, you can now select if you want to change the duration, index or configuration.

### Edit operation duration



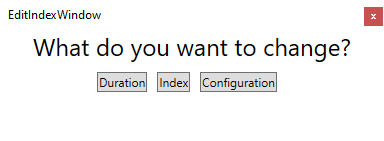
To edit the duration, you must click on the “Duration” button, enter the new duration (only numbers allowed) in the textbox and click on the “Save” button. The new duration will now be displayed in the operations-list.

### Edit operation index

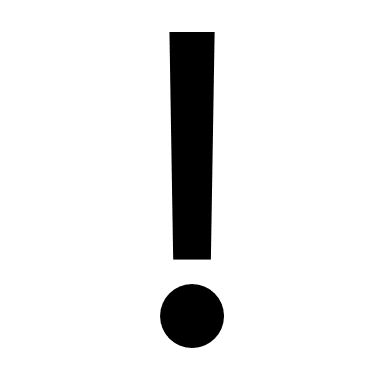


To change the position of the operation in the sequence, click on the “Index” button, select the new index and press save. The operation is now moved to this position.

### Edit operation configuration

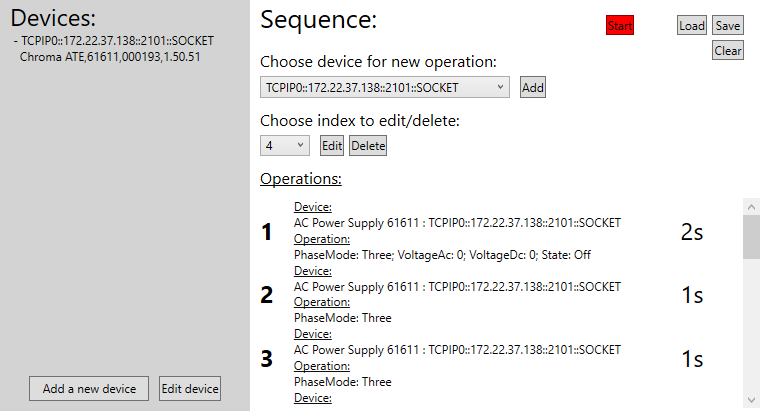


To change the configuration of the operation, click on the “Configuration” button. The configuration page of the specified device of the operation will now be displayed. (see [2.3 Configure your device operation](#_Configure_your_device))



*Note to Version 1.0.1: Only the changed values are actually changed. If the field is empty, the value already configured before the change is retained.*

# Start a sequence

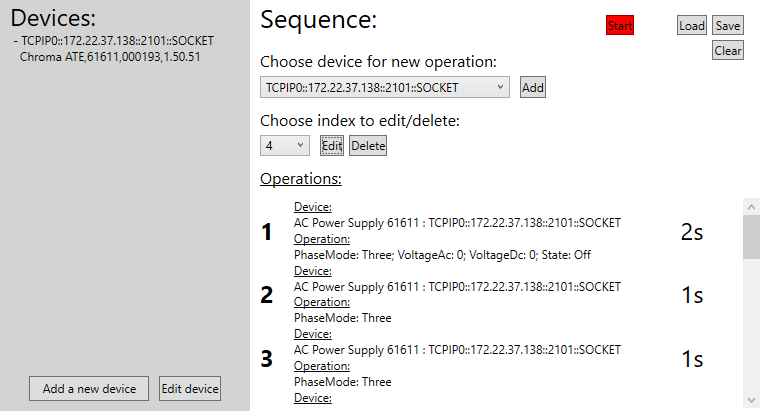


To start a sequence, you must click the red “Start” button. The application will first check if the connection to every device can be established and will then start the sequence. Please make sure to not turn off any device while a sequence is running. The progress of the sequence will be displayed with a progress bar.

**Attention: Editing a sequence while running, can affect the running sequence.**

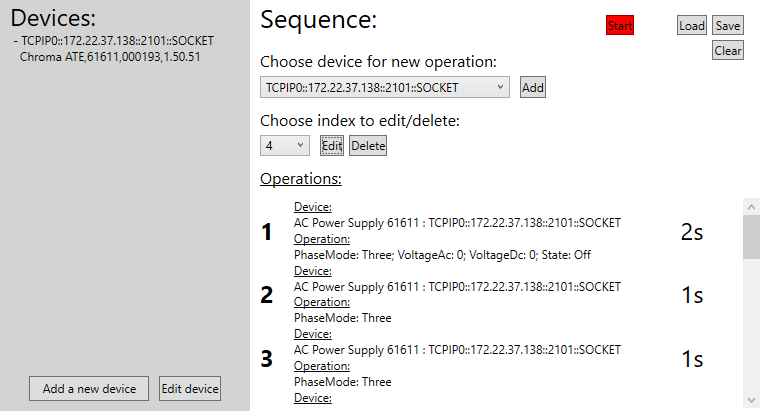
# Manage sequences

## Save a configured sequence



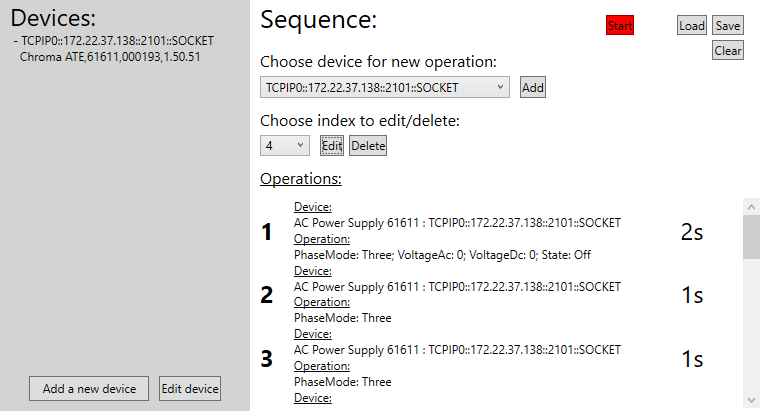
To safe a sequence you must click the “Save” button, select a location to save, select a name and click “Save”.

## Load a configured sequence



To load a saved sequence, you must click the “Load” button, select your “.seq” sequence file, and click “Open”.

## Clear the current sequence



If you want to unload the current sequence to create a new one you must click “Clear”. The operations-list is now empty.