



TRIDONIC

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connecDIM

Release notes

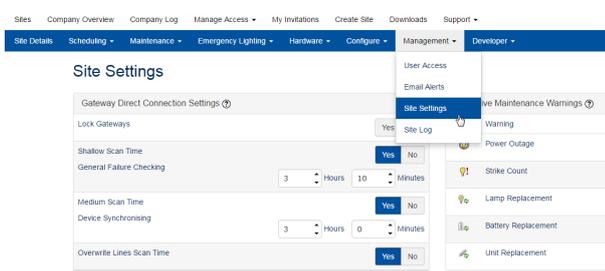
Release notes connecDIM

This document contains the history of the officially released connecDIM software versions It gives a short overview of the new features and improvements.

Release version: Cloud 3.4.0.3 ; Gateway 3.4.6.13 ; Date: 20.07.2016

Logical Areas improvement

Because the shallow and medium scan can cause delays if a Logical Area is triggered, by a physically connected device to DALI like e.g. DALI XC, the scan time can now be modified.



Settings for shallow and medium scan can be found in Management/Site Settings

Depending on the needs of your site now you can decide how often the scans should be executed.

Time for shallow scan and for medium scan can be programmed separately

Faster interwalls

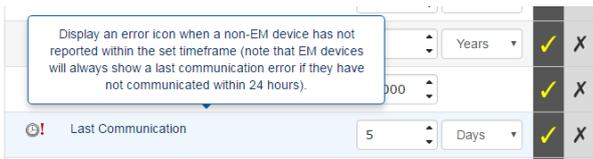
+higher resolution of the data send to cloud

-higher internet traffic
-higher risk of delays in LA

Slower interwalls

+lower internet traffic
+lower risk of delays in LA

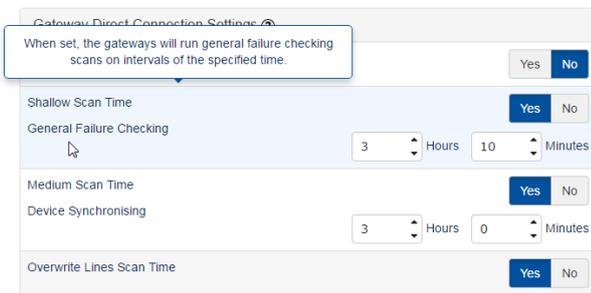
-lower data resolution



! In Version 3.4.6.13 shallow and medium scan will be disabled by default. To activate shallow and medium scan please follow the steps described in this chapter !

What is the result of an deactivated shallow and medium scan?

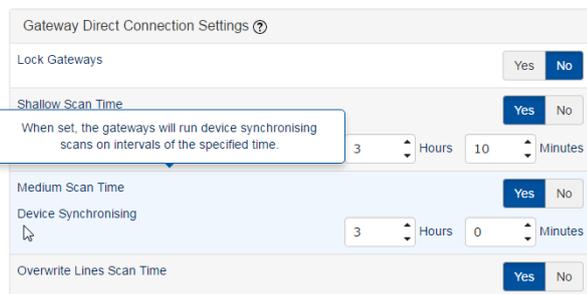
The result is that depending on your site setting "last communication" the Devices will be reported in Cloud as outdated if no light level change was performed in the time frame programmed in "last communication" setting.



Shallow Scan is needed for general failure checking and status update

Following parameter are send to the cloud during shallow scan

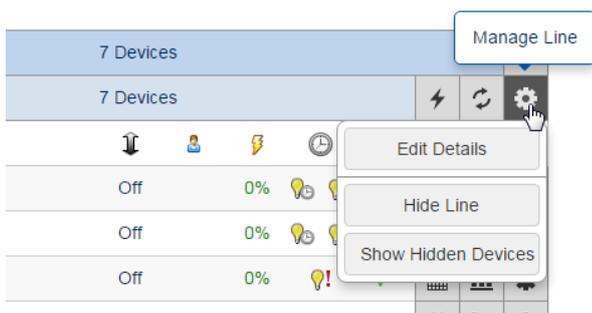
- how many devices are connected
- are there any failures
- what is the actual light level



Medium scan is needed for device synchronization
Medium scan has the same functions like the shallow scan but it collects also additional information like Scene settings or min/max Level and reports them to the cloud.

Medium scan is also executed on every reboot of the connecDIM GW.

If high data resolution in cloud, and Logical Areas (triggered by physically connected devices) are required. Shallow and Medium scan can be disabled for the DALI Line where the Trigger of the Logical Area is connected to. This will improve the reaction time from the Logical Area and lower the risk of delays.



To change the shallow and medium scan times for a specific Line go to Manage Line / Edit Details

Name
Line 3

Shallow Scan Time ?
Yes No 0 Hours 1 Minutes

Medium Scan Time ?
Yes No 0 Hours 1 Minutes

Save Cancel

In the new Window you can change the settings for shallow and medium Scan

Attention if settings for shallow and medium scan are changed on line level then the settings programmed in Site Settings will not be programmed to this line.

Site Settings

Gateway Direct Connection Settings ?

Lock Gateways Yes No

Shallow Scan Time Yes No

General Failure Checking 0 Hours 10 Minutes

Medium Scan Time Yes No

When set, all site lines will have their scan time settings overwritten with site scan time values. 3 Hours 0 Minutes

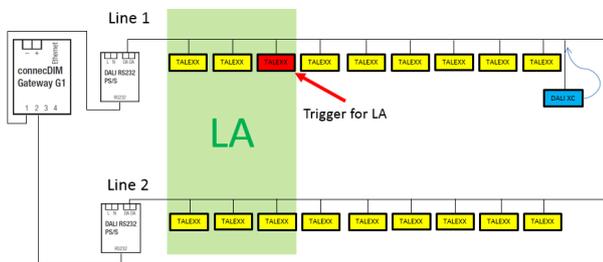
Overwrite Lines Scan Time Yes No

To change the individually programmed times on Line basis

Overwrite Line Scan Time has to be selected in Site Settings.

Overwrite Line Scan Time will overwrite the time settings for shallow/medium scan of all GW registered to your site with the values programmed in Site Settings.

Example



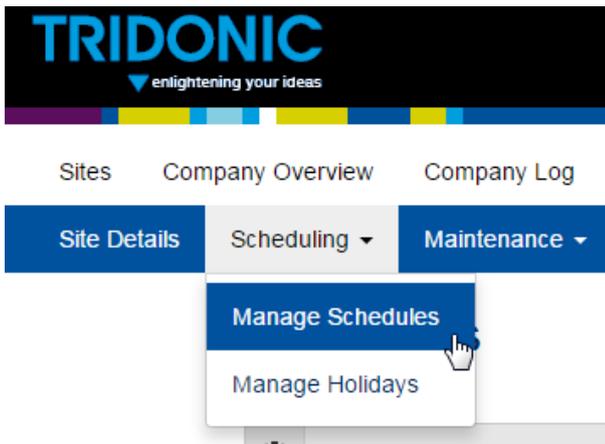
Trigger for LA is on Line 1 and is triggered by an DALI XC

LA is part of Line 1 and Line 2

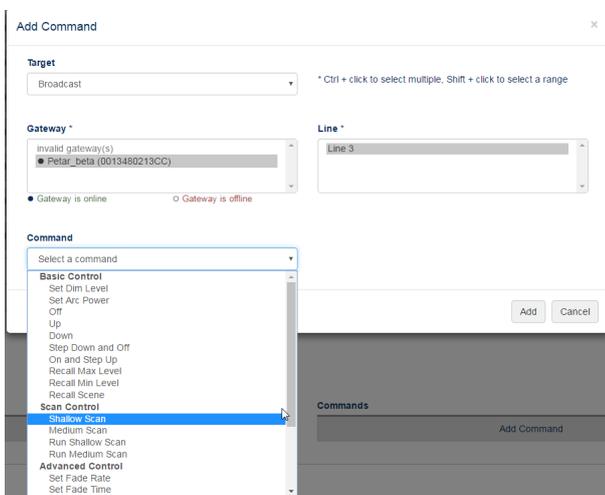
to minimize the risk of a delay for the LA the Shallow and Medium scan are disabled for Line 1.

Shallow and Medium scan still can be enabled for Line 2.

To still be able to monitor Line 1 the Scheduler offers the opportunity to activate Shallow and Mediums scan for specific times e.g. when nobody is in the installation and the LA will not be triggered by e.g. an DALI XC so it is not important if the delay in the LA occurs.



To open the Scheduler menu go to Scheduling / Manage Schedules



In the new Scheduler select Broadcast as Target

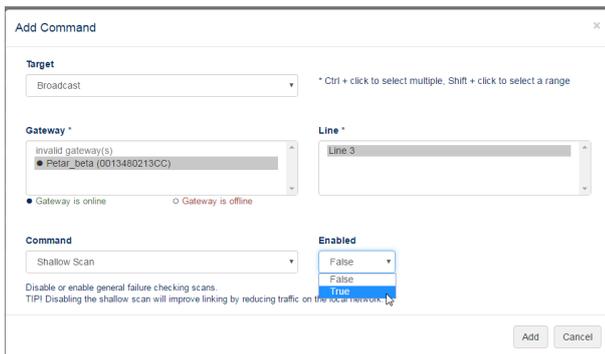
Select the GW where the Trigger is located

Select the Line where the Trigger is located

In the Commands the Scan Control commands are now available.

There are four options

- » Shallow Scan
 - » The shallow scan will be executed according to the Times programmed in Site Settings
- » Medium Scan
 - » Medium Scan will be executed according to the Times programmed in Site Settings
- » Run Shallow Scan
 - » Shallow Scan will be executed according to the programmed time in the Schedule
- » Run Medium Scan
 - » Medium Scan will be executed according to the programmed time in the Schedule



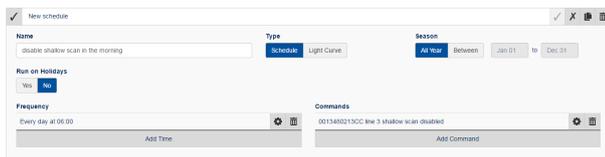
» Shallow Scan

- » The shallow scan will be executed according to the Times programmed in Site Settings

Two options are available True and False.

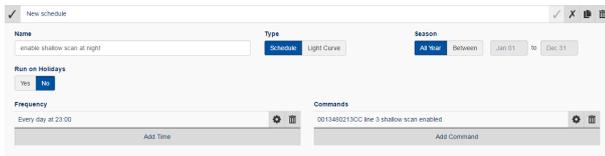
If True is selected Shallow Scan will be enabled and the times programmed in Site Settings will be activated.

If False is selected Shallow Scan will be disabled for this line



e.g. Shallow Scan is activated to the whole site but you have a LA and do not want to run in a risk to have delays and would like to disable the Shallow Scan during the operating hours

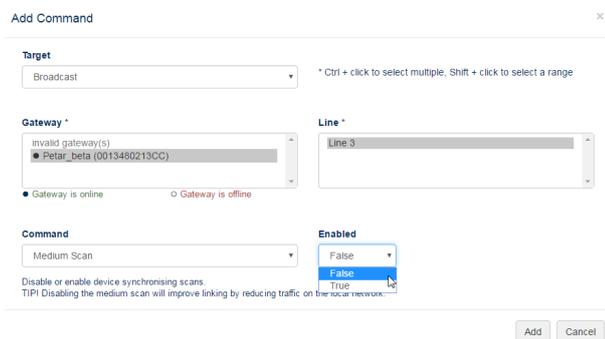
In This case you have to program two Schedules



One with the False Value which will deactivate the Shallow Scan like in this example at 6:00

And one with the True Value to activate the Shallow Scan again in this example at 23:00

This means that the Shallow Scan will be disabled from 6:00 to 23:00 and it will be activated from 23:00 to 6:00



» Medium Scan

- » Medium Scan will be executed according to the Times programmed in Site Settings

Two options are available True and False.

If True is selected Medium Scan will be enabled and the times programmed in Site Settings will be activated.

If False is selected Medium Scan will be disabled for this line

Add Command

Target: Broadcast

Gateway: Petar_beta (0013480213CC)

Line: Line 3

Command: Run Shallow Scan

Run general failure checking scans.
TIPI Running this command as little as possible will improve linking by reducing traffic on the local network.

Add Cancel

- » Run Shallow Scan
 - » Shallow Scan will be executed according to the programmed time in the Schedule

New schedule

Name: run shallow scan from 24:00 to 05:00 every 45 minutes

Type: Schedule

Season: All Year

Run on Holidays: No

Frequency: Every day every 45m from 00:00 to 05:00

Commands: 0013480213CC line 3 run shallow scan

Add Time Add Command

e.g. like in this example programmed the shallow scan will be executed every 45 minutes between 24:00 to 5:00

New schedule

Name: run medium scan from 24:00 to 05:00 every 45 minutes

Type: Schedule

Season: All Year

Run on Holidays: No

Frequency: Every day every 45m from 00:00 to 05:00

Commands: 0013480213CC line 3 run medium scan

Add Time Add Command

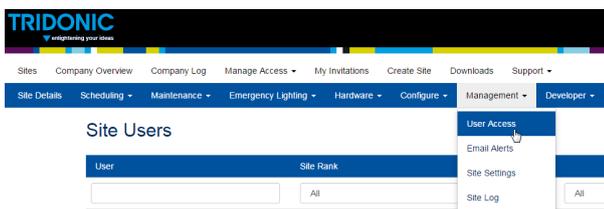
- » Run Medium Scan
 - » Medium Scan will be executed according to the programmed time in the Schedule

in this example the medium scan will be executed every 45 minutes between 24:00 and 5:00

New default Site Rank connecDIM App User

Site Rank connecDIM App User will allow the User to log in to the Site and get Favorites defined by an Administrator. This User Rank will see only his Favorites and not the rest of the Installation. This rank is the new Default profile.

Site Ranks can be changed under Management / User Access



Modify rank for Ken Herbert

Site Rank

ConnecDIM Cloud Administrator

connecDIM App User

ConnecDIM Cloud Administrator

ConnecDIM Cloud User

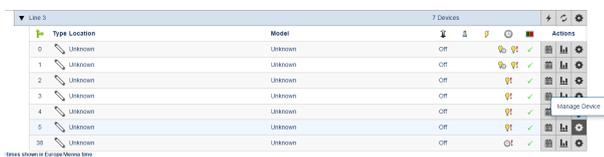
Replace ballast

When a ballast is marked as replaced in the cloud, operating time was not reset until the light next reported to the cloud. Now operating time will reset immediately.

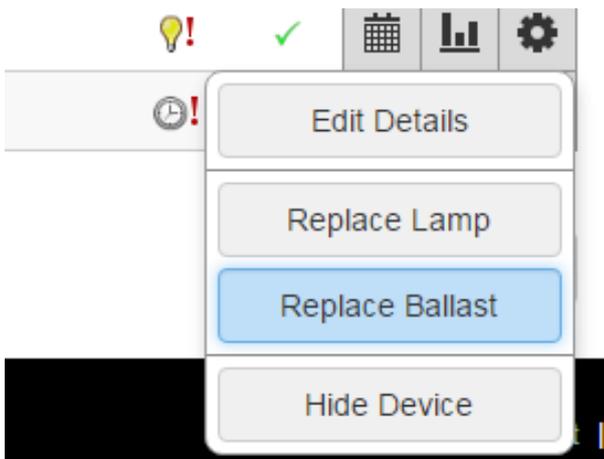
how to



e.g. Operating time is 299h



go to manage device



select replace Ballast

Operating Data	
Operating Time	0h
Lamp Replaced	-
Ballast Replaced	14:08 18/7/2016
Days Active	0
Strikes Per Day	0
Total Strikes	4285
Bus Errors	0
Firmware Version	-
Last Updated	14:07 18/7/2016

Operating Time is reset to zero

Emergency Time on Battery

Emergency Time on Battery was showing incorrectly. A bug was found in the formula that would attempt to count hours past the limit of the ballast and hours were being doubled. The time shown will now just be the value from the ballast which means it will be limited to 255 hours.

Operating Data	
Operating Time	5244h
Time on Battery	559 hours
Last Power Outage	-
Lamp Replaced	10:39 20/2/2016
Battery Replaced	-
Ballast Replaced	-
Last Function Test	5:00 18/7/2016
Last Duration Test	4:57 18/7/2016
Days Active	616
Strikes Per Day	11
Total Strikes	6754
Bus Errors	0
Firmware Version	27
Last Updated	8:54 18/7/2016

e.g. in this case the Time on Battery was 559.

With this update the maximum displayed is the Value stored in the Driver and this is up to 255 hours.

MSensor Update

MSensors grouping is now more reliable. When an MSensor is set to report at the highest speed there is a large chance that the DALI grouping commands are interrupted. The gateway will now attempt to silence MSensors before sending grouping commands.



For best results ensure MSensor speed is not set to highest while grouping sensors and lights.

Energy calculation

The cloud will no longer calculate energy when it first loads. A new button for loading energy has been added to the system for each DALI Line, when the button is pressed the energy data will be loaded.

	<p>expand the Line and you will see the new field Load Energy</p>
	<p>Select Load Energy</p>
	<p>Energy data loaded</p>

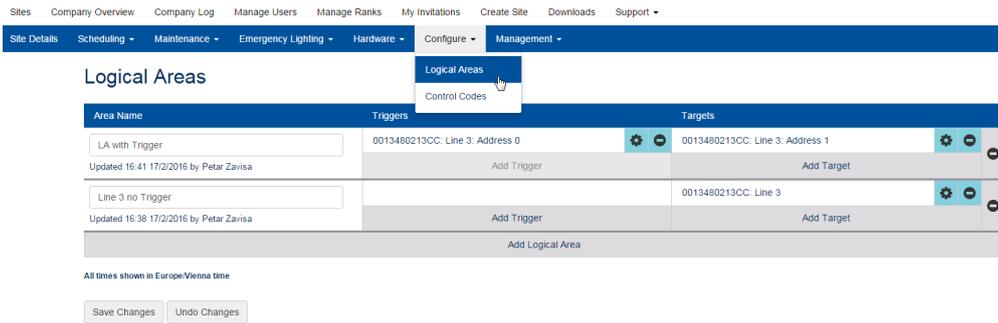
Lamp fails

When a lamp fails, it will no longer accrue energy data at 100%. A DALI device reports 255 arc power level when the lamp fails, the cloud was using this value to generate maximum arc power usage when a lamp failed. This behavior is now improved. The Energy Level will be zero.

Release version: 3.2.1 date: 01.03.2016

Logical Areas

Logical areas can now be programmed without a Trigger, this is useful if a logical area is used for Email Alerts. No risk of large areas being triggered accidentally.



Logical Area hop counting

Preventing infinite linking loops. Maintains usability of logical area feature. Only one hop is now allowed.

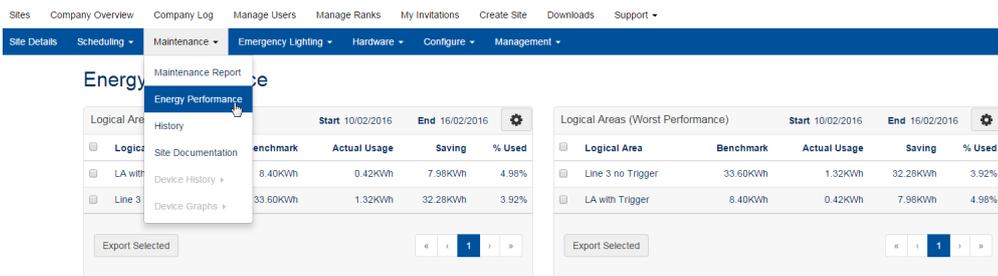
Delay Time issue improved

With this version the Delays between Trigger and Targets have been improved.



Export energy performance

Makes it possible to export energy data out of the energy performance window to a .csv file



Energy Performance

Logical Areas (Best Performance)		Start	End	
		10/02/2016	16/02/2016	
<input type="checkbox"/> Logical Area	Benchmark	Actual Usage	Saving	% Used
<input type="checkbox"/> LA with Trigger	8.40KWh	0.42KWh	7.98KWh	4.98%
<input checked="" type="checkbox"/> Line 3 no Trigger	33.60KWh	1.32KWh	32.28KWh	3.92%

Export Selected

« < 1 > »

Improved energy performance view

Allows to customise the energy performance view. and display the consumed energy in Wh, kWh, MWh, show Areas 5, 10 or all and Flexible time frame

The screenshot shows a settings dialog box for the Energy Performance view. The dialog has the following sections:

- Energy Unit:** Wh, **KWh**, MWh
- Show Areas:** **5**, 10, All
- Timeframe:** **Last Week**, Last Month, Custom
- Start:** 10/02/2016
- End:** 16/02/2016
- Apply** button

The background shows the Energy Performance table with the following data:

Logical Area	Benchmark	Actual Usage	Saving	% Used
<input type="checkbox"/> LA with Trigger	8.40KWh	0.42KWh	7.98KWh	4.98%
<input checked="" type="checkbox"/> Line 3 no Trigger	33.60KWh	1.32KWh	32.28KWh	3.92%

An 'Exporting...' button is visible at the bottom of the table.

Report annotations

Annotation which can be entered by the user when an Extended or non-Extended report is created the user is asked for Annotation, which is then shown on the report when it is created.

Sites Company Overview Company Log Manage Users Manage Ranks My Invitations Create Site Downloads Support

Site Details Scheduling Maintenance Emergency Lighting Hardware Configure Management

Emergency Test History

Start Date: 10/02/2016 End Date: 17/02/2016 Filter: All Duration Tests Function Tests Errors Search

Export: all devices to PDF Period: last three months show: extended data Export

Entries per page: 25

Time	Device	Status
11:48 17/02/2016	Petar_beta (0013480213CC): Line 3: Unknown (A35)	Function Test passed
04:00 17/02/2016	Petar_beta (0013480213CC): Line 3: Unknown (A35)	Function Test passed
11:46 16/02/2016	Petar_beta (0013480213CC): Line 3: Unknown (A35)	Function Test passed

Export Annotation: export PDF Apply

exported Report as PDF

Emergency History from 2015-11-17 00:00:00 to 2016-02-17 19:36:45

Annotation: export PDF

Site: Test Bench Technical Sales Engineering
 Gateway Name: Petar_beta
 Gateway MAC Address: 0013480213CC
 IP Address: 10.10.30.104
 Test Type: 'FT' = Function Test, 'DT' = Duration Test, 'CT' = Communication Test
 Downloaded at: 2016-02-17 19:36:45

Hex values are according to the DALI Standard IEC 62386-202 Ed. 1: Digital addressable lighting interface - Part 202: Particular requirements for control-gears - Self-contained emergency lighting (device type 1)

Line Name	Line Number	Location	Address	Modul	DALI Group Names	DALI Group Numbers	Date	Test Type	Status	Event	DALI Emergency Mode (hex)	DALI Emergency Status (hex)	DALI Failure Status (hex)
Ground Floor	1	EMPowerLE	35	Unknown			2015-12-02 14:00:10	FT	pass	Function test passed	0x02	0x06	0x00
Ground Floor	1	EMPowerLE	35	Unknown			2015-12-01 14:00:11	FT	pass	Function test passed	0x02	0x06	0x00
Ground Floor	1	EMPowerLE	35	Unknown			2015-11-24 14:00:11	FT	pass	Function test passed	0x02	0x06	0x00
Ground Floor	1	EMPowerLE	35	Unknown			2015-11-23 22:00:00	DT	pass	Duration test passed	0x00	0x02	0x00

Per-Device predictive settings

New option available in the manage device settings which allows to override the predictive operating time inherited from site settings.

Devices Expand All

Petar_beta (00134802130C) v3.3.2.4		8 Devices					
Line 3		8 Devices					
Type	Location	Model					Manage Device
0	Unknown	Unknown	100%	2%	✓	✓	
1	Unknown	Unknown	Off	2%	✓	✓	

Location

Model

Total Wattage ⓘ

Benchmark Wattage ⓘ

Benchmark Hours/month ⓘ

Override Predictive Operating Time

Access site sub-pages via direct URI

Now it's possible to directly access sub-pages of a site via a direct URI e.g. accessing the schedules page via ****/details/1/schedules****

This brings following benefits:

- Linking from email reports
- Full back-button navigation
- Bookmarking sub-pages

Exclusions

Some pages will not be accessible via direct links (yet). The pages currently affected by this are the device history, device graphs, and AU/NZ EM test snapshots.

Scenes visualisation updated

Cloud shows now DALI scene number on named scenes.

ers Manage Ranks My Invitations Create Si

Lighting Hardware Configure Mana

- Devices
- Groups
- Scenes**
- Add Gateway

v3.3.2.4

▼ Line 3	14 Scenes	⌂ ⚙
▼ Presentation (S0)	2 Devices	⚙
➤ Type Location	Model	⬇
0 Unknown	Unknown	Off
1 Unknown	Unknown	Off
▼ Presentation V2 (S1)	1 Device	⚙
➤ Type Location	Model	⬇
0 Unknown	Unknown	Off
▼ Scene 2	2 Devices	⚙
➤ Type Location	Model	⬇
0 Unknown	Unknown	Off
1 Unknown	Unknown	Off
▶ Scene 3	1 Device	⚙
▶ Scene 4	2 Devices	⚙
▶ Scene 5	2 Devices	⚙
▶ Scene 6	2 Devices	⚙

JSON-RPC API configurator

Easy way to create own JSON-RPC commands and control light remotely.

Function can be found under Developer/JSON-RPC API

TRIDONIC enlightening your ideas

Sites Company Overview Company Log Manage Users Manage Ranks My Invitations Create Site Downloads Support

Site Details Scheduling Maintenance Emergency Lighting Hardware Configure Management Developer

Site Summary

Emergency Devices M-Sensors Lights

On/Presence Detected 0 1 263

JSON-RPC API

⚠ JSON-RPC commands can not be used if the GW is locked (management/site settings)

Change GW IP via JSON-RPC

Change the IP of the GW via JSON-RPC. Use following code to change the IP of your GW

```
http://111111111111.local/cgi-bin/json.cgi?json={"method": "configurenetwork", "params":{"ip":"222.222.222.222", "gateway":"333.333.333.333", "netmask":"255.255.255.0"}}, "id":1234}
```

Take care the code is case sensitive

111111111111 = MAC Address of the GW you would like to change the IP

222.222.222.222 = New IP address for the GW

333.333.333.333 = IP of your router

255.255.255.0 = Netmask

The programmed IP will get lost after a GW reboot and the GW will get again an IP given by DHCP.

Change Proxy via JSON-RPC

Read:

```
{"method": "configureproxy", "params":{"action":"read"}}, "id":1234}
```

Configure:

```
{"method": "configureproxy", "params":{"serverip":"111.111.111.111", "port":"333", "username":"myusername", "password":"mypassword"}}, "id":1234}
```

111.111.111.111 = IP of your proxy server

myusername = your username

mypassword = your password

Disable:

```
{"method": "configureproxy", "params":{"action":"disable"}}, "id":1234}
```

connecDIMArchitec app scenes menu

Now it is possible to change the scene settings in the group menu

Go to line X/ Group X/ Scenes/ Edit

Scenes from device		Scenes from group		Scenes from line	
SOS only 10:00 AM 99%		SOS only 10:00 AM 99%		SOS only 10:02 AM 100%	
Light Above Meeting Room	Done	Test Group	Done	Scene TEST NAME	Edit
CONTROL		CONTROL		CONTROL	
Recall Max Level		Recall Max Level		Go To Scene	
Off		Off		Recall Max Level	
ADVANCED		ADVANCED		ADVANCED	
Scene 0 MASK	<input type="range"/>	Scene 0 MASK	<input type="range"/>	2015-08-13 08:24:32 MASK	
Scene 1 MASK	<input type="range"/>	Scene 1 MASK	<input type="range"/>	Light Above Meeting Room MASK	
Scene 2 MASK	<input type="range"/>	Scene 2 MASK	<input type="range"/>	2015-08-13 08:25:12 3.88% (135) MASK	
Scene 3 MASK	<input type="range"/>	Scene 3 MASK	<input type="range"/>	2015-08-13 08:25:13 3.88% (135) MASK	
Scene 4 MASK	<input type="range"/>	Scene 4 MASK	<input type="range"/>	2015-08-13 08:25:13 3.88% (135) MASK	
Scene 5 MASK	<input type="range"/>	Scene 5 MASK	<input type="range"/>	2015-08-13 08:25:13 3.88% (135) MASK	
Scene 6 MASK	<input type="range"/>	Scene 6 MASK	<input type="range"/>	2015-08-13 08:25:13 MASK	
Scene 7 MASK	<input type="range"/>	Scene 7 MASK	<input type="range"/>	2015-08-13 08:25:13 MASK	
Scene 8 MASK	<input type="range"/>	Scene 8 MASK	<input type="range"/>	2015-08-13 08:25:14 3.88% (135) MASK	
Scene 9 MASK	<input type="range"/>	Scene 9 MASK	<input type="range"/>	2015-08-13 08:25:14 3.88% (135) MASK	