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# DAI WebConfigurator

## Version 1.2.0

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User's guide



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**sedona**  
FRAMEWORK™

# WebConfigurator

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# 1 Introduction

This document describes the usage of the DALI WebConfigurator which is available for all Scalibur Controllers.

With this configurator you can manage DALI networks via a Modular Scalibur Controller by using a Web browser.

All possible settings of the DALI devices can be configured from here.

The main user interface of the configurator has the following layout.

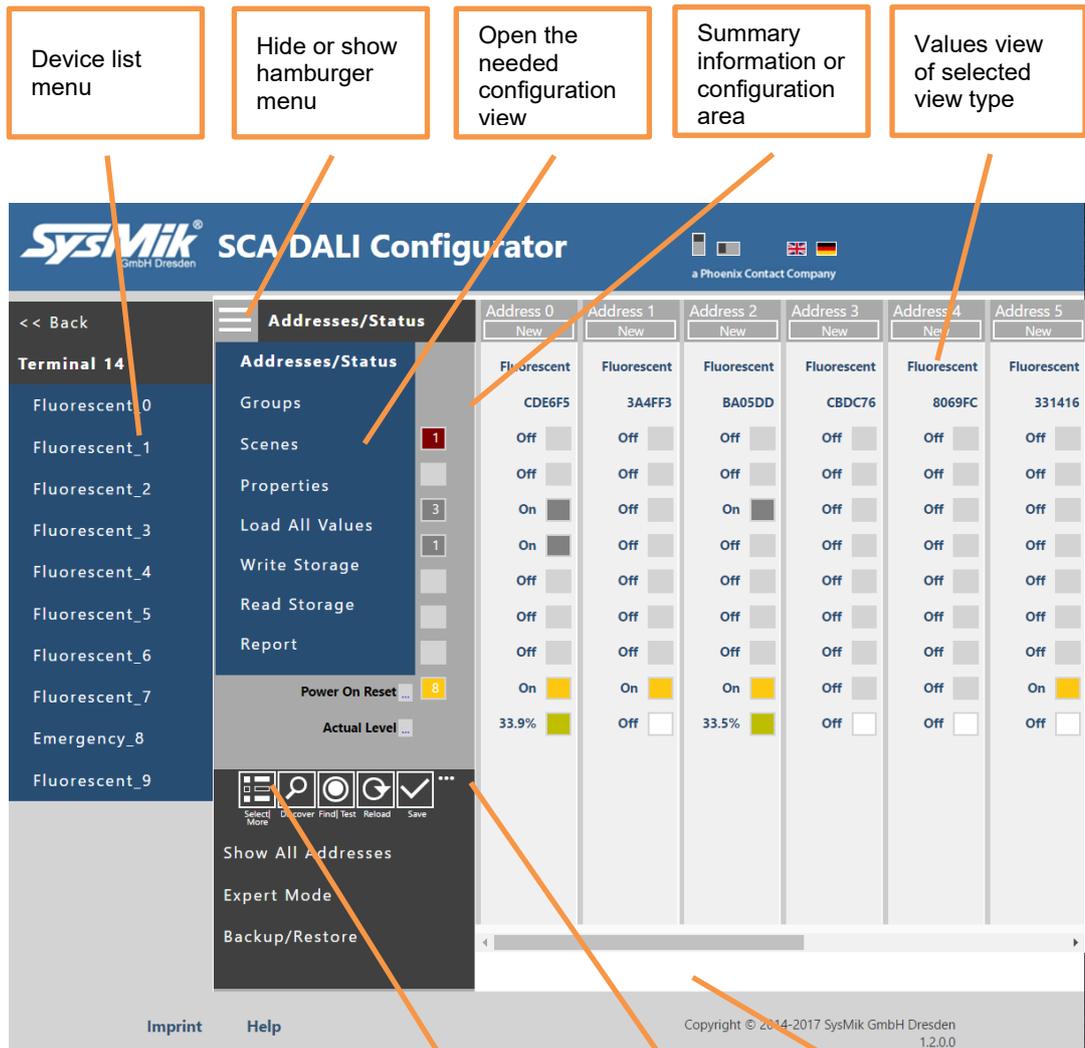


Fig. 1.1: User interface main view

The main popup menu icon buttons are the same in all view types.

Open or close selection mode

Hide or show popup menu functions

Activity animation area

There is a special selection mode available. This can be used to change settings of some or all devices in one step.

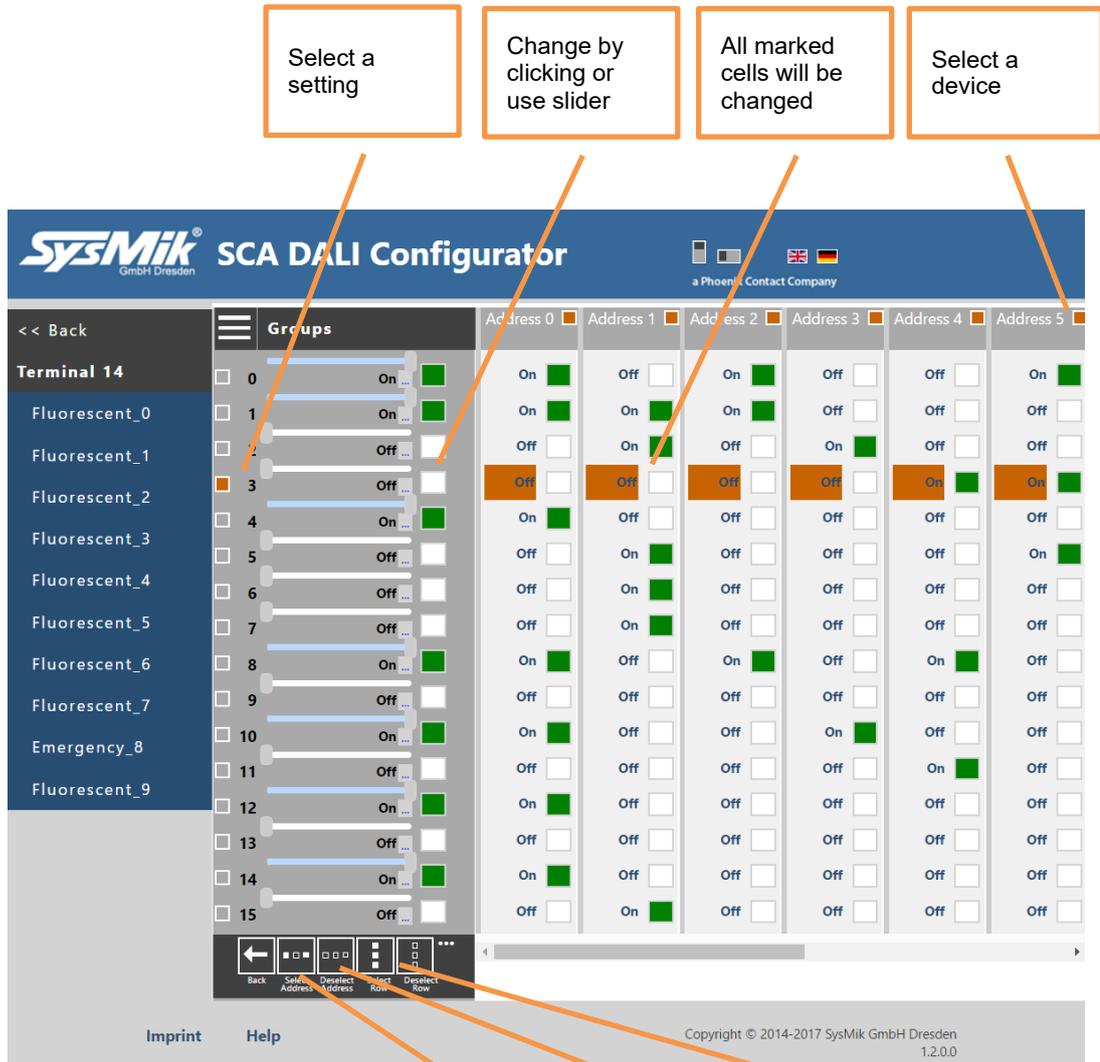


Fig. 1.2: User interface selection mode



In all views there is a test dialog available. The usage is very similar in all view types.

Clicking at the triangle in each option line (see Fig. 1.3) opens the option list of this line. Clicking once again closes the option list. Clicking another option while the list is still open, will update the list with the new option values.

If the option list is closed, clicking at the dialog title moves the dialog to the left border and allows to scroll through the values view. This can be helpful when testing scenes and groups to check their values.



## 1.1 System Requirements

- Web-Browser (e.g. Google Chrome 43, Microsoft Internet Explorer 11, Apple Safari).
- Modular Scalibur Controller SCA-340 with at least one DALI terminal.

### 1.1.1 Browser Configuration

DALIWeb Configurator uses and needs session and local storage in the web browser. The handling of this storage depends on the used browser type, usually the default settings will work fine.

However, in case of problems, please check the following settings:

a) Microsoft Internet Explorer 11

Activate the "Enable DOM storage" option in Internet options/advanced (mostly the default setting)

Optional:

Activate the "Allow active content to run in files on my Computer"

If this option is not activated then you must enable this feature on every start of the offline tools.

b) Google Chrome version 48 and higher

Activate "Allow local data storage" in the Cookies section of "Content settings" (default setting)

c) Firefox version 42 or higher

set in about:config the property dom.storage.enabled to true (default setting)

## 2 How to Use the Tool

### 2.1 Online DALI

The configuration of the DALI networks is part of the configuration webpages. To be able to login to these pages you must connect a USB cable from the mini port at the device with a free USB port of your PC.

Open your favorite browser and enter the URL <http://172.16.0.10:8080>

This will open the SCA login page where you select "Login" to navigate to the configuration start page. Use the "DALI Networks" menu entry to open the terminal selection page of the DALI configurator.

### 2.2 Offline DALI

Open your favorite browser and set the URL to <http://SCA-IP-Address:81>.

This will open the SCA login page where you can select "Offline DALI" to navigate to the terminal selection page in offline mode (see 3 for details).

### 2.3 Terminal selection page

The terminal selection lists all available DALI terminals.

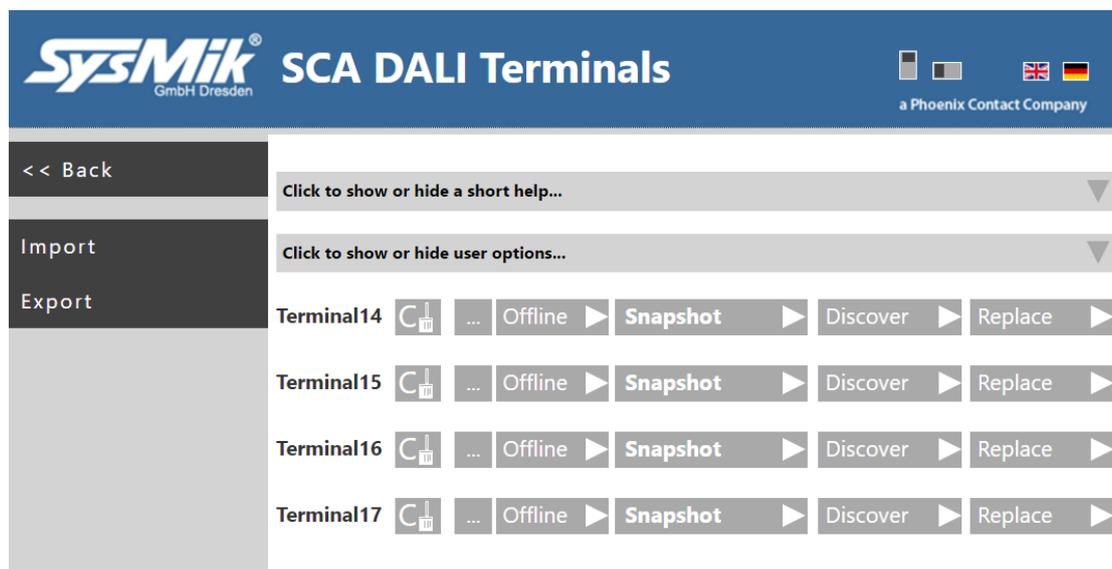


Fig. 2.3.1: Terminal selection page

The "**Snapshot**" buttons open the configurator for the selected terminal by doing a scan for used device short addresses. The result is held in cache until the browser is closed, the address settings are changed later on or the "C" button is pressed. If the cache is valid the button text is shown in bold font. This button is used when all DALI devices are already addressed (i.e. have a unique short address).

The "**Discover**" buttons start a DALI discovery for the selected network. The difference to the snapshot mode is, that it will not only search for devices with valid

short addresses but also unaddressed devices are getting valid addresses in this process. A cache is not used in this mode. This button is used, when not all DALI devices have gotten a short address yet. Usually, this is required only once, or when new devices have been added to the DALI network.

The **"Replace"** buttons start a DALI device replacement procedure for the selected network, usually to replace defective devices.

The **"Offline"** buttons can be used to start a DALI configuration (to create and to change configuration templates) without direct communication to the devices in the selected network (see chapter 3).

The **"C"** buttons clear the session cache for the selected terminal.

The **"..."** buttons open a control panel where simple DALI broadcast messages can be sent to the network.



Fig. 2.3.2: Broadcast control panel

Clicking the on the available click areas shows or hide a help and/or option area.

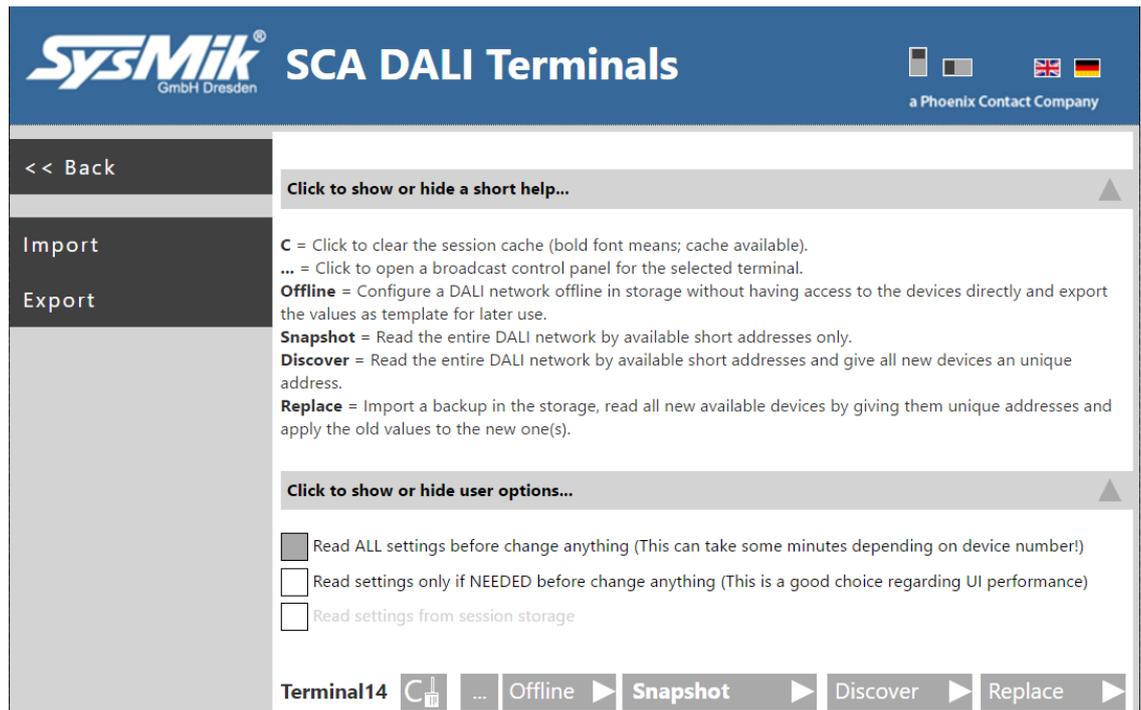


Fig. 2.3.3: Terminal selection page with shown help and option areas

In the option area you can adjust some options like for example how the App should do DALI communication. See also the tooltip text for details about the command buffer length options.

These options can be helpful to change the performance in using the web front end, but the default values are good for almost all cases.

## 2.4 Addresses/Status view

In this view are shown all found devices and their status information.

The summary area shows all active status flags and the number of devices where this flag is active.

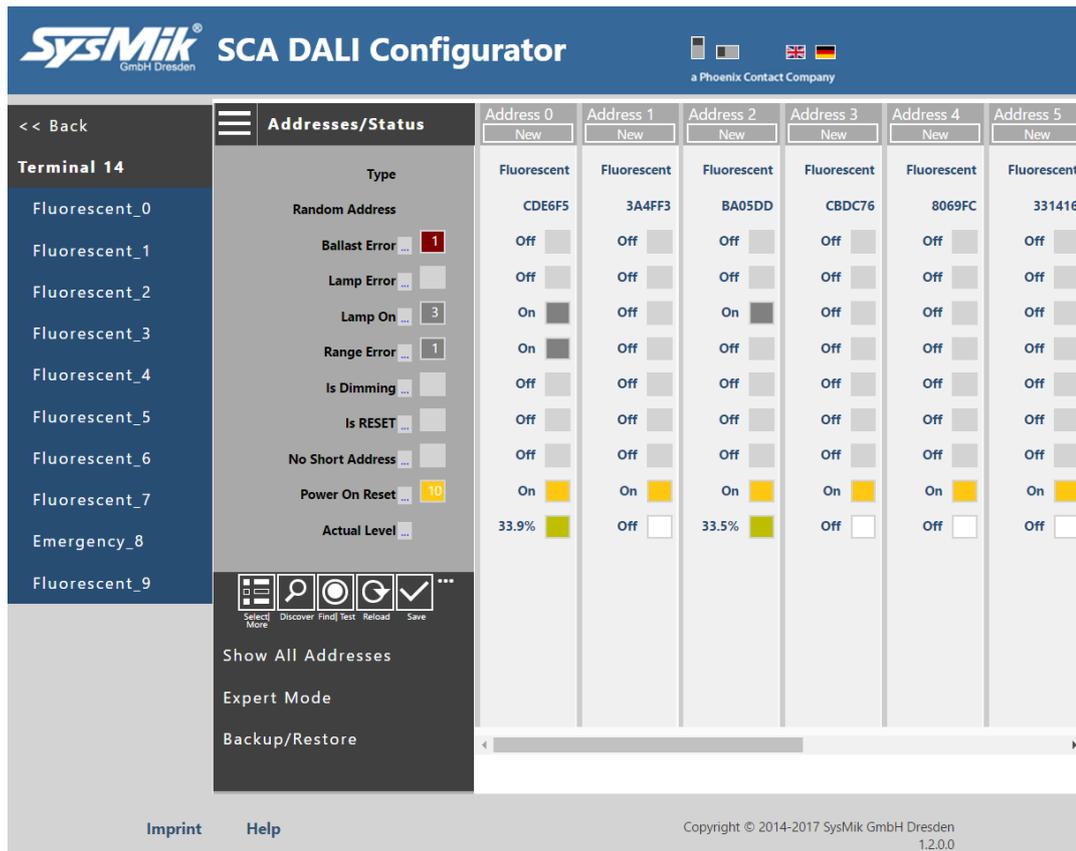


Fig. 2.4.1: Addresses/Status

Here address assignment can be modified in different ways:

- a) Clicking a "New" button opens the address dialog.
- b) Clicking the icon button "Find|Test" opens the test dialog. Here you can start a blink loop for all or selected devices. If the searched device is found, use the "Assign Address" button to open the address dialog.
- c) The "Assign address" popup menu function from selection mode opens the same dialog like at b). The difference is, that only the selected devices are shown in the "Address" option list.

### 2.4.1 Address dialog

In the address dialog a new address can be assigned simply by clicking the needed one. To remove the selected new address click the orange bordered number again. The used addresses are shown with blue color text. If anything is wrong in the assignment the address is shown in red.

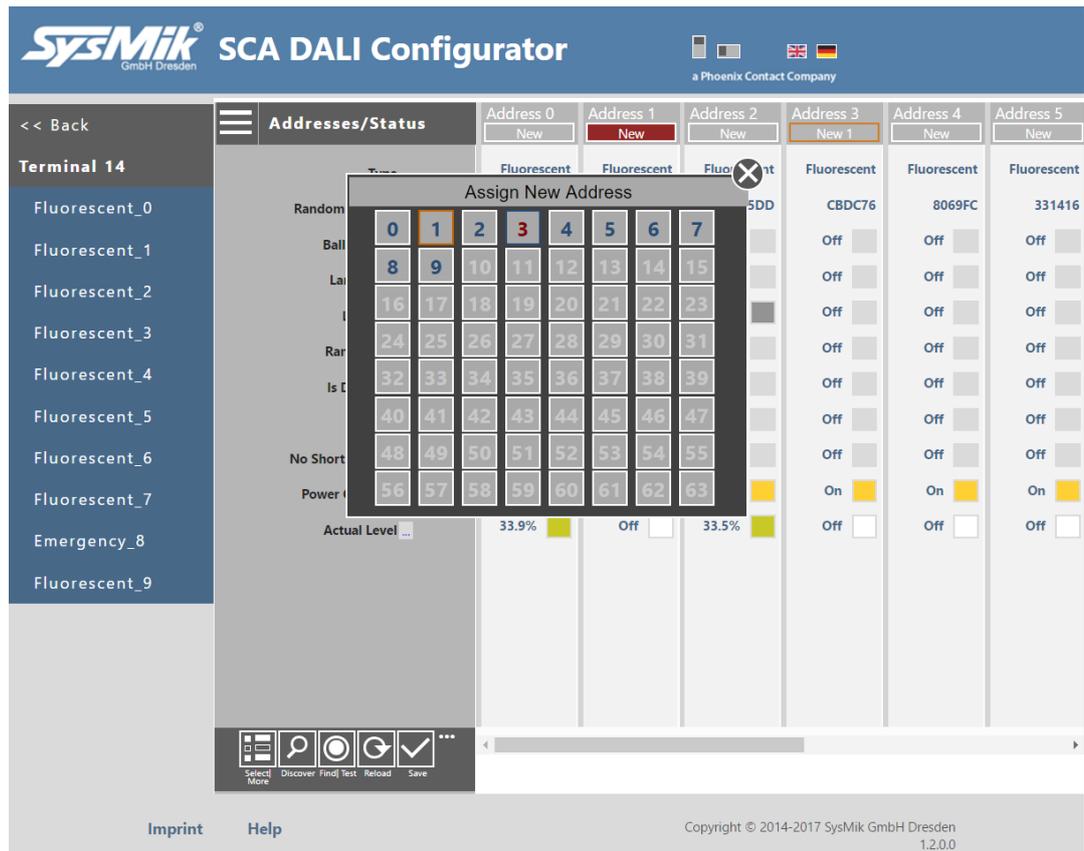


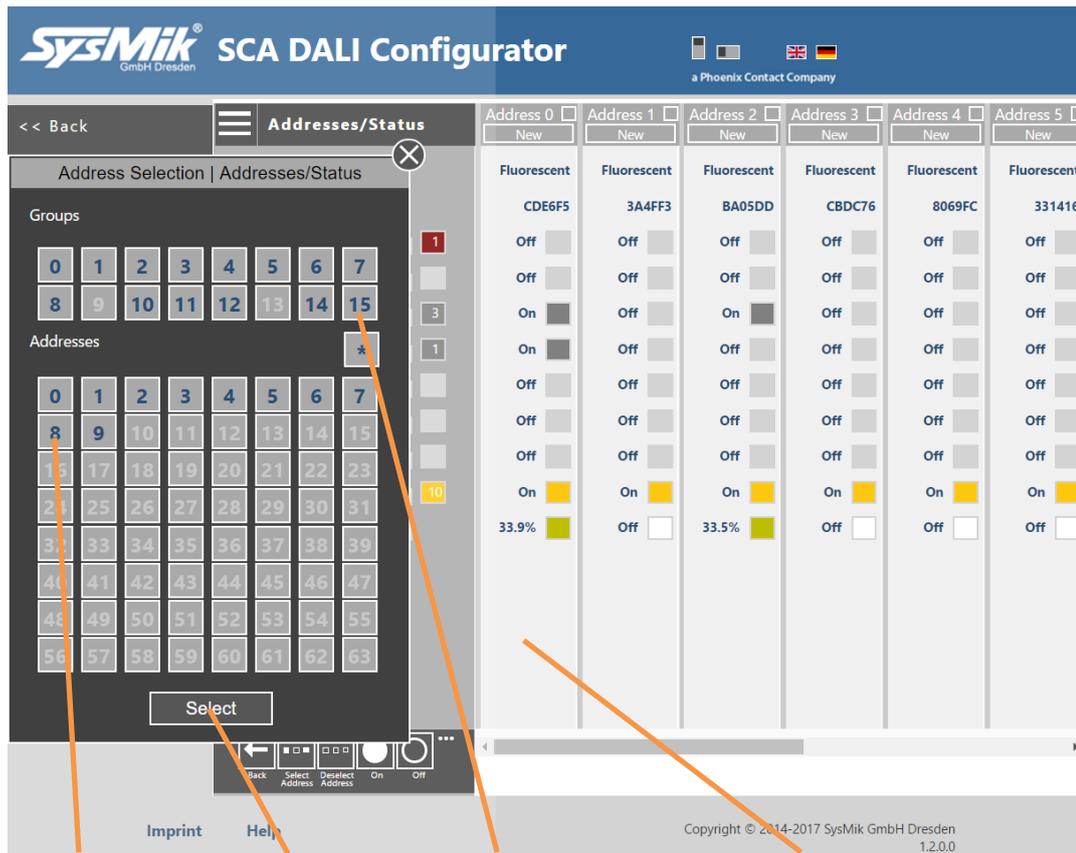
Fig. 2.4.1.1: Address dialog

In the selection mode popup menu there are two icon buttons for sending a broadcast "On" or "Off" available. You also can open the "Expert Mode" there. In the main popup menu the following



functions are additionally available:

The default control address is set to broadcast first, but you can select a device by short address or a group too. You can do this on different ways.



- Select a short address
- Click Select to make the selection valid
- Click a group (if available) or \* for broadcast
- You can also click on the address area to select a short address without open "Select Address". The header background color becomes black.

Fig. 2.4.1.2: Address Selection dialog

Note: Selecting groups is only available when groups have already been read .

Tip: The dialog can be moved to left or middle again by clicking on the dialog title area.

## 2.4.2 Test dialog

The main purpose of test dialog in status view is to give a configurable blink functionality. The usage of the test dialog is very similar for all view types. Only the purpose is different.

Clicking a triangle opens the option list of each step. Clicking once again closes the option list again. Clicking a other option while the list is open, the list will be updated with the new option values.

After pressing "Start" the engine sends to the selected address the first command, waits like configured, sends the second command, waits like configured, repeats this like configured N times or in a endless loop. After "Stop" and "Next" (Endless loop) or if "Next address automatic" (Repeat N times) is set blinking starts with next address. Use "Stop" if the searched device is found and assign via "Assign Addresses" button the new address.

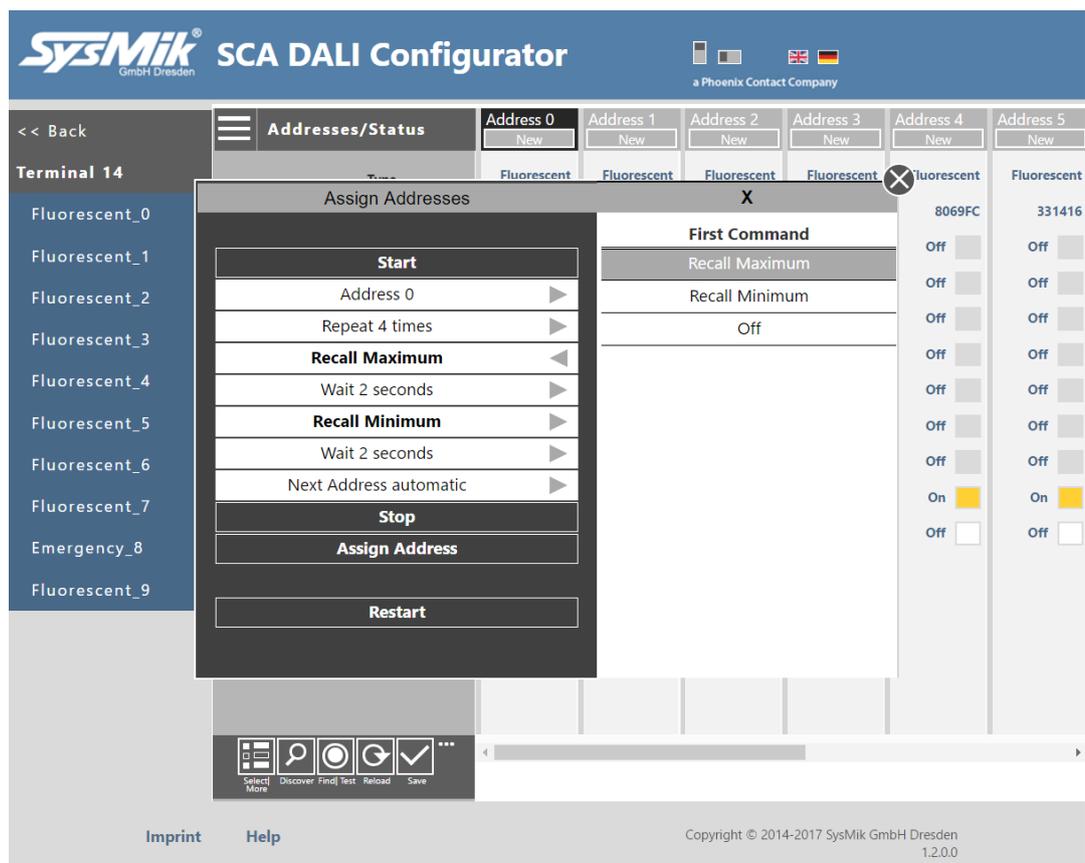


Fig. 2.4.2.1: Test dialog

The available commands are indirect control functions "Recall Maximum, Recall Minimum, Off". This means no fade time or rate is used here.

### 2.4.3 Apply Addresses

To change the addresses finally use the icon button "Save" or the popup menu function "Apply Settings" in selection mode.

### 2.4.4 Expert Mode

With the "Expert Mode" menu function you can send all available DALI commands.

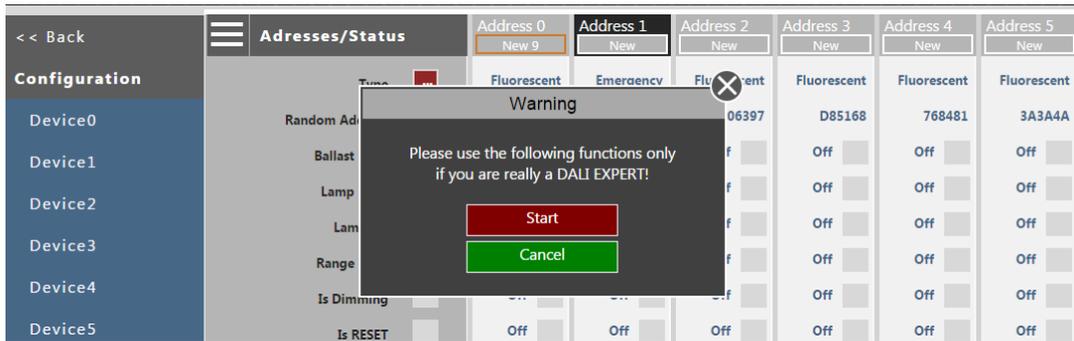


Fig. 2.4.4.1: Expert Mode Warning

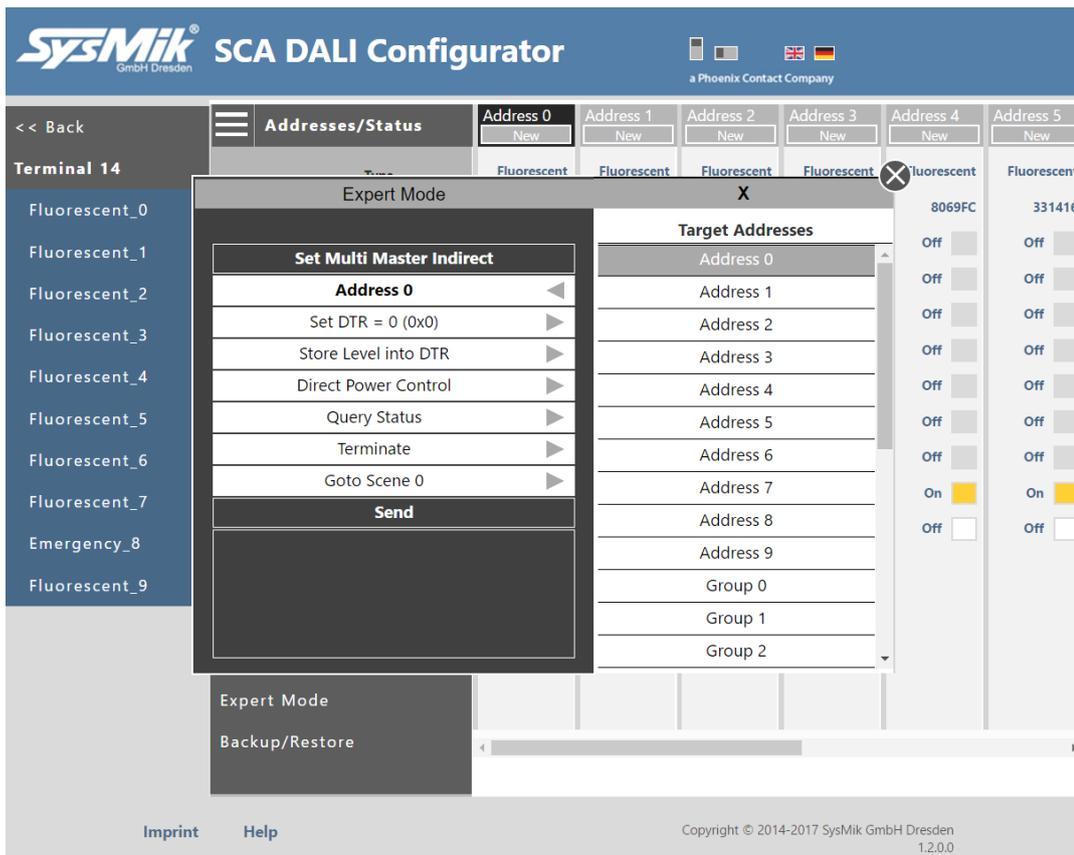


Fig. 2.4.4.2: Expert Mode dialog

The usage is similar to the test dialog. The bold shown commands will be send, if the "Send" button is pressed.

Note:

To set a property via DTR, it is necessary to first set DTR to the needed value ("Set DTR = ..." + "Send"). Then you can write DTR as configuration value, e.g. "Save as dim rate" + "Send".

### 2.4.5 Backup/Restore

This function can be used to backup or restore the entire DALI network settings. Both functions use the clipboard and a text area for doing this.

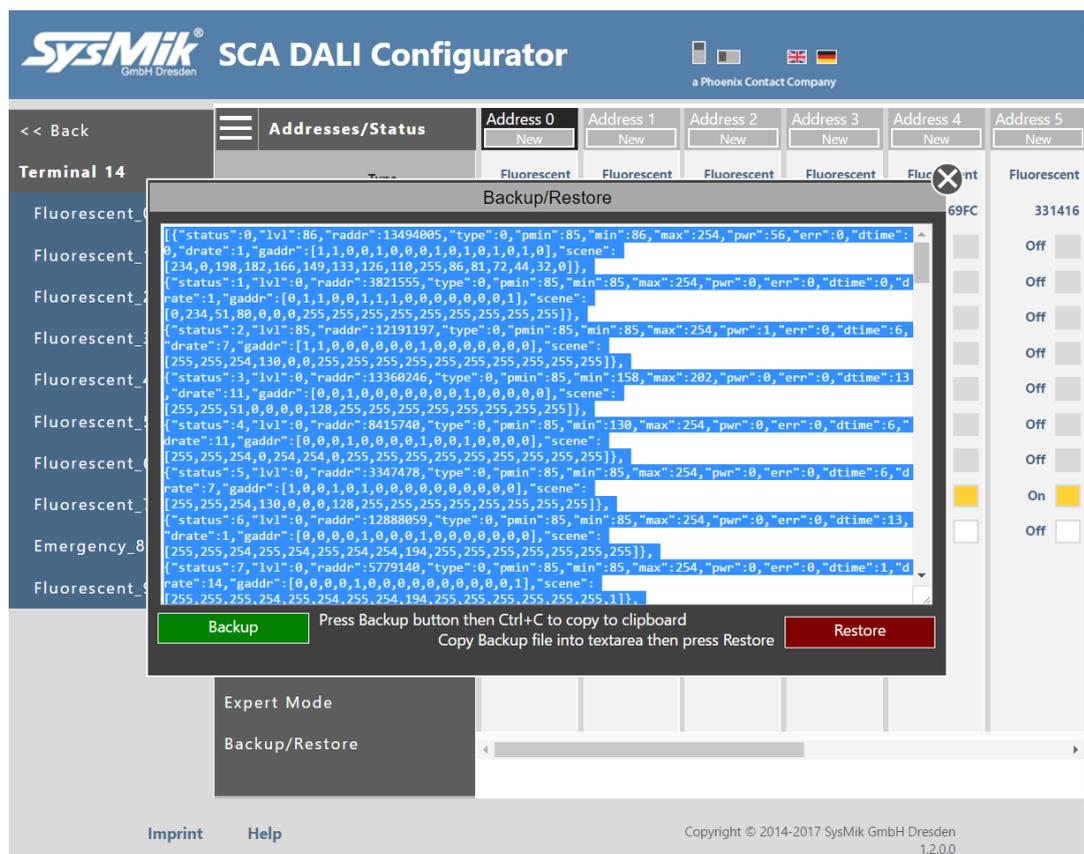


Fig. 2.4.5.1: Backup/Restore dialog

For a backup, all settings have to be read from the DALI network previously. If this is not already done, a dialog will pop up to do so.

## 2.4.6 Emergency device properties and commands

If a device is from type emergency device then select this device by clicking it in the values view. This will show a red rectangle bright of the "Type" text in the summary area. Click it and the "Emergency Properties, Actions and Status information" dialog opens.

In the "Status information" area you can refresh All or only selected details information.

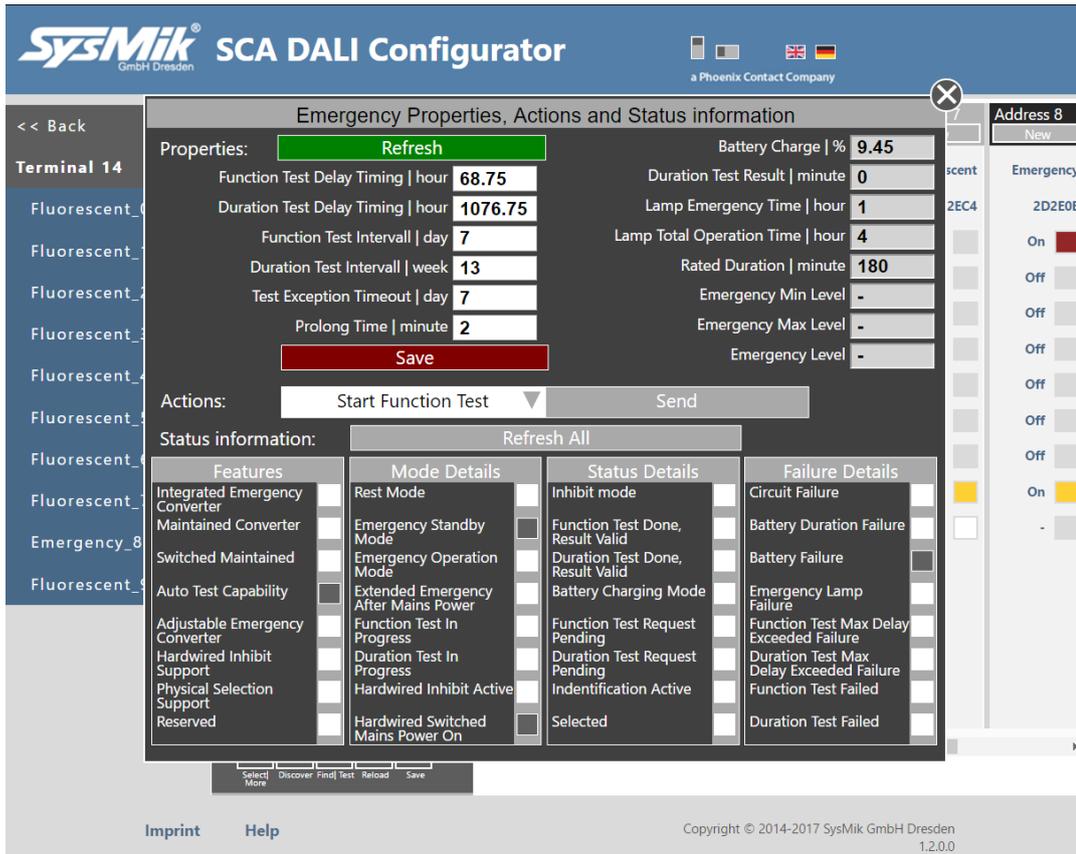


Fig. 2.4.6.1: Emergency dialog

To send a special action command select it by clicking the triangle in the "Actions:" line. This will drop-down a list with all available action commands. Select the needed one and send it finally via "Send" button.

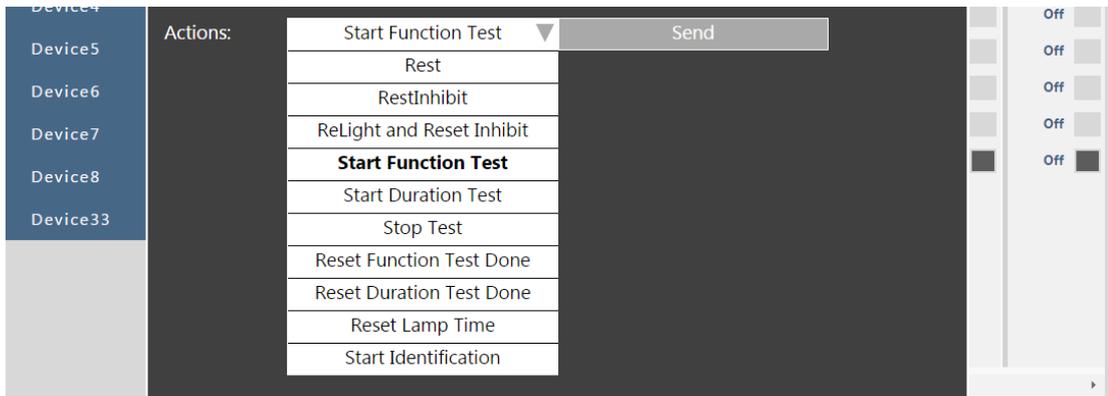


Fig. 2.4.6.2: Emergency dialog

## 2.4.7 Summary View of Addresses / Status

The summary view is a glance view of one flag from all up to 64 devices. You can open the dialog by clicking on the "..." area right side from the flag name. You can move through all flags by clicking on the white triangles in the area underneath the dialog title.

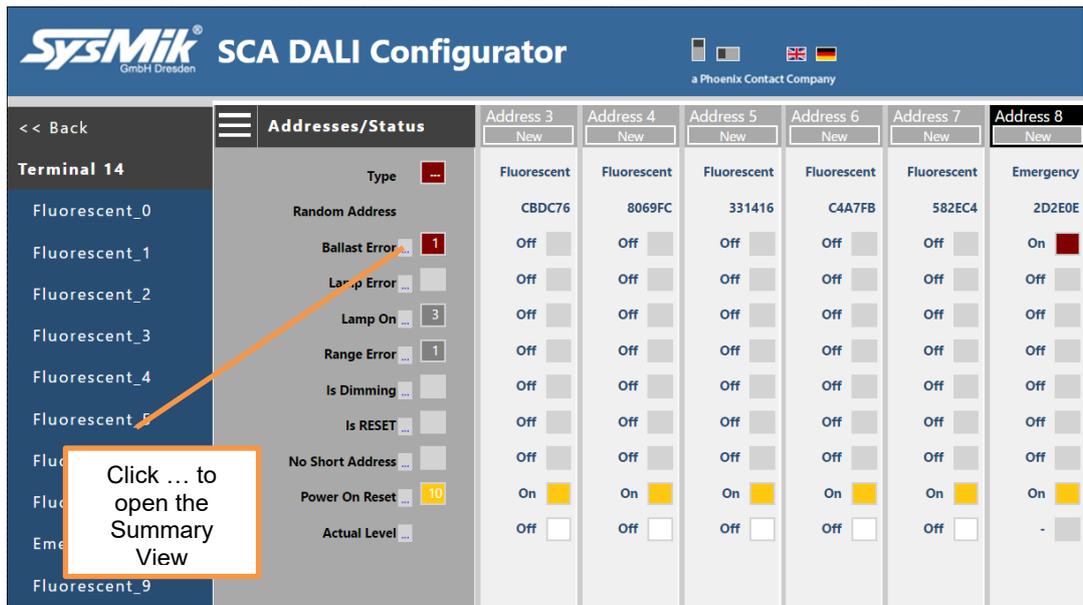


Fig. 2.4.7.1: Open the Summary View dialog for Addresses/Status

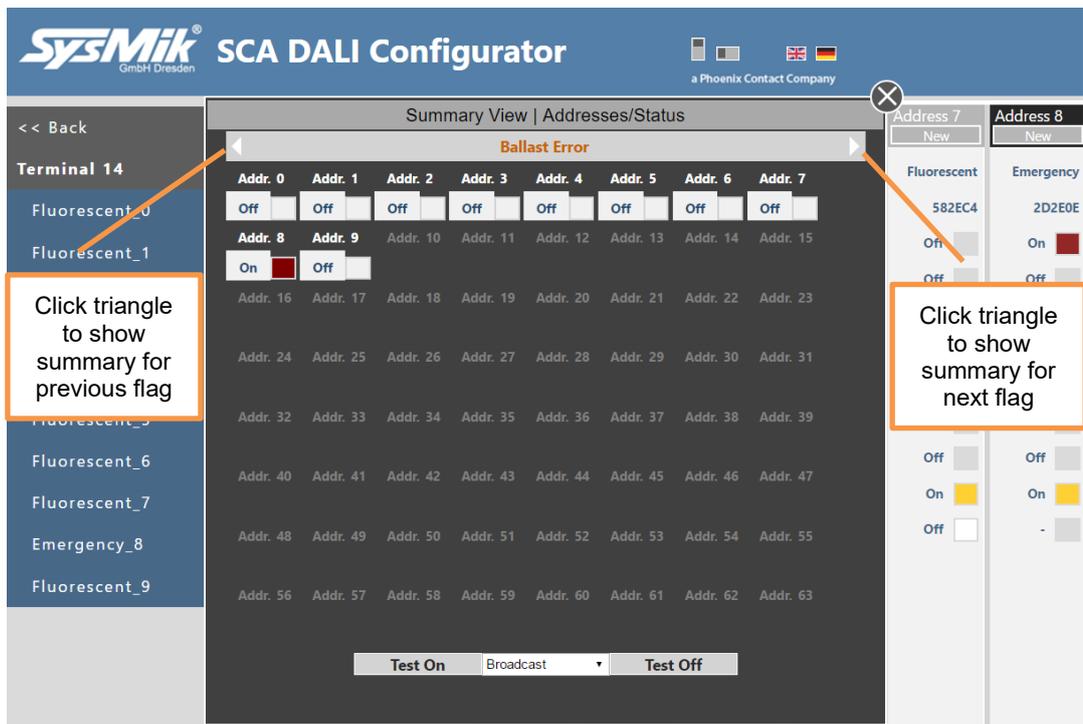


Fig. 2.4.7.2: Summary View dialog for Addresses/Status and flag "Lamp On"

Close the dialog by clicking on the "<-" symbol on the right upper corner of the dialog.

## 2.5 Device groups view

In this view are shown all found devices with their groups information. Selecting a device in the values view updates the slider area with this values. Use the slider or click the rectangle right from the slider to toggle the group setting.

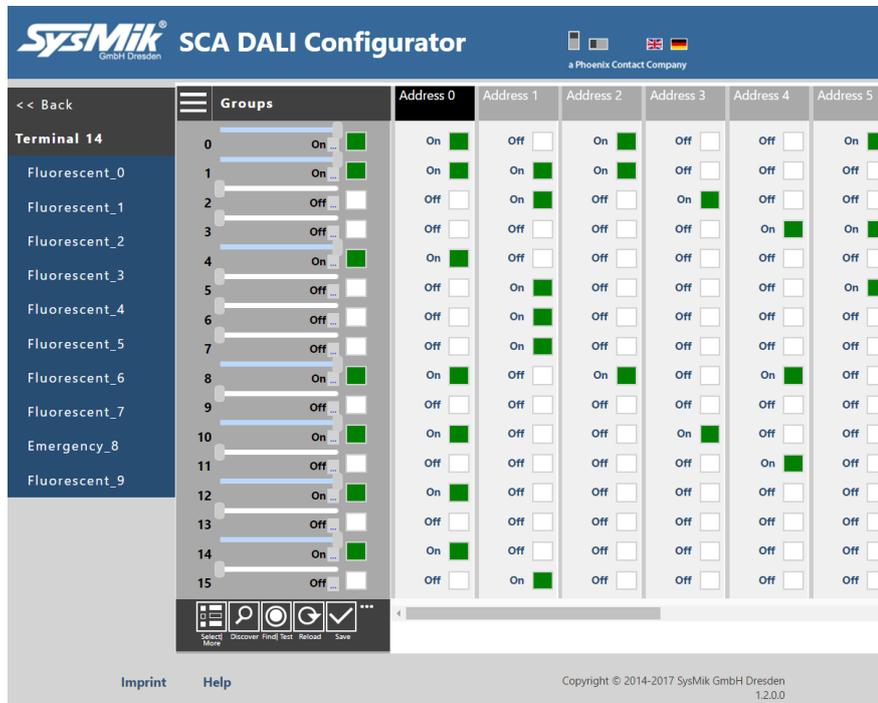


Fig. 2.5.1: Groups view

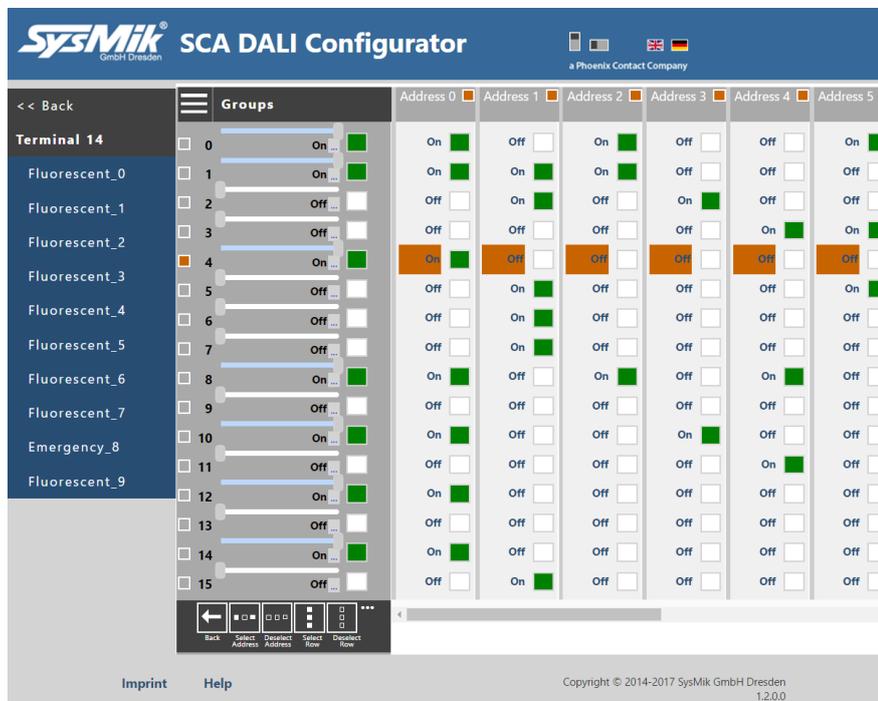


Fig. 2.5.2: Groups view selection mode

## 2.5.1 Test dialog

The main purpose of test dialog in groups view is to check the groups by sending indirect control commands to the groups.

Clicking a triangle opens the option list of each step. Clicking once again closes the option list again. Clicking a other option while the list is open, the list will be updated with the new option values.

After pressing "Start" the engine sends for the selected group # the first command, waits like configured, sends the second command, waits like configured, repeats this like configured N times. If "Next Group automatic" is set the next group is selected and the engine starts again.

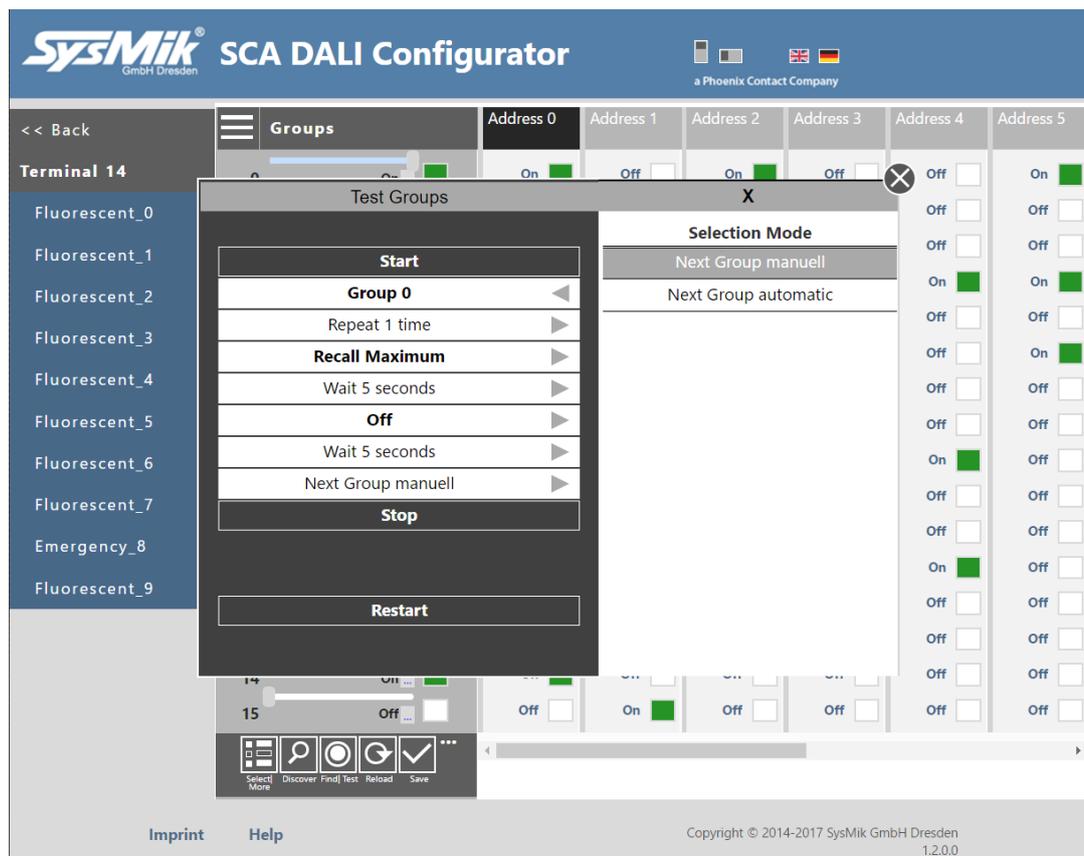


Fig. 2.5.1.1: Groups view test dialog

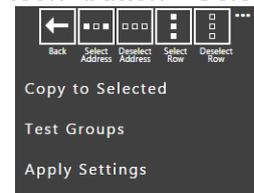
The available commands are indirect control functions "Recall Maximum, Recall Minimum, Off". This means no fade time or rate is used here.

## 2.5.2 Apply Groups

To apply the groups finally use the icon button "Save" or the popup menu function "Apply Settings" in selection mode.

### 2.5.3 Assign Groups by using Select Address

In the selection mode popup menu there is an icon button "Select Address"



available. You can use this to build groups too.

To build groups in this view means to select/deselect all devices at once for the selected group.

**1. Select the needed group**

**2. Open the Select Address dialog**

**3. Select all devices needed in this group**

**4. Use these three buttons for invers, none, all selection**

To build a new group this must be set to New. But you can set to On or Off for the selected addresses, too. The difference to New is, that the values are only overridden for the selected addresses. New sets all selected addresses to On and all others to Off.

Fig. 2.5.3.1: Building groups via Address Selection dialog

If the "Next" option is set to On after a click of "Set Values" the next group will be selected automatically and the dialog opens again to manage this group.

Note: The number right from "Value" shows the used group number.

## 2.5.4 Summary View of Groups

The summary view is a glance view of a group setting regarding all up to 64 devices. You can open the dialog by clicking on "..." right from the group value.

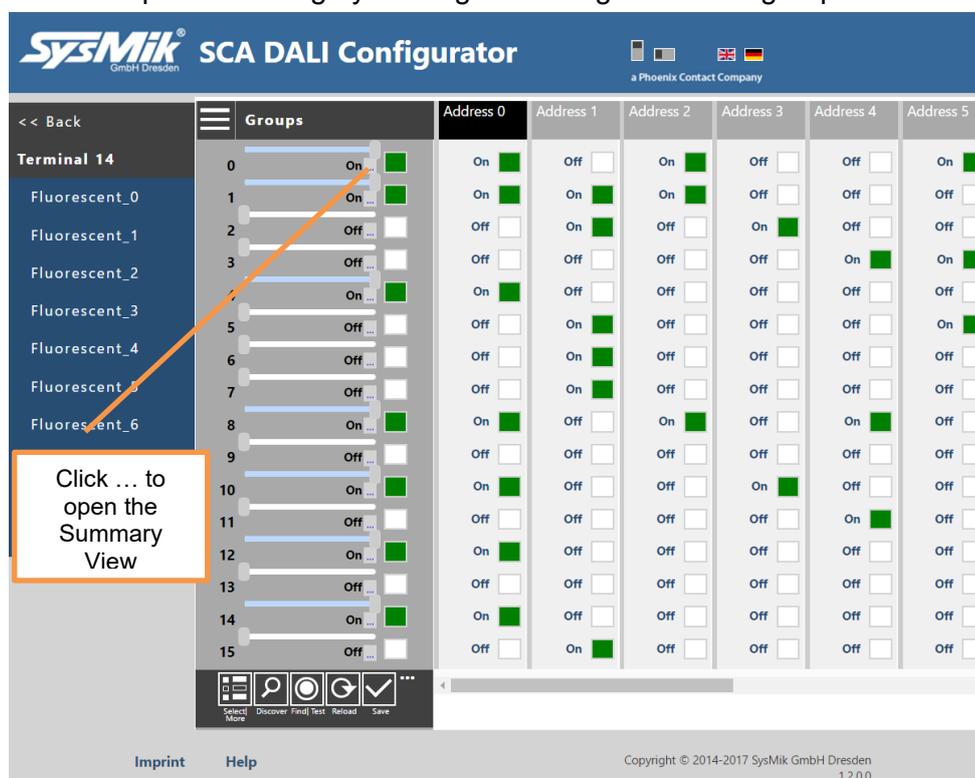


Fig. 2.5.4.1: Open the Summary View dialog for Groups

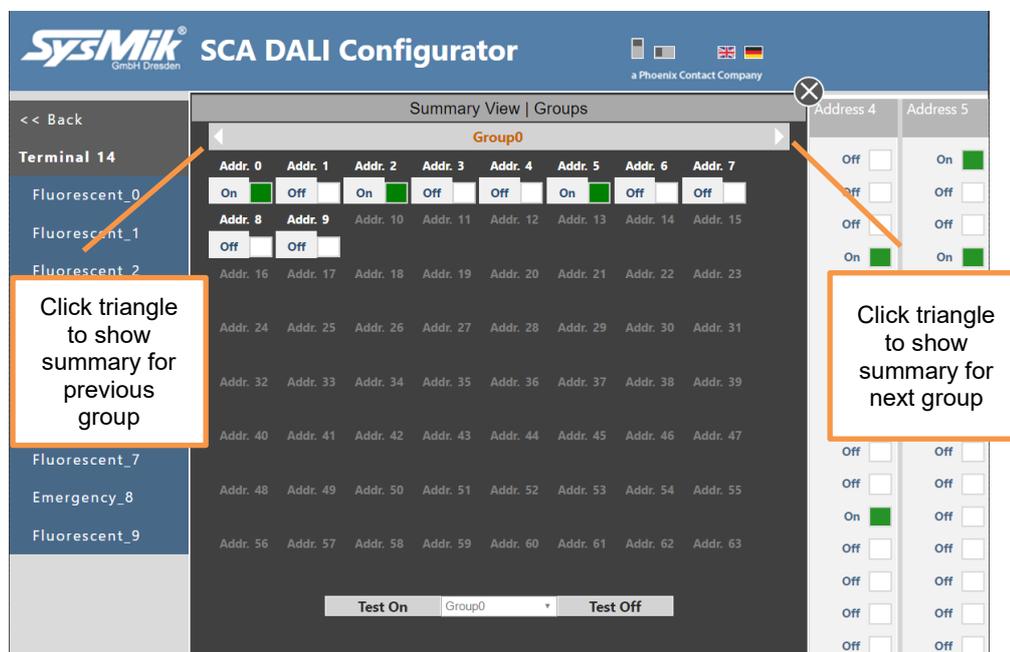


Fig. 2.5.4.2: Summary View dialog for Groups and Group0

Close the dialog by clicking on "<" symbol on the right upper corner of the dialog.

## 2.6 Device scenes view

In this view all found devices are shown with their scenes information. Selecting a device in the values view updates the slider area with this values. Use the slider or click the rectangle right from the slider to change the scene setting.

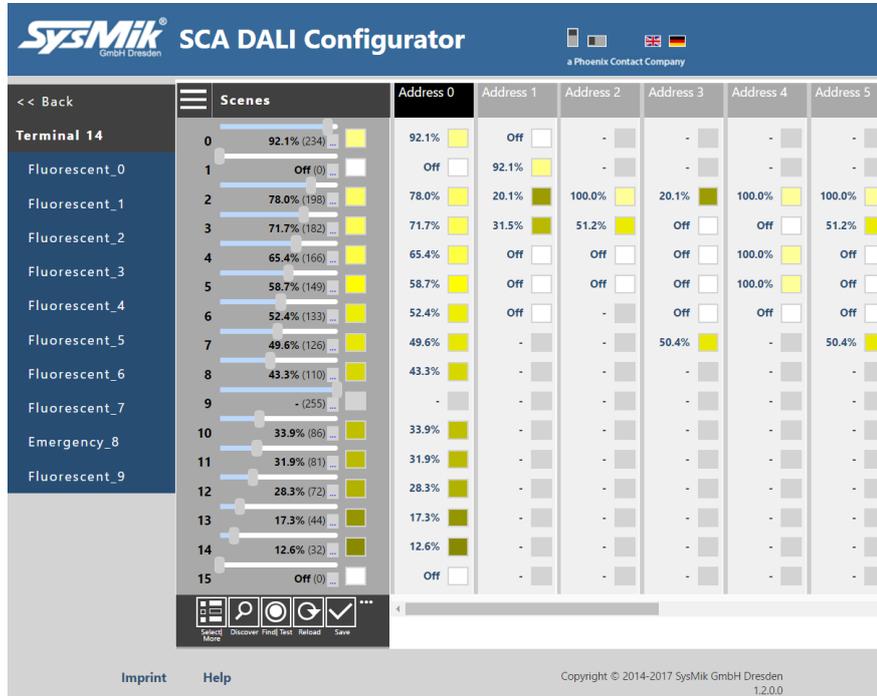


Fig. 2.6.1: Scenes view

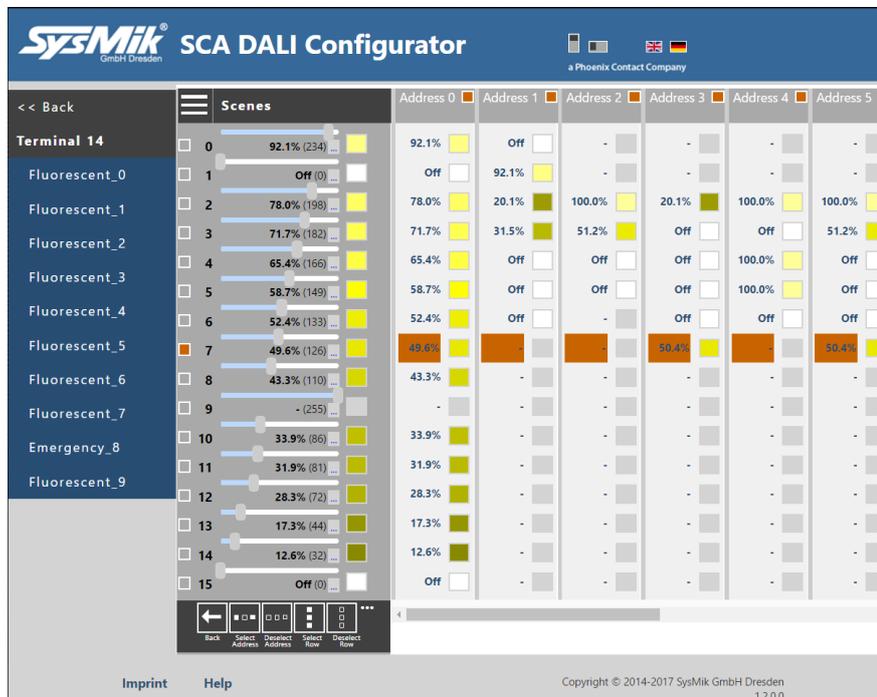


Fig. 2.6.2: Scenes view selection mode

## 2.6.1 Test dialog

The main purpose of test dialog in scenes view is to check the scenes by sending Go To Scene broadcast commands.

Clicking a triangle opens the option list of this step. Clicking once again closes the option list again. Clicking a other option while the list is open, the list will be updated with the new option values.

After pressing "Start" the engine sends the selected scene # as first command, waits like configured, sends the second command, waits like configured, repeats this like configured N times. If "Next Scene automatic" is set the next scene is selected and the engine starts again.

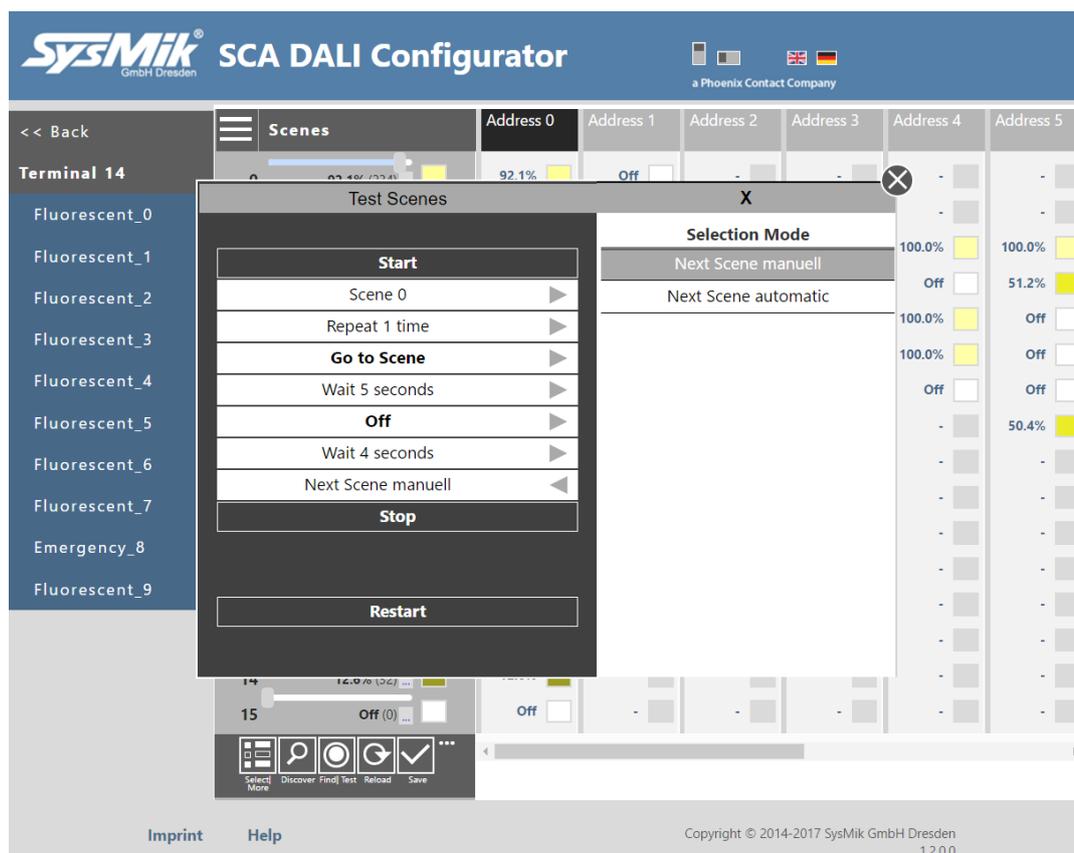


Fig. 2.6.1.1: Scenes view test dialog

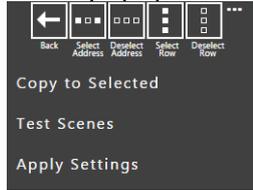
The available commands for command two are "Direct Off, Off, Skip". If "Skip" is set the change between scenes can be tested.

## 2.6.2 Apply Scenes

To apply the scenes finally use the icon button "Save" or the popup menu function "Apply Settings" in selection mode.

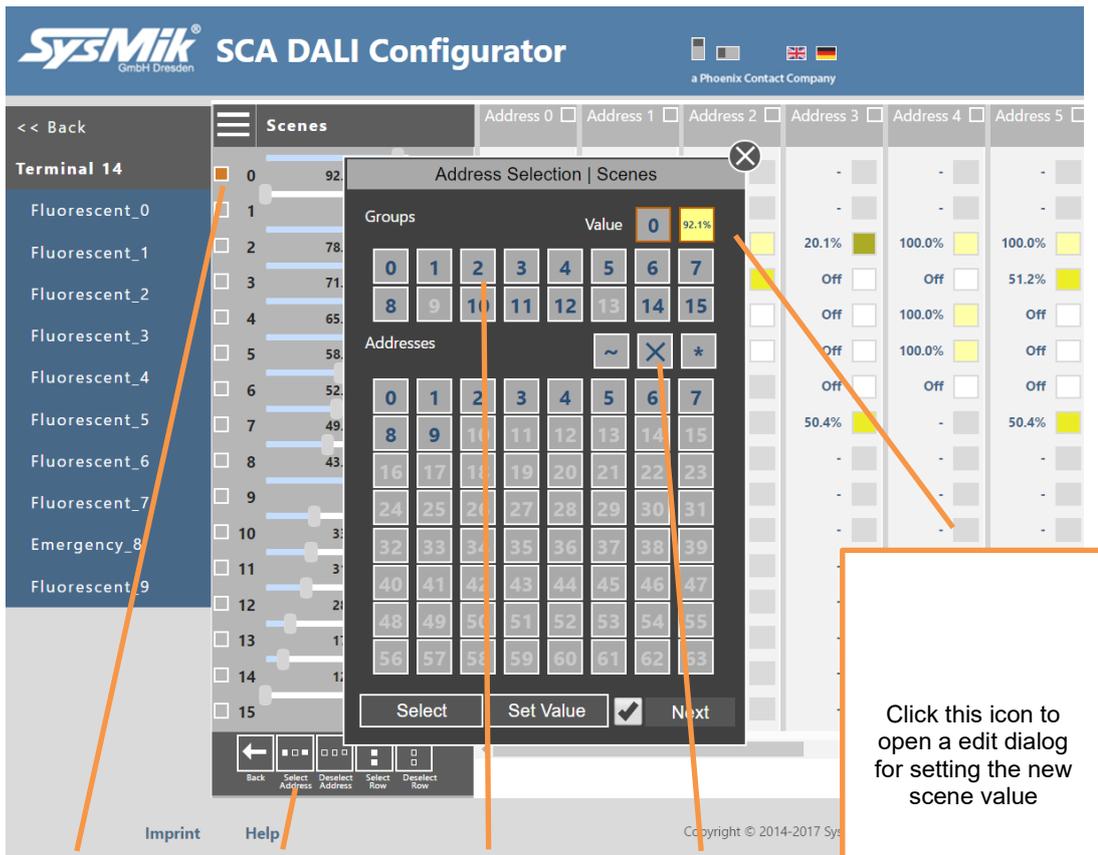
### 2.6.3 Assign Scenes for groups/devices by using Select Address

In the selection mode popup menu there is an icon button "Select Address"



available.

You can use this to set scenes by groups. Setting scenes in this view means to select/deselect all devices or based on groups at once for the selected scene. The value will be set to all selected devices later on.



- 1. Select the needed scene
- 2. Open the Select Address dialog
- Select devices or click a group for the value
- Use this three buttons for invers, none, all selection

Fig. 2.6.3.1: Set scenes via Address Selection dialog

If the "Next" option is set to On after a click of "Set Values" the next scene will be selected automatically and the dialog opens again to manage this scene.

Note: The number right from "Value" shows the used scene number.

### 2.6.4 Summary View of Scenes

The summary view is a glance view of a scene setting regarding all up to 64 devices. You can open the dialog by clicking on "... " right from the scene value.

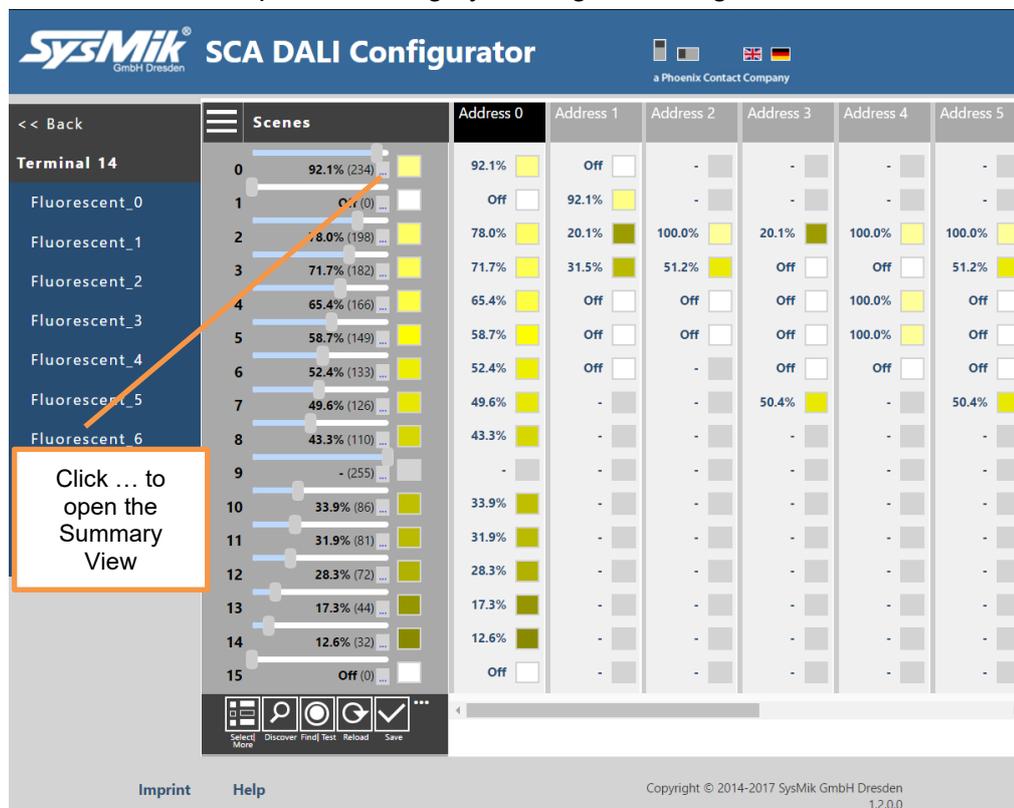


Fig. 2.6.4.1: Open the Summary View dialog for Scenes

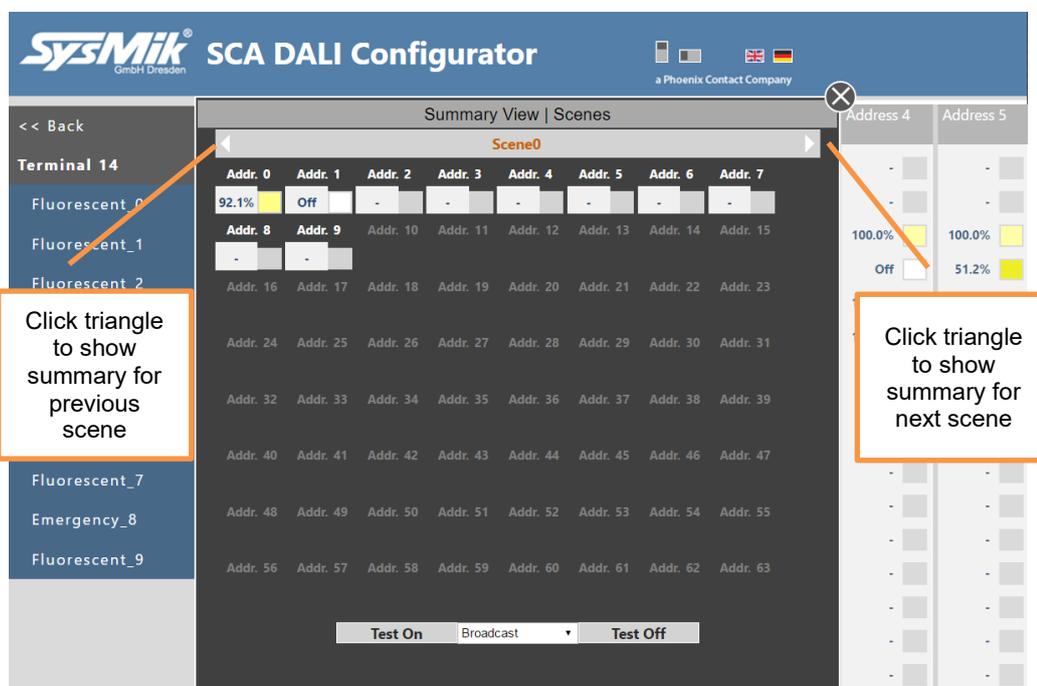


Fig. 2.6.4.2: Summary View dialog for Scenes and Scene0

Close the dialog by clicking on "<" symbol on the right upper corner of the dialog.

## 2.7 Device properties view

In this view all found devices are shown with their properties information. Selecting a device in the values view updates the slider area with this values. Use the slider or click the rectangle right from the slider to change the property setting.

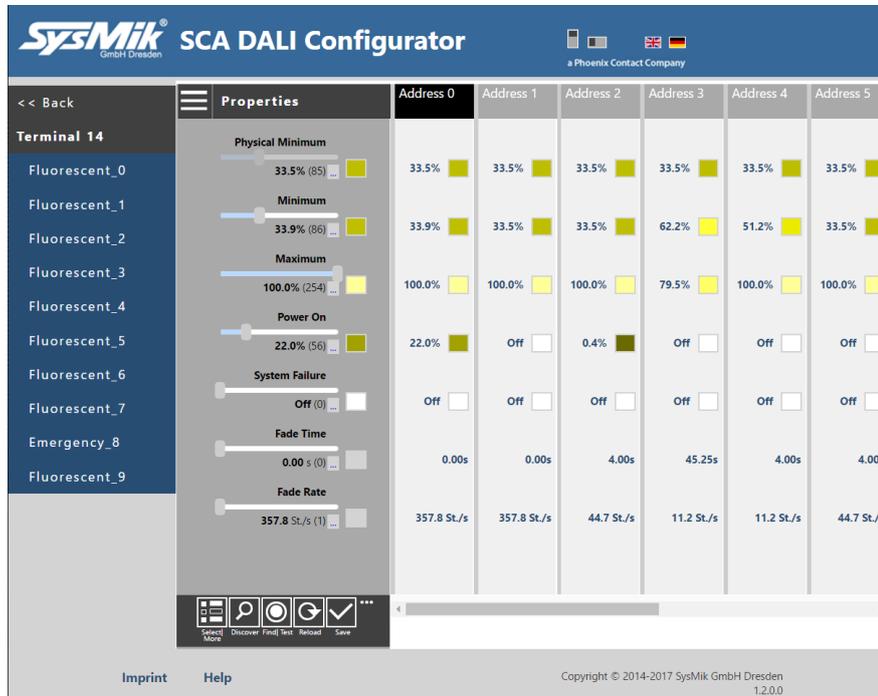


Fig. 2.7.1: Properties view

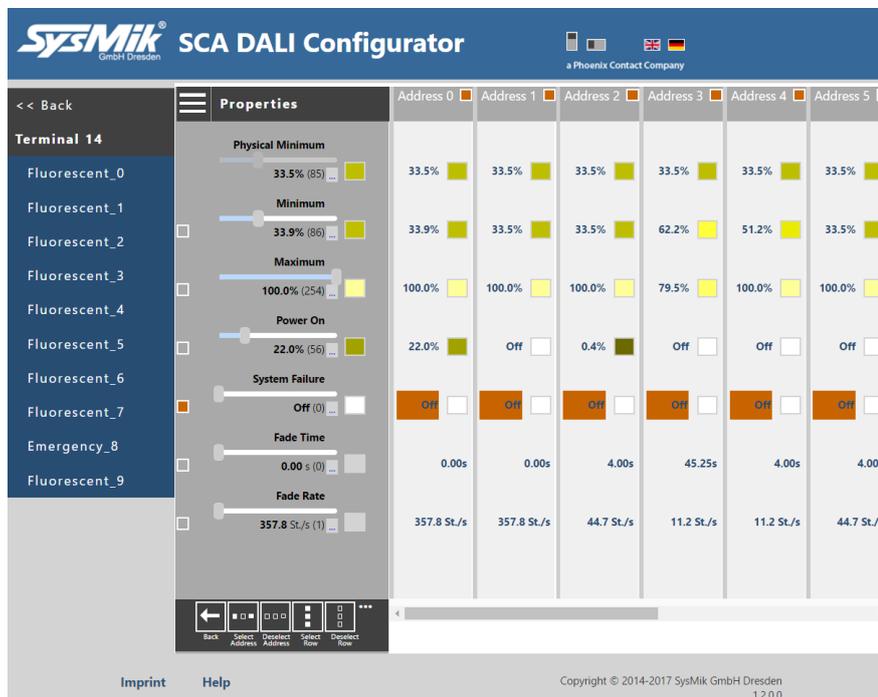


Fig. 2.7.2: Properties view selection mode

### 2.7.1 Test dialog

The main purpose of test dialog in properties view is to check the fade time and fade rate by sending direct control commands to the selected addresses, groups or via broadcast.

Clicking a triangle opens the option list of this step. Clicking once again closes the option list again. Clicking a other option while the list is open, the list will be updated with the new option values.

After pressing "Start" the engine sends to the selected address#, group# or via broadcast the first command, waits like configured, sends the second command, waits like configured, repeats this like configured N times. If "Next Address automatic" is set the next address is selected and the engine starts again.

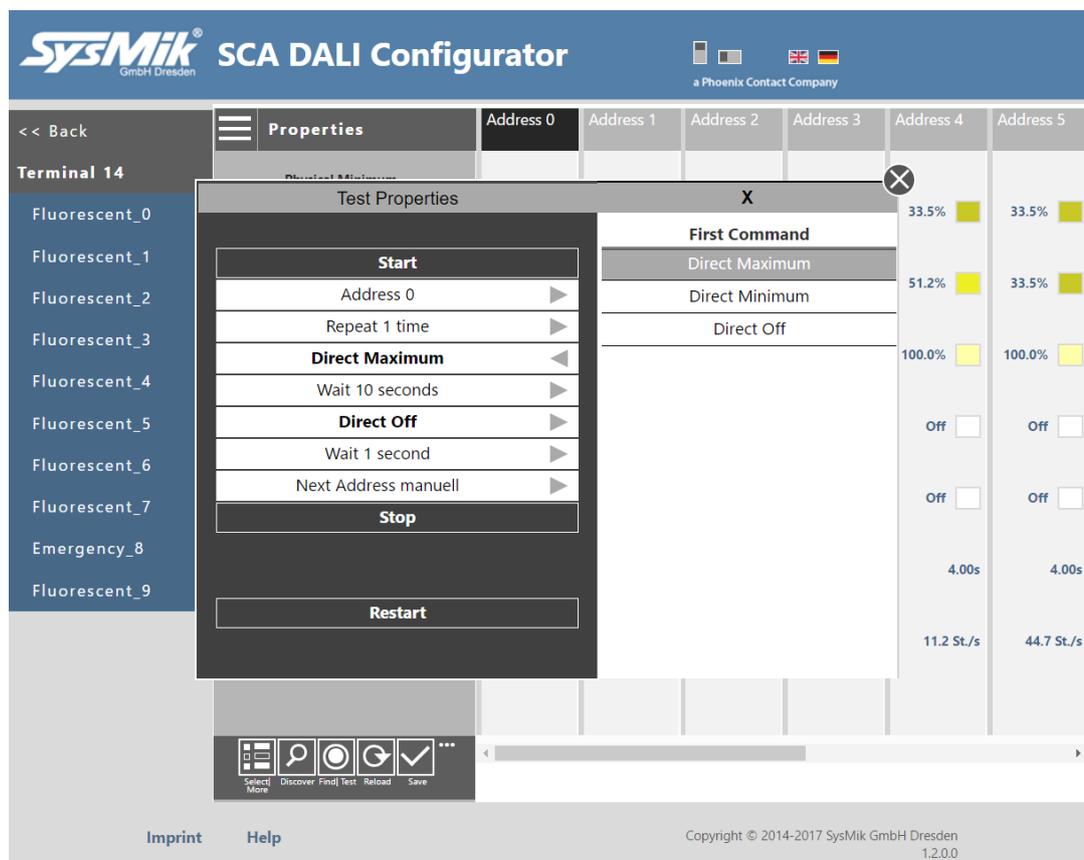


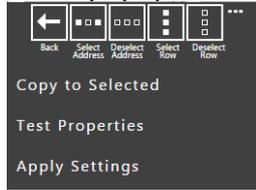
Fig. 2.7.1.1: Properties view test dialog

### 2.7.2 Apply Properties

To change the properties finally use the icon button "Save" or the popup menu function "Apply Settings" in selection mode.

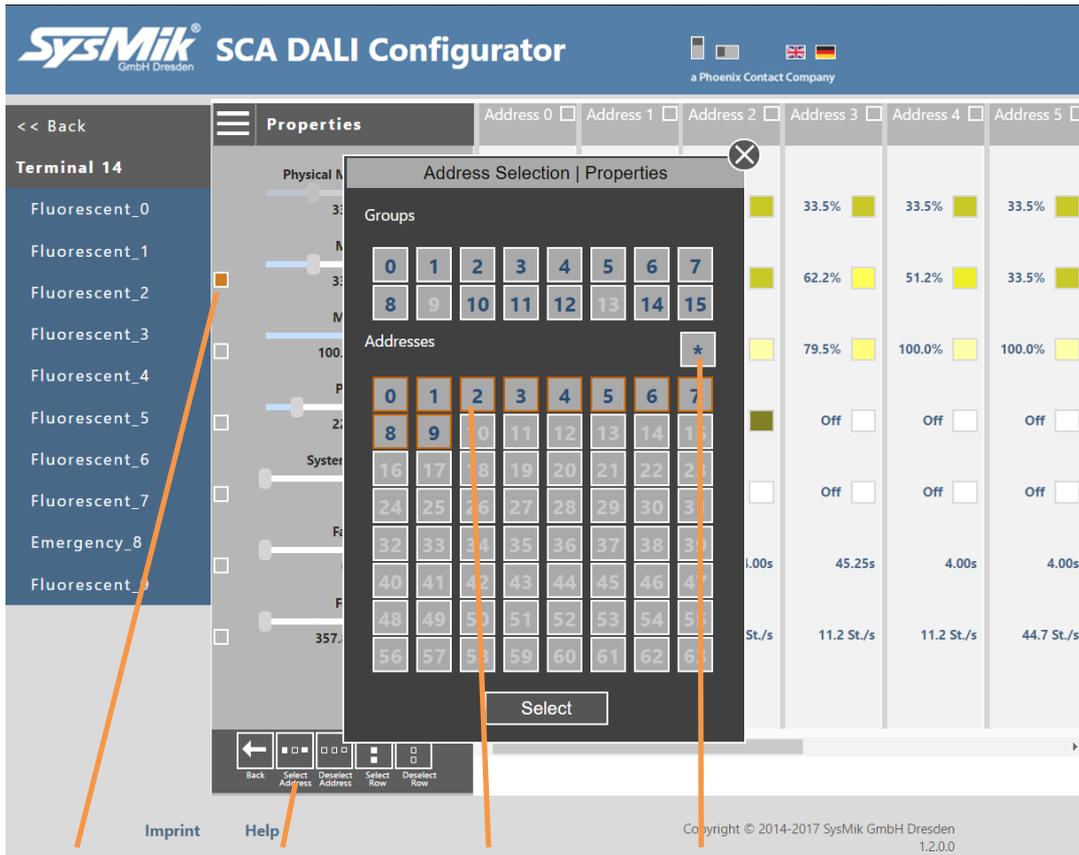
### 2.7.3 Using Select Address for Properties

In the selection mode popup menu there is an icon button "Select Address"



available.

You can use this to select devices for using them later on in property settings view.



- 1. Select the needed property
- 2. Open the Select Address dialog
- Select devices or click a group for use
- Use this button for all selection

Fig. 2.7.3.1: Select devices

Changing a property value will be applied to all selected devices now.

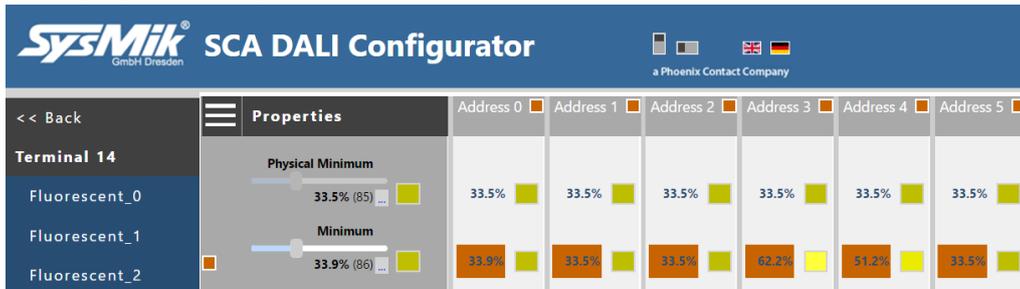


Fig. 2.7.3.1: Change property for selected devices



## 2.8 Error information

If errors have been detected an error report is shown at the end of the communication.

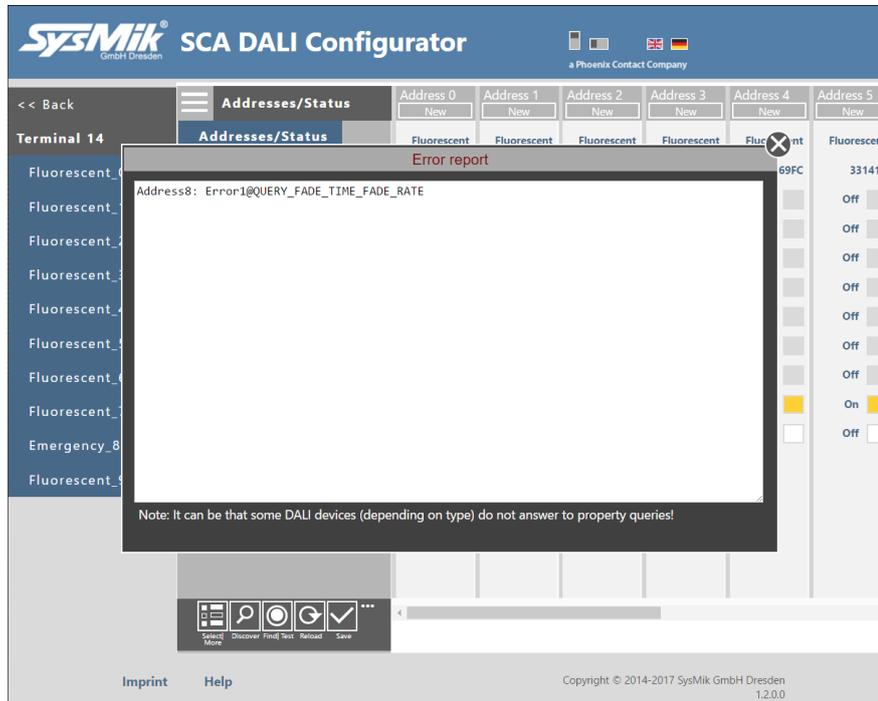


Fig. 2.8.1: Error report after a property query

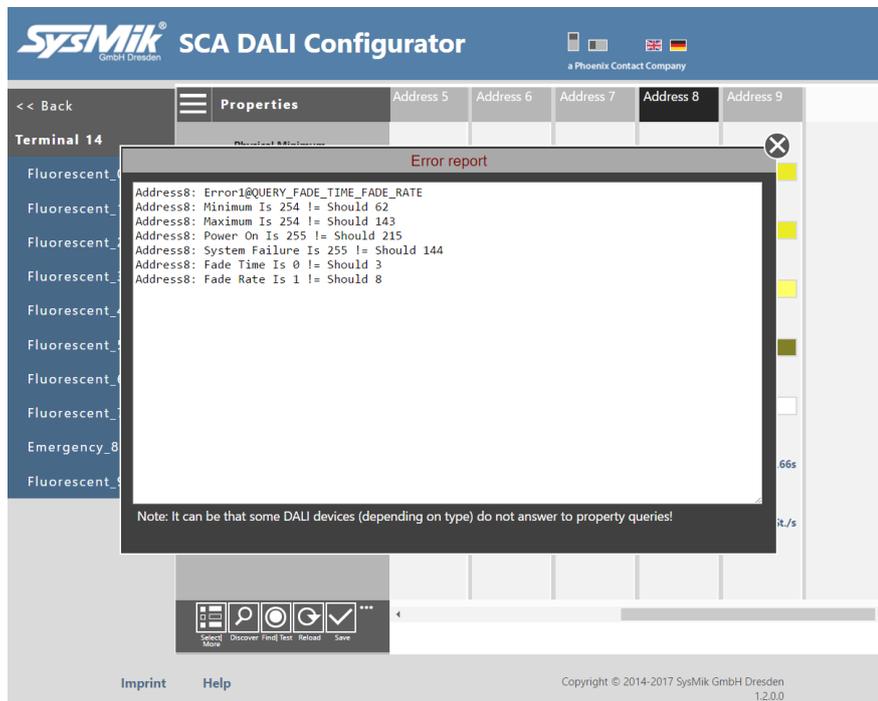


Fig. 2.8.2: Error report after properties update

## 2.9 Export a Project

Important: Before you start an export make sure that all values from the separate DALI networks are loaded and are written to the local browser storage! Use "Write Storage" function to do this.

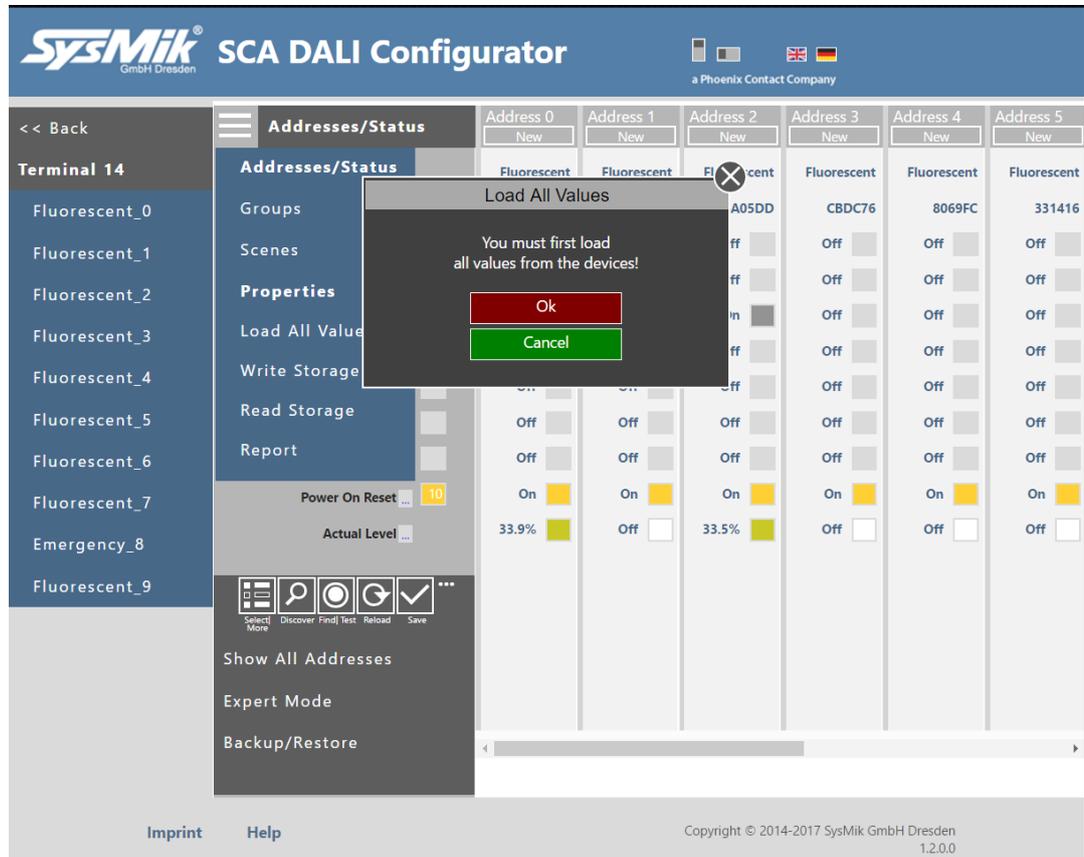


Fig. 2.9.1: Write storage with loading values

If not all values (groups, scenes, properties) are loaded from DALI, a confirmation box appears. After confirming, all missed values are loaded and the values are written into the local browser storage. The local storage is usually not deleted when closing the browser. Only if the user has cleared cookies and other website data, or has configured the browser accordingly, the values are lost (see chapter 4). Now you can go back to the terminals page, load further networks and finally use "Export" to save the local storage values into a CSV file.



A1		T5											
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	T5	A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11
2	name	Ballast0	Ballast1	Ballast2	Ballast3	Ballast4	Ballast5	Ballast6	Ballast7	Ballast8	Ballast9	Ballast10	Ballast11
3	raddr	705327	2960910	12191197	13360246	8415740	3347478	12888059	5779140	6915246	9432522	-1	-1
4	type	0	1	0	0	0	0	0	0	0	0	0	0
5	pmin	85	254	85	85	85	85	85	85	126	85	1	1
6	min	130	254	85	158	130	85	85	85	126	85	1	1
7	max	254	254	254	202	254	254	254	254	180	187	254	254
8	pwr	0	255	0	112	0	0	0	0	1	1	1	1
9	err	255	255	255	147	255	255	254	254	126	255	255	255
10	dtime	6	0	6	12	6	6	13	1	7	0	0	0
11	drate	8	1	7	11	10	7	1	14	14	1	1	1
12	G0	1	0	1	0	0	0	0	0	0	0	0	0
13	G1	0	0	1	0	0	0	0	0	1	1	0	0
14	G2	0	0	0	1	0	0	0	0	0	1	0	0
15	G3	0	0	0	0	1	1	0	0	0	0	0	0
16	G4	0	0	0	0	0	0	1	1	0	0	0	0
17	G5	1	0	0	0	0	1	0	0	1	0	0	0
18	G6	0	0	0	0	0	0	0	0	0	1	0	0
19	G7	0	0	0	0	0	0	0	0	0	1	0	0
20	G8	1	0	1	0	1	0	1	0	0	1	0	0
21	G9	1	0	0	0	0	0	0	0	0	0	0	0
22	G10	0	0	0	1	0	0	0	0	0	0	0	0
23	G11	1	1	0	0	1	0	0	0	0	0	0	0
24	G12	0	0	0	0	0	0	0	0	0	0	0	0
25	G13	0	0	0	0	0	0	0	0	0	0	0	0
26	G14	0	0	0	0	0	0	0	0	0	0	0	0
27	G15	0	0	0	0	0	0	0	0	0	0	0	0
28	S0	0	255	42	51	76	76	102	102	51	234	255	255
29	S1	0	255	25	0	0	0	255	254	0	224	255	255
30	S2	254	255	254	51	254	254	254	255	51	198	255	255
31	S3	0	255	130	0	0	130	255	254	80	182	255	255
32	S4	254	255	0	0	254	0	254	255	0	166	255	255
33	S5	254	255	0	0	254	0	255	254	0	149	255	255
34	S6	0	255	255	0	0	0	254	255	0	133	255	255
35	S7	128	255	255	128	255	128	254	254	255	126	255	255
36	S8	255	255	255	255	255	255	194	194	255	110	255	255
37	S9	255	255	255	255	255	255	255	255	255	95	255	255
38	S10	255	255	255	255	255	255	255	255	255	86	255	255
39	S11	255	255	255	255	255	255	255	255	255	81	255	255
40	S12	255	255	255	255	255	255	255	255	255	72	255	255
41	S13	255	255	255	255	255	255	255	255	255	44	255	255
42	S14	255	255	255	255	255	255	255	255	255	32	255	255
43	S15	255	255	255	255	255	255	255	255	255	0	255	255

Fig. 2.10.1: Edit a project template with Excel

The rows  $t_h = (1 + n * 43)$  are the header line of an entire terminal block. The cells  $At_h..At_{h+42}$  contains the property names of the values that are used in this row. The  $Bt_h..Bm_t_h$  area contains the available short address columns. To mark an address as used use a value  $\langle \rangle -1$  for "raddr". At best you set the random address (raddr) to the short address value, if this short address is used.

The rows "type" and "pmin" are ignored while importing the values form the file. All other rows can be changed by valid DALI values.

Valid values are:

min	1 .. 254, minimum level (but depends on the (pmin) physical minimum)
max	1 .. 254, maximum level
pwr	0 .. 254, power on level (some DALI devices accept only 255, e.g. .emergency devices)
err	0 .. 255, system failure level (255 means no change)
dtime	0 .. 15, dimming time
drate	1 .. 15, dimming rate
G0..G15	0 or 1, groups set to On (1) or Off (0)
S0..S15	0 .. 255, scene values (255 means not used)

The  $A_t_n$  cell must contain the terminal number used in the Scalibur station and the value can be "T1" .. "T63". Here you can also add a description text by adding a colon (:) followed by a short text. To disable a terminal use "T0".

## 2.11 Import a Project

You can import a project again by using the "Import" function.

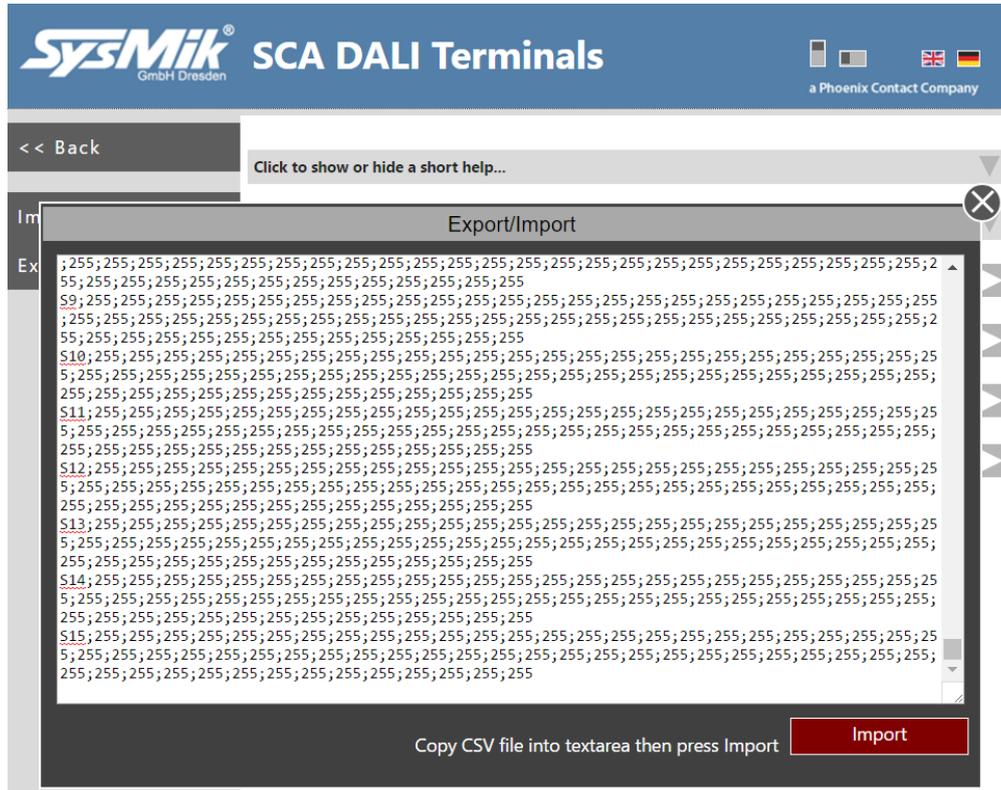


Fig. 2.11.1: Import a project template from CSV file

All - depending on the backup file - imported terminals are shown after the import.

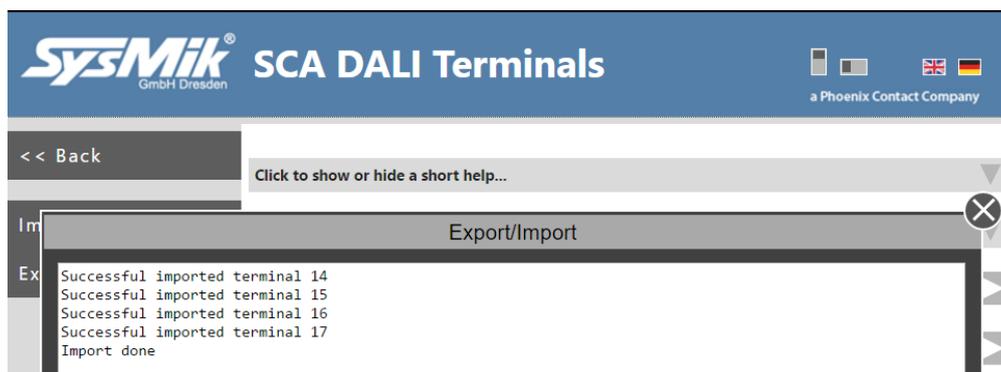


Fig. 2.11.2: Import a project template from CSV file result

To configure DALI devices with the imported settings, the local browser storage has to be copied to the session cache first, via "Read Storage". Then, the settings can be applied separately for groups, scenes, and properties using the "Save" button.

It's possible to make a generic template file for projects and then change the T# entries accordingly to the project needs.

*Hint: Use T0 to disable a template block and change the other T# cells as needed.*

## 2.12 Report

Use the report function to generate a printable project report of the currently open DALI network. If not all values (groups, scenes, properties) are loaded from DALI a confirmation box appears.

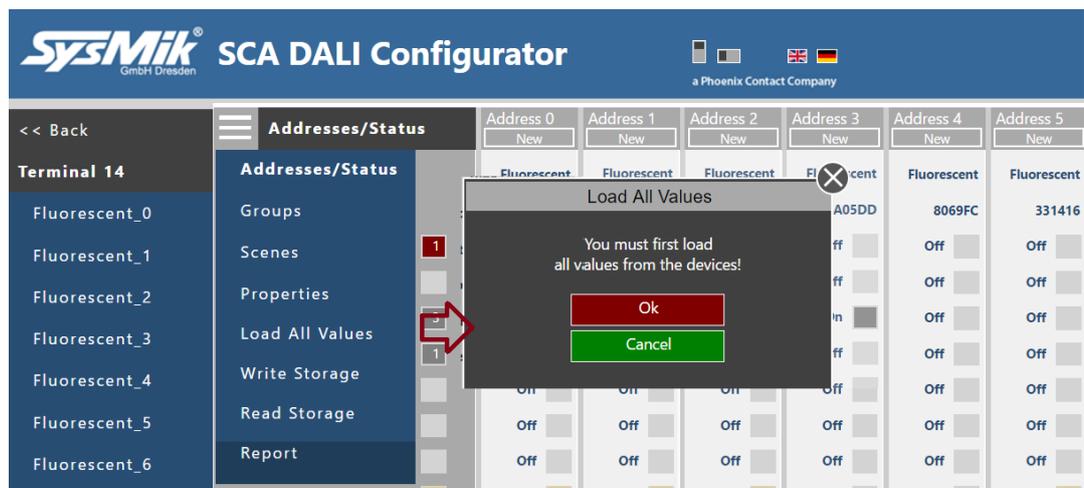


Fig. 2.12.1: Generate a project report from network

After pressing "Yes" all needed values are loaded now and the "Project Report Data" dialog is shown finally.

In this dialog you can edit some description texts for a better readability of the printed report.

The "Project name", "Network Terminal 5" and time information will become the header texts later.

Then use the "Show Report" button to open the report in a new browser window.

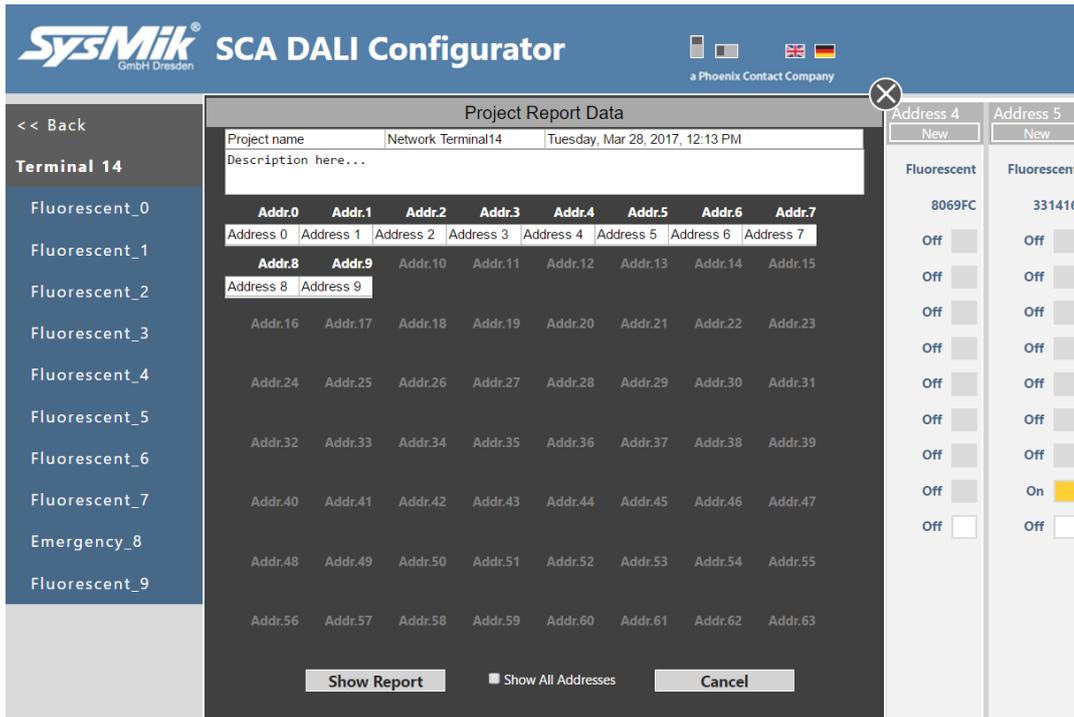


Fig. 2.12.2: Report description texts

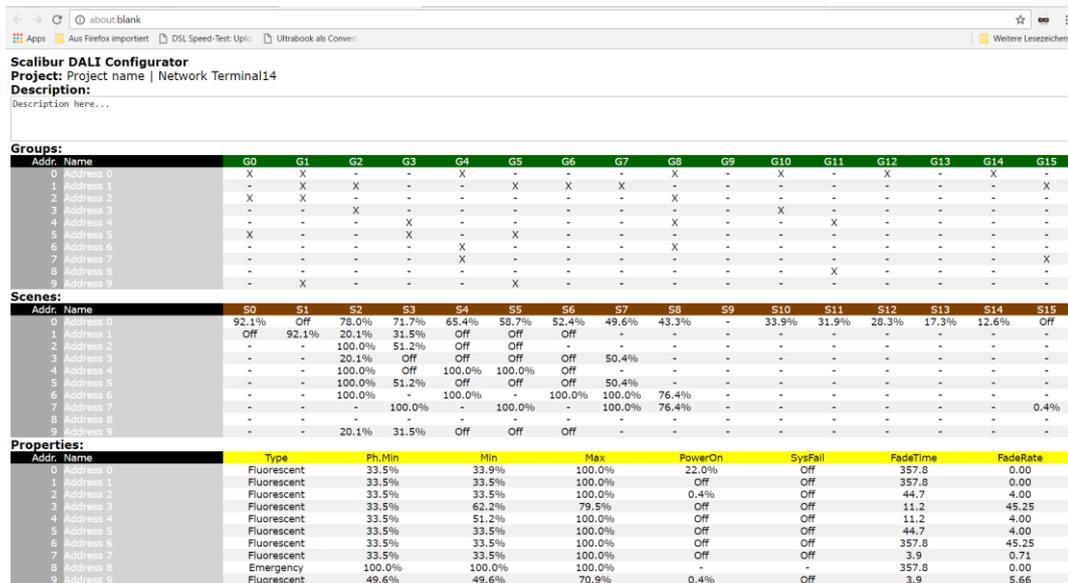


Fig. 2.12.3: Report shown in browser

Use the print function of your browser to print out the report finally.

28.3.2017 Project name | Network Terminal14 | Tuesday, Mar 28, 2017, 12:13 PM

**Scalibur DALI Configurator**  
**Project:** Project name | Network Terminal14  
**Description:**  
 Description here...

**Groups:**

Addr.	Name	G0	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15
0	Address 0	X	X	-	-	X	-	-	X	-	X	-	X	-	X	-	X
1	Address 1	-	X	X	-	-	X	X	X	-	-	-	-	-	-	-	X
2	Address 2	X	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-
3	Address 3	-	-	X	-	-	-	-	-	-	X	-	X	-	-	-	-
4	Address 4	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-
5	Address 5	X	-	-	X	-	X	-	-	-	-	-	-	-	-	-	-
6	Address 6	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-
7	Address 7	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	X
8	Address 8	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-
9	Address 9	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	-

**Scenes:**

Addr.	Name	S0	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15
0	Address 0	92.1%	Off	78.0%	71.7%	65.4%	58.7%	52.4%	49.6%	43.3%	-	33.9%	31.9%	28.3%	17.3%	12.6%	Off
1	Address 1	Off	92.1%	20.1%	31.5%	Off	Off	Off	-	-	-	-	-	-	-	-	-
2	Address 2	-	-	100.0%	51.2%	Off	Off	-	-	-	-	-	-	-	-	-	-
3	Address 3	-	-	20.1%	Off	Off	Off	Off	50.4%	-	-	-	-	-	-	-	-
4	Address 4	-	-	100.0%	Off	100.0%	100.0%	Off	-	-	-	-	-	-	-	-	-
5	Address 5	-	-	100.0%	51.2%	Off	Off	Off	50.4%	-	-	-	-	-	-	-	-
6	Address 6	-	-	100.0%	-	100.0%	-	100.0%	100.0%	76.4%	-	-	-	-	-	-	-
7	Address 7	-	-	100.0%	-	100.0%	-	100.0%	76.4%	-	-	-	-	-	-	-	0.4%
8	Address 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Address 9	-	-	20.1%	31.5%	Off	Off	Off	-	-	-	-	-	-	-	-	-

**Properties:**

Addr.	Name	Type	Ph.Min	Min	Max	PowerOn	SysFail	FadeTime	FadeRate
0	Address 0	Fluorescent	33.5%	33.9%	100.0%	22.0%	Off	357.8	0.00
1	Address 1	Fluorescent	33.5%	33.5%	100.0%	Off	Off	357.8	0.00
2	Address 2	Fluorescent	33.5%	33.5%	100.0%	0.4%	Off	44.7	4.00
3	Address 3	Fluorescent	33.5%	62.2%	79.5%	Off	Off	11.2	45.25
4	Address 4	Fluorescent	33.5%	51.2%	100.0%	Off	Off	11.2	4.00
5	Address 5	Fluorescent	33.5%	33.5%	100.0%	Off	Off	44.7	4.00
6	Address 6	Fluorescent	33.5%	33.5%	100.0%	Off	Off	357.8	45.25

Fig. 2.12.4: Print preview of the browser

## 2.13 Replace devices

This special function can be used to replace faulty devices by new ones. If there is a valid backup of the networks available you can immediately apply the old settings from this backup in one step.

The following descriptions show the most efficient way to do a replace.

### 2.13.1 Replace the Devices physically

Before you start with the replace function the faulty devices must be replaced by new devices with factory default settings. That means the devices must be unaddressed. This is important to avoid communication errors later.

### 2.13.2 Start Replace function

The replace function is started from the terminals page. Here you should import first an existing project backup by using the "Import" button (see chapter 2.11).

Use the "Replace" button for the needed terminal and press "Yes".

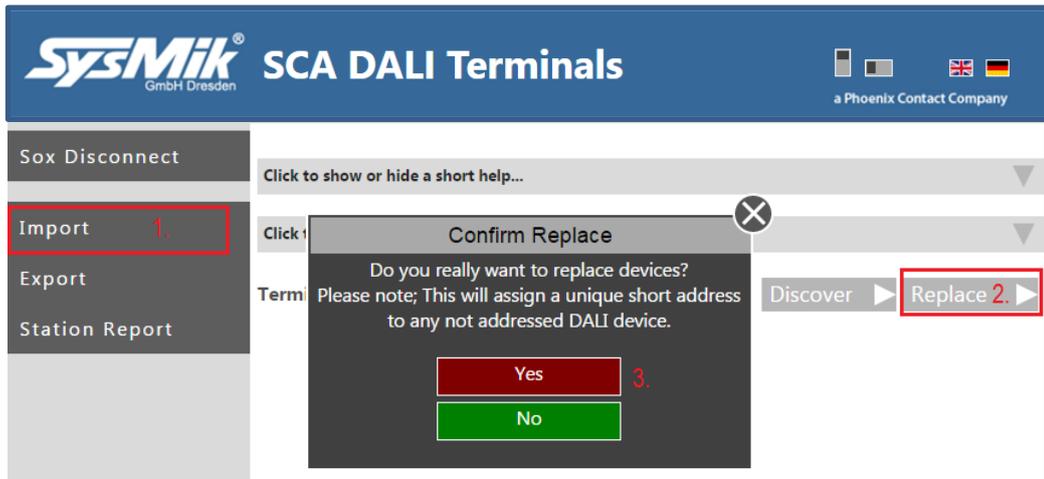


Fig. 2.13.2.1: Start "Replace" function

### 2.13.3 Check the Address Assignment

If search and discover communication has been finished all new devices should be shown in the user interface now. Although the replaced devices got a short address within the discover process the assignment must not fit. So you must check the address assignment first. The shortest way to do this is to go to the "Select|More" menu and to select each device step by step and to use the "On" of "Off" buttons for checking the lamp location. If the addresses are not correct change it via "New" button and "Assign New Address" dialog.

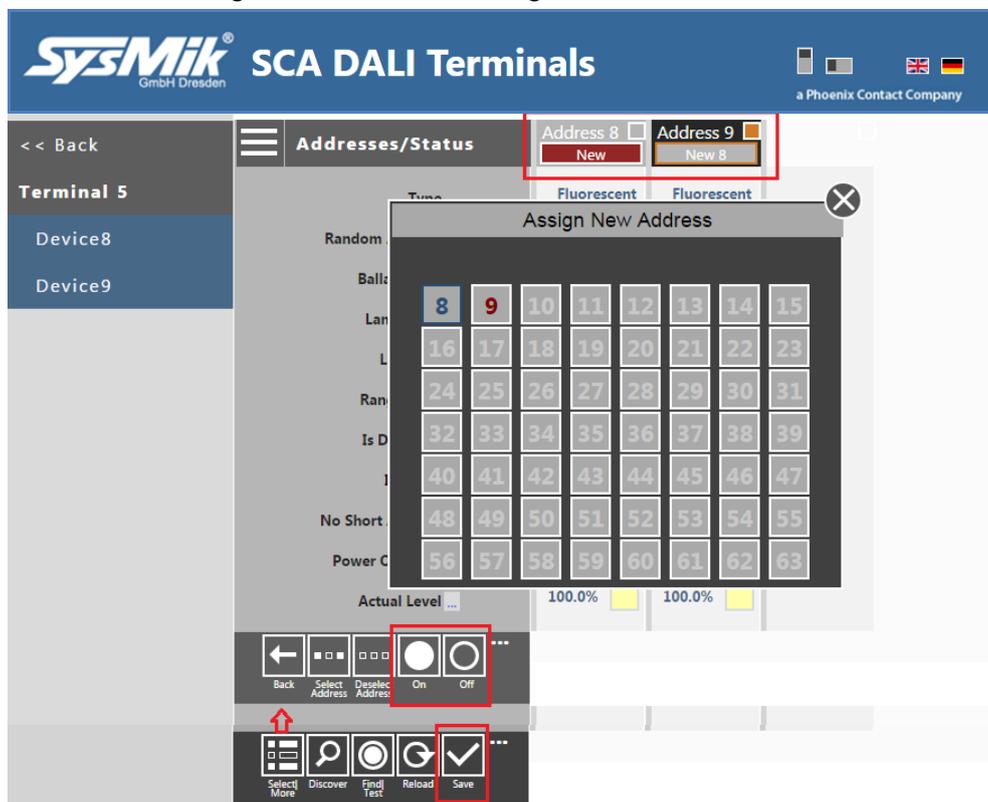


Fig. 2.13.3.1: Check and assign addresses

Finally use the "Save" button (or "Apply Settings" sub-menu function, click "...") to open the submenu) to change the addresses.

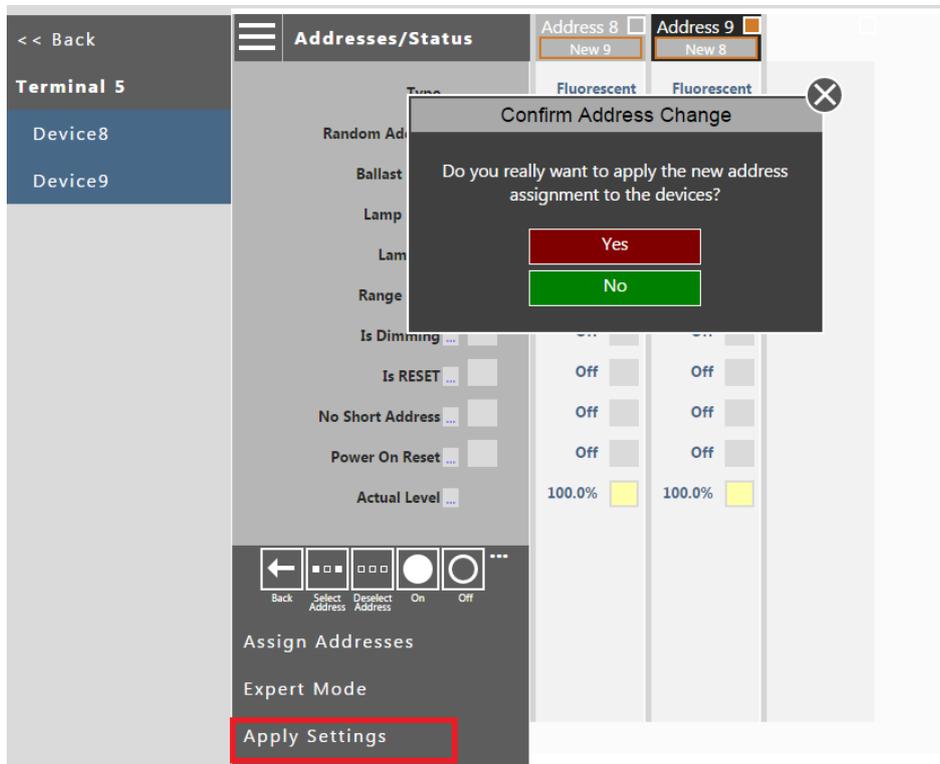


Fig. 2.13.3.2: Apply the settings

## 2.13.4 Apply the configuration from Storage

If you have imported a project backup use now the "Apply Storage" function to write the correct settings into the new devices.

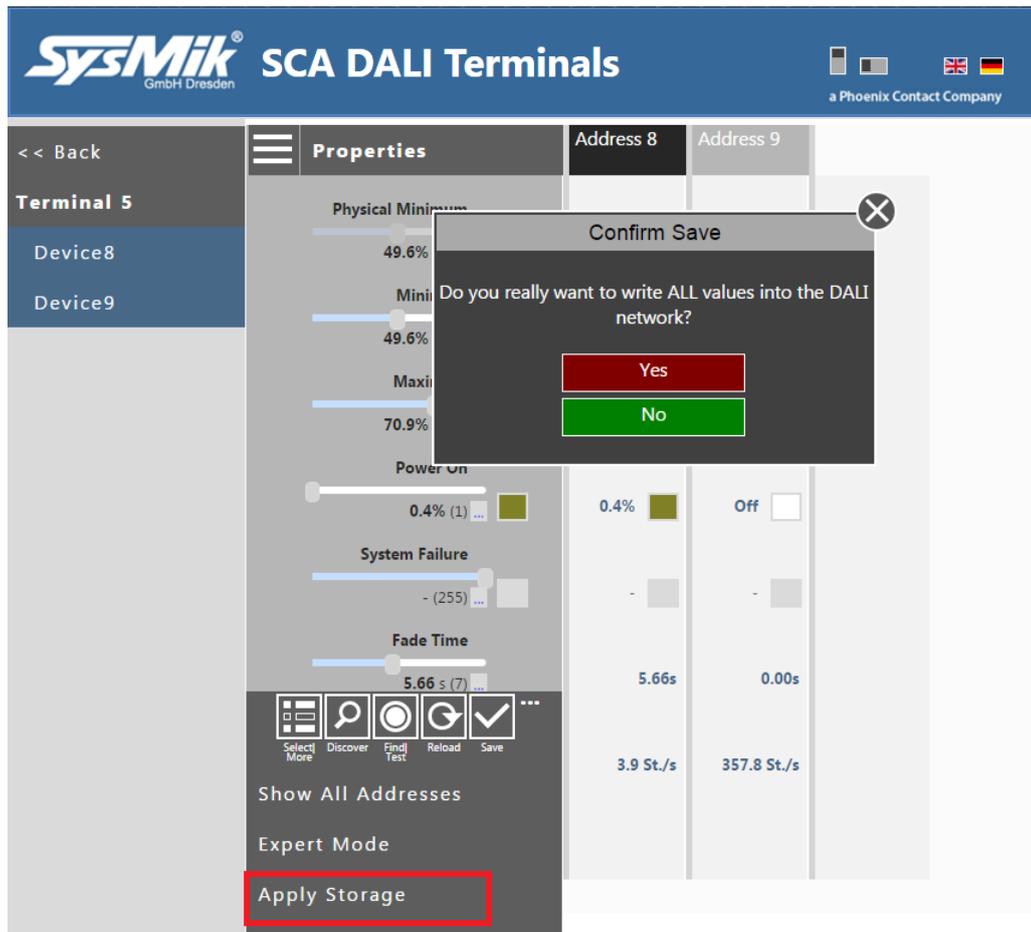


Fig. 2.13.4.1: Apply the settings from storage

When the communication has finished the devices should have now again the correct settings.

Finally check the values within the "Groups", "Scenes" and "Properties" views.

*Note:*

*If you don't have a backup you can change all needed settings as usual via the "Groups", "Scenes" and "Properties" views.*

### 3 Working Offline

There are two possibilities available to create a project in offline mode. Both ways don't need to have access to real DALI networks.

1. Use a SCA device and the "Offline DALI" website tools.
2. Use the PC template tool without any SCA device.

#### 3.1 SCA Webserver "Offline DALI" Tools

The "Offline DALI" tools are available from SCA webserver main view.



Fig. 3.1.1: SCA webserver main view

After clicking "Offline DALI" menu button the "Terminals" view opens in offline mode.

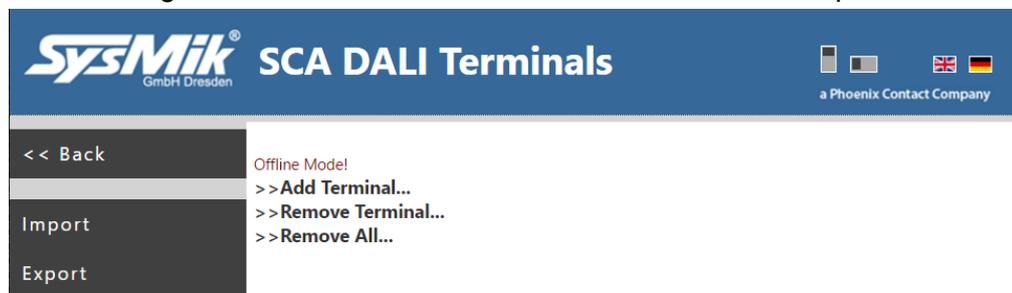


Fig. 3.1.2: Terminals view in offline mode

Use the "Add Terminal...", "Remove Terminal..." and/or "Remove All..." function links to edit the SCA station configurations.

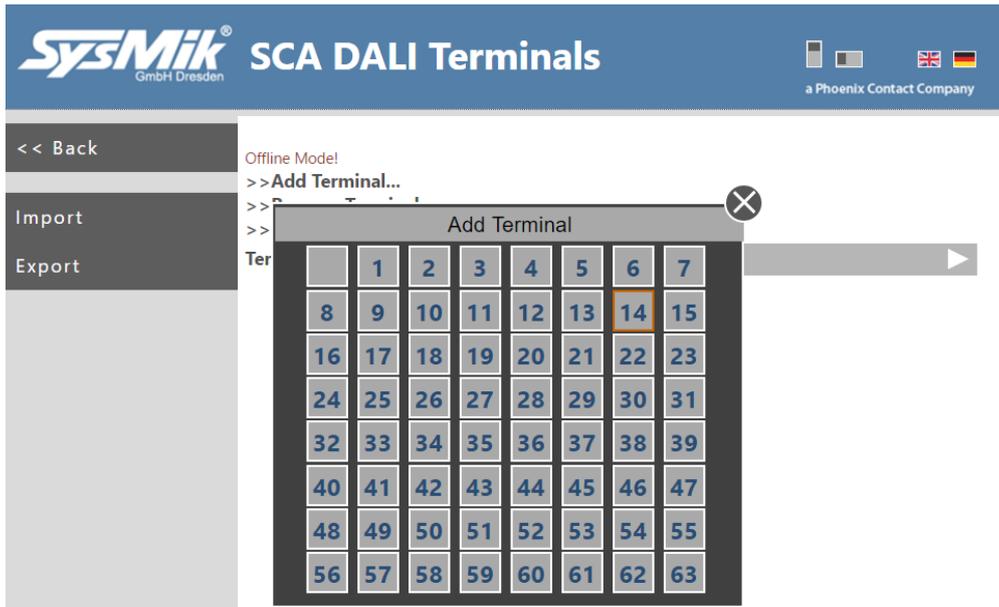


Fig. 3.1.3: Build your station by using "Add Terminal" or "Remove Terminal" dialog

You can also "Import" a backup and change it in offline mode.

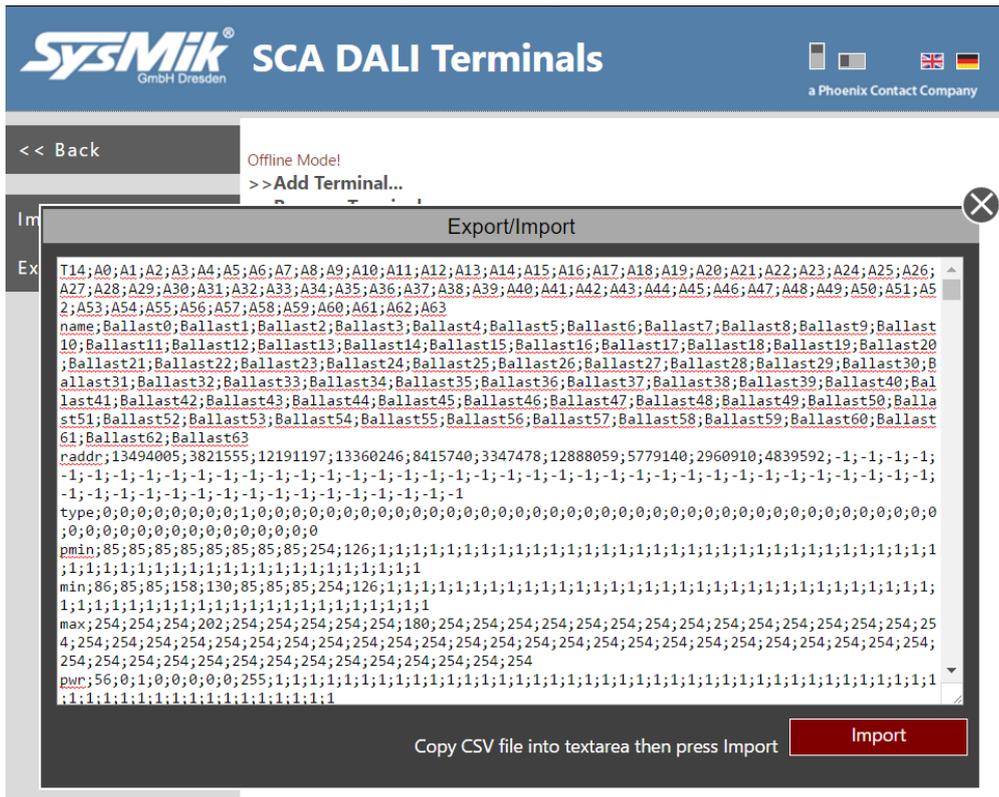


Fig. 3.1.4: Build your station via "Import" from a backup

After building a station the terminals view is shown as follows.

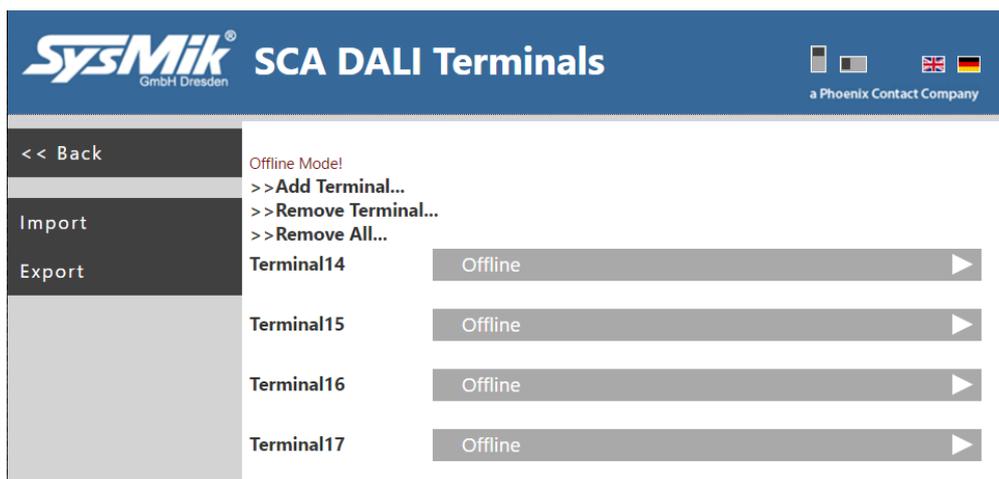


Fig. 3.1.5: Your station in terminals offline view

From here you can work the same way like in Online mode, but all online functions are disabled and all completely new terminals have no devices.

To add the needed devices go to address view and use "Devices" dialog.

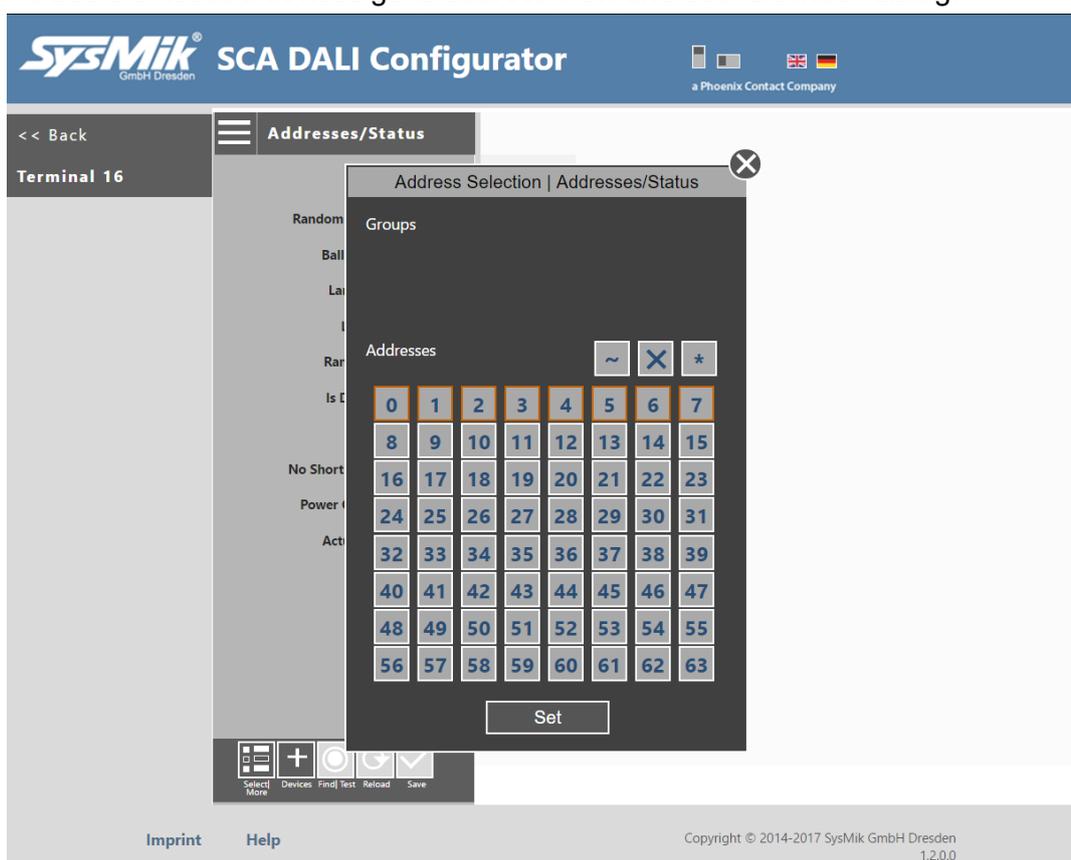


Fig. 3.1.6: Manage the terminal device configuration

Select all needed short addresses and click "Set" to rebuild your terminal device configuration. The new configuration will be saved in the local storage of your browser.

Then use the "Groups", "Scenes" and "Properties" views to configure the DALI project settings.

If all configuration is done, use "Write Storage" and then go "<< Back" and finally use "Export" to save the project into a CSV file.

## 3.2 PC Template Creation Tool

The PC template creation tool is available in Niagara Supervisor installation root and there in folder `sysmikScalo\sca-dali`. Open one of the `index*.html` files manually.

The usage of the tool is as described in chapter 3.1.

## 4 Literature

[1] IEC 62386 Digital addressable lighting interface