

Sensors & Controls

**connecDIM**

Manual

**TRIDONIC**

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## Validity

This operating instruction is valid for the connecDIM system.

TRIDONIC GmbH & Co KG is constantly striving to develop all its products. This means that there may be changes in form, equipment and technology.

Claims cannot therefore be made on the basis of information, diagrams or descriptions in these instructions.

The latest version of these operating instructions is available on our home page at

<http://www.tridonic.com/com/en/operating-instructions.asp>

### 1.1. Copyright

This documentation may not be changed, expanded, copied or passed to third parties without the prior written agreement of TRIDONIC GmbH & Co KG.

We are always open to comments, corrections and requests. Please send them to [info@tridonic.com](mailto:info@tridonic.com)

### 1.2. connecDIM Cloud Service

"connecDIM Cloud Service" is a voluntary and free of charge service from Tridonic. It is not part of the Software Product. Tridonic is therefore entitled to change or discontinue the service at any time.

This and other regulations are part of the "End-User License Agreement (EULA) for Tridonic software programs" which can be found at <http://www.tridonic.com/eula>.

### 1.3. Imprint

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## Safety instructions

The instructions in this section have been compiled to ensure that operators and users of connecDIM system from Tridonic are able to detect potential risks in good time and take the necessary preventative measures.

- \_ This device may only be installed and configured by suitably qualified personnel.
- \_ Every operator must read these operating instructions carefully and comply with the instructions contained therein.
- \_ The operator must ensure that all users fully understand these instructions and adhere to them.

### 2.1. Designated use

The connecDIM system is a DALI monitoring and control solution. DALI devices including LED, colour changeable and emergency devices can be controlled locally via apps or monitored remotely on the [connecDIM cloud](#).

The connecDIM system components can be updated over the web, allowing for a continuously evolving solution.

### 2.2. Dangers associated with the operation of the system

- \_ The owner must ensure that the wiring instructions and specifications for DALI lines are observed.

The following safety instructions must additionally be observed when using the connecDIM system for controlling emergency lighting systems:

- \_ The owner must ensure that the country-specific regulations and standards for emergency lighting systems are observed.
- \_ The connecDIM system may only be operated by a trained person who has been authorized by the owner and who has the professional training and knowledge, especially of the relevant regulations, to be able to assess the tasks he or she has been assigned as well as possible dangers.
- \_ The owner of the emergency lighting system must ensure that no one but authorized trained persons modify any settings of the connecDIM system



## The connecDIM System

### 3.1. System Introduction

The connecDIM system is a DALI monitoring and control solution. DALI devices including LED, colour changeable and emergency devices can be controlled locally via apps or monitored remotely on the [connecDIM cloud](#).

The connecDIM system components can be updated over the web, allowing for a continuously evolving solution.

### 3.2. System Component Summary

Image	Title	Description
	Cloud	<p>The cloud records and stores information regarding the installation. Changes of lamp state, failures and historical information for energy reporting is recorded and saved on the cloud.</p> <p>The cloud is also able to make updates available to the system components already installed in the field.</p> <p>The cloud can be accessed at <a href="http://www.connecDIM.com">www.connecDIM.com</a> and new users can register their own connecDIM cloud account at <a href="http://www.connecDIM.com/register">www.connecDIM.com/register</a>.</p>
	Gateway	<p>The gateway controls and monitors up to 4 DALI lines and runs locally.</p> <p>Each gateway monitors activities on the DALI lines and reacts by reporting information to the cloud if it is connected to the Internet.</p> <p>The gateway allows network control and configuration of the DALI devices connected to the gateway via the connecDIMLite and connecDIMArchitect applications.</p> <p>Data such as scheduling information, time zone, Logical Areas and firmware updates are synchronized between the gateway and the cloud.</p>

### 3.3. System API

connecDIM supports an API based on the JSON RPC protocol which allows integrating DALI information from the connecDIM gateway for BMS Systems.

If you are interested in the API documentation please contact your local Tridonic office.

### 3.4. Storage of Data

The connecDIM system collects data and stores it in the cloud. Our storage policy is as follows<sup>1)</sup>:

- If the connecDIM system is used in combination with emergency applications, these emergency application data will be stored for a maximum of 24 months<sup>1)</sup>. Data older than 24 months<sup>1)</sup> will be automatically deleted.
- All other data collected in the cloud will be stored for 3 months<sup>1)</sup>. Data older than 3 months<sup>1)</sup> will be automatically deleted.

#### NOTICE

<sup>1)</sup> Tridonic keeps the right to change this storage policy or parts of it without prior notice.

## The connecDIM System

### CAUTION!

The connecDIM cloud service is a non-real-time application.

The availability of the cloud service, performance, integrity and availability of stored and displayed data in the cloud cannot be guaranteed.

Internet connections, server load and other network issues may influence the correctness of the data or even lead to data loss.

### 3.5. Terms of Use

To use the connecDIM system, you have to accept the Tridonic terms of use.

The terms of use can be found on the Tridonic web page at [www.tridonic.com/eula](http://www.tridonic.com/eula)

### 3.6. <sup>BETA</sup> Features

connecDIM provides features that are under development. These features are marked as BETA.

The definition of BETA can be found in the terms of use at [www.tridonic.com/eula](http://www.tridonic.com/eula)

The following features are BETA:

- \_ [Manage Holidays](#), S. 36 (Site and Country Holidays)
- \_ [Energy Performance](#), S. 37
- \_ [Maintenance History](#), S. 38
- \_ [Device History](#), S. 60 and [Device Graph](#), S. 61
- \_ [User Access](#), S. 76
- \_ [Email Alerts](#), S. 81

## Creating your connecDIM Cloud Account

Setup and monitor connecDIM gateways with a connecDIM cloud account.

### 4.1. connecDIM user types

The connecDIM system has 4 user types

#### 4.1.1. Default User

- \_ Everybody can create an connecDIM account
- \_ Before Tridonic can create a company account with an Primary Account Holder this user has to register as a Default user

#### 4.1.2. Primary Account Holder

- \_ This is the user for whom Tridonic has created his company account.
- \_ This user receives automatically Administrator rights.
- \_ This allows him to create new Sites and to invite other user to his Company Account and also to Sites he has created.

#### 4.1.3. Company user

- \_ Each company has one Primary Account Holder
- \_ To join a company a user must be invited by the Primary Account Holder
- \_ The Primary Account Holder can grant privileges to other members so they can also invite additional users
- \_ Company users can only belong to one company at a time
- \_ Company users can leave a company to join another company

#### 4.1.4. Site user

- \_ Site users have access to an specific site
- \_ They are invited by an Site user with the rights to invite other users
- \_ It isn't necessary to be an Primary Account Holder, Company user or Default user to be invited as Site user

### 4.2. Creating a connecDIM Cloud User Account

Your connecDIM account will be based on a valid email address which you have access to.

When logged in to the connecDIM cloud account you can monitor and manage multiple DALI installations directly from the cloud.

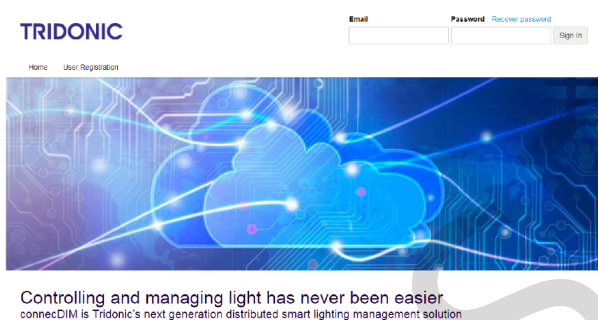
## Creating your connecDIM Cloud Account

### 4.3. The connecDIM Cloud Registration Process

1. Enter your account details including your name and email address
2. Verify your email address by clicking on a link emailed to you
3. Log into the cloud

### 4.4. Entering Account Details

- \_ If you already have a connecDIM account log in with your existing email address and password and read from the "Create a New Site" section.  
If you have forgotten your password, you can use the recover password link and an email will be sent to you with instructions for recovering your password.
- \_ Enter your new account details by visiting the account registration page and filling in the form. The connecDIM cloud will request basic information.

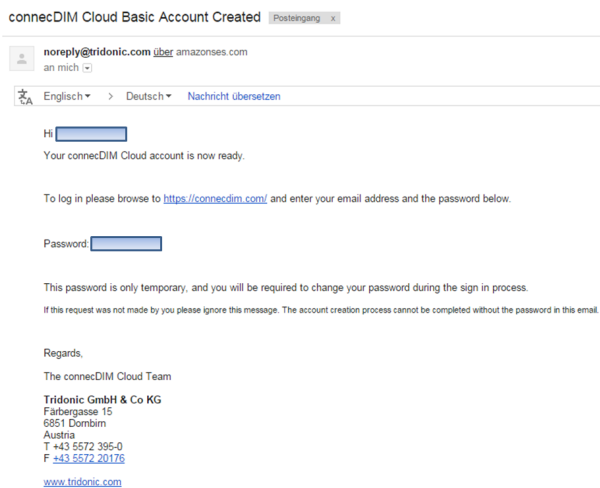
The image shows the 'User Registration' form on the connecDIM website. The form is titled 'User Registration' and includes a welcome message: 'Welcome to the connecDIM Cloud. Registration is completely free for Quanta and Basic users, so sign up now and see what it is all about. To complete your registration please fill in the details below. An email will be sent to the entered address with your new password and details on how to log in.' The form contains the following fields: 'Email Address' (with the example 'connecDIM@tridonic.com'), 'Given Names' (with the example 'Tridonic'), and 'Surname' (with the example 'connecDIM'). There is a 'Register' button at the bottom of the form. The URL 'https://connecdim.com/register' is visible in the browser's address bar.

- \_ Fill in the above fields and press "Register". The connecDIM cloud will send you a verification email.

### 4.5. Verifying Your Email

The email below will be sent to the email address you entered. You should receive an email from noreply@tridonic.com. If you don't receive an email check your junk email folder.

## Creating your connecDIM Cloud Account



The email will include a temporary password for logging in to the connecDIM cloud site. If you don't log in to the site with your temporary password within 30 minutes, your user name and account will expire. The fastest way to enter your temporary password is copying (Cntrl-C) it from the email and pasting (Cntrl-V) it into the password text field.

### 4.6. Login for the first Time

When you receive your temporary password in the email visit [www.connecdim.com](http://www.connecdim.com) and use your email address and the temporary password for your first log in.

Email	Password <a href="#">(recover password)</a>	Sign In
connecDIM@tridonic.cor	*****	

After logging into the connecDIM cloud with your temporary password, change the password to a phrase you can remember and start using the connecDIM cloud.



## ConnecDIM Company Settings

Once you have purchased connecDIM you have to register for your own company account.

It is not possible to create a company account yourself. To have a new company account created you can contact your local Tridonic sales office with the following information:

- \_ The name of the company
- \_ The address details of the company, with the following minimum information
  - \_ street address,
  - \_ city,
  - \_ state/region/province,
  - \_ country and postal code
- \_ The email address of the cloud user who will be marked as the primary account holder

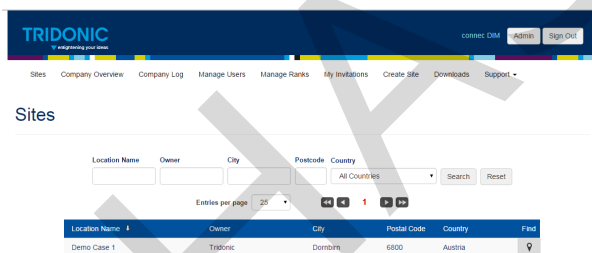
Please ensure that you include all the information listed above. It is very important that your user account already exists in the cloud before sending your request. Otherwise the company account cannot be created.

Also note that the user account which is marked as primary account cannot be a guest account. If you wish to use an email address currently associated with a guest account, you can sign in to the cloud, click on your name in the upper right, and then click the "Upgrade to Basic Account" button. After completing the upgrade this user can be changed into a primary account holder.



### 5.1. Sites

Sites gives you an overview of all the sites your user has been invited to.



### 5.2. Company Overview

The company overview gives your information about your company and the account holder.

## ConnecDIM Company Settings



### Company Overview

#### Company Details

Company Name <input type="text" value="Tridonic"/>	Street Address <input type="text" value="Fiedbergasse 15"/>	ABN <input type="text"/>
City <input type="text" value="Dornbirn"/>	State/Province/Region <input type="text" value="Vorarlberg"/>	Phone <input type="text" value="004366480892621"/>
Country <input type="text" value="Austria"/>	Zip/Post Code <input type="text" value="6850"/>	Fax <input type="text"/>
Primary Account Holder <input type="text" value="Klaus Mohr"/>		Primary Email Address <input type="text" value="klaus.mohr@tridonic.com"/>

#### Logo



### 5.3. Company Log

The company log displays the activities that have been logged in your company account, for example about new Sites created.



### Company Log

Time & Date	Logged Action	User
11:56 18/09/2015	Account access modified for Michael Kokoszka	Peter McCallum
14:59 03/09/2015	New rank pak added	Pak Kuan Au Yeong
07:58 27/08/2015	New Site: Demo Case created	Mohammed Danish
03:55 19/08/2015	New Site: Mulaghlan Institute created	Stephen Cranney
23:15 02/08/2015	New Site: Enlightenz created	Stephen Cranney
10:55 02/08/2015	New Site: MEM School created	Anthony Rodes

### 5.4. Manage Users

Gives you an overview of existing company users. Also, you can change the company rank or invite new users to your company account.



### Manage Users

Name	Email	Company Rank	Status
No Company Users			

Please note, A user may only be assigned to one company at any given time. If you wish to invite a user who is currently assigned to another company they will have to leave their current company first.

## ConnecDIM Company Settings

### 5.5. Manage Ranks

The connecDIM provides two default company ranks as well as two default site ranks. These default ranks cannot be modified. But you are able to create and manage your own ranks. These can be assigned to users which will allow them to perform specific functionalities in your sites or your company account.

**Manage Ranks**

**Company Ranks**

Name	Permissions	
ConnecDIM Cloud Administrator	✓ ✓ ✓ ✓ ✓ ✓ ✓	?
ConnecDIM Cloud User		?

[Add Company Rank](#)







[Return to Top](#)

**Site Ranks**

Name	Permissions	
ConnecDIM Cloud Administrator	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	?
ConnecDIM Cloud User		?

## ConnecDIM Company Settings

### 5.5.1. Company Rank Icons




Icon	Title	Description
	Manage Company	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ Edit the company name, address, contact details and other information presented on the "Company Overview" page</li> </ul>
	Manage Company Log	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ View the "Company Log" page</li> </ul>
	Manage Users	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ View the "Manage Users" page</li> <li>_ Invite users to your company account</li> <li>_ Modify the user's Company Rank</li> <li>_ Dismiss users from your company account</li> </ul>
	Manage Company Ranks	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ View the "Manage Ranks" page</li> <li>_ Add new Company Ranks</li> <li>_ Modify the permissions of existing Company Ranks</li> <li>_ Delete existing Company Ranks</li> </ul>
	Manage Site Ranks	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ View the "Manage Ranks" page</li> <li>_ Add new site ranks</li> <li>_ Modify the permissions of existing site ranks</li> <li>_ Delete existing site ranks</li> </ul>
	Create Sites	With this permission set, a user can: <ul style="list-style-type: none"> <li>_ Create new sites within the company</li> </ul>

## ConnecDIM Company Settings

### 5.5.2. Site Rank Icons

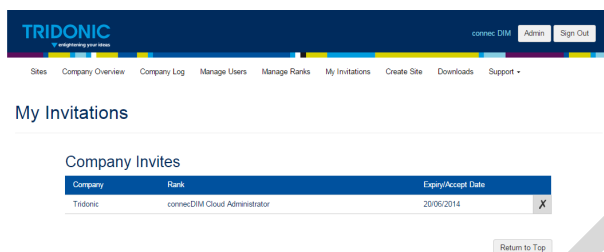
Icon	Title	Description
	Manage Sites	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Modify the name and address of the site</li> <li>– Modify options in the Site Settings</li> <li>– Change the position of the site marker on the site map in the site details</li> <li>– Create, modify, and delete control codes</li> </ul>
	Manage Site Log	With this permission set, a User can: <ul style="list-style-type: none"> <li>– View the site log</li> </ul>
	Manage Site Users	With this permission set, a Uuer can: <ul style="list-style-type: none"> <li>– Allow and deny other users access to the site</li> <li>– Manage favourites in the connecDIMLite apps</li> </ul>
	Manage Gateways	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Modify the name and firmware update status of gateways</li> </ul>
	Manage Lines	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Modify data for the lines, devices, groups and scenes such as the names and benchmark power values</li> </ul>
	Manage Emergency	With this permission set, a user can: <ul style="list-style-type: none"> <li>– View and manage installed EM devices</li> <li>– Schedule emergency tests</li> </ul>
	Manage Replacement	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Flag devices as having the lamp, ballast, or battery replaced</li> </ul>
	Manage Schedules	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Create, modify, and delete schedules</li> </ul>
	Manage Holidays	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Create, modify, and delete holidays</li> </ul>
	Manage Logical Areas	With this permission set, a user can: <ul style="list-style-type: none"> <li>– Create, modify, and delete logical areas</li> </ul>

## ConnecDIM Company Settings

	Manage Email Alerts	With this permission set, a user can: _ Create, modify, and delete email alerts
	View Documentation	With this permission set, a user can: _ View and download site documentation
	Manage Documentation	With this permission set, a user can: _ Upload, rename, and remove site documentation

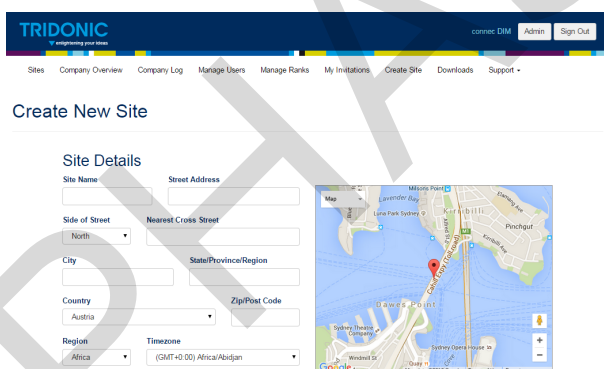
### 5.6. My invitations

Gives your an overview of your company and site invitations.



### 5.7. Create Site

Allows you to create a new site in your company account.



### 5.8. Download

Download useful information like data sheet directly into the cloud.



# ConnecDIM Company Settings



## Downloads

### Documentation

- connecDIM System Promotional Brochure (645Kb)
- connecDIM Gateway Data Sheet (1.13Mb)

### Firestarter

- The power of a connecDIM Gateway on your desktop computer
- Available for Windows Vista, 7 & 8, and Mac OS X
- Please note that Firestarter is currently only visible to Tridonic employees. Other users will not see Firestarter on this page.

- Download for Windows (1.89Mb)
- Download for Mac (1.63Mb)

### connecDIMLite

- Wireless control of your lights
- For small home installations up to multi-level buildings
- Controls tailored to your devices
- Device names can be configured locally or taken from the connecDIM Cloud
- Available now for Android™, iPhone, iPad and iPod Touch



### connecDIMArchitect

- Intuitive wireless commissioning of any size DALI system
- On-site luminaires identification
- Easily configure DALI devices including emergency lighting and colour control devices
- Available now for iPhone, iPad and iPod Touch



Android is a trademark of Google Inc.  
Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

## 5.9. Support

Here you can report issues, read the user manual, see the change log.



## Support

- [Report Issues](#)
- [User Manual](#)
- [Change Log](#)
- [API Reference](#)

For assistance with site functionality or to report a problem please fill out the following form with as much detail about the issue as possible.

Issue Category  
-- Please choose --

Please explain your issue

Error at least 20 characters

## Create new Site in the connecDIM Cloud

A DALI site is a physical location or job where a connecDIM system is installed. Each job with a different geographical location is a new site. You can create larger jobs by associating multiple gateways to one site.

The following three steps will allow you to create your first DALI site:

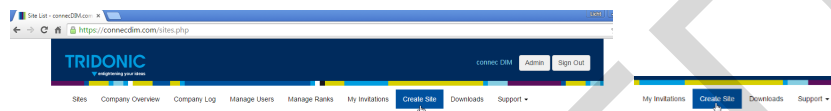
1. Enter site details
2. Add gateways to the site
3. View and access your site

### NOTICE

Only Company users with the right to create Sites are able to create new sites.

### 6.1. Enter Site Details

Make sure you are logged in to the connecDIM cloud web site and go to the "Create Site" page.



The information requested will be used locally by the gateway and also on the cloud broken down into the following areas:

1. Site name
2. Site address information
3. Time zone settings

#### Create New Site

 A screenshot of the 'Create New Site' form. The form is divided into several sections:
 

- Site Name:** A text input field containing 'Tridonic Austria'.
- Street Address:** A text input field containing 'Färbergasse 15'.
- Side of Street:** A dropdown menu set to 'North'.
- Nearest Cross Street:** A text input field containing 'Färbergasse 15'.
- City:** A text input field containing 'Dornbirn'.
- State/Province/Region:** A dropdown menu set to 'Vorarlberg'.
- Country:** A dropdown menu set to 'Austria'.
- Zip/Postal Code:** A text input field containing '6850'.
- Region:** A dropdown menu set to 'Europe'.
- Timezone:** A dropdown menu set to '(GMT+1:00) Europe/Belgrade'.
- Gateways:** A section with a table for adding gateways. The first row has 'MAC Address' (xxxxxx000000) and 'Gateway Name' (connecDIM GW ONE). Below the table are buttons for 'Add Gateway' and 'Create Site'.

 To the right of the form is a map showing the location of 'Dornbirn' in Austria, with a red pin indicating the site location. A note below the map says 'Drag the marker to fine-tune the Site's location (if required)'.

#### 6.1.1. Site Name

The site name is your reference to the site on the cloud. When viewing multiple sites the site name will help you distinguish which site you are viewing at any particular time.

## Create new Site in the connecDIM Cloud

### 6.1.2. Site Address Information

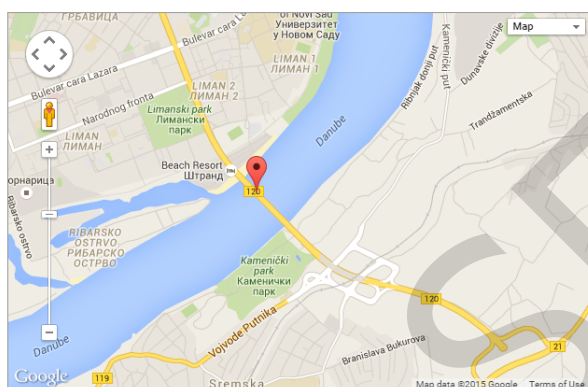
If you are using the connecDIM cloud for emergency lighting the address information will be used on your automatically generated fire safety certificate.

- Enter your site address in the fields shown below.  
The site address is used to calculate sunset and sunrise times of your location.

### 6.1.3. Fine Tuning Latitude and Longitude

Once the address information is entered into the google map the location shall move showing the resolved geo location of the site.

- If the map doesn't change to the correct location, double check your spelling and make sure the information has been entered correctly.  
For fine tuning the geo location you can drag and drop the map pointer.  
The final position of the map pointer is used to calculate sunrise and sunset schedules for associated sites.



Drag the marker to fine-tune placement of your Site. Click the Save Changes button to remember your settings.

### 6.1.4. Time Zone Settings

The time zone is used locally by the gateway for running schedules and showing logs and graphs on the connecDIM cloud. Logs and graphs regarding a site are shown in the local time zone of the site.

The gateway will automatically update day light savings based on the time zone.

Daylight savings will be adjusted automatically based on your time zone.

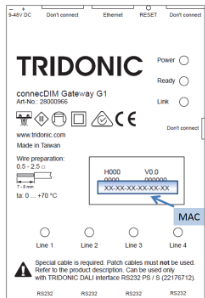
## 6.2. Add connecDIM Gateways to the Site

- If you have already received your gateway, you can add it to the site by filling in its mac address at the gateways section.  
The gateway's MAC address (which is a 12 digit code) can be found on to the side of the gateway and on the label.

## Create new Site in the connecDIM Cloud



Code on side



Code on label

- If you have multiple gateways you can give it a gateway name which will help you distinguish it from other gateways. You can add multiple gateways by pressing the "Add Gateway" button.

### Gateways

MAC Address	Gateway Name
xxxxxxxxxxxx	connecDIM GW ONE
<input type="button" value="Add Gateway"/>	<input type="button" value="Add Gateway"/>

Finish adding your new site by pressing the "Create Site" button.

### 6.3. Replacement of broken Gateways

If a gateway is broken, it can be replaced with a new one. The data from the broken gateway can be transferred to the new one.

#### NOTICE

Making a backup and restoring data from a backup is only possible if the broken gateway was registered to a site and was online.

If you need to replace a broken gateway, proceed as follows:

- Contact your local Tridonic support and provide the following information:  
Old gateway MAC address, for example "MAC address = 111111111111"  
this gateway will be replaced with a new gateway with a different MAC address, for example "MAC address = 222222222222"

After receiving the data, Tridonic will copy the settings of the broken gateway to the new gateway. For this, it is necessary to do the following:

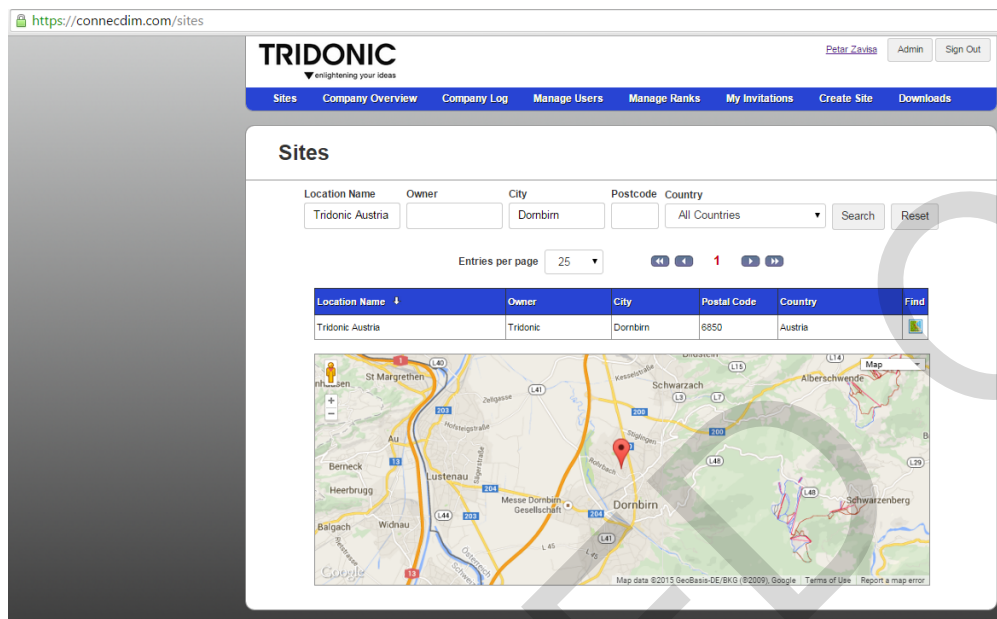
- Make sure that the new gateway (in this case: the gateway with "MAC Address = 222222222222") is connected to the cloud and registered to the site.

## Create new Site in the connecDIM Cloud

### 6.4. View and Access Your Site

After your site has been created it will appear in your site list when you log in to the connecDIM cloud. The position of your sites in the map view is marked with a red peg as shown below.

Your sites will be listed with the site name you gave them. From here you can view any site by clicking on it.



The screenshot shows the TRIDONIC web application interface. The header includes the TRIDONIC logo and navigation links: Sites, Company Overview, Company Log, Manage Users, Manage Ranks, My Invitations, Create Site, and Downloads. The user is logged in as Peter Zeiss.

The 'Sites' section features a search form with fields for Location Name (Tridonic Austria), Owner, City (Dornbirn), Postcode, and Country (All Countries). Below the search form is a table listing the sites.

Location Name	Owner	City	Postal Code	Country	Find
Tridonic Austria	Tridonic	Dornbirn	6850	Austria	

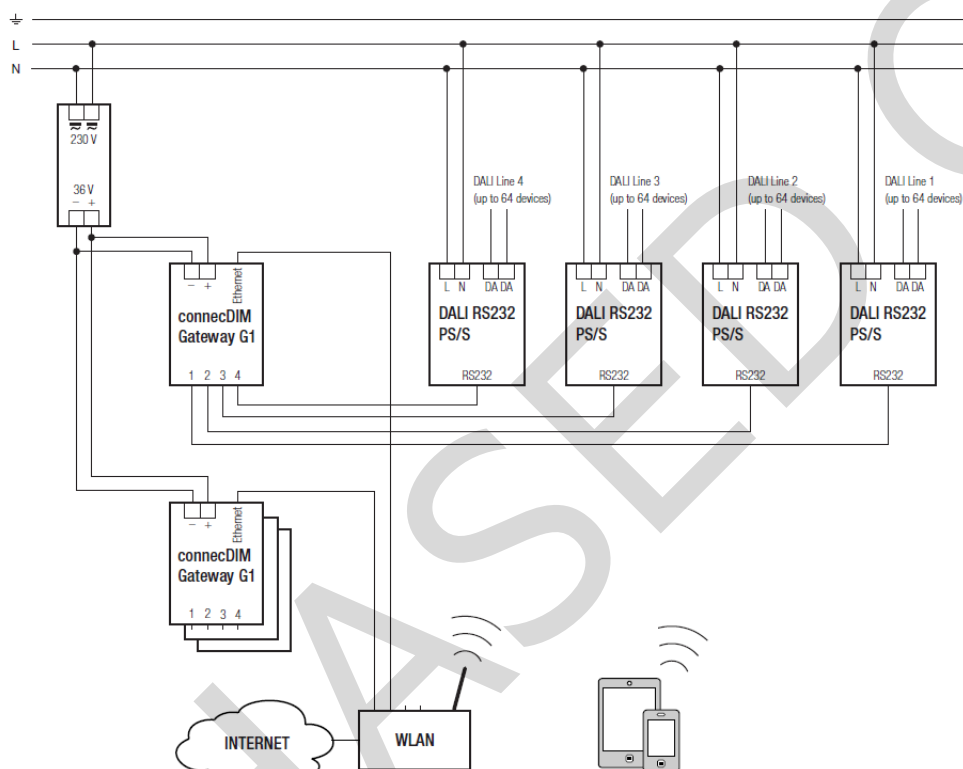
Below the table is a map view showing the location of the site in Dornbirn, Austria, marked with a red peg. The map includes labels for various locations like Lustenau, Dornbirn, and Schwarzenberg.

## connecDIM Gateway Installation

Installation is as simple as connecting the components to the connecDIM gateway.

### 7.1. To install a connecDIM gateway you need:

1. connecDIM gateway
2. DALI interface RS232 PS/S
3. connecDIM RS232 cable
4. 9-48V DC power supply
5. Ethernet network or router



### 7.2. Connect the DALI interface RS232 PS/S

#### ⚠ CAUTION!

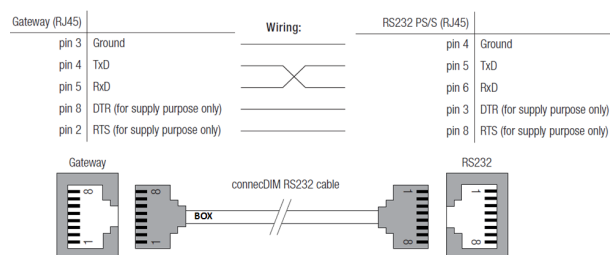
The DALI interface RS232 PS/S should be installed by a certified electrician.

The DALI interface RS232 PS/S is the interface to the DALI line.

- \_ To connect the connecDIM gateway to the DALI-PS/S use the connecDIM RS232 cable.
- \_ Connect the end of the cable marked with BOX into the connecDIM gateway and the other end into the DALI interface RS232 PS/S.



## connecDIM Gateway Installation



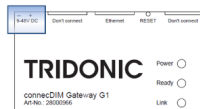
### 7.3. Connect the Ethernet Network

- Connect an ethernet cable from your LAN network to the port labelled "Ethernet" on the connecDIM gateway. You must have a DHCP router to hand out IP addresses, most routers will have this functionality built in
- If the gateway requires a constant IP address for the gateway, use a router with DHCP reservation support.



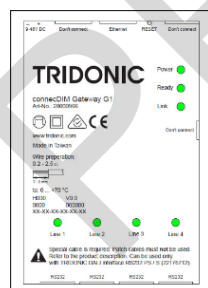
### 7.4. Connect the DC Power Supply

The DC power supply can be in the range of 9-48 VDC. The power supply is connected through connector to the top left of the gateway where it is labelled "9-48V DC".



### 7.5. Check the Lights and Connections

The connecDIM gateway will beep after power is connected. The Power, Ready and Link lights should turn on and the gateway will make a sequence of beeps indicating the gateway is on.



The LED lights have the following meaning

- Power – the connecDIM gateway has power

## connecDIM Gateway Installation

2. Ready – the firmware on the gateway is running
3. Link – the network is working and flashing indicates communication
4. Line 1, 2, 3 & 4 – Communication to the DALI lines

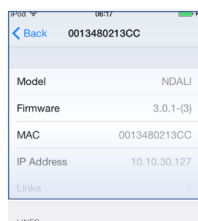
### 7.6. Ensure the connecDIM Gateway is Visible on the Local Network

- \_ Confirm the setup is complete by connecting to the gateway with the connecDIMLite or connecDIMArchitect app and perform a broadcast test.

#### NOTICE

Performing a broadcast test you need the connecDIMLite or connecDIMArchitect app which can be downloaded in the Apple or in Google app store.

- \_ Make sure you have a wireless router connecting both the gateway and the Apple/Android device through the ethernet.
- \_ Run one of the connecDIM apps. The gateway will be found automatically and allow you to control the lights.
- \_ The connecDIM apps will show the MAC address of the connecDIM gateway if you can't see the sticker.



### 7.7. connecDIM network settings

The connecDIM gateway does not require any incoming ports open which increases security. All communication is from the inside out to the cloud.

The gateway does not use a static ip address, it only works via DHCP.

If a site has an outgoing firewall, then the following ports need to be opened for communication to the cloud:

- \_ Outgoing TCP and/or UDP Port 37 (time synchronization)
- \_ Outgoing TCP Port 80 (cloud access)
- \_ Outgoing TCP Port 443 (cloud access encrypted)
- \_ Outgoing TCP Port 1291 (JSON DALI stream log data)

The destination for these ports is the connecDIM cloud which connects to the following addresses:

#### Outgoing Logging Server

“data.connecdim.com” => TCP port 1291

“54.72.207.168” => TCP port 1291

#### Outgoing Timeserver

## connecDIM Gateway Installation

“54.72.207.168” => TCP/UDP port 37

Gateways with firmware v3.6.0.7 or newer do provide NTP support - and use the TCP/UDP port 123

### Outgoing HTTPS Access

“54.77.66.116” => TCP port 443

“www.connecdim.com” => TCP port 443

### Incoming Ports

The gateway does not require any incoming ports to be opened on the firewall.

### connecDIMLite

The connecDIMLite app requires access to port 80 and 443 to synchronise the names of devices to the DALILite app.

#### NOTICE

Some Networks do not support broadcast commands. The connecDIM apps and the gateway are sending broadcast commands to communicate. This function must be activated.

### 7.7.1. NTP Time Server

Users who do not permanently connect their connecDIM gateways to the cloud can enter their own NTP time server. With this, the connecDIM gateways in the network are synchronized with the users NTP time server.

The default connecDIM time server is 54.72.207.168

#### Time Server

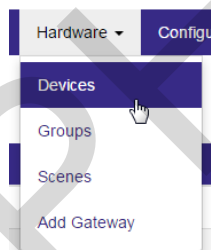
54.72.207.168

It is possible to enter the NTP server separately for every single connecDIM gateway registered to a site or for all connecDIM gateways simultaneously.

### Change NTP Server for a single Gateway

To change the NTP Server for a single connecDIM GW, proceed as follows:

- \_ Go to Hardware > Devices.



- \_ Select Manage Gateway.  
A new window appears.
- \_ Select Edit Details.  
A new window appears.

## connecDIM Gateway Installation



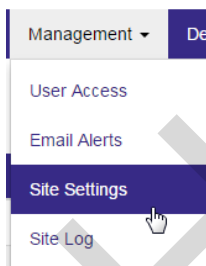
- \_ Enter the NTP time server IP address.

Click Save to save the entered NTP time server.

### Change the NTP Server for all Gateways registered to a Site

To change the NTP time server for the whole site, proceed as follows:

- \_ Go to Management > Site Settings



- \_ Enter the Time Server in the Site Settings.

- \_ Click Overwrite Gateways Time Server to change all gateways NTP time server to the value programmed in the Site Settings.

## connecDIM Gateway Installation



When set, all site gateways will have their time server overwritten with site time server value.

111.222.333.444

Overwrite Gateways Time Server

Yes No

## connecDIM Site Settings

### 8.1. connecDIM Site Details

At the site details page information like site name, street address, etc. are displayed and can be changed.

The screenshot shows the TRIDONIC Site Details page. The form includes the following fields:

- Site Name:** Tridonic Austria
- Street Address:** Farbergasse 15
- Side of Street:** South
- Nearest Cross Street:**
- City:** Dornbirn
- State/Province/Region:** Vorarlberg
- Country:** Austria
- Zip Post Code:** 6850
- Region:** Europe
- Timezone:** (GMT+2:00) Europe/Vienna

There is a map on the right side of the form showing the location of the site. Below the map, it says: "Drag the marker to fine-tune placement of your Site. Click the Save Changes button to remember your settings."

### 8.2. connecDIM Schedules

Schedules enable you to define a set of commands and combine them with a time frequency. At the given frequency the commands will automatically be started. This way, complex light solutions can be implemented and controlled easily.

#### 8.2.1. Create Schedules

The screenshot shows the TRIDONIC Schedules page. The page has a navigation bar with the following items:

- Sites
- Company Overview
- Company Log
- Manage Access
- My Invitations
- Create Site
- Downloads
- Support

The main content area has a sidebar with the following items:

- Site Details
- Scheduling
- Maintenance
- Emergency Lighting
- Hardware
- Configure
- Management
- Developer

The Scheduling section is active, and the "Manage Schedules" button is highlighted. Below the sidebar, it says: "No schedules defined for the site".

Below the main content area, there is a button labeled "Add Schedule".

To create a schedule do the following:

- \_ Go to Scheduling
- \_ Select Manage Schedules
- \_ Select Add Schedule
- \_ The Schedules window opens



## connecDIM Site Settings

### 8.2.2. Edit Schedules

#### Schedules

In the Schedules window the following settings are available:

- \_ Name: Define a name for the schedule or edit it
- \_ Season: Select season ("season" defines if the schedule will be executed during the whole year or only for a specific time frame of the year)
- \_ Run on Holidays: Select if the schedule will be executed on holidays as well or not
- \_ Frequency: Add the frequency ("frequency" defines when and how often the selected commands will be executed)
- \_ Commands: Select the commands that will be executed

#### Define Frequency

The program comes with some predefined frequencies like "Every Day", "Every Weekday" (see above screenshot).



To select one of these frequencies do the following:

- \_ Click on Add Time  
The Add Time window opens
- \_ Select one of the frequencies from the drop down menu
- \_ Click Add to confirm your selection

It is also possible to define a specific time of the day. Available options include different variants of "Every day at ..." or "Every day from... to...".

## connecDIM Site Settings

The following options are available:

-  Click on the edit symbol to edit the selected frequency
-  Click on the delete symbol to delete the selected frequency

### Add Command

The add command window allows you to select the commands and the target to which they will be sent.

The following targets are available:

- \_ Logical Area
- \_ Broadcast: The whole DALI line
- \_ Group: The DALI group
- \_ Address: An individual DALI address

The available commands are divided into five main groups:

## connecDIM Site Settings

- \_ Basic Control
- \_ Scan Control
- \_ Advanced Control
- \_ Emergency Control
- \_ Colour Control

**Basic Control**  
 Set Dim Level  
 Set Arc Power  
 Off  
 Up  
 Down  
 Step Down and Off  
 On and Step Up  
 Recall Max Level  
 Recall Min Level  
 Recall Scene  
**Scan Control**  
 Shallow Scan  
 Medium Scan  
 Run Shallow Scan  
 Run Medium Scan  
**Advanced Control**  
 Set Fade Rate  
 Set Fade Time  
**Emergency Control**

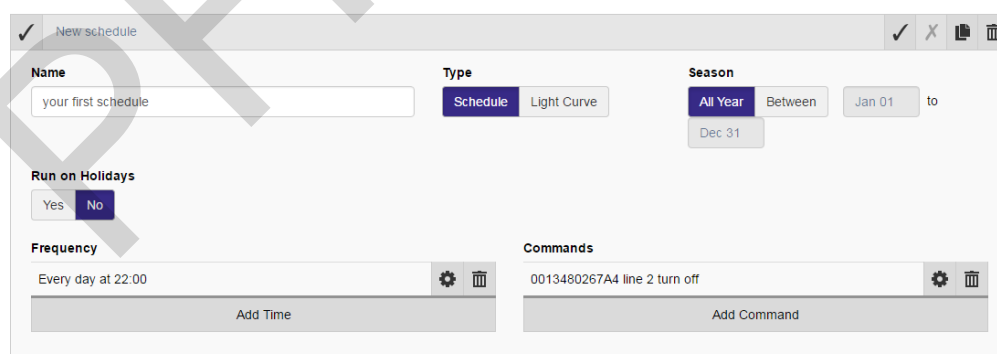
On and Step Up  
 Recall Max Level  
 Recall Min Level  
 Recall Scene  
**Scan Control**  
 Shallow Scan  
 Medium Scan  
 Run Shallow Scan  
 Run Medium Scan  
**Advanced Control**  
 Set Fade Rate  
**Set Fade Time**  
**Emergency Control**  
 Run Function Test  
 Run Duration Test  
 Stop Testing  
**Colour Control**  
 Set X/Y  
 Set Colour Temp  
 Set RGB  
 Select a command

### NOTICE

In addition to those commands, it is also possible to select MSensor commands. They are covered at [MSensor Schedules](#), S. 32.

## Save Schedule

-  Click the save icon at the top of the New Schedule window
- \_ Close the page



**New schedule**

Name:

Type:

Season:    to

Run on Holidays:

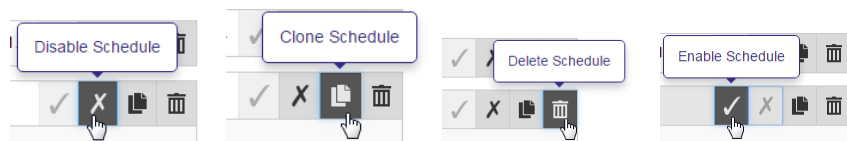
Frequency:

Commands:

## Disable, clone, delete, enable Schedule

The other icons at the top of the New Schedule window make it possible to disable, clone, delete or enable a schedule.

## connecDIM Site Settings



### 8.2.3. MSensor Schedules

To be able to create schedules for an MSensor you have to select address as Target and also to select the address of the MSensor. Only then the MSensor commands are selectable.

**Add Command**

**Target**  
Address  \* Ctrl + click to select multiple, Shift + click to select a range

**Gateway \***  

- 2nd floor, R&D Team (0013480213DA)
- 5th floor, office south (00134801E4AB)
- Ground Floor (00134801E48E)
- Ground Floor workers' council (001348028D39)

☒ Gateway is online ☐ Gateway is offline

**Line \***  

- 5th Floor KAM (Line 1)
- 5th Floor Sales (Line 2)
- 5th Floor Application (Line 3)

**Address \***  

- Klaus, Window (A2)
- Tom, Window (A3)
- MSensor KAM Office (A10)
- Klaus, Door (A20)

**Command**  
 Select a command
 

- Advanced Control
  - Set Fade Rate
  - Set Fade Time
- M-Sensor Control
  - Ambient Light Mode
  - Set Desired Lux
  - Set Switch On Level
  - Set Control Speed
  - Set Bright Out Threshold
  - Set Bright Out Delay
  - Set PIR Mode
  - Set Fade In Time
  - Set Run On Time
  - Set Warning Fade Time
  - Set Switch Off Delay Time
  - Set Fade Off Time
  - Set Dead Time
  - Set Presence Value
  - Set Absence Value

**Light Curve**  
 All Year Between

**Commands**  
 Add Command

Add Cancel

#### ⚠ CAUTION!

If MSensors are used for Light regulation in a Logical Area the control speed should be set to low. This will reduce the risk of delays in the Logical Area.

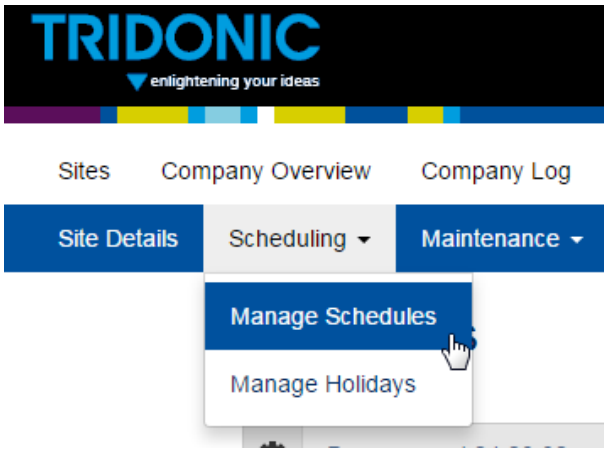
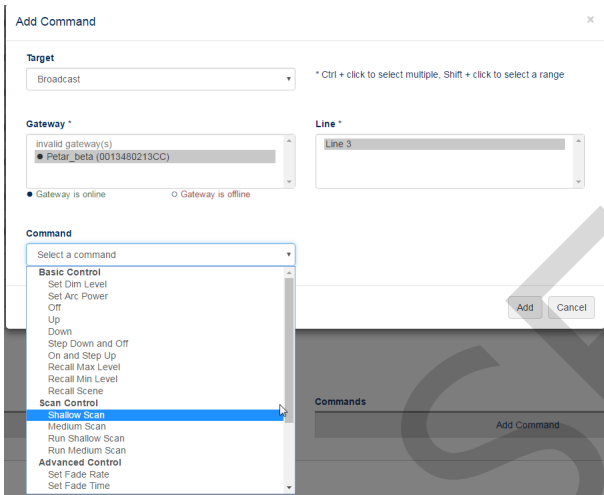
## connecDIM Site Settings

### 8.2.4. Shallow and Medium scan schedules

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.

Additional Information regarding the Shallow and Medium Scans can be found in chapter [Shallow and Medium Scan](#), S. 87.

## connecDIM Site Settings

Image	Description
 <p>The screenshot shows the TRIDONIC website header with the logo and tagline 'enlightening your ideas'. Below the header are navigation links: 'Sites', 'Company Overview', and 'Company Log'. A main menu bar contains 'Site Details', 'Scheduling', and 'Maintenance'. The 'Scheduling' menu is open, showing 'Manage Schedules' and 'Manage Holidays' options. A mouse cursor is pointing at 'Manage Schedules'.</p>	<p>To open the Scheduler menu go to Scheduling / Manage Schedules</p>
 <p>The screenshot shows the 'Add Command' dialog box. It has fields for 'Target' (set to 'Broadcast'), 'Gateway' (set to 'Petar_beta (0013480213CC)'), and 'Line' (set to 'Line 3'). Below these fields is a 'Command' list with categories: 'Basic Control', 'Scan Control', and 'Advanced Control'. The 'Scan Control' category is expanded, showing options like 'Shallow Scan', 'Medium Scan', 'Run Shallow Scan', and 'Run Medium Scan'. The 'Shallow Scan' option is selected. There are 'Add' and 'Cancel' buttons at the bottom right.</p>	<p>In the new Scheduler select Broadcast as Target</p> <p>Select the GW where the Trigger is located</p> <p>Select the Line where the Trigger is located</p> <p>In the Commands the Scan Control commands are now available.</p> <p>There are four options</p> <ul style="list-style-type: none"> <li>- Shallow Scan             <ul style="list-style-type: none"> <li>- The shallow scan will be executed according to the Times programmed in Site Settings</li> </ul> </li> <li>- Medium Scan             <ul style="list-style-type: none"> <li>- Medium Scan will be executed according to the Times programmed in Site Settings</li> </ul> </li> <li>- Run Shallow Scan             <ul style="list-style-type: none"> <li>- Shallow Scan will be executed according to the programmed time in the Schedule</li> </ul> </li> <li>- Run Medium Scan             <ul style="list-style-type: none"> <li>- Medium Scan will be executed according to the programmed time in the Schedule</li> </ul> </li> </ul>

## connecDIM Site Settings

**Add Command**

**Target**  
Broadcast

**Gateway \***  
Invalid gateway(s)  
Petar\_beta (0013480213CC)

**Line \***  
Line 3

**Command**  
Shallow Scan

**Enabled**  
False

Disable or enable general failure checking scans.  
TIPI Disabling the shallow scan will improve linking by reducing traffic on the local network.

Add Cancel

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

Two options are available:

- True: If True is selected Shallow Scan will be enabled and the times programmed in Site Settings will be activated.
- False: If False is selected Shallow Scan will be disabled for this line

**New schedule**

**Name**  
disable shallow scan in the morning

**Type**  
Schedule Light Curve

**Season**  
All Year Between Jan 01 to Dec 31

**Run on Holidays**  
Yes No

**Frequency**  
Every day at 06:00

**Commands**  
0013480213CC line 3 shallow scan disabled

Add Time Add Command

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

**Add Command**

**Target**  
Broadcast

**Gateway \***  
Invalid gateway(s)  
Petar\_beta (0013480213CC)

**Line \***  
Line 3

**Command**  
Medium Scan

**Enabled**  
False

Disable or enable device synchronising scans.  
TIPI Disabling the medium scan will improve linking by reducing traffic on the local network.

Add Cancel

- 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 \***  
Invalid gateway(s)  
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

## connecDIM Site Settings

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

- 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

### 8.2.5. Manage Holidays BETA

Select Scheduling > Manage Holidays. You can program site holidays for each site and also select country holidays.

#### Site Holidays

#### Site Holidays

#### Site Holidays

#### Site Holidays

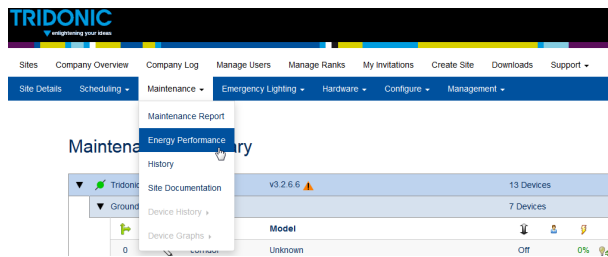
#### Site Holidays

### 8.3. Maintenance

The maintenance window displays maintenance report, history, site documentation, device history and device graphs.



## connecDIM Site Settings



### 8.3.1. Maintenance Summary

Select Maintenance > Maintenance Summary.

In maintenance summary devices with predictive maintenance warnings are visible. More information about predictive warnings can be found at [Predictive Maintenance Warnings](#), S. 96.

Maintenance Summary Expand All

Basement (0013480213CD) v3.1.7.6 70 Devices						
Line 1 24 Devices						
Type	Location	Model	Off	0%	0%	Actions
5	Unknown	Unknown	Off	0%	0%	
7	Unknown	Unknown	Off	0%	0%	
10	Unknown	Unknown	Off	0%	0%	
12	Unknown	Unknown	Off	0%	0%	
29	Unknown	Unknown	Off	0%	0%	
30	Unknown	Unknown	Off	0%	0%	
40	Unknown	Unknown	Off	0%	0%	
43	Unknown	Unknown	Off	0%	0%	

### 8.3.2. Energy Performance <sup>BETA</sup>

Energy Performance represents a way to compare the energy consumption in different areas of your building.

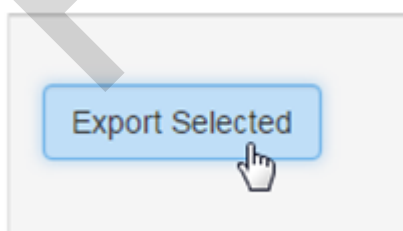
- Create the Logical Area that will be monitored. (For energy monitoring the Logical Area can be created without a trigger.) How Logical Areas are created, is explained at [Logical Areas](#), S. 69.
- Once you have created a Logical Area, you will receive an overview of best and worst performance Logical Areas.

Energy Performance

Logical Areas (Best Performance)					Logical Areas (Worst Performance)				
Logical Area	Benchmark	Actual Usage	Saving	% Used	Logical Area	Benchmark	Actual Usage	Saving	% Used
msensor	15.00kWh	15.49kWh	2.51kWh	86.08%	Office 1	162.00kWh	121.11kWh	40.89kWh	74.76%
Office 1	162.00kWh	121.11kWh	40.89kWh	74.76%	msensor	15.00kWh	15.49kWh	2.51kWh	86.08%

The results of best and worst performance Logical Areas can be downloaded as a .csv file.

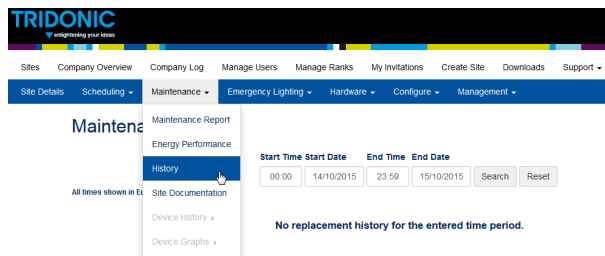
- Select the Logical Areas from which the report should be downloaded.
- Click the button Export Selected.



## connecDIM Site Settings

### 8.3.3. Maintenance History <sup>BETA</sup>

Select Maintenance > History to see the maintenance history window. Maintenance history displays if lamp/ballast/driver replacements have been made.

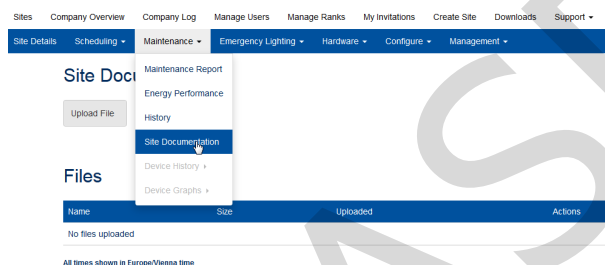


### 8.3.4. Site Documentation

#### ⚠ CAUTION!

Files with a file name longer than 100 letters or a size more than 4 MB are not supported.

Select Maintenance > Site Documentation. This is the place where you can save your installation plans and other important documents related to your site.



## 8.4. Emergency Lighting

### 8.4.1. Assumptions

This document assumes that the reader has a working knowledge of DALI. The user should have an understanding of how to install and address a DALI line and a connecDIM gateway.

### 8.4.2. Prerequisites

The user should have a DALI emergency light wired and connected to a connecDIM gateway with internet access. The user should also have set up a connecDIM cloud site with the gateway attached.

## connecDIM Site Settings

### 8.4.3. Emergency Lighting

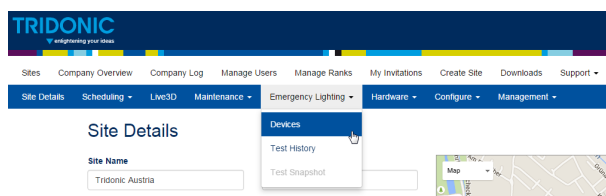
The connecDIM cloud enables a user to monitor and schedule emergency lights through the cloud.

Emergency lights automatically appear in the "Devices" and "Emergency Lighting" windows on the cloud.

The Devices window (Hardware/Devices) will show all devices with general luminaire information. Emergency devices are shown with a running man icon.

S0	Unknown	Unknown	MASK	✓	IP	✓	✓	✓	✓	✓
S1	Unknown	Unknown	MASK	✓	IP	✓	✓	✓	✓	✓
S5	Unknown	Unknown	OFF	✓	IP	✓	✓	✓	✓	✓
Ground Floor (00134801E48E) v3.1.7.6 12 Devices										

The Emergency Lighting window shows all DALI emergency devices and additionally shows DALI device type 1 emergency data fields.



All DALI emergency devices must be DALI addressed. They will appear automatically in the Emergency Lighting window and give an overview of all installed emergency devices for the site.

Emergency Lighting				Expand All
Basement (0013480213CD)	v3.1.7.6	1 Device		
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	0 Devices		
5th floor, office south (00134801E4A8)	v3.1.7.6	21 Devices	Fall 2	
Ground Floor (00134801E48E)	v3.1.7.6	0 Devices		
All sites shown in Europe/Vienna time				
Sign 6 monthly test Sign 12 monthly test				

Location and model can be entered manually by the user with the Manage device icon.

[Home](#)
[Company Overview](#)
[Company Log](#)
[Manage Users](#)
[Manage Brands](#)
[My Invitations](#)
[Create Site](#)
[Downloads](#)
[Support](#)

[Site Details](#)
[Scheduling](#)
[LiveSD](#)
[Maintenance](#)
[Emergency Lighting](#)
[Hardware](#)
[Configure](#)
[Management](#)

## Emergency Lighting

Expand All

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Other shown fields indicate battery level, function test results, duration test results, emergency status, device mode and features. These settings are read and displayed directly from the DALI settings in the fitting.

## Battery Level










### Duration Test Status

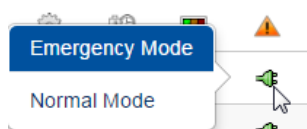
Duration Test Status	
Duration test successful	(unrecorded)
Last Tested	Unknown
Last Result	Unknown
Rated Duration	60 minutes
Next Duration Test	0 minutes
Test Frequency	-

## connecDIM Site Settings







### Emergency Status

Emergency Status		0 Device
Inhibit Mode	✗	19 Dev
Function Test Complete & Valid	✓	
Duration Test Complete & Valid	✓	
Battery Fully Charged	✓	
Function Test Request Pending	✗	
Duration Test Request Pending	✗	
Identification Active	✗	
Physically Selected	✗	

### Emergency Mode



### Device Features

Device Features		
Integral Emergency Control Gear	✗	
Maintained Control Gear	✗	
Switched Maintained Control Gear	✗	
Auto Test Capability	✓	
Adjustable Emergency Level	✗	
Hardwired Inhibit Supported	✗	
Physical Selection Supported	✗	
Re-light in Rest Mode Supported	✓	

## connecDIM Site Settings

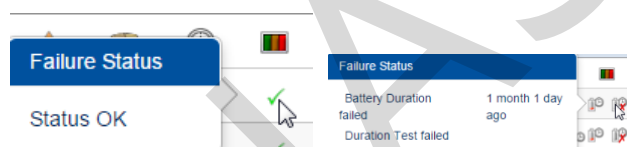
### Operating Data

Operation data shows historical information for the device

Operating Data		
Total Operating Time	3719h	
Time on Battery	746 hours	Fail: 2
Last Power Outage	-	
Lamp Replaced	20:05 06/07/2015	
Battery Replaced	-	
Unit Replaced	-	
Last Function Test	22:03 16/09/2015	✓
Last Duration Test	-	✓
Days Active	374	
Strikes Per Day	0.3	
Total Strikes	115	
Bus Errors	0	
Firmware Version	2101	
Last Updated	09:09 17/09/2015	

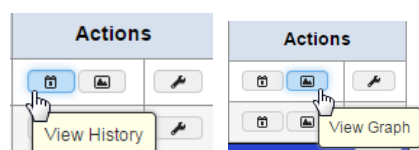
### Failure Status

Failure status field displays if the device is ok or not



### 8.4.4. Actions

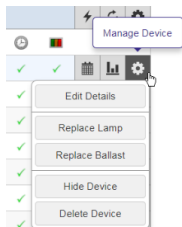
The View History and View Graph buttons show historical information and graph information recorded about the device. These pieces of information are logged any time there is a change in battery level or device status. If there is no change, the device will log every four hours to confirm the device is still reporting. For more information about the View History and View Graph windows see [Actions](#), S. 59.



## connecDIM Site Settings

### 8.4.5. Manage Device

Using the Manage Device button, you can record every maintenance event. Maintenance events are the replacement of the unit, a lamp or a battery. The replacement information will automatically update in the operational data and device logs.

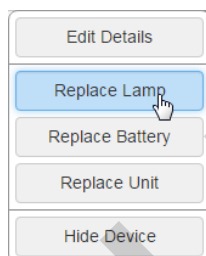


#### Edit Details

Editing 5th floor, office south (00134801E4AB): 5th Floor Sales (Line 2): Top floor middle row (34)

<b>Location</b>	<b>Model</b>
Top floor middle row	EM PRO
<b>Total Wattage ?</b>	<b>Benchmark Wattage ?</b>
61.7W inherited from site	61.7W inherited from site
<b>Benchmark Hours/month ?</b>	
200h inherited from site	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

#### Replace Lamp

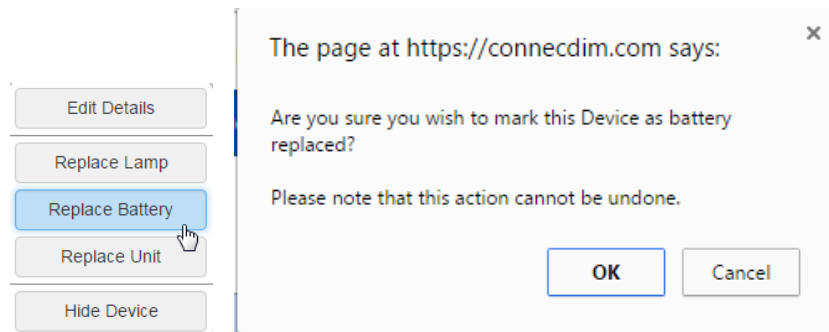


#### NOTICE

The **Replace Lamp** command will not reset the hours stored on the physical device. It will create a time stamp in the operating data so it is visible that the unit was replaced and the Strikes per day counter will be reset to = 0

## connecDIM Site Settings

### Replace Battery

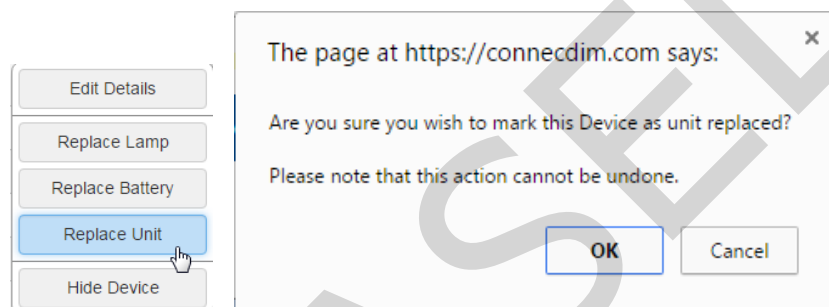


#### **i** NOTICE

The **Replace Battery** command will not reset the time on battery stored on the physical device. It will create a time stamp in the operating data so it is visible that the battery was replaced.

The time on battery value will not be changed by this. If a driver has had a time on battery value of 100 hours, it will still be 100 hours after replacing the battery.

### Replace Unit



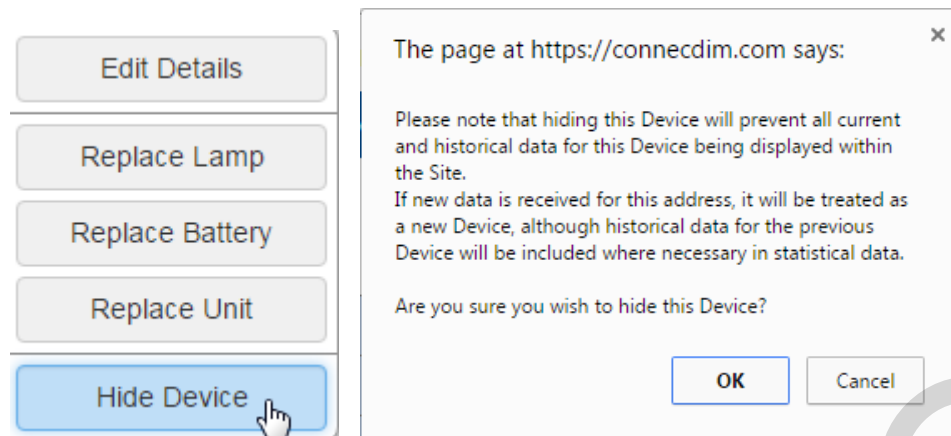
#### **i** NOTICE

The **Replace Unit** command will not reset the values stored on the physical device. It will create a time stamp in the operating data so it is visible that the unit was replaced and Active Days, Operating Time will be set to = 0

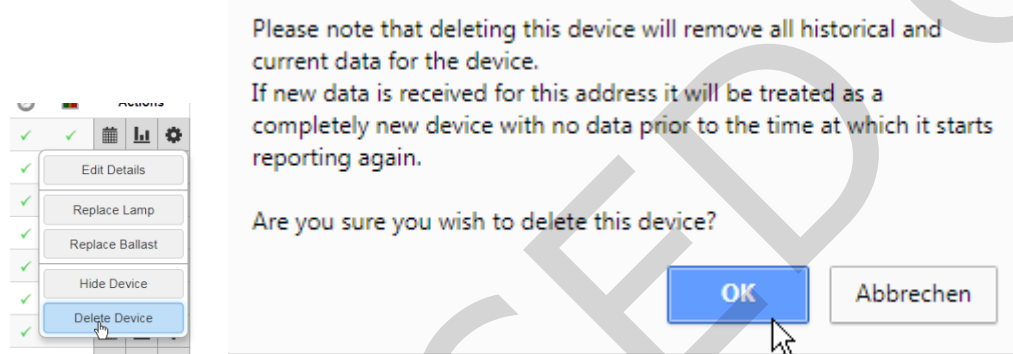


## connecDIM Site Settings

### Hide Device



### Delete Device

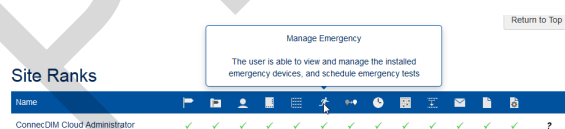


### 8.4.6. Predictive maintenance warnings

Go to Management > Site Settings to set up predictive maintenance warnings. More information can be found at [Operating Data and Predictive Maintenance Icons](#), S. 58 and [Predictive Maintenance Warnings](#), S. 96.

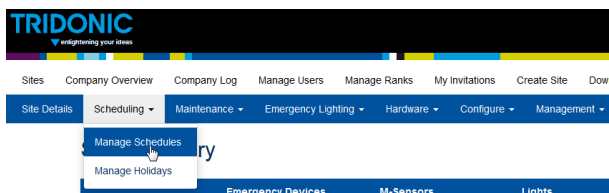
### 8.4.7. Scheduling an Emergency Test

To be able to schedule emergency tests, you need to have the site rank Manage Emergency active. This can be set up in the site rank's settings.



Once you have this right, select Scheduling > Manage Schedules.

## connecDIM Site Settings



Now you can create a scheduler for a function or duration test.

EM Function test	All Year	Every day at 11:40	Line 2 Address 5 run Function test	✓	✓	✗	✗
	All Year	Between	Add Time	Add Command			
EM Duration test	All Year	Every Monday, Wednesday & Friday at 14:00	Line 2 Address 5 run Duration test	✓	✓	✗	✗
	All Year	Between	Add Time	Add Command			
Add Schedule							

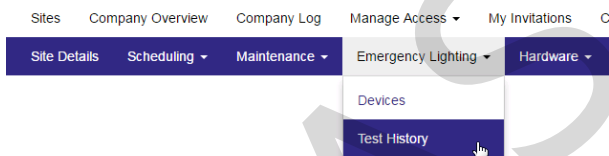
### NOTICE

The commands for scheduling an emergency test will only appear if you have the right to manage emergency and if emergency devices are connected to the line you are creating the scheduler for.

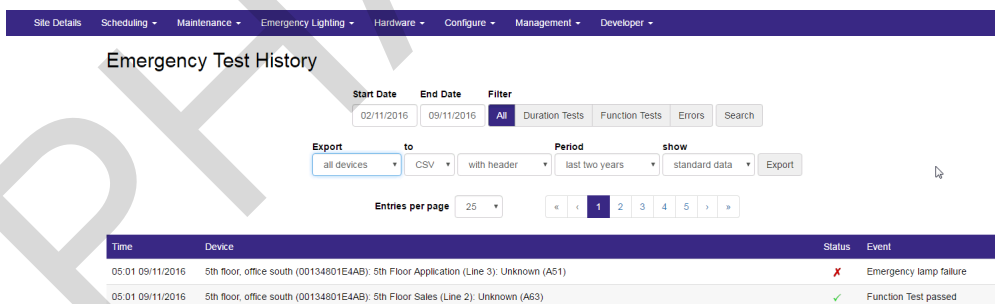
### 8.4.8. Download Emergency test results report

To download a document with the latest test results from the cloud, go to Emergency Lighting > Test History.

#### TRIDONIC



Once the Emergency Test History site is loaded, you can download the test results.



The following settings are optional, Start and end date. It is possible to select only duration test should be displayed, or function tests should be displayed, or errors should be displayed, or all results should be displayed.

## connecDIM Site Settings

Start Date: 02/11/2016   End Date: 09/11/2016   Filter: All   Duration Tests   Function Tests   Errors   Search

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

The data can be exported for all devices or only for failed devices.

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

all devices  
all devices  
failed devices

The format selected can be CSV or PDF.

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

CSV  
CSV  
PDF

If needed a header can be added.

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

with header  
with header  
without header

The Period can be selected from the drop down menu. The available options range from "two years" (maximum time frame) to "last three months" (minimum).

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

last two years  
last two years  
last year  
last six months  
last three months

Entries per page: 25   4   5   >   >>

The "show" parameter allows to select between "standard data" and "extended data".

Export: all devices   to: CSV   with header   Period: last two years   show: standard data   Export

standard data  
standard data  
extended data

If "standard data" is selected, the following data is included.

- \_ Site
- \_ IP Address
- \_ Gateway Name
- \_ Gateway MAC Address
- \_ Line Name
- \_ Line Number

## connecDIM Site Settings

- \_ Location
- \_ Address
- \_ Date
- \_ Test Type
- \_ Status
- \_ Event
- \_ Download Time

If "extended data" is selected, the following data is included.

- \_ Site
- \_ IP Address
- \_ Gateway Name
- \_ Gateway MAC Address
- \_ Line Name
- \_ Line Number
- \_ Location
- \_ Address
- \_ Model
- \_ DALI Group Names
- \_ DALI Group Numbers
- \_ Date
- \_ Test Type
- \_ Status
- \_ Event
- \_ DALI Emergency Mode
- \_ DALI Emergency Mode [hex]
- \_ DALI Emergency Status
- \_ DALI Emergency Status [hex]
- \_ DALI Emergency Failure Status
- \_ DALI Emergency Failure Status [hex]
- \_ Download Time

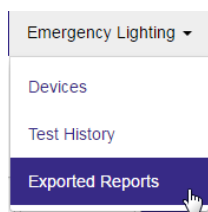
Once you have selected all data, you need to select Export. A new window will appear with a message that the report is being built and that you will receive a link via e-mail.

The report is being built; you will receive a link to download it when ready.  
Please check your email shortly.

OK

All created Emergency Reports are stored in the cloud and can be downloaded from the page Emergency Lighting > Exported Reports

## connecDIM Site Settings

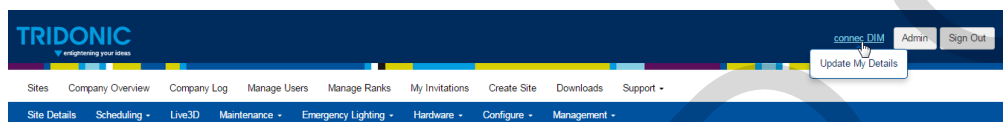


The following image shows an example of how your report may look like.

Annotation: extended data	IP Address	Gateway Name	Gateway MAC Address	Line Name	Line Number	Location	Address	Model	DALI Group Names	DALI Group Numbers	Date	Test Type	Status	Event
Techsales Live	192.168.0.51	Petar Live	001348028D62	Line one	1	Unknown	35	Unknown			09.11.2016 16:57	Communication Test	fail	Communication test fail
Techsales Live	192.168.0.51	Petar Live	001348028D62		1	Unknown	35	Unknown			08.11.2016 16:57	Communication Test	fail	Communication test fail
Techsales Live	192.168.0.51	Petar Live	001348028D62		1	Unknown	35	Unknown			07.11.2016 16:57	Communication Test	fail	Communication test fail
Techsales Live	192.168.0.51	Petar Live	001348028D62		1	Unknown	35	Unknown			06.11.2016 16:57	Communication Test	fail	Communication test fail

### 8.4.9. Sign Emergency test (only for Australia and New Zealand)

To create an official emergency test report, your account must have electrician status. To apply for electrician status, click on your name after signing into the cloud to access your user profile.



In your profile's settings there is the option to "Apply for Electrician Status". To complete this form, you will need your electrician license number and a scanned image of your license.

#### Update Details

Given Names

Surname

Email

Language

Electrical Licence Number

Save Changes

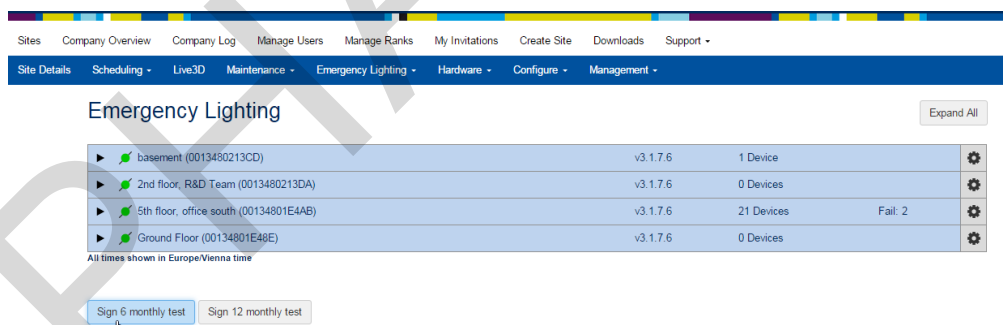
Reset

Electrical Licence Number

Save Changes

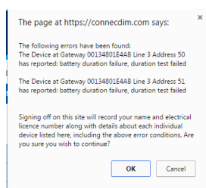
Reset

Once you apply for electrician status, one of the company admins must approve your request. Once your request receives approval, you will see the options "Sign 6 monthly test" or "Sign 12 monthly test" in the Emergency Lighting page.

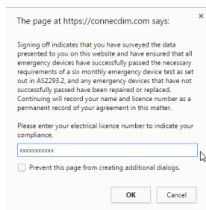


Once you have selected "Sign 6 monthly test" or "Sign 12 monthly test", you will be asked to confirm your selection.

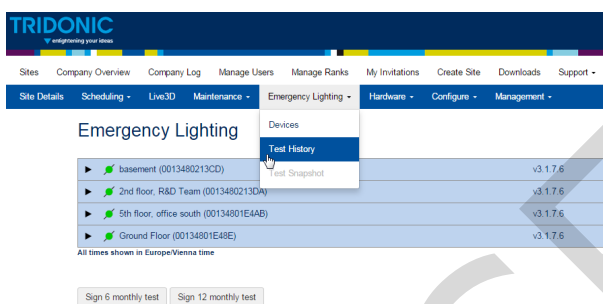
## connecDIM Site Settings



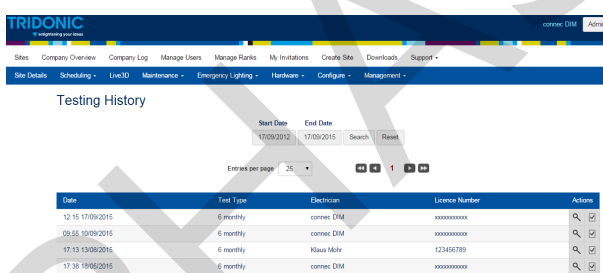
Once you have selected OK, you will have to fill in your electrical license number.



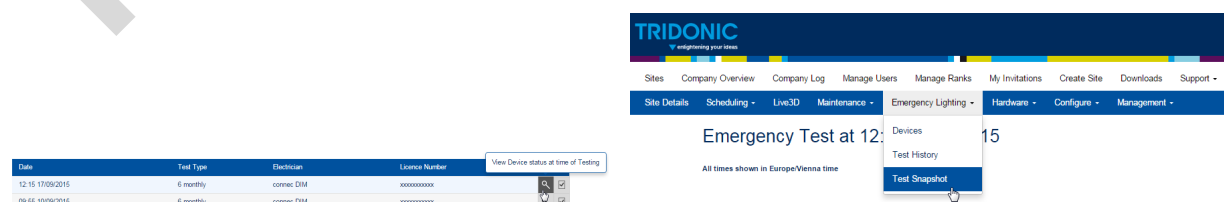
To see the test result, select Emergency Lighting > Test History.



Testing History shows all the previous tests.



Select view device status at time of testing. To see the test snapshot, you will be forwarded to Emergency Lighting > Test Snapshot.



## connecDIM Site Settings

For a test report, select print fire safety certificate.

Date	Test Type	Electrician	License Number	Print Fire Safety Certificate
12-15 17/09/2015	5 monthly	connec DIM	XXXXXXXXXX	
09-55 10/09/2015	6 monthly	connec DIM	XXXXXXXXXX	

The screenshot shows the TRIDONIC Final Interim Fire Safety Certificate form and the connecDIM user interface. The form is titled "TRIDONIC enlightening your ideas" and "Final Interim Fire Safety Certificate". It includes sections for "Certificate Details", "Certificate Issued", "Certificate Validity", "Identification of Building", and "Particulars of Building". The user interface on the right shows the "connec DIM" logo, navigation links, and a table of certificates.

Date	Test Type	Electrician	License Number	Actions
12-15 17/09/2015	5 monthly	connec DIM	XXXXXXXXXX	
09-55 10/09/2015	6 monthly	connec DIM	XXXXXXXXXX	

## connecDIM Site Settings

### 8.5. Hardware

#### 8.5.1. Devices

Select Hardware > Devices. You will see the Site Summary and the devices connected to your site.

	Emergency Devices	M-Sensors	Lights	Other	Total
On/Presence Detected	20	30	203	1	304
Failures	2	0	1	0	3
Predictive Warnings	16	9	129	2	156
Installed Units	22	48	519	2	591

Gateway	Version	Devices	Fail
Basement (0013480213CD)	v3.1.7.6	249 Devices	
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	154 Devices	
5th floor, office south (00134801E4AB)	v3.1.7.6	96 Devices	Fail: 3
Ground Floor (00134801E4AE)	v3.1.7.6	62 Devices	

To expand the gateway and see the devices connected, select the triangle.

Gateway	Version	Devices	Fail
Basement (0013480213CD)	v3.1.7.6	249 Devices	
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	154 Devices	
5th floor, office south (00134801E4AB)	v3.1.7.6	96 Devices	Fail: 3
Ground Floor (00134801E4AE)	v3.1.7.6	62 Devices	

Select the wrench symbol on the right to manage the gateway.

Gateway	Version	Devices	Fail
connectDIM G1 (0013480213CD)	v3.0.1-3	35 Devices	Fail: 1
DALI Line 1 (Line 1)		25 Devices	Fail: 1
Line 2		10 Devices	

Select the wrench symbol on the right to manage the line or to hide the line.

Gateway	Version	Devices	Fail
connectDIM G1 (0013480213CD)	v3.0.1-3	35 Devices	Fail: 1
DALI Line 1 (Line 1)		25 Devices	Fail: 1
Line 2		10 Devices	
Line 3		0 Devices	
Line 4		0 Devices	

Select the triangle on the left side to expand the line. You will see all the devices connected to the line.

Type	Location	Model	Dim Level	Presence	Lux	Energy Usage	Operating Data	Failure Status
DT8		Unknown	Off	4%	0			
DT1		Unknown	Off	0%	0			
DT1-DT5		Unknown	Off	4%	0			
MSensor_SDP_14		Unknown	Off	0%	0			

In the Devices menu the following information is displayed:

Address, Type (Device Type), Location, Model, Dim Level, Presence and Lux, Energy Usage O, Operating Data, Failure Status. By moving your mouse over the icons/fields you will get additional information.

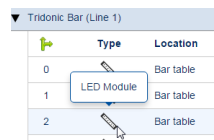
Address shows the DALI short address from the device.



## connecDIM Site Settings














DALI has multiple device types. Type shows the DALI Device type.



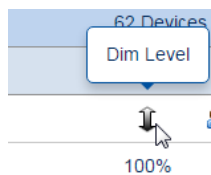
## connecDIM Site Settings

### 8.5.2. DALI Device Type Icons

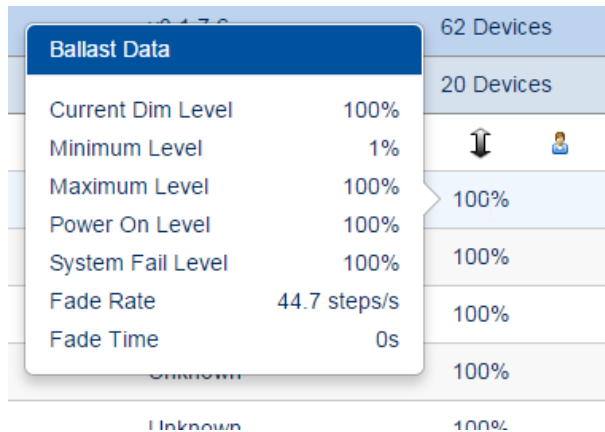
Icon	DALI Device Type
	1-10V Interface Converter
	Colour Control
	Dimmable Incandescent
	Downlight
	Emergency Device
	Fluorescent Ballast
	HID Lamp
	LED
	M-Sensor
	Sequencer
	Switching Function

Dim Level shows the actual dim level (intensity of light in percent)

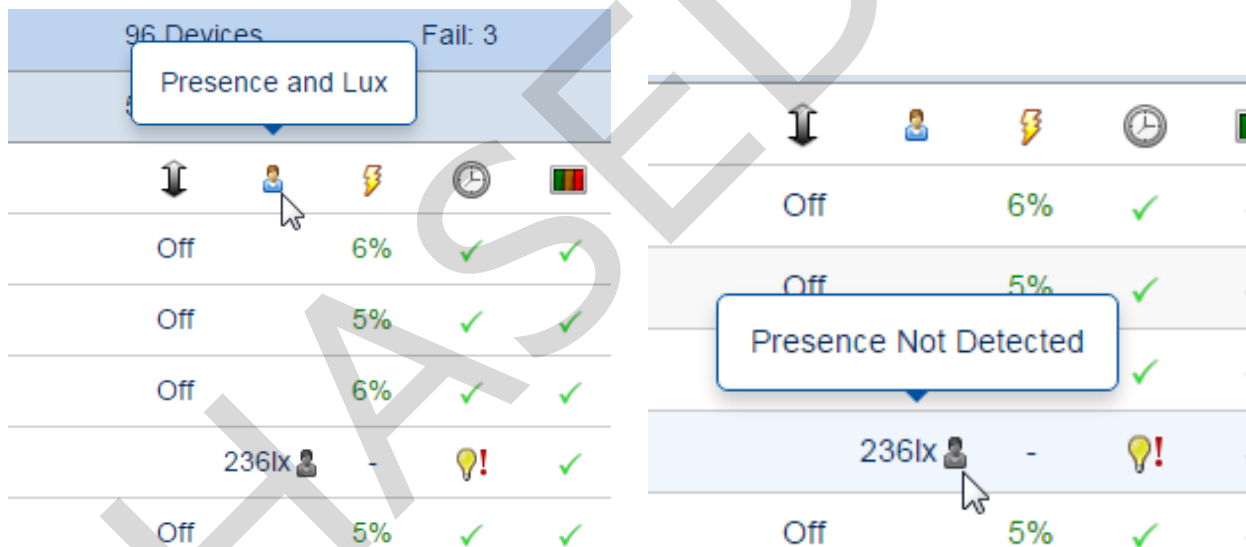
## connecDIM Site Settings



If you move your cursor over the Dim Level field also Ballast Data will be displayed.



Presence and Lux are displayed if an MSensor is installed.



Energy Usage Displays the energy usage compared to the Benchmark Device Wattage which can be set in Management > Site Settings - Energy Usage Default Settings.

## connecDIM Site Settings

The screenshot displays the 'connecDIM Site Settings' interface. At the top, there are two device lists, each showing '11 Devices'. A 'Load Energy' button is highlighted over the first list. Below these lists is an 'Actions' bar with various icons. The main table shows two rows of device data, both with a status of 'Off'. A pop-up window titled 'Energy Usage' is open, displaying 'Energy Status' and 'Monthly Performance' data.








Energy Status			
Current Power Usage	61.7W		
Device Wattage	61.7W		

Monthly Performance			
Benchmark Running Time	200h	22%	✓
Actual Running Time	21h	23%	✓
Benchmark Usage	12.34kWh	19%	✓
Actual Usage	2.69kWh	19%	✓
% of Benchmark Used	21.81%	19%	✓
Energy Saved	9.65kWh	19%	✓

Operating Data displays the operating data and the maintenance icons.













## connecDIM Site Settings

Operating Data		Fail: 3		
Total Operating Time	290h			
Lamp Replaced	-			
Ballast Replaced	-			
Days Active	177	✓	✓	
Strikes Per Day	3.8			
Total Strikes	668	✓	✓	
Bus Errors	0	✓	✓	
Firmware Version	509	✓	✓	
Last Updated	05:58 07/09/2015	✓	✓	

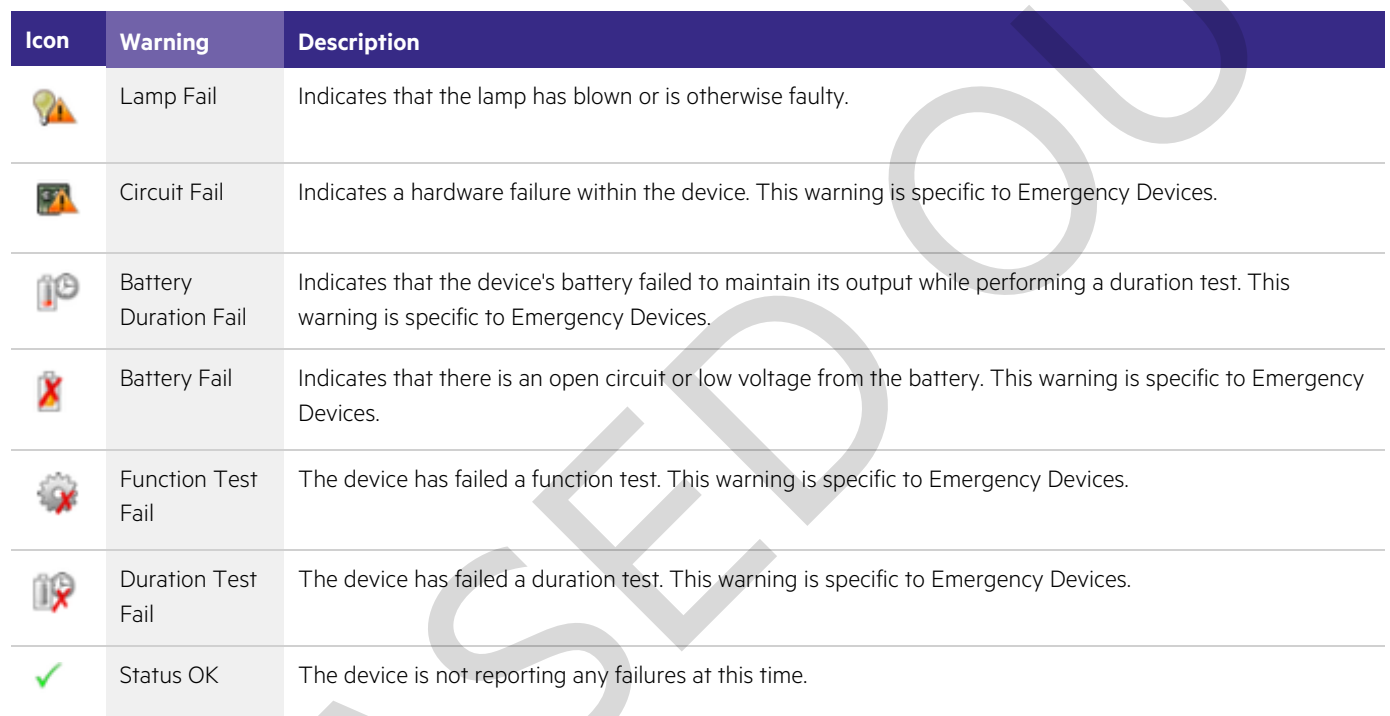
12 Devices	Operating Data
10 Devices	
100%	22%
✓	✓

## connecDIM Site Settings

### 8.5.3. Operating Data and Predictive Maintenance Icons

Icon	Warning	Description
	Power Failure Warning	The device has been without mains power within the time frame specified in the Predictive Maintenance Settings.
	Strike Count Limit Exceeded	This device has exceeded the strike count limit specified in the Predictive Maintenance Settings.
	Lamp Replacement Overdue	The device's lamp has not been replaced within the time frame specified in the Predictive Maintenance Settings.
	Battery Replacement Overdue	The device's battery has not been replaced within the time frame specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Ballast Replacement Overdue	The device's ballast has not been replaced within the time frame specified in the Predictive Maintenance Settings.
	Device Replacement Overdue	The device has not been replaced within the time frame specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Operating Limit Exceeded	This device has been functioning for longer than specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Battery Limit Exceeded	This device has been functioning on battery power for longer than specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Active Days Limit Exceeded	This device has been reported on more days than the time frame specified in the Predictive Maintenance Settings.
	Function Test Overdue	This device has not performed a function test within the period specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Duration Test Overdue	This device has not performed a duration test within the period specified in the Predictive Maintenance Settings. This warning is specific to Emergency Devices.
	Communication Lost	The device has not reported within the time frame specified in the Predictive Maintenance Settings.

Failure Status shows if there is an Failure of if the device status is OK

[View History](#)

▼ Ground Floor (00134801E48E)		v3.1.7.6		62 Devices			
▼ Tridonic Bar (Line 1)				20 Devices			
	↕	Type	Location	Model	⬇	👤	🔧
0		Bar table		Unknown	100%	22%	✓ ✓
1		Bar table		Unknown	100%	23%	✓ ✓

TRIDONIC

# connecDIM Site Settings

## Device History BETA

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model	
05:58:16 07/09/2015	Bar table	Unknown	Unknown	100% 18.24kWh
04:00:50 07/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh
17:02:38 04/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model	
05:58:16 07/09/2015	Bar table	Unknown	Unknown	100% 18.24kWh
04:00:50 07/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh
17:02:38 04/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model	
05:58:16 07/09/2015	Bar table	Unknown	Unknown	100% 18.24kWh
04:00:50 07/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh
17:02:38 04/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh

The Device History window allows you to download the history to a CSV or PDF file.

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model	
05:58:16 07/09/2015	Bar table	Unknown	Unknown	100% 18.24kWh
04:00:50 07/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh
17:02:38 04/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh

Also, it is possible to select if only the current page should be exported or all results.

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model	
05:58:16 07/09/2015	Bar table	Unknown	Unknown	100% 18.24kWh
04:00:50 07/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh
17:02:38 04/09/2015	Bar table	Unknown	Unknown	Off 18.24kWh

The time frame for the history files can also be selected by Start Time, Start Date - End Time and End Date



## connecDIM Site Settings

### Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

Entries per page 25

Time	Type	Location	Model
00:00:15	Bar table	Unknown	100% 18.24kWh
04:00:50	Bar table	Unknown	Off 18.24kWh

To get back to the Device overview you have to select Hardware > Devices

Ground Floor - Tridonic Bar - Bar table

Start Time Start Date End Time End Date  
00:00 18/08/2015 23:59 15/09/2015 Search Reset

Export current page to CSV with header Export

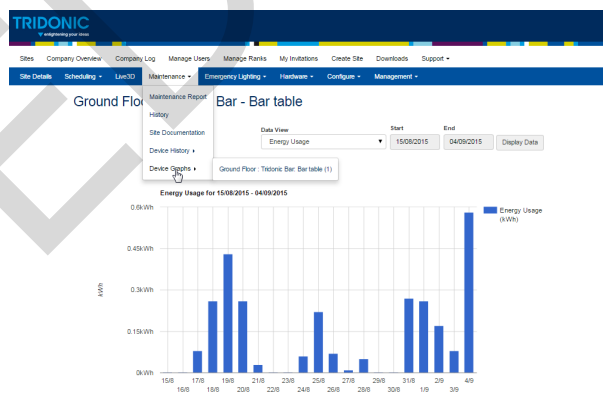
Entries per page 25

Time	Type	Location	Model
00:00:15	Bar table	Unknown	100% 18.24kWh
04:00:50	Bar table	Unknown	Off 18.24kWh

### View Graph

By selecting View Graph in the actions field you will be forwarded to Maintenance > Device Graphs.

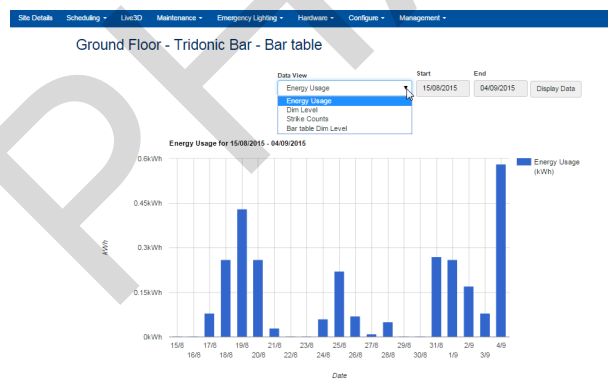
### Device Graph BETA



### Devices

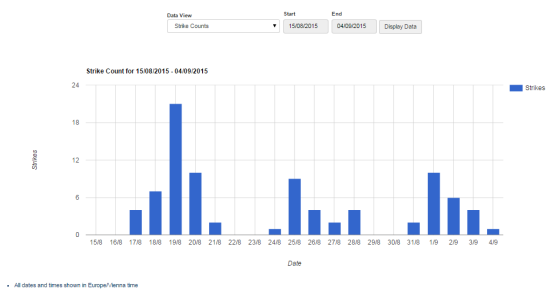
Type	Location	Model	100%	22%	23%	10%	View Graph
0	Bar table	Unknown	100%	22%	23%	10%	View Graph
1	Bar table	Unknown	100%	23%	10%	10%	View Graph
2	Bar table	Unknown	100%	10%	10%	10%	View Graph

Data like Energy Usage, Dim Level, Strike counts and Dim Level for the whole group (if the device is assigned to a DALI group)



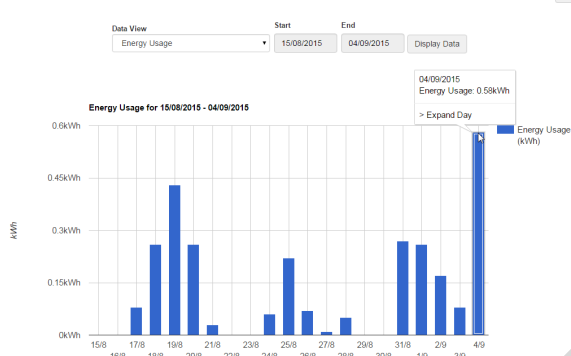
## connecDIM Site Settings

Ground Floor - Tridonic Bar - Bar table



It is possible to select the time frame which should be shown in the overview, if you have selected several days you can easily expand the day by selecting expand day.

Ground Floor - Tridonic Bar - Bar table



Once you have expanded the day you can easily compare e.g. Energy Usage vs Dimlevel. If you would like to switch from Dim Level back to Energy Usage you only need to change the field Data View and then select Display Data.

Ground Floor - Tridonic Bar - Bar table

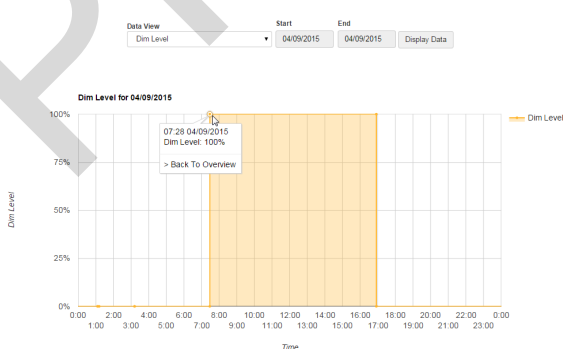


Ground Floor - Tridonic Bar - Bar table

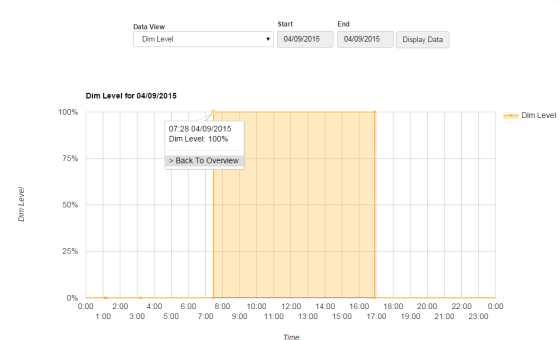


To get back to the overview, just select one of the points in the graph and then select Back To Overview.

Ground Floor - Tridonic Bar - Bar table

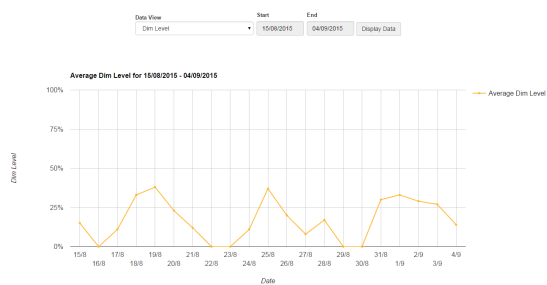


Ground Floor - Tridonic Bar - Bar table

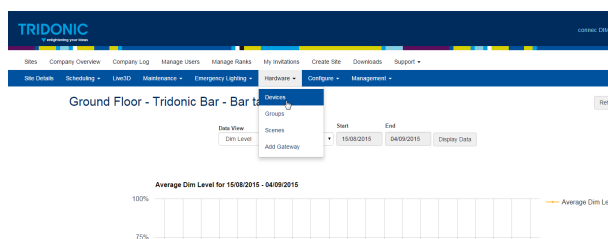


## connecDIM Site Settings

Ground Floor - Tridonic Bar - Bar table



To get back to the Device overview select Hardware/Devices



### Manage Device

Select Manage Device to Edit Details, Replace Lamp, Replace Ballast, Hide Device or Delete Device.

▼ Petar Live_new3 (001348028D62) v3.6.3.2 17 Devices Fail: 1				Manage Device	
▼ Line 1 8 Devices				Edit Details	
0	Type	Location	Model	100%	✓
1	Unknown	Unknown	Unknown	280lx	✓
2	Unknown	Unknown	Unknown	100%	✓
3	Unknown	Unknown	Unknown	100%	✓
4	DGC	Unknown	Off	-	✓
5	Unknown	Unknown	Unknown	100%	✓
6	Unknown	Unknown	Unknown	100%	✓

### Edit Details

Editing Ground Floor (00134801E48E): Tridonic Bar (Line 1): Bar table (0)

Location

Bar table

Model

Unknown

Total Wattage ?

61.7W inherited from site

Benchmark Wattage ?

61.7W inherited from site

Benchmark Hours/month ?

200h inherited from site

Save

Cancel

Edit Details

Replace Lamp

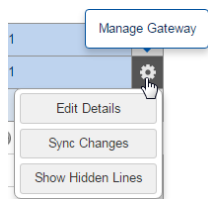
Replace Ballast

Hide Device

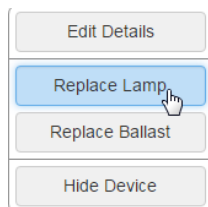
### Synch Changes

Information filled in in the location field will be displayed in the connecDIMLite App. Once those information is changed, it is necessary to select synch Changes in the manage gateway window. By synching the changes this information will be stored to the connecDIM gateway hard drive, so those information will be available even the gateway isn't connected to the cloud.

## connecDIM Site Settings



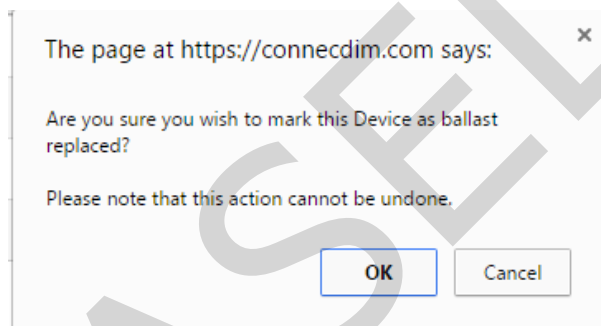
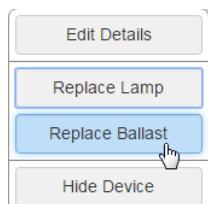
### Replace Lamp



#### **i** NOTICE

The **Replace Lamp** command will not reset the hours stored on the physical device. It will create a time stamp in the operating data so it is visible that the unit was replaced and the Strikes per day counter will be reset to = 0

### Replace Ballast

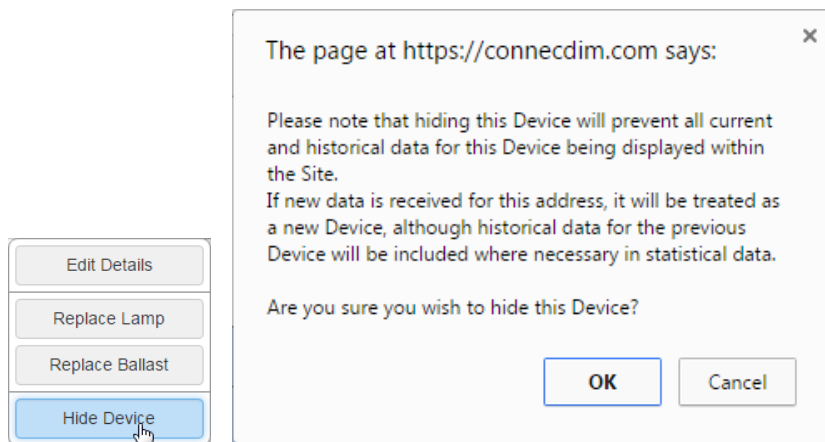


#### **i** NOTICE

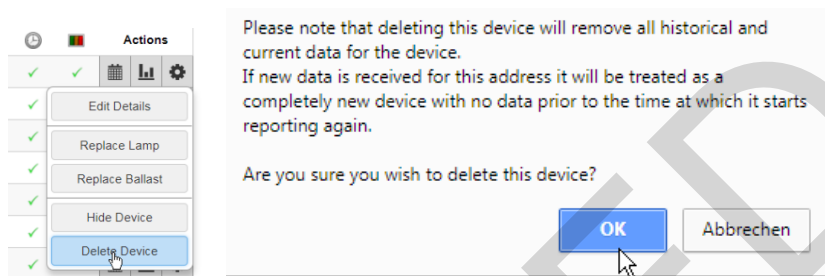
The **Replace Ballast** command will not reset the values stored on the physical device. It will create a time stamp in the operating data so it is visible that the unit was replaced and the Active Days, Operating Time will be set to = 0

## connecDIM Site Settings

### Hide Device

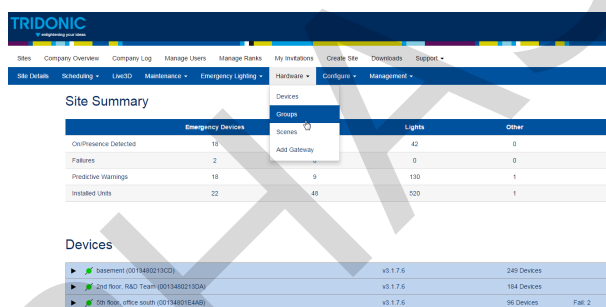


### Delete Device

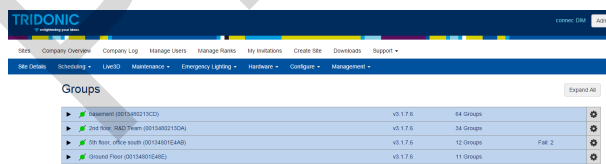


## 8.5.5. Groups

### Select Hardware > Groups

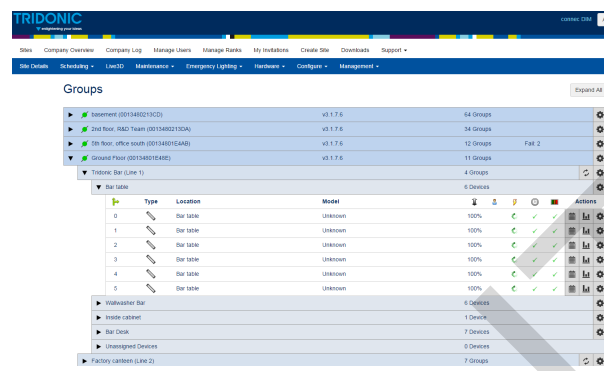
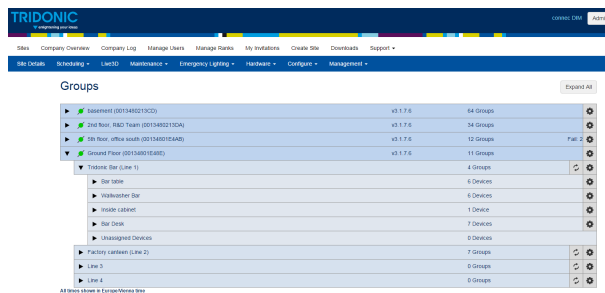


This will give you an overview of all DALI groups created for your site.



It is possible to Manage Gateways/Lines or Devices Details. An addition to the Device window (Hardware/Devices) is that Group Details can also be managed.

## connecDIM Site Settings



### Edit Group Details

**Location** **Area (m²)**

Bar table 0

**Device Wattage** **Benchmark Wattage**

61.7W inherited from site 61.7W inherited from site

**Benchmark Hours per month**

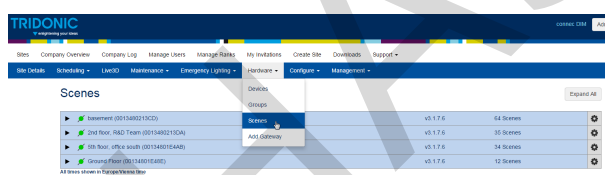
200h inherited from site

Save Cancel

### 8.5.6. Scenes

Select Hardware > Scenes.

This window shows the overview of the programmed scenes for the different DALI Lines. An addition to the device window (Hardware/Devices) is that Scene Details can also be managed.



### Edit Scene Details

**Name**

Show

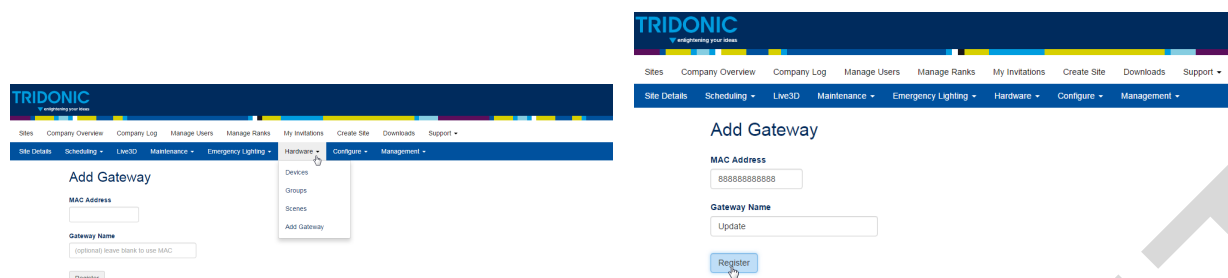
Save Cancel

### 8.5.7. Add Gateway

Select Hardware > Add Gateway

In this window you can add additional gateways to your existing site. Type the MAC address and the gateway name in and select Register.

## connecDIM Site Settings



### 8.6. Update Gateway Firmware

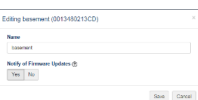
Select Hardware > devices > manage gateway



Select Edit Details.



Select Yes for Notify of firmware Updates.



As soon as a firmware update is available it will be notified on the Device page.



The firmware can be updated by clicking on the triangle with the call sign or by selecting the gear symbol on the right side.

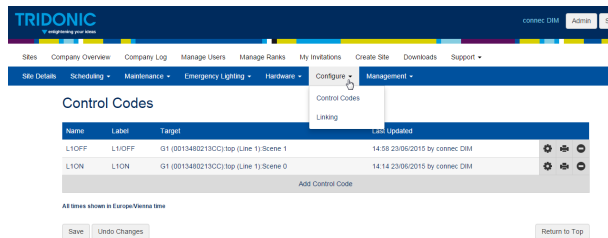
If the gear symbol on the right side is selected a new window will appear with the option Update Firmware. By selecting this option the Firmware will also be updated.



## connecDIM Site Settings

### 8.7. connecDIM Configure

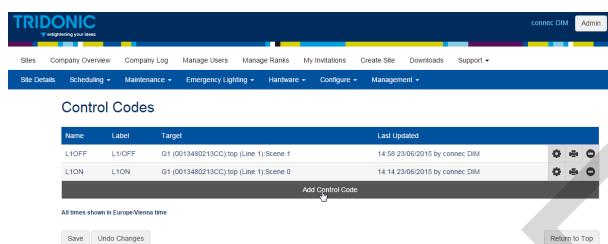
Configure window displays Control Codes and Linking



#### 8.7.1. Control Codes

Select Configure > Control Codes to reach the control code window. In this window you can create QR codes which can be scanned by the connecDIMLite app and allowing you to control your light without switches.

Select add control code



In the new window you can enter the name and label. You have to select the GW and Line and then you can select the command which should be send when the QR Code is scanned.

Once you have made your settings select Save.

Existing control codes can be edited, printed and removed



## connecDIM Site Settings

### Control Codes

Name	Label	Target	Last Updated	
L1OFF	L1OFF	G1 (00134802130C) top (Line 1) Scene 1	14:58 23/06/2015 by connec DIM	
L1ON	L1ON	G1 (00134802130C) top (Line 1) Scene 0	14:14 23/06/2015 by connec DIM	
G1/L2 Scene 0	Office ON	G1 (00134802130C) bottom (Line 2) Scene 0		

Add Control Code

### Control Codes

Name	Label	Target	Last Updated	
L1OFF	L1OFF	G1 (00134802130C) top (Line 1) Scene 1	14:58 23/06/2015 by connec DIM	
L1ON	L1ON	G1 (00134802130C) top (Line 1) Scene 0	14:14 23/06/2015 by connec DIM	
G1/L2 Scene 0	Office ON	G1 (00134802130C) bottom (Line 2) Scene 0		

Add Control Code

### Control Codes

Name	Label	Target	Last Updated	
L1OFF	L1OFF	G1 (00134802130C) top (Line 1) Scene 1	14:58 23/06/2015 by connec DIM	
L1ON	L1ON	G1 (00134802130C) top (Line 1) Scene 0	14:14 23/06/2015 by connec DIM	
G1/L2 Scene 0	Office ON	G1 (00134802130C) bottom (Line 2) Scene 0		

Add Control Code

### CAUTION!

If the gateway is locked, the control codes will work only for registered site users.

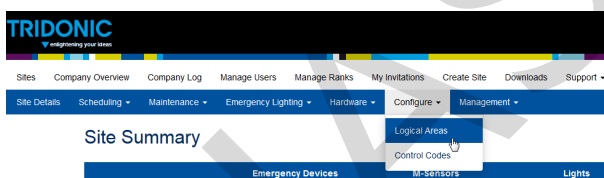
## 8.7.2. Logical Areas

Select Configure > Logical Areas. Logical Areas are allowing you to create "virtual groups" which can be spread over several gateways and DALI Lines.

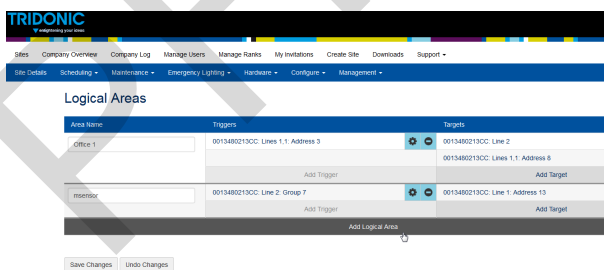
connecDIM makes it possible to control buildings in spaces (e.g. rooms, levels) without having to know DALI.

Opportunities offered by logical areas:

- \_ Be controlled with one Tridonic DALI device
- \_ Provide an energy graph over larger space
- \_ Email report on failures and warnings
- \_ Can be scheduled
- \_ Can be restricted to a System Administrator

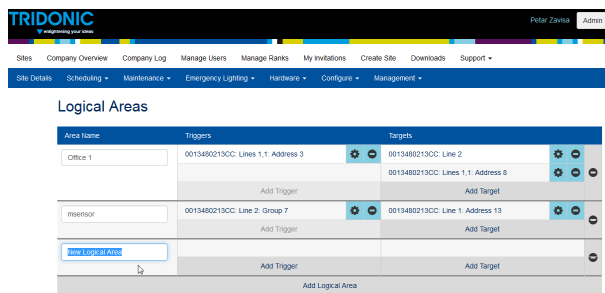


Select add logical area.

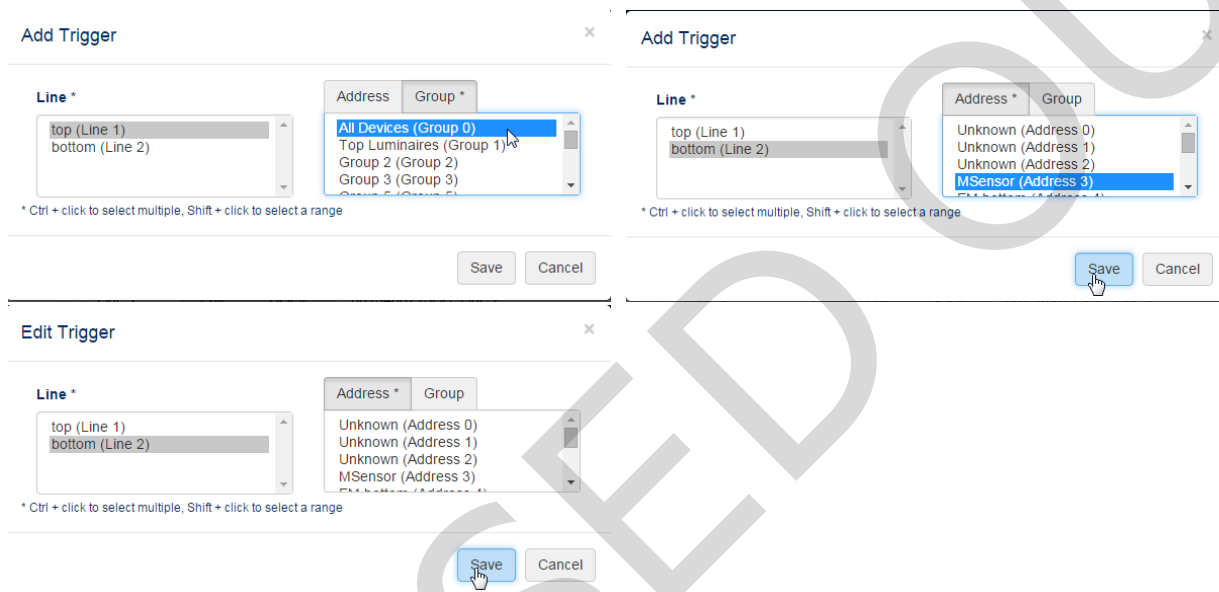


Type in a name for the logical area.

## connecDIM Site Settings



Select add trigger. A trigger can be a DALI line, group or device. Each command send to the trigger e.g. OFF by a DALI XC will be monitored by connecDIM system and forwarded to the target. Only one DALI line, group or device can be selected as a trigger.



Select add target. Several DALI lines, groups or devices can be selected as a target.

It is also possible to create a Logical Area without a trigger. This is useful if a Logical Area is used for email alerts or energy performance monitoring. This avoids the risk of large areas being triggered accidentally.

## connecDIM Site Settings

### NOTICE

To avoid or minimize delay times between the sending of a command to the trigger and the time it reaches all targets, consider the following instructions:

- \_ Do not put trigger and targets on the same DALI line. A setup like this (for example: Trigger of logical area is group 1 on line 1 of gateway 1, target is group 3 on line 1 of gateway 1) would lead to delays. If you need such a setup, create an additional group where the devices of group 1 and group 3 are in. This way, you also do not need to create a logical area.
- \_ Do not use too many targets. A setup like this (for example: Trigger is group 1 on line 1 of gateway 1, targets are group 1, group 2 and group 3 of line 2 of gateway 1) would lead to delays because of the time it takes until all targets have received the command sent to the trigger. To reduce the number of targets, create an additional group on line 2 of gateway 1 (group 4 for example), add the devices of group 1, 2 and 3 to this group and then only use this group 4 as a target.
- \_ Do not send too many DALI commands over a logical area. If you use MSensor for daylight regulation or Light Over Time functions and send more than one DALI command per 5 seconds over a logical area, there might be delays because of the time it takes until a DALI command has reached all targets. If you use more than one logical area also make sure that the total number of commands sent over all logical areas together is below one per 5 seconds.
- \_ Delays can also be caused by traffic on separate DALI lines. If the tips above do not improve the situation, try to reduce traffic on the single DALI lines.

### Hop count for Logical Areas

In Logical Areas only one hop is allowed to prevent infinite linking loops.

E.g. 2 Logical Areas are created. Logical Area one with trigger Line 1 and target Line 2 and Logical Area two with trigger Line 2 and target Line 1. Without the hop count this would end in an infinite loop. But because of the hop count if e.g. Logical Area one is triggered the command will be sent to Line 2 but Logical Area 2 will not be triggered.

### Supported commands for logical areas

The following commands sent to the trigger will be forwarded to the target.

- \_ ENABLE DEVICE TYPE X
- \_ DIRECT ARC POWER
- \_ DATA TRANSFER REGISTER (DTR)
- \_ DATA TRANSFER REGISTER 1 (DTR1)
- \_ STORE DTR AS FADE TIME
- \_ OFF
- \_ UP
- \_ DOWN
- \_ STEP UP
- \_ STEP DOWN
- \_ RECALL MAX LEVEL
- \_ RECALL MIN LEVEL
- \_ STEP DOWN AND OFF
- \_ ON AND STEP UP

## connecDIM Site Settings

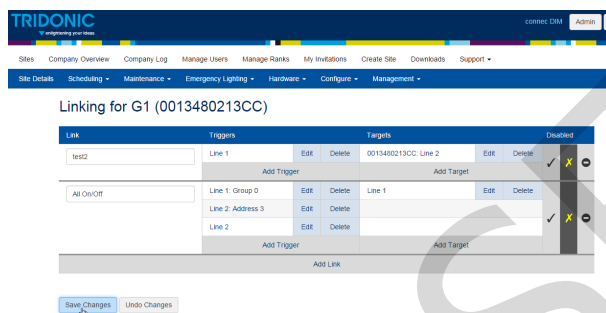
- \_ GO TO SCENE (0-15)
- \_ Color:
- \_ SET TEMPORARY COLOUR TEMPERATURE Tc
- \_ SET TEMPORARY x-COORDINATE
- \_ SET TEMPORARY y-COORDINATE
- \_ ACTIVATE
- \_ ED:
- \_ Presence Event (send by MSensor)

### CAUTION!

If MSensors are used for light regulation in a Logical Area the control speed should be set to low. This will reduce the risk of delays in the Logical Area.

Also the shallow and medium scan can cause delays. For more details refer to [Shallow and Medium Scan](#), S. 87.

Once you have made your settings select save changes.



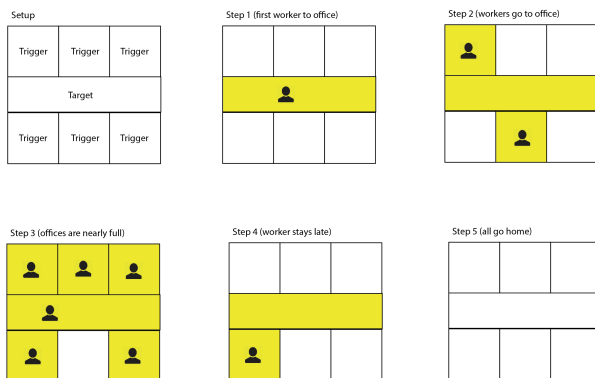
Logical areas can be enabled/disabled or deleted.



## connecDIM Site Settings

### 8.7.3. MSensor linking support

Since the update in October 2016 it is possible to use MSensor and link the motion detection. This feature allows you to have the light in the corridor of a building switched on as long there is motion in any other room.

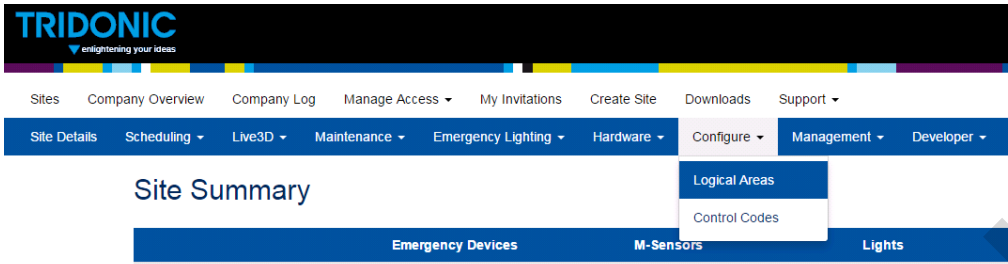
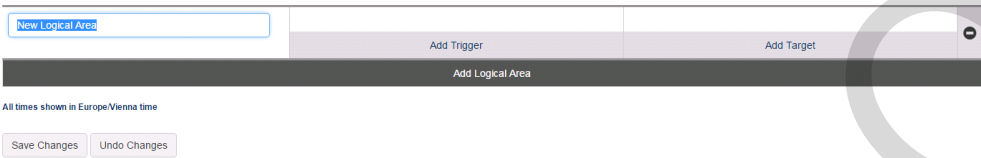

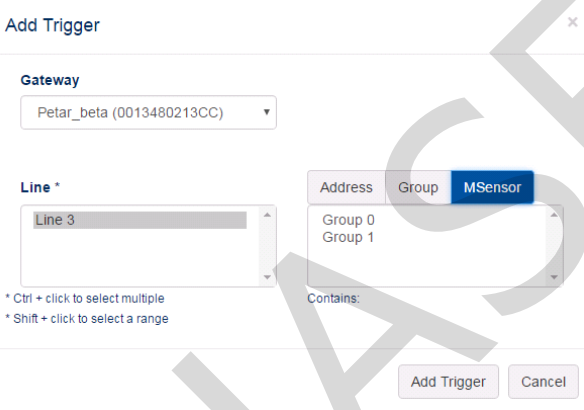
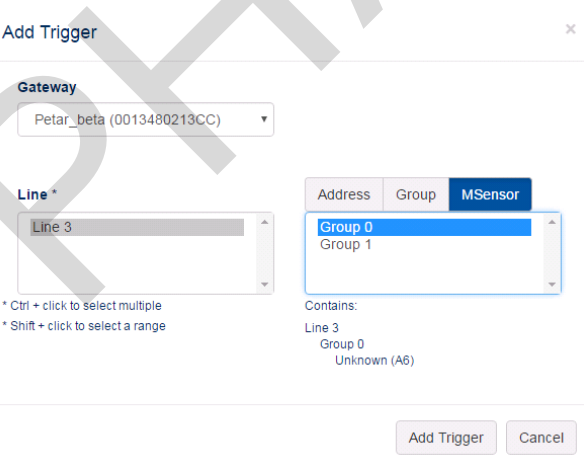


#### **⚠ CAUTION!**

This Feature can only be programmed via the connecDIM cloud but not via the connecDIM apps.

## connecDIM Site Settings

### How to

Image	Description
	<p>Go to Configure / Logical Areas</p>
	<p>Select Add Logical Area</p> <p>Fill in a name for this Logical Area</p>
	<p>Select Add Trigger</p>
	<p>Select the GW and line where the Trigger MSensor is located.</p> <p>Select MSensor</p>
	<p>Select the Group where the Trigger MSensor is located.</p> <p>In this case its GO</p> <p>You will see a list with MSensor located in this group.</p> <p>In this case MSensor with A6 is located in this group.</p>

## connecDIM Site Settings

### Add Trigger

**Gateway**  
Petar\_beta (0013480213CC)

**Line \***  
Line 3

\* Ctrl + click to select multiple  
\* Shift + click to select a range

Address	Group	MSensor
Group 0		
Group 1		

Contains:  
Line 3  
Group 0  
Unknown (A6)

Add Trigger Cancel

Select add Trigger.

This will save the settings for the Trigger.

M-Sensor Linking

0013480213CC: Line 3: MSensor Group 0

Add Trigger

Add Target

Add Logical Area

In the next step it is necessary to select the Target.

Select Add Target

### Add Target

**Gateway**  
Petar\_beta (0013480213CC)

**Line \***  
Line 3

\* Ctrl + click to select multiple  
\* Shift + click to select a range

Address	Group	MSensor
Group 0		
Group 1		

Contains:  
Line 3  
Group 1  
Unknown (A7)

Add Target Cancel

Select the GW and Line where the MSensor is located which should be the Target.

Select MSensor, select the Group in which the target MSensor is located.

Once you have selected the Target Msensor select Add Target to save the settings.

M-Sensor Linking

0013480213CC: Line 3: MSensor Group 0

0013480213CC: Line 3: MSensor Group 1

Add Trigger

Add Target

Add Logical Area

All times shown in Europe/Vienna time

Save Changes Undo Changes

Once you have programmed your MSensor Linking select Save Changes.

In this case every motion detected in G0 will be forwarded to G1.

This means as long G0 is occupied Lights in G1 will also stay switched on even there is nobody detected in this area.

### FAQ MSensor Linking

Q: How many Triggers / Targets are allowed?

A: There is no limit defined.

## connecDIM Site Settings

Q: can I use a Trigger / Target from a different Line or Gateway?

A: Yes.

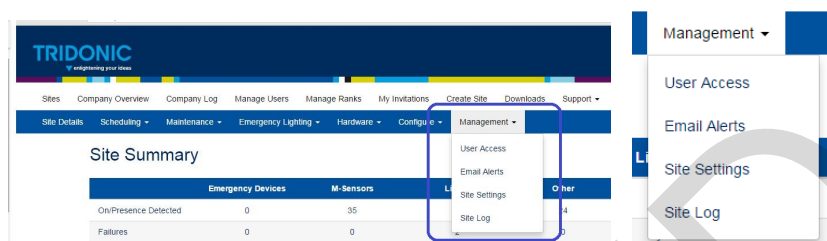
Q: My ambient Light regulation is active, will those commands also be forwarded?

A: If you are using this feature no. If you would like to have the light regulation also forwarded you need to create a Logical Area.

## 8.8. Management

You are logged in and have selected the site you would like to view.

- Select Management in the following menu. You can select User Access, Email Alerts, Site Settings and Site Log.

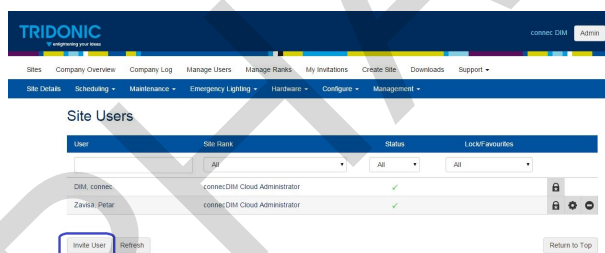


## 8.9. User Access BETA

### 8.9.1. Invite User

The Site Users page gives you an overview of all users who are invited to your site.

It is possible to invite new users by selecting the field Invite User Invite User



Once selected you can select Company User or Other User.

If the user is already registered as a company user, select the user you would like to add to this site. Then you can select the Site Rank (more details about ranks can be found in the section [Company Rank Icons](#), S. 14).



## connecDIM Site Settings

The 'Invite User' dialog box contains the following fields and options:

- Company User / Other User:** Toggle buttons at the top.
- User:** A dropdown menu. In the second screenshot, the list includes 'Select a user', 'Ales Rehar', 'Barth Volker' (highlighted), and 'connecDIM Cloud User'.
- Site Rank:** A dropdown menu. In the third screenshot, the list includes 'connecDIM Cloud User' (highlighted), 'connecDIM Cloud Administrator', and 'connecDIM Cloud User'.
- Invitation Expiry:** A date input field. In the third screenshot, a calendar for October 2015 is shown with the date 12/10/2015 selected.
- Buttons:** 'Send Invite' and 'Cancel' at the bottom right.

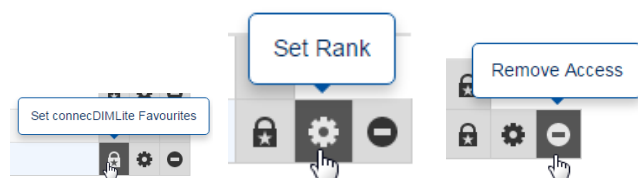
If the user isn't an registered company user, select the field Other User . Now you need to type in the Email address from the user you would like to invite. Also you can select the site rank and when the invitation should expire.

### NOTICE

Important: the user needs to register to [connecDIM.com](https://connecDIM.com) to be able to get access to your site.

## connecDIM Site Settings

Once you have invited all users you can use Set connecDIMLite Favorites, Set Ranks and also Remove Access.



### 8.9.2. Set connecDIMLite Favorites

In the section set connecDIMLite Favorites you can predefine the favorites for each user.

Two options are available. Lock UI YES and NO.

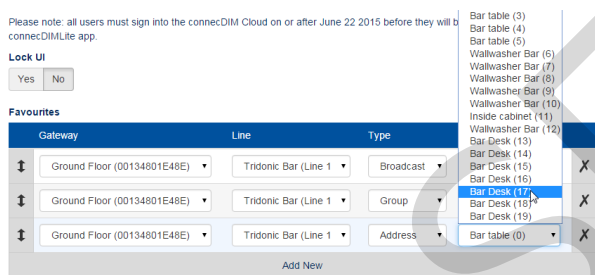
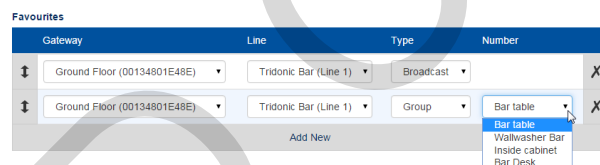
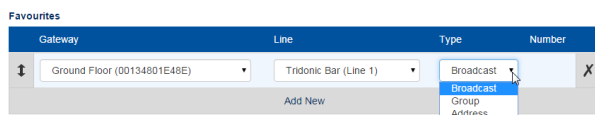
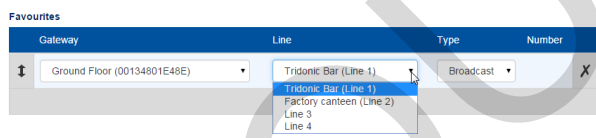
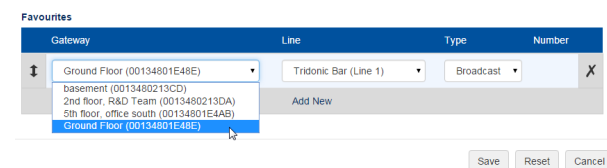
Setting Lock UI to yes will prevent users from creating their own favourites and will force them to use the predefined favourites.

Setting Lock UI to no will allow users to create their own favourites. Predefined favourites will not be visible in the connecDIMLite app.

## connecDIM Site Settings

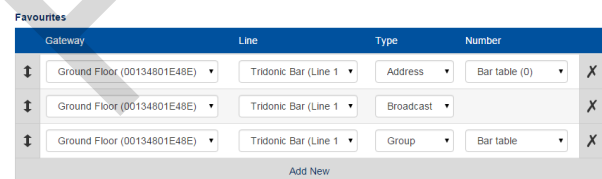
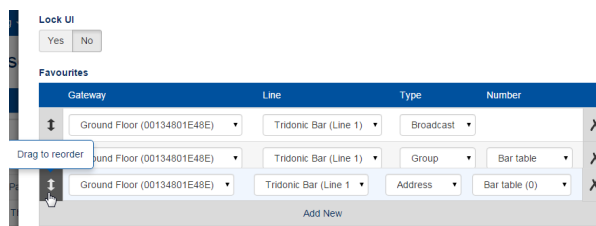


To add predefined favourites you have to select the gateway, line, type (Broadcast = the whole DALI line, Group = predefined group of luminaires or Address = one specific luminaire)



Drag to reorder

Once you have added all favourites, you can also reorder the favourites by selecting the field Drag to reorder



Remove favourite

Also, it is possible to delete/remove favourites

## connecDIM Site Settings

**Favourites**

Gateway	Line	Type	Number
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Address	Bar table (0)
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Broadcast	
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Group	Bar table

Buttons: Add New, Remove favourite, Save, Reset, Cancel

Once you have added all the favourites you need to select Save

The Site User page gives you an overview of all the site users and it shows if they have favourites defined and if their UI is locked.

### NOTICE

Important: Keep in mind that the user will see his favourites in the connecDIMLite app only if you lock the UI.

User	Favourites defined	UI locked
User 1	Yes (star icon)	No
User 2	Yes (star icon)	Yes (padlock icon)

### Set Ranks

There are three default ranks predefined for the connecDIM cloud: Administrator, User and app user.

It is possible to create additional ranks (for more details see section [Site Rank Icons](#), S. 15).

In the Set Ranks window you can change the site rank e.g. change a user's rank from administrator to user.

**Set Rank**

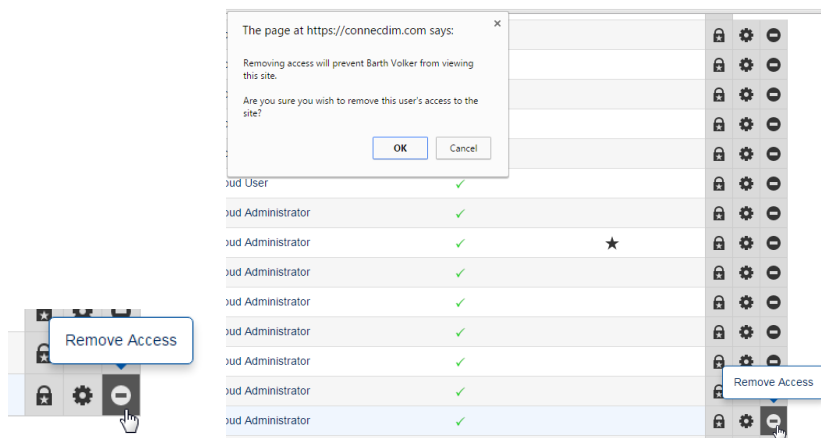
Site Rank

- connecDIM Cloud Administrator
- connecDIM Cloud User
- 1. Edit Site Details
- 11. Manage Linking
- 12. manage Email Alerts
- 13. View Documentation
- 14. View and manage documentation
- 2. Manage Site Log
- 3. Manage Site Users
- 4. Manage Settings

## connecDIM Site Settings

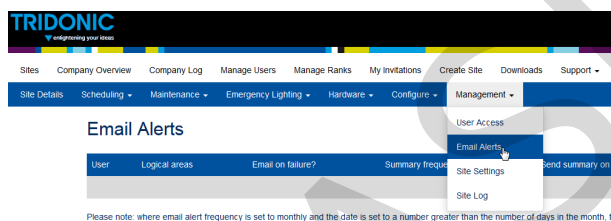
### Remove Access

In the remove access window you can remove an existing user. Once you have selected Remove Access, a pop up window will open and ask you if you are sure to do this. Confirm this by selecting the field OK or decline this by selecting the field Cancel.

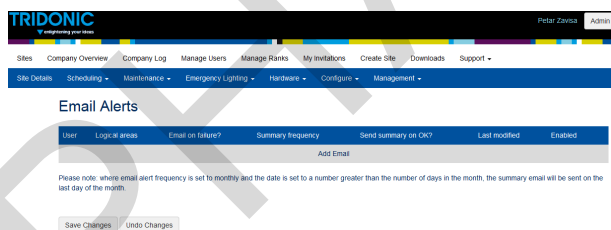


### 8.10. Email Alerts <sup>BETA</sup>

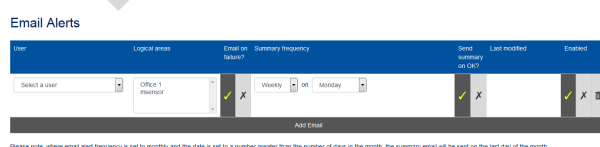
Select Email Alerts in the Management drop down menu.



Select Add Email to setup Email Alerts.



Select the user who will receive an email and the logical areas which should be reported.



## connecDIM Site Settings

You can select if an email will be sent as soon as a failure is detected or if only summaries will be sent. The summary frequency can be selected weekly or monthly. For weekly, you can select the day of the week when the mail should be sent and for monthly you can select the date.

### Email Alerts

The screenshot shows the 'Email Alerts' configuration window. The 'Email on failure?' dropdown is set to 'Only scheduled summary emails will be sent'. The 'Summary frequency' is set to 'Monthly' and the 'on day' is set to '1'. The 'Send summary on OK?' checkbox is checked. The 'Last modified' and 'Enabled' columns show 'X' marks. A note at the bottom states: 'Please note: where email alert frequency is set to monthly and the date is set to a number greater than the number of days in the month, the summary email will be sent on the last day of the month.'

### Email Alerts

The screenshot shows the 'Email Alerts' configuration window. The 'Email on failure?' dropdown is set to 'A warning email will be sent whenever a failure is detected'. The 'Summary frequency' is set to 'Weekly' and the 'on' day is set to 'Monday'. The 'Send summary on OK?' checkbox is checked. The 'Last modified' and 'Enabled' columns show 'X' marks. A note at the bottom states: 'Please note: where email alert frequency is set to monthly and the date is set to a number greater than the number of days in the month, the summary email will be sent on the last day of the month.'

You can select if summary emails should also be sent if everything is ok.

### Email Alerts

The screenshot shows the 'Email Alerts' configuration window. The 'Email on failure?' dropdown is set to 'Summary emails will be sent when there are no problems to report'. The 'Summary frequency' is set to 'Monthly' and the 'on day' is set to '1'. The 'Send summary on OK?' checkbox is checked. The 'Last modified' and 'Enabled' columns show 'X' marks. A note at the bottom states: 'Please note: where email alert frequency is set to monthly and the date is set to a number greater than the number of days in the month, the summary email will be sent on the last day of the month.'

### Email Alerts

The screenshot shows the 'Email Alerts' configuration window. The 'Email on failure?' dropdown is set to 'Summary emails will only be sent if there are problems to report'. The 'Summary frequency' is set to 'Monthly' and the 'on day' is set to '1'. The 'Send summary on OK?' checkbox is checked. The 'Last modified' and 'Enabled' columns show 'X' marks. A note at the bottom states: 'Please note: where email alert frequency is set to monthly and the date is set to a number greater than the number of days in the month, the summary email will be sent on the last day of the month.'

Once you have set all the Email Alerts, select **Save Changes**.

Save Changes

### Email Alerts

The screenshot shows the 'Email Alerts' configuration window with the 'Save Changes' button highlighted. The 'Email on failure?' dropdown is set to 'Only scheduled summary emails will be sent'. The 'Summary frequency' is set to 'Monthly' and the 'on day' is set to '1'. The 'Send summary on OK?' checkbox is checked. The 'Last modified' and 'Enabled' columns show 'X' marks. A note at the bottom states: 'Please note: where email alert frequency is set to monthly and the date is set to a number greater than the number of days in the month, the summary email will be sent on the last day of the month.'

## 8.10.1. Email Alert Warning Types

### Lamp Failure

This warning type is displayed if a device has reported a lamp failure.

The value is retrieved from DALI using the QUERY STATUS and/or the QUERY LAMP FAILURE commands, and is the equivalent of a Lamp Failed error in the cloud.

#### NOTICE

The same warning type is also displayed if the connected load is not within the operating window of the LED Driver and the LED Driver is dimmed below the operating window.

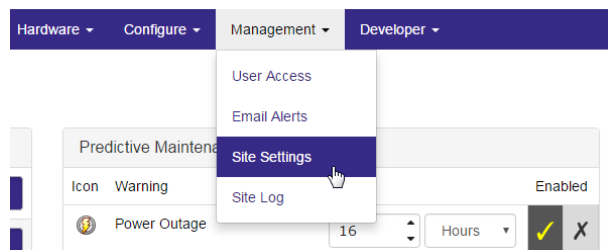
If this happens, the light would typically switch off but in some cases it is possible that the light stays on.

## connecDIM Site Settings

### Power Outage

This warning type is displayed if an emergency device has suffered a blackout within a specific time frame.

The time frame is the equivalent of a Last Power Outage warning in the cloud and is set at Management > Site Settings, table “Predictive Maintenance Warnings”, menu “Power Outage value”.



**NOTICE**

connecDIM will monitor a power recovery only if the connecDIM gateway and its components are powered during the blackout. Also, it is necessary that a shallow or medium scan is active during the blackout. The reason for this, is that the Power Outage information depends on the emergency mode status of the device. The emergency mode status changes depending on whether mains is available or not. If the shallow or medium scan was active and did monitor the blackout, the information will be stored in the device history table and will be visualized with a bell symbol.

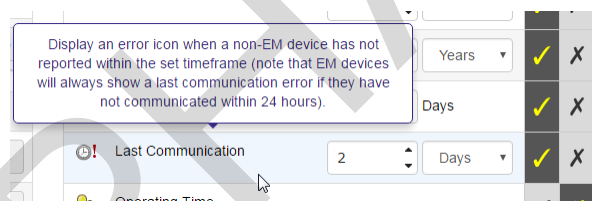
Time	Type	Location	Model	Status	Energy	Emergency Mode	Icons
12:52 27/8/2018	Unknown	Unknown	EM powerLED 1W PRO EZ-3 - Screw-fix	Off	0.00Wh		[Icons]
12:48 27/8/2018	Unknown	Unknown	EM powerLED 1W PRO EZ-3 - Screw-fix	Off	0.00Wh		[Icons]
12:46 27/8/2018	Unknown	Unknown	EM powerLED 1W PRO EZ-3 - Screw-fix	MASK	0.00Wh		[Icons]
12:10 27/8/2018	Unknown	Unknown	EM powerLED 1W PRO EZ-3 - Screw-fix	Off	0.00Wh		[Icons]

This feature is only valid for Emergency (Device Type 1) Devices. Other Dali Devices do not support this feature.

### Communication Failure

This warning type is displayed if a device has not reported within the defined time frame.

The time frame is defined at Management > Site Settings, table “Predictive Maintenance Warnings”, menu “Last Communication value”.



### Thermal Overload

This warning type is displayed if an LED device has suffered a thermal overload.

The value is retrieved from DALI using the QUERY THERMAL OVERLOAD command.

### Thermal Shutdown

This warning type is displayed if an LED device was shutdown due to continuous thermal overload.

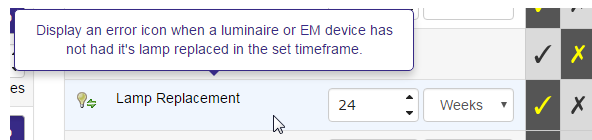
The value is retrieved from DALI using the QUERY THERMAL SHUTDOWN command.

## connecDIM Site Settings

### Lamp Replaced

This warning type is displayed if a lamp has not been replaced within the set time frame for lamp replacement.

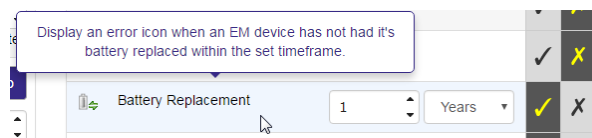
The time frame is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Lamp Replacement value" and is the equivalent of a Lamp Replaced warning in the cloud.



### Battery Replaced

This warning type is displayed if the battery has not been replaced within the set time frame for battery replacement.

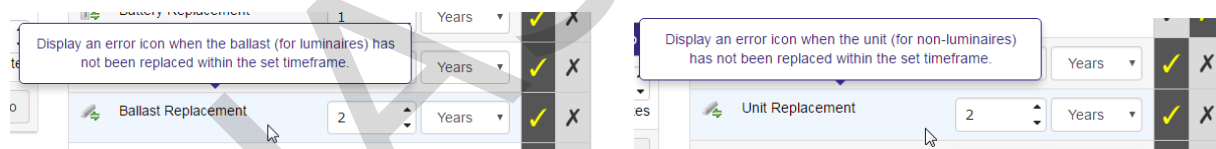
The time frame is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Battery Replacement value" and is the equivalent of a Battery Replaced warning in the cloud.



### Control Gear Replaced

This warning type is displayed if the unit and/or the ballast has not been replaced within the set time frame for ballast replacement.

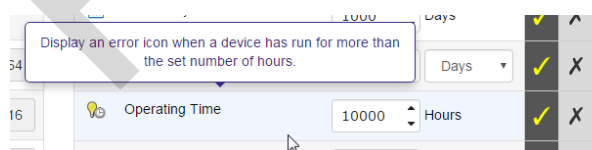
The time frame is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Ballast Replacement value" for luminaires or at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Unit Replacement value" for non-luminaires and is the equivalent of a Unit or Ballast Replaced warning in the cloud.



### Exceeding Operating Time

This warning type is displayed if a device has reported that it has run for more than the set operating time.

The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Operating Time value" and is the equivalent of an Operating Time warning in the cloud.





## connecDIM Site Settings

### Exceeding Active Days

This warning type is displayed if a device has reported that it has been active for more than the set number of active days.

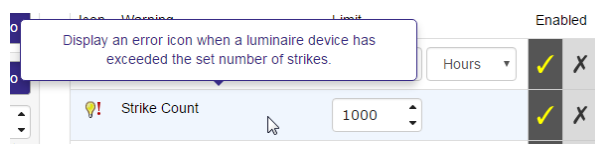
The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Active Days value" and is the equivalent of a Days Active warning.



### Exceeding Strike Count

This warning type is displayed if a device has reported that it has been switched on more than the set number of strike counts.

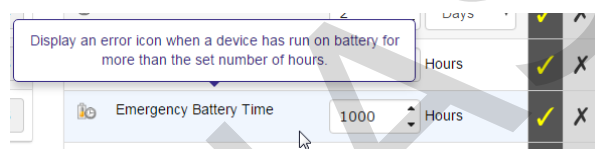
The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Strike Count value" and is the equivalent of a Total Strikes warning in the cloud.



### Battery Time Expires

This warning type is displayed if an emergency device has reported that the battery has run for more than the set emergency battery time.

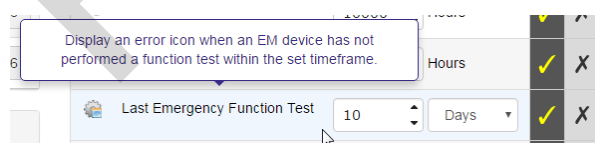
The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Battery Time value" and is the equivalent of a Time On Battery warning in the cloud.



### Function Test Time Expires

This warning type is displayed if an emergency device has not reported running a function test within the set time frame for last emergency function test.

The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Last Emergency Function Test value" and is the equivalent of a Last Function Test warning in the cloud.

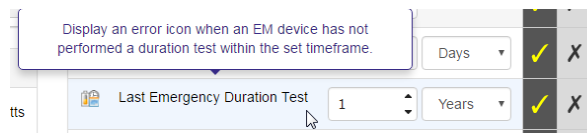


## connecDIM Site Settings

### Duration Test Time Expires

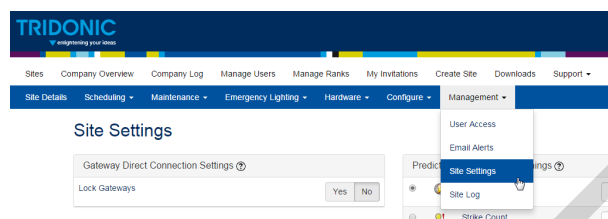
This warning type is displayed if an emergency device has not reported running a duration test within the set time frame for last emergency duration test.

The limit is defined at Management > Site Settings, table "Predictive Maintenance Warnings", menu "Last Emergency Duration Test value" and is the equivalent of a Last Duration Test warning in the cloud.



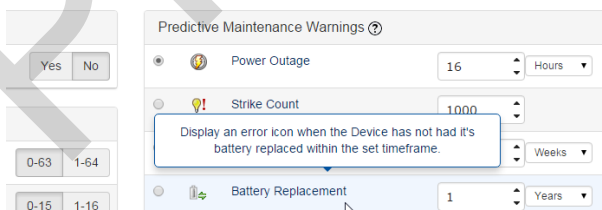
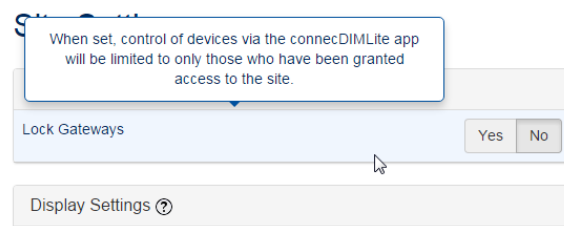
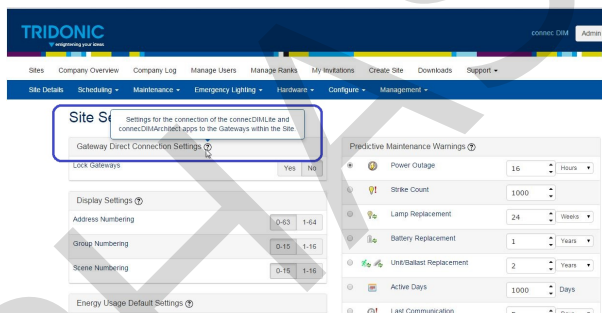
### 8.11. Site Settings

Select Site Settings in the Management drop down menu.



Site Settings allows you to modify Gateway Direct connection Settings, Display Settings, Energy Usage Default Settings, Recent Warning Settings, Predictive Maintenance Warnings.

- By selecting the question mark or moving the cursor over the area you will receive information for the different subjects.



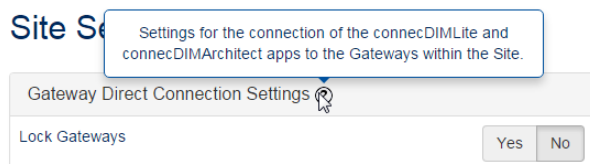
## connecDIM Site Settings

### 8.11.1. Gateway Direct Connection Settings

Gateway Direct connection Settings allows you to lock the gateways registered to your site. This is useful if you want to have full control over who is connecting to your gateway in the Wi-Fi network. Imagine a situation where connecDIM is connected to Wi-Fi and a lot of user are allowed to connect to the Wi-Fi (they know the password), but only certain users should be able to control the light. Also this is a security feature because once the gateway is locked the connecDIMArchitect app isn't allowed to connect to this gateway. This prevents the settings in the installation to be changed by accident.

#### CAUTION!

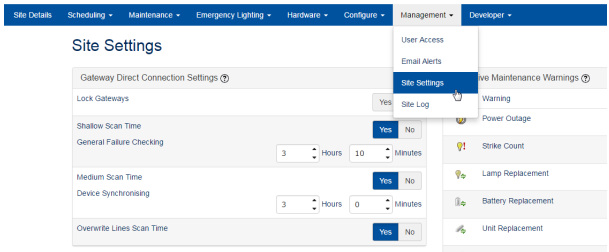
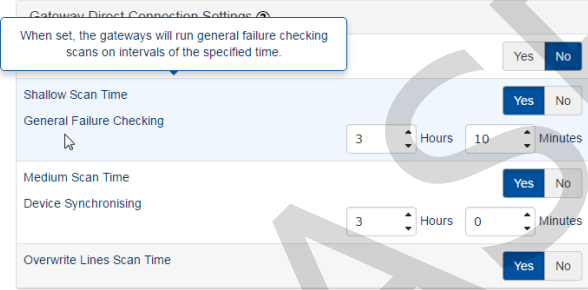
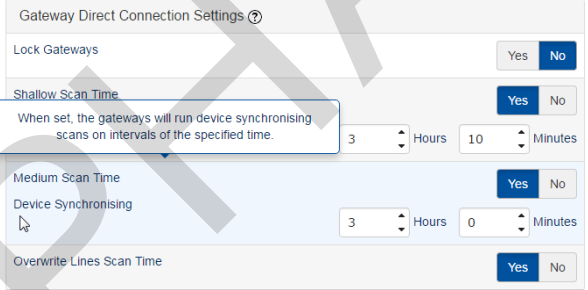
Once the gateway is locked only registered site users are allowed to connect to the gateway. The connecDIMArchitect app will not be operable. Only the connecDIMLite app in combination with the user access will be operable. Control Codes created will also only work for registered Site users.



### 8.11.2. Shallow and Medium Scan

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 be modified.

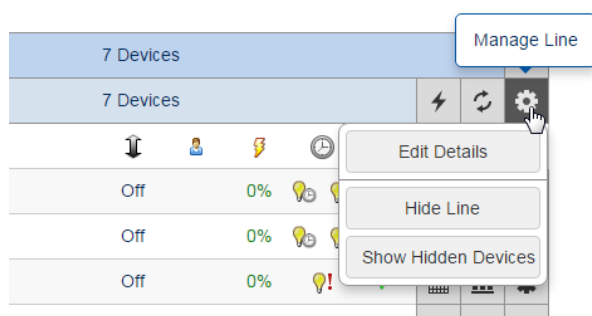
## connecDIM Site Settings

Image	Description
	<p>Settings for shallow and medium scan can be found in Management/Site Settings</p> <p>Depending on the needs of your site now you can decide how often the scans should be executed.</p> <p>Time for shallow scan and for medium scan can be programmed separately</p> <p><b>Faster interwalls</b></p> <ul style="list-style-type: none"> <li>+higher resolution of the data send to cloud</li> <li>-higher internet traffic</li> <li>-higher risk of delays in LA</li> </ul> <p><b>Slower interwalls</b></p> <ul style="list-style-type: none"> <li>+lower internet traffic</li> <li>+lower risk of delays in LA</li> <li>-lower data resolution</li> </ul>
	<p>Shallow Scan is needed for general failure checking and status update Following parameter are send to the cloud during shallow scan:</p> <ul style="list-style-type: none"> <li>– how many devices are connected</li> <li>– are there any failures</li> <li>– what is the actual light level</li> </ul>
	<p>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.</p> <p>Medium scan is also executed on every reboot of the connecDIM GW.</p>

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.

## connecDIM Site Settings



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

**Name**  
Line 3

**Shallow Scan Time** ⓘ  
  0 Hours 1 Minutes

**Medium Scan Time** ⓘ  
  0 Hours 1 Minutes

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

Shallow Scan Time

General Failure Checking 0 Hours 10 Minutes

Medium Scan Time

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

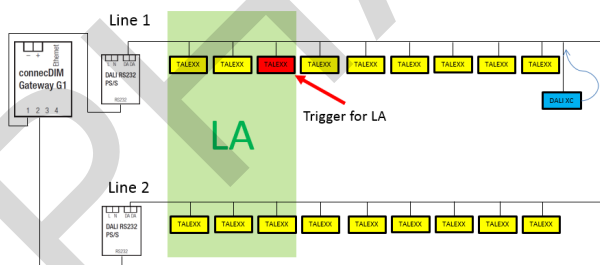
Overwrite Lines Scan Time

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

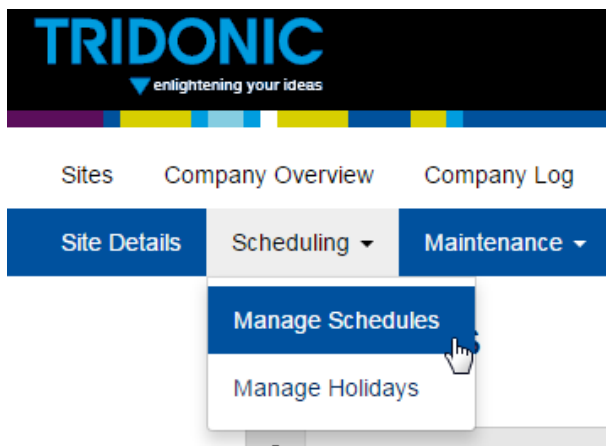
to minimize the risk of a delay for the LA the Shallow and Medium scan are disabled for Line 1.

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

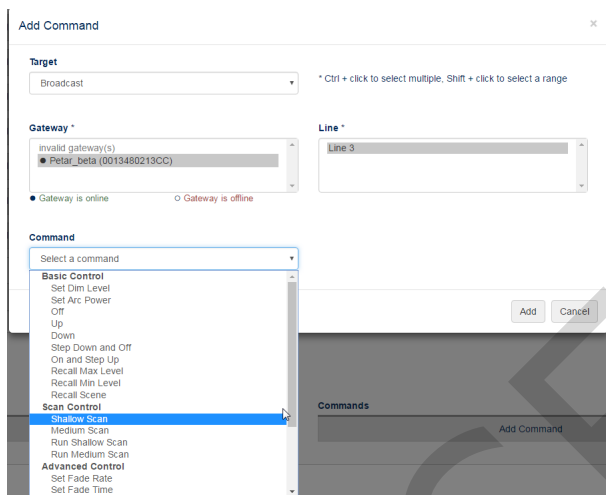
To still be able to monitor Line 1

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.

## connecDIM Site Settings



To open the Scheduler menu go to Scheduling / Manage Schedules



In the new Scheduler select Broadcast as Target

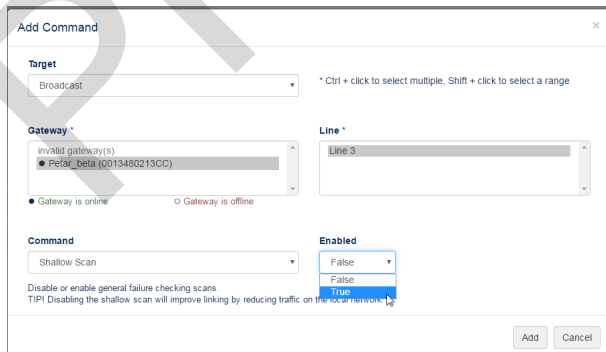
Select the GW where the Trigger is located

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

## connecDIM Site Settings

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

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

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

- 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.

## connecDIM Site Settings

### 8.11.3. Display Settings

Display settings allow you to change the numbering in the Cloud. DALI always starts counting from zero, but most people start to count from one. Here the numbering can be changed.

These settings allow you to enable specific features relating the display of certain elements within the Site.

Please note that these settings will affect all users who view this Site.

Yes No

Display Settings ?

Address Numbering	0-63	1-64
Group Numbering	0-15	1-16
Scene Numbering	0-15	1-16

### 8.11.4. Energy Usage Default Settings

Energy Usage Settings allow you to change the peak wattage of devices as well as the baseline comparison wattage and activity period.

Scene 5 1-16

Energy Usage Settings allow you to change the peak wattage of devices as well as the baseline comparison wattage and activity period.

Energy Usage Default Settings ?

Per-Device Total Wattage	60.5	Watts
Per-Device Benchmark Wattage	90	Watts
Benchmark Hours Per Month	200	Hours

Actually there are three different settings you can change:



## connecDIM Site Settings

### Per-Device Total Wattage

This setting allows you to modify the default total wattage\* of all devices in the site.

Please note: This value is a site-wide default and is ignored where the Total Wattage is set on a Group or Device.

\* The total wattage of a device is not equal to the sum of the lamps installed. For example a typical Tridonic DALI twin 28W ballast will have a total wattage of approximately 60.5W (2 x 28 + 4.5watt overhead). Note that other brands may have different overhead wattages. Please consult the product specifications for each device.

0-63

1-64

0-15

1-16

0-15

1-16

Per-Device Total Wattage

60.5

Watts

Per-Device Benchmark Wattage

90

Watts

Benchmark Hours Per Month

200

Hours

### Per-Device Benchmark Wattage

This setting allows you to modify the wattage of a benchmark non-DALI device used as a comparison for the energy usage of all DALI devices within the site.

Please note: This value is a site-wide default and is ignored where the Benchmark Wattage is set on a Group or Device.

0-15

1-16

60.5

Watts

Per-Device Benchmark Wattage

90

Watts

Benchmark Hours Per Month

200

Hours

## connecDIM Site Settings

### Benchmark Hours Per Month

This setting allows you to modify the hours per month a benchmark non-DALI device would be in operation within your site.


Please note: This value is a site-wide default and will not be used in calculations the Benchmark Hours are set on a Group or Device.

Benchmark Hours Per Month  Hours

### 8.11.5. Recent Warning Settings

Settings for Recent Warnings allow you to modify which Device-specific warnings are prioritized and displayed as Recent Warnings.

Please note: Settings chosen here will affect all Users viewing this Site.

Recent Warning Settings 

Show Address changes in Recent Warnings	<input checked="" type="button" value="Yes"/> <input type="button" value="No"/>
Show Timezone changes in Recent Warnings	<input checked="" type="button" value="Yes"/> <input type="button" value="No"/>
Show Time Offset changes in Recent Warnings	<input checked="" type="button" value="Yes"/> <input type="button" value="No"/>
Show multiple Group Warnings in Recent Warnings	<input checked="" type="button" value="Yes"/> <input type="button" value="No"/>

## connecDIM Site Settings

### Show Address changes

Enabling this setting will cause all Device Address changes to display as recent warnings in the Maintenance page.

Show Address changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show Timezone changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show Time Offset changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show multiple Group Warnings in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Show Timezone changes

Enabling this setting will cause Gateway timezone changes to display as recent warnings in the Maintenance page.

Show Timezone changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show Time Offset changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show multiple Group Warnings in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Show Time Offset changes

Recent Warning Settings ?

Show Address changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Enabling this setting will cause Gateway time offset changes to display as recent warnings in the Site Details.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show Time Offset changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Show multiple Group Warnings in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

## connecDIM Site Settings

### Show Multiple Group Warnings

Recent Warning Settings ?

Show Address changes in Recent Warnings ☒ Yes ☐ No

Enabling this setting will cause reporting of Devices in multiple Groups to display as recent warnings in the Site Details.

Show multiple Group Warnings in Recent Warnings ☒ Yes ☐ No

### 8.11.6. Predictive Maintenance Warnings

Predictive Maintenance Warnings ?

Predictive Maintenance Warnings allow you to change the way Devices report errors.

Simply add a new warning based on the data about which you want to be notified and set the limit at which you want to be warned.

All Devices (where appropriate: some fields may only apply to Emergency Devices) will then show an icon in the Operating Data column based on the fields and limits which you have set, and will also be listed on the Maintenance Status.

Please note: Settings chosen here will affect all Users viewing this Site.

#### Power Outage


The emergency device has been without mains power within the time frame specified in the Predictive Maintenance settings. More information can be found in chapter Power Outage, S. 83.

## connecDIM Site Settings

### Strike Count


**Predictive Maintenance Warnings** ⓘ

Display an error icon when the Device has exceeded the set number of strikes.

☐  Strike Count  Hours


### Lamp Replacement

Display an error icon when the Device has not had it's lamp replaced in the set timeframe.

☐  Lamp Replacement  Weeks



### Battery Replacement

Display an error icon when the Device has not had it's battery replaced within the set timeframe.

☐  Battery Replacement  Weeks

### Unit/Ballast Replacement

Display an error icon when the Device (for Emergency Devices) or the ballast (for downlight and fluorescent devices) has not been replaced within the set timeframe.

☐   Unit/Ballast Replacement  Days

## connecDIM Site Settings

### Active Days

Display an error icon when the Device has been active for more than the set number of days.

Active Days 10 Days

### Last Communication

Display an error icon when the Device has not reported within the set timeframe.

Last Communication 5 Hours

### Operating Time

Display an error icon when the Device has run for more than the set number of hours.

Operating Time 10 Hours

### Emergency Battery Time

Display an error icon when the Device has run on battery for more than the set number of hours.

Emergency Battery Time 1 Hours

### Last Emergency Function Test

Display an error icon when the Device has not performed a function test within the set timeframe.

Last Emergency Function Test 2 Days

## connecDIM Site Settings

### Last Emergency Duration Test

Display an error icon when the Device has not performed a duration test within the set timeframe.

**Last Emergency Duration Test** 3 Days

### Bus Errors

Display an error icon when the number of Bus Errors received from the Device exceeds this value.

**Bus Errors** 1 Days

### 8.11.7. Save Site Settings

Once you have made all your settings, select **Save Settings** at the bottom of the Page.

Scene Numbering 0-15 1-16

Energy Usage Default Settings ⓘ

Per-Device Total Wattage 60.5 Watts

Per-Device Benchmark Wattage 90 Watts

Benchmark Hours Per Month 200 Hours

Recent Warning Settings ⓘ

Show Address changes in Recent Warnings Yes No

Show Timezone changes in Recent Warnings Yes No

Show Time Offset changes in Recent Warnings Yes No

Show multiple Group Warnings in Recent Warnings Yes No

Unit/Battery Replacement 2 Days

Active Days 10 Days

Last Communication 5 Hours

Operating Time 10 Hours

Emergency Battery Time 1 Hours

Last Emergency Function Test 2 Days

Last Emergency Duration Test 3 Days

Bus Errors Add Warning Remove Warning

Save Settings Reset to Last Saved Reset to Default Return to Top

Reset to Last Saved

Reset to Default

It is also possible to reset the settings to the last saved state

or to reset it to default

## connecDIM Site Settings

### 8.12. Site Log

Site log shows the recent Warnings which have been selected in the Site Settings (Management/Site Settings).

Settings for Recent Warnings allow you to modify which Device-specific warnings are prioritized and displayed as Recent Warnings.

Please note: Settings chosen here will affect all Users viewing this Site.

**Recent Warning Settings**

Show Address changes in Recent Warnings	Yes	No
Show Timezone changes in Recent Warnings	Yes	No
Show Time Offset changes in Recent Warnings	Yes	No
Show multiple Group Warnings in Recent Warnings	Yes	No

Select Site Log in the Management drop down menu.

**TRIDONIC** empowering your ideas connec DIM

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

Site Details Scheduling Maintenance Emergency Lighting Hardware Configure Management

**Site Log**

Start Time Start Date End Time End Date Filter  
00:00 17/08/2015 23:59 14/09/2015 All User Changes

Entries per page: 25

Time	Type	Event	User
21:07 14/09/2015		Site Settings modified	connec DIM
19:42 14/09/2015		Schedules modified for G1 (00134802130C)	connec DIM

Now you can see the log for the site. It is possible to filter between All, User Changes and hardware warnings. Also, it is possible to filter the start and end date and time. Entries per page can also be selected between 25, 50, 75 or 100 for each page. Different logs do also have different symbols for User Changes and for Hardware Warnings.

**TRIDONIC** empowering your ideas connec DIM

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

Site Details Scheduling Maintenance Emergency Lighting Hardware Configure Management

**Site Log**

Start Time Start Date End Time End Date Filter  
00:00 14/08/2015 23:59 11/09/2015 All User Changes Hardware Warnings

Entries per page: 25

Time	Type	Event	User
15:02 11/09/2015		Device: 001348021401 Line: 2 Address: 14 is assigned to more than one Group.	
21:07 14/09/2015		Site Settings modified	connec DIM
19:42 14/09/2015		Schedules modified for G1 (00134802130C)	connec DIM
11:31 26/08/2015		Device at MAC Address	

Site Log

Start Time Start Date End Time End Date Filter  
00:00 17/08/2015 23:59 14/09/2015 All User Changes Hardware Warnings

Entries per page: 25

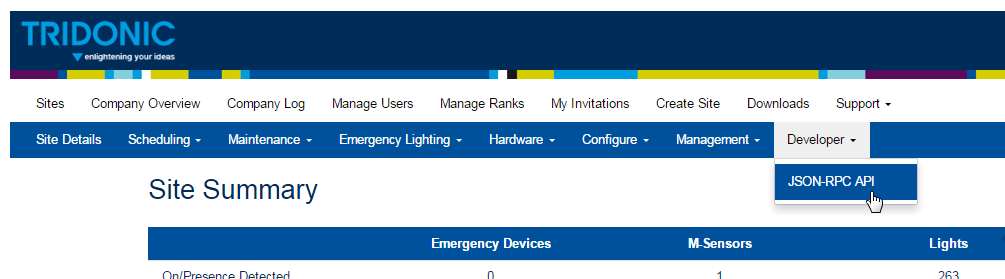
Time	Type	Event	User
------	------	-------	------



## JSON-RPC API configurator

Create own JSON-RPC commands and control light remotely.

Function can be found under Developer/JSON-RPC API



### ⚠ CAUTION!

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

### 9.1. 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.

### 9.2. 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

## JSON-RPC API configurator

Disable:

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

PHASED OUT

## Download and Use the connecDIM Apps

To download the apps go to the app store and type in connecDIM in the search field.

### 10.1. connecDIMLite

- \_ Wireless control of your lights
- \_ For small home installations up to multi-level buildings
- \_ Controls tailored to your devices
- \_ Device names will be taken from the connecDIM cloud
- \_ Available for iPhone, iPad, iPod and Android



[Download](#)



[Download](#)

## Download and Use the connecDIM Apps

### 10.2. connecDIMArchitect

- \_ Intuitive wireless commissioning of any size DALI system
- \_ On-site luminaire identification
- \_ Easily configure DALI devices including emergency lighting and colour control devices
- \_ Available for iPhone, iPad and iPod Touch

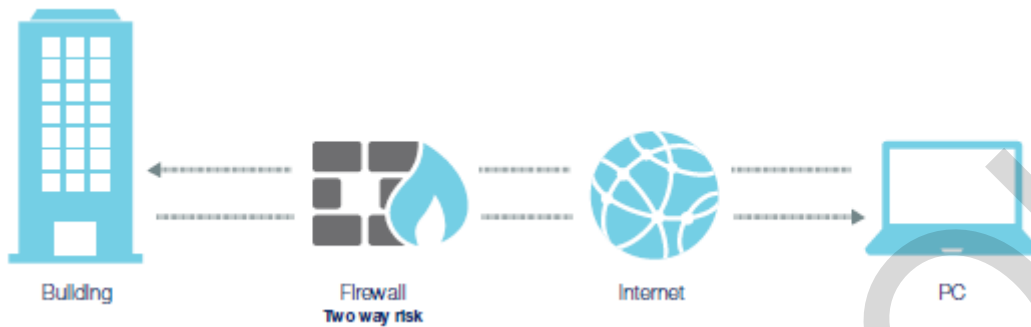


[Download](#)

## Cloud Security

### 11.1. Risks of Opening a Site to the Internet

The most common way that system integrators access a site remotely is to open a hole in the firewall. An incoming hole in your firewall gives the system integrator a path to connect into the system remotely and change or control a dedicated computer on site.



An incoming hole in your firewall opens a security risk. With a hole in your site's firewall, a hacker can use this to damage your installation.

By not opening any incoming ports on your firewall, you protect your building. There is no open security hole.

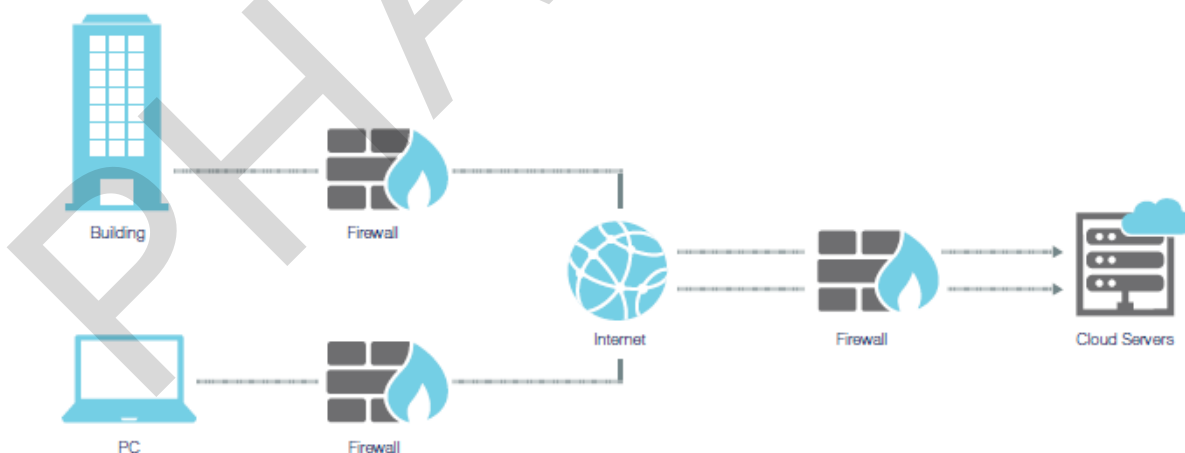
But how do you allow access to your site without opening up a way in for them?

### 11.2. The connecDIM Cloud Solution

The solution for allowing access to your site and not opening a hole in your firewall is to use the connecDIM cloud.

With the connecDIM cloud, your site connects to the cloud but does not allow the cloud to initiate a connection back to it. Third parties do not connect to your site, they also only connect to the cloud.

The cloud creates a buffer of protection for your site and prevents unauthorised connections to your site.



When the IT department sets up the internet connection for the connecDIM site, it will be a welcome and pleasant surprise when they learn that there are no incoming firewall ports to open.

## Cloud Security

### 11.3. Password Security

To increase security make sure your account password secure. Keeping your password safe is a combination of best practice between the user and the cloud.

### 11.4. HTTPS Encryption

The connecDIM cloud implements both firewall techniques and the latest standards in HTTPs forward secrecy encryption. All information transmitted between the cloud and the web browser is encrypted to prevent sniffing.

### 11.5. Password Security

All account passwords are stored on the connecDIM in encrypted form. User passwords are not viewable to anyone.

### 11.6. What You Can Do

As a user don't share your password with others. Also, try not to use the same password for multiple accounts, for example if a person was to hack your Facebook account they might then try the same password on the connecDIM cloud. Try and use a combination of letters, symbols, and numbers for your password, and regularly check your computer for viruses, keyloggers, and malware.

## Premium features

In addition to all the free features connecDIM has also premium features to offer. Premium features are only available on request. To get more information please contact your local Tridonic support.

### 12.1. Light Over Time

Allows to create light over time colour temperature and dim level curves without the need of creating a lot of schedules.

LoT Updated 18:26 26/4/2016 by Petar Zavisla

Name:

Type:

Season:   Jan 01 to Dec 31

Run on Holidays:

Enabled Commands:

Frequency: Weekdays

Targets: 0013480213DA line 4 group 2, 3, 4, 5

Add Target

Time	Command	
6:00:00	CT: 6000K	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Settings"/> <input type="button" value="Delete"/>
19:00:00	CT: 3000K	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Settings"/> <input type="button" value="Delete"/>
<input type="button" value="Add Point"/>		

## Documentation Version History

Date	Version	Comment
November 2018	2.1	BETA Features and Terms of Use added
July 2018	2.0	Delete Devices feature implemented
March 2018	1.9	Small updates and additions
February 2017	1.8	Small updates and additions
May 2017	1.7	Email Alerts updated
February 2017	1.6	Logical Areas and Schedules updated
November 2016	1.5	Emergency how to download report
October 2016	1.4	Updated MSensor Linking
June 2016	1.3	New function described in Release notes 19.07.2016 implemented to documentation
January 2016	1.2	Chapter 4.1 updated
November 2018	2.1	BETA Features and Terms of Use added
December 2015	1.1	Logical Areas updated
November 2015	1.0	First official version