



TRIDONIC

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conneDIM

Product manual

Table of contents

1 Validity	6
1.1 Copyright	6
1.2 Imprint	6
2 Safety instructions	7
2.1 Designated use	7
2.2 Dangers associated with the operation of the system	7
3 The connecDIM System	8
3.1 System Introduction	8
3.2 System Component Summary	8
3.3 System API	8
4 Creating your connecDIM Cloud Account	9
4.1 connecDIM user types	9
4.1.1 Default User	9
4.1.2 Primary Account Holder	9
4.1.3 Company user	9
4.1.4 Site user	9
4.2 Creating a connecDIM Cloud User Account	10
4.3 The connecDIM Cloud Registration Process	10
4.4 Entering Account Details	10
4.5 Verifying Your Email	10
4.6 Log In for the first Time	11
5 ConnecDIM Company Settings	12
5.1 Sites	12
5.2 Company Overview	12
5.3 Company Log	13
5.4 Manage Users	13
5.5 Manage Ranks	14
5.5.1 Company Rank Icons	15
5.5.2 Site Rank Icons	16
5.6 My invitations	17
5.7 Create Site	17
5.8 Download	17
5.9 Support	18
6 Create new Site in the connecDIM Cloud	19
6.1 Enter Site Details	19
6.1.1 Site Name	20
6.1.2 Site Address Information	20
6.1.3 Fine Tuning Latitude and Longitude	20
6.1.4 Time Zone Settings	20
6.2 Add connecDIM Gateways to the Site	21

6.3 View and Access Your Site	22
7 connecDIM Gateway Installation	23
7.1 To install a connecDIM gateway you need:	23
7.2 Connect the DALI interface RS232 PS/S	23
7.3 Connect the Ethernet Network	24
7.4 Connect the DC Power Supply	24
7.5 Check the Lights and Connections	24
7.6 Ensure the connecDIM Gateway is Visible on the Local Network	25
7.7 connecDIM network settings	26
8 connecDIM Site Settings	27
8.1 connecDIM Site Details	27
8.2 connecDIM Scheduling	27
8.2.1 Manage Schedules	27
8.2.2 MSensor Schedules	29
8.2.3 Shallow and Medium scan schedules	30
8.2.4 Manage Holidays	32
8.3 connecDIM Live3D	33
8.4 Maintenance	33
8.4.1 Maintenance Report	34
8.4.2 Energy Performance	34
8.4.3 Maintenance History	34
8.4.4 Site Documentation	34
8.5 Emergency Lighting	35
8.5.1 Assumptions	35
8.5.2 Prerequisites	35
8.5.3 Emergency Lighting	35
8.5.3.1 Battery Level	36
8.5.3.2 Function Test Status	36
8.5.3.3 Duration Test Status	37
8.5.3.4 Emergency Status	37
8.5.3.5 Emergency Mode	37
8.5.3.6 Device Features	38
8.5.3.7 Operating Data	38
8.5.3.8 Failure Status	39
8.5.4 Actions	39
8.5.5 Manage Device	39
8.5.5.1 Edit Details	40
8.5.5.2 Replace Lamp	40
8.5.5.3 Replace Battery	40
8.5.5.4 Replace Unit	41
8.5.5.5 Hide Device	41
8.5.6 Predictive maintenance warnings	41
8.5.7 Scheduling an Emergency Test	41

8.5.8 Sign Emergency test	42
8.6 Hardware	45
8.6.1 Devices	45
8.6.2 DALI Device Type Icons	47
8.6.3 Operating Data and Predictive Maintenance Icons	51
8.6.4 Actions	52
8.6.4.1 View History	52
8.6.4.2 View Graph	54
8.6.4.3 Manage Device	56
8.6.4.3.1 Edit Details	56
8.6.4.3.2 Replace Lamp	57
8.6.4.3.3 Replace Ballast	57
8.6.4.3.4 Hide Device	57
8.6.5 Groups	57
8.6.6 Scenes	58
8.6.7 Add Gateway	59
8.7 Update Gateway Firmware	60
8.8 connecDIM Configure	61
8.8.1 Control Codes	61
8.8.2 Logical Areas	62
8.8.2.1 Hop count for Logical Areas	63
8.8.2.2 Supported commands for logical areas	63
8.9 Management	65
8.10 User Access	65
8.10.1 Invite User	65
8.10.2 Set connecDIMLite Favorites	68
8.10.2.1 Set Ranks	70
8.10.2.2 Remove Access	70
8.11 Email Alerts	70
8.12 Site Settings	72
8.12.1 Gateway Direct connection Settings	73
8.12.2 Shallow and Medium Scan	73
8.12.3 Display Settings	79
8.12.4 Energy Usage Default Settings	79
8.12.4.1 Per-Device Total Wattage	80
8.12.4.2 Per-Device Benchmark Wattage	80
8.12.4.3 Benchmark Hours Per Month	81
8.12.5 Recent Warning Settings	81
8.12.5.1 Show Address changes	82
8.12.5.2 Show Timezone changes	82
8.12.5.3 Show Time Offset changes	83
8.12.5.4 Show Multiple Group Warnings	83

8.12.6 Predictive Maintenance Warnings	84
8.12.6.1 Power Outage	84
8.12.6.2 Strike Count	85
8.12.6.3 Lamp Replacement	85
8.12.6.4 Battery Replacement	85
8.12.6.5 Unit/Ballast Replacement	85
8.12.6.6 Active Days	86
8.12.6.7 Last Communication	86
8.12.6.8 Operating Time	86
8.12.6.9 Emergency Battery Time	86
8.12.6.10 Last Emergency Function Test	87
8.12.6.11 Last Emergency Duration Test	87
8.12.6.12 Bus Errors	87
8.12.6.13 Add / Remove Warnings	87
8.12.7 Save Site Settings	88
8.13 Site Log	88
9 JSON-RPC API configurator	90
9.1 Change GW IP via JSON-RPC	90
9.2 Change Proxy via JSON-RPC	90
10 Download and Use the connecDIM Apps	91
10.1 connecDIM Lite	91
10.2 connecDIM Architect	92
11 Cloud Security	93
11.1 Risks of Opening a Site to the Internet	93
11.2 The connecDIM Cloud Solution	93
11.3 Password Security	94
11.4 HTTPS Encryption	94
11.5 Password Security	94
11.6 What You Can Do	94
12 Premium features	94
12.1 Light Over Time	95
13 Documentation Version History	95

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>

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

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.

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 easy to use apps or monitored remotely on the [connecDIM cloud](#).

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

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

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 easy to use apps or monitored remotely on the [connecDIM cloud](#).

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

System Component Summary

	Component	Description
	Cloud	<p>The cloud securely records and stores all information regarding the installation. Any change of lamp state, failures and historical information for energy reporting is recorded and saved on the cloud. 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 www.connecDIM.com and new users can register their own connecDIM cloud account at www.connecDIM.com/register.</p>
	Gateway	<p>The gateway controls and monitors four DALI lines and runs locally. Each gateway monitors activity on the DALI line and reacts by reporting information to the cloud if it is connected to the internet. When the gateway is not connected to the internet it stores information for upload later.</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, linking and firmware updates are synchronised between the gateway and the cloud.</p>

System API

There are two APIs that can be used by third parties to interface with the connecDIM system:

- ▶ the RESTful cloud API for accessing data in the cloud
- ▶ the JSON RPC for reading and controlling DALI information from the connecDIM gateway .

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

Creating your connecDIM Cloud Account

Setup and monitor connecDIM gateways with a connecDIM cloud account.

connecDIM user types

The connecDIM System has 4 user Types

Default User

- ▶ Everybody can create an connecDIM account
- ▶ With this account it is possible to see one test site
- ▶ Before Tridonic can create a company account with an Primary Account Holder this user has to register as a Default user

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.

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

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

Creating a connecDIM Cloud User Account

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

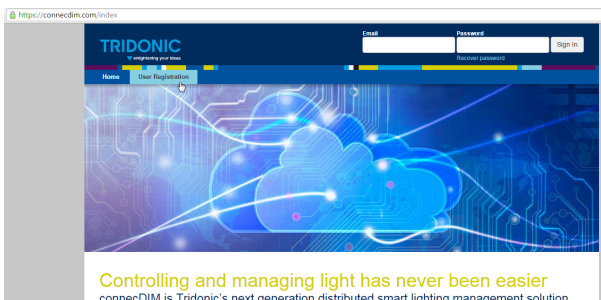
When logged in to the connecDIM cloud account you can monitor and manage multiple DALI installations directly from the cloud.

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

Entering Account Details

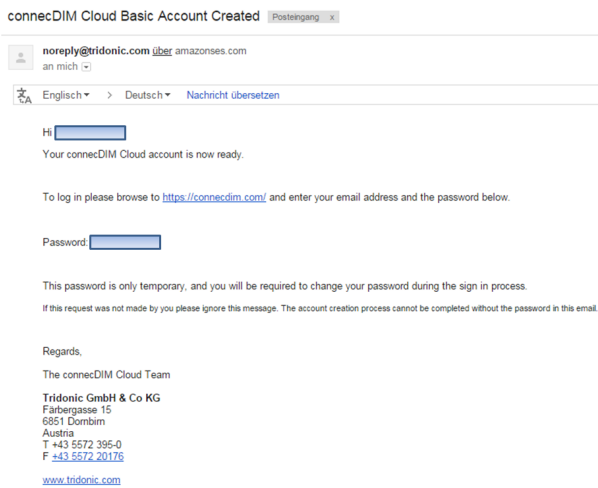
- ▶ If you already have a connecDIM account log in with your existing email address and password and read from the "Create a New Site" section.
If you have forgotten your password, you can use the recover password link and an email will be sent to you with instructions for recovering your password.
-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



- ▶ Fill in the above fields and press "Register". The connecDIM cloud will send you a verification email.
- ▶ When lamps or ballasts fail the connecDIM cloud will send you maintenance email warnings.

Verifying Your Email

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



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 thirty 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.

Log In for the first Time

When you receive your temporary password in the email visit www.connecdim.com and use your email address and the temporary password for your first log in.

Email	Password (recover password)	
<input type="text" value="connecDIM@tridonic.com"/>	<input type="password" value="....."/>	<input type="button" value="Sign In"/>

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.

At the moment 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

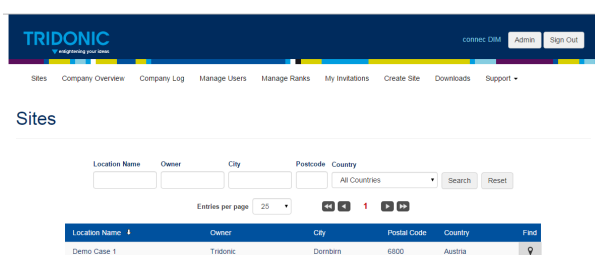
Please ensure that you include all the information listed above. It is very important that your user account already exists in the cloud before sending your request. Otherwise the company account cannot be created.

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.



Sites

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



Company Overview

The company overview gives your information about your company and the account holder. Also, it is possible to upload your own company logo.

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connec DIMAdminSign Out

SitesCompany OverviewCompany LogManage UsersManage RanksMy InvitationsCreate SiteDownloadsSupport

Company Overview

Company Details

Company Name

Street Address

ABN

City

State/Province/Region

Phone

Fax

Country

Zip/Post Code

Primary Account Holder

Primary Email Address

Save Changes

Reset

Logo

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Change Logo

Company Log

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

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connec DIMAdminSign Out

SitesCompany OverviewCompany LogManage UsersManage RanksMy InvitationsCreate SiteDownloadsSupport

Company Log

Start Time

Start Date

End Time

End Date

Search

Reset

Entries per page

25

1

Time & Date	Logged Action	User
11:55 19/09/2015	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	Muhammad Darwish
03:55 19/08/2015	New Site: Malaghan 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 Rhodes

Entries per page

25

1

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.

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connec DIMAdminSign Out

SitesCompany OverviewCompany LogManage UsersManage RanksMy InvitationsCreate SiteDownloadsSupport

Manage Users

AllAcceptedDeclinedPending

Name	Email	Company Rank	Status
No Company Users			

Add User

Return to Top

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.

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.

TRIDONIC

empowering your sites

Peter ZavitsAdminSi

Sites

Company Overview

Company Log

Manage Users

Manage Ranks

My Invitations

Create Site

Downloads

Support

Manage Ranks

Company Ranks







Name							
ConnecDIM Cloud Administrator	✓	✓	✓	✓	✓	✓	?
ConnecDIM Cloud User							?
Add Company Rank							

Return to Top













Site Ranks


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

Company Rank Icons

	Manage Company	With this permission set, a user can: » Edit the company name, address, contact details and other information presented on the "Company Overview" page
	Manage Company Log	With this permission set, a user can: » View the "Company Log" page
	Manage Users	With this permission set, a user can: » View the "Manage Users" page » Invite users to your company account » Modify the user's Company Rank » Dismiss users from your company account
	Manage Company Ranks	With this permission set, a user can: » View the "Manage Ranks" page » Add new Company Ranks » Modify the permissions of existing Company Ranks » Delete existing Company Ranks
	Manage Site Ranks	With this permission set, a user can: » View the "Manage Ranks" page » Add new site ranks » Modify the permissions of existing site ranks » Delete existing site ranks
	Create Sites	With this permission set, a user can: » Create new sites within the company

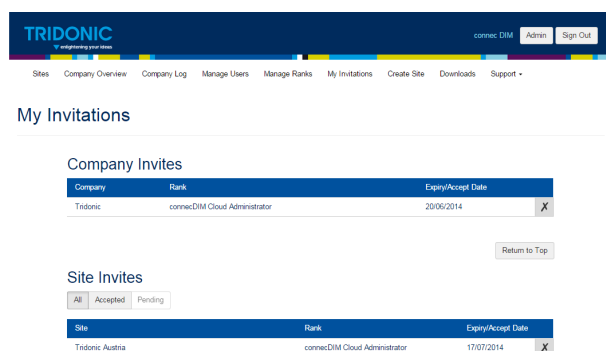
Site Rank Icons

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

	Manage Documentation	With this permission set, a user can: » Upload, rename, and remove site documentation
---	-----------------------------	--

My invitations

Gives your an overview of your company and site invitations.



My Invitations

Company Invites

Company	Rank	Expiry/Accept Date
Tridonic	connecDIM Cloud Administrator	20/06/2014

Return to Top

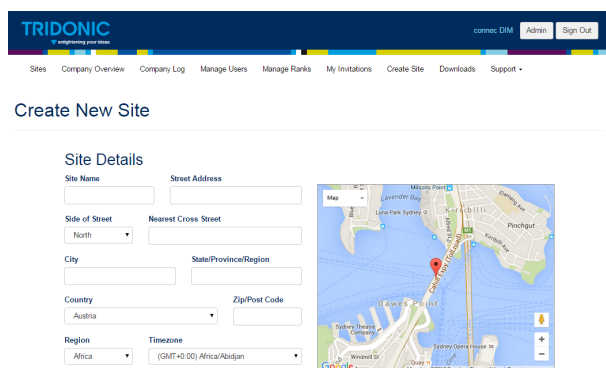
Site Invites

All Accepted Pending

Site	Rank	Expiry/Accept Date
Tridonic Austria	connecDIM Cloud Administrator	17/07/2014

Create Site

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



Create New Site

Site Details

Site Name

Street Address

Side of Street Nearest Cross Street

City State/Province/Region

Country Zip/Post Code

Region Timezone

Download

Download useful information like data sheet directly into the cloud.



Downloads

Documentation

- [connecDIM System Promotional Brochure \(843KB\)](#)
- [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 \(1.83MB\)](#)
- [Download for Mac \(1.83MB\)](#)

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

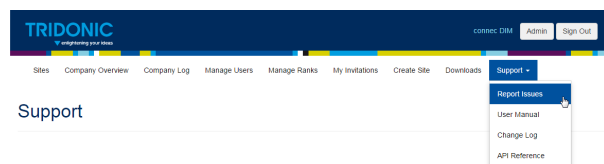
- Intuitive wireless commissioning of any size DALI system
- Create luminaires identification
- Easily configure DALI devices including emergency lighting and colour control devices
- Available now for iPhone, iPad and iPod Touch



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.

Support

Here you can report issues, read the user manual, see the change log and get information about the API.



Support

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 explain your issue

Enter 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:

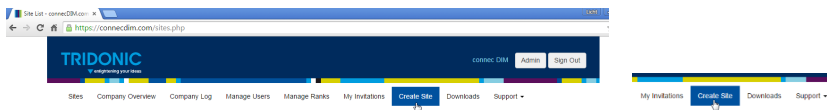
1. Enter site details
2. Add gateways to the site
3. View and access your site

NOTICE

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

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. The first section contains fields for Site Name (Tridonic Austria), Street Address (Farbergasse 15), Side of Street (Nearest Cross Street), City (Dornbirn), State/Province/Region (Vorarlberg), Country (Austria), Zip/Postal Code (6850), Region (Europe), and Timezone ((GMT+1:00) Europe/Belgrade). The second section is titled 'Gateways' and contains a table with columns for MAC Address and Gateway Name. The first row shows 'xxxxxxxxxx' and 'connecDIM GW ONE'. There are buttons for 'Add Gateway' and 'Create Site'. To the right of the form is a map showing the location of Dornbirn, Austria, with a red pin indicating the site location. Below the map is a note: 'Drag the marker to fine-tune the Site's location (if required)'.

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.

Site Address Information

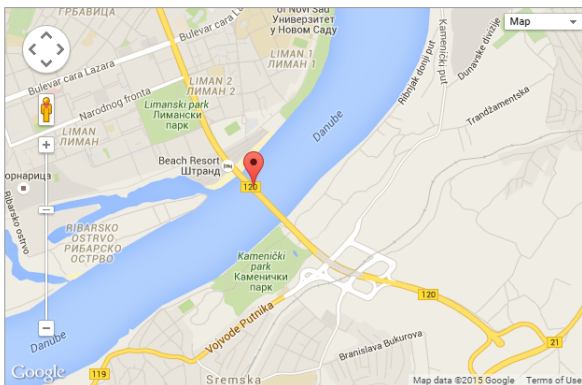
If you are using the connecDIM cloud for emergency lighting the address information will be used on your automatically generated fire safety certificate.

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

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.

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.

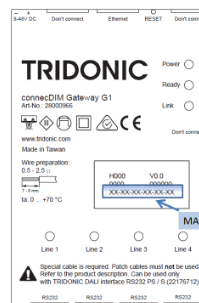
Add connecDIM Gateways to the Site

- ▶ 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.

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

xxxxxxxxxx

connecDIM GW ONE

Add Gateway

Add Gateway

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

Create Site

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.

https://connecdim.com/sites

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Peter Zavits Admin Sign Out

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Sites

Location Name Owner City Postcode Country

Tridonic Austria [] Dornbirn [] All Countries [v] Search Reset

Entries per page 25 [1] [2] [3] [4]

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

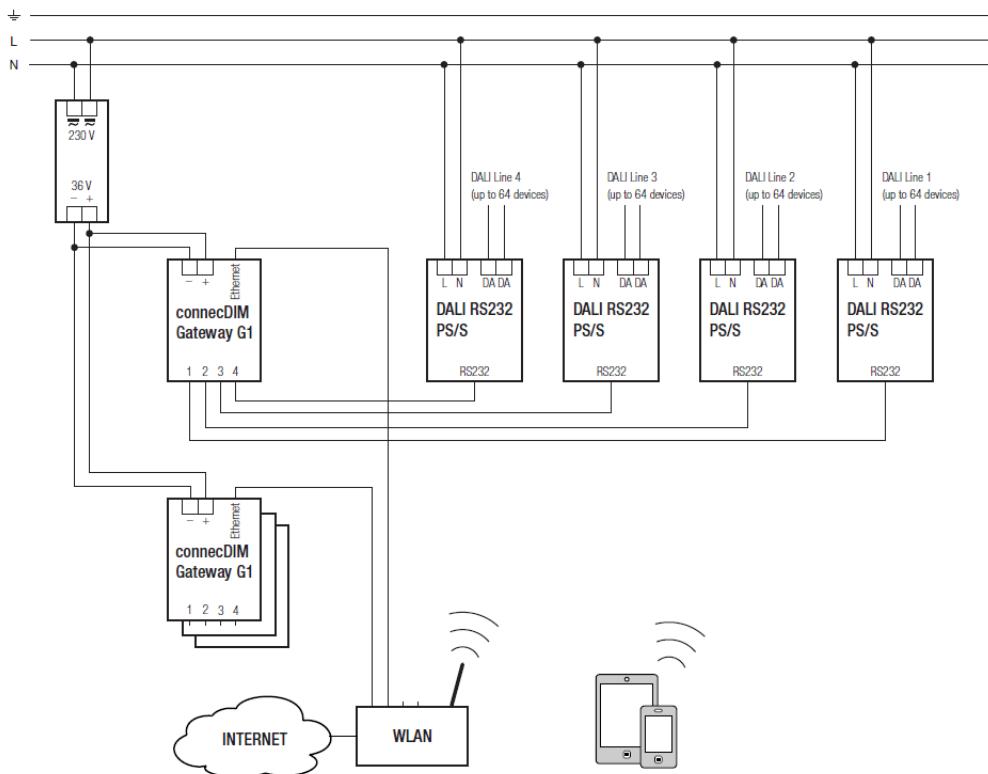
Map view showing the location of Dornbirn, Austria, marked with a red peg.

connecDIM Gateway Installation

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

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



Connect the DALI interface RS232 PS/S

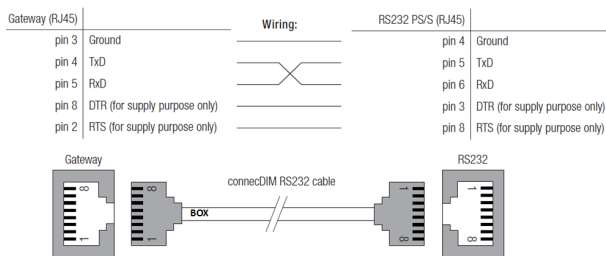
⚠ CAUTION!

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.



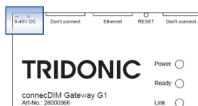
Connect the Ethernet Network

- ▶ 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.



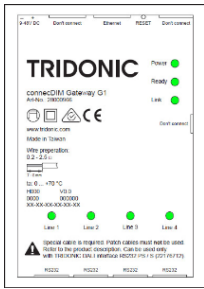
Connect the DC Power Supply

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



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

1. Power – the connecDIM gateway has power
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

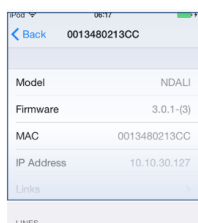
Ensure the connecDIM Gateway is Visible on the Local Network

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

i 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.



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

"54.72.207.168" => TCP/UDP port 37

Outgoing HTTPS Access

"54.77.66.116" => TCP port 443

"www.connecdim.com" => TCP port 443

For Beta testers only - Outgoing Ports

"54.77.175.77" => TCP port 1291

"54.77.175.77" => TCP port 443

"54.77.66.116" => TCP/UDP port 37

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

Important: Some Networks do not support broadcast commands. The connecDIM Apps are sending broadcast commands to communicate with the Gateway so this function must be activated.

connecDIM Site Settings

connecDIM Site Details

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

connecDIM Scheduling

Manage Schedules

Go to Scheduling > Manage Schedules to get an overview of all the gateways registered to your site.

Name	MAC Address	Last Modified
basement	0013480213CD	
2nd floor, R&D Team	0013480213DA	17:00 17/09/2015 by connec DIM
5th floor, office south	00134801E4AB	21:57 16/04/2015 by connec DIM
Ground Floor	00134801E4BE	14:12 09/03/2015 by connec DIM

Select the gateway where you would like to create a schedule. Select add schedule and give the schedule a name. Select a time and add a command. The Time can also be selected to be seasonal e.g. from Jan - Dec.

Add Schedule

Run Every Day

At Time 0 : 00

At Time
At Sunrise
At Sunset
Repeat Every

Save Cancel

Add Command

Target Broadcast

Line *
Tridonic Bar
Factory canteen
Line 3
Line 4

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

Command Select a command

Save Cancel

Add Command

Target
Broadcast
Broadcast
Group
Address
Tridonic Bar
Factory canteen
Line 3
Line 4

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

Command Select a command

Save Cancel

Add Command

Target Broadcast

Line *
Tridonic Bar
Factory canteen
Line 3
Line 4

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

Command
Select a command
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
Advanced Control
Set Fade Rate
Set Fade Time
Emergency Control
Run Function Test
Run Duration Test
Stop Testing
Colour Control

Save Cancel

Schedules for Tridonic GW1 (0013480213CC)

Event	Season	On	Do	Run On holidays	Enabled
ON/OFF OFF	Jan 01 to Dec 31	Every day every 2m from 14:01 to 17:00	Line 1 off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	All Year	Between	Add Time	Add Command	
ON/OFF ON	All Year	Every day every 2m from 14:00 to 17:00	Line 1 recall max level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	All Year	Between	Add Time	Add Command	

Once you have made all the settings, select save changes.

TRIDONIC

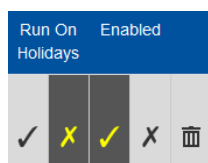
Schedules for Ground Floor (00134801E48E)

Event	On	Do	Run On holidays	Enabled
All OFF	Every day at 00:00	Line 1 off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Add Time	Add Command		

All times shown in Europe/Venice time

Save Changes Undo Changes Back Return to Top

Schedules can also be disabled or deleted. And you can select if they should run on holidays or not.



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

Add

Cancel

Light Curve

All Year

Between

Commands

Add Command

⚠ CAUTION!

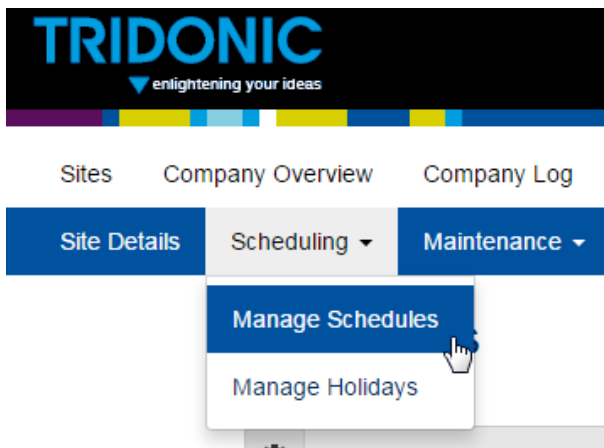
If MSensors are used for Light regulation in a Logical Area the control speed should be set to low. This will reduce the risk of delays in the Logical Area.

connecDIM | 07-2016 | 1.2 | en

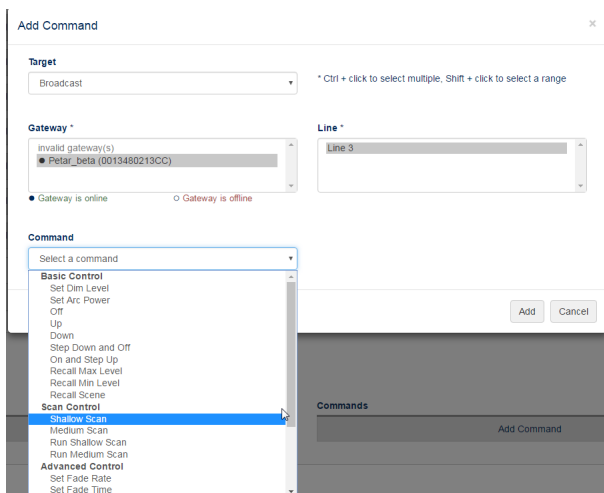
29 | 95

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.



To open the Scheduler menu go to Scheduling / Manage Schedules



In the new Scheduler select Broadcast as Target

Select the GW where the Trigger is located

Select the Line where the Trigger is located

In the Commands the Scan Control commands are now available.

There are four options

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

» Shallow Scan

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

Two options are available True and False.

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

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

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

In This case you have to program two Schedules

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

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

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

» Medium Scan

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

Two options are available True and False.

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

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

Add Command

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

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

New schedule

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

Type
Schedule Light Curve

Season
All Year Between Jan 01 to Dec 31

Run on Holidays
Yes No

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

Commands
0013480213CC line 3 run shallow scan

Add Time Add Command

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

New schedule

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

Type
Schedule Light Curve

Season
All Year Between Jan 01 to Dec 31

Run on Holidays
Yes No

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

Commands
0013480213CC line 3 run medium scan

Add Time Add Command

» Run Medium Scan

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

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

Manage Holidays

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

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

Manage Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr
-))	Actual	Relative Last Friday of April	✓ X	12/08/2015 by Klaus Mohr

Add Holiday

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr
-))	Actual	Relative Last Friday of April	✓ X	12/08/2015 by Klaus Mohr

Country Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
None	Actual	Relative	✓ X	16/04/2015 by connec DIM

Save Changes Undo Changes Return to Top

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Petar -)	Actual	Relative April 14	✓ X	16/04/2015 by connec DIM
Christmas	Actual	Relative December 25	✓ X	12/08/2015 by Klaus Mohr

Site Holidays

Holiday	Repeat Annually	Date Format	Weekday Adjust	Last Modified
Peter :-)	<input checked="" type="checkbox"/>	Actual	Relative	April 14
Christmas	<input checked="" type="checkbox"/>	Actual	Relative	December 25
Christmas	<input checked="" type="checkbox"/>	Actual	Relative	December 25

connecDIM Live3D

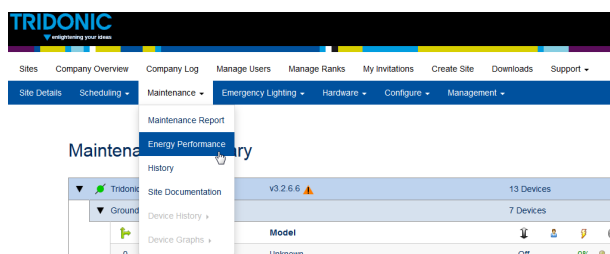
With the 3D visualisation tool, the icon of the luminaire will turn red to indicate errors. Additionally, moving the cursor over a luminaire, information regarding its address, group and advanced information such as, maximum, minimum, power on, system failure levels, operating time, active days, strikes per day, total strikes, group information, scene information, dim levels, short addresses, location and device type as well as emergency test information.

The drawings have to be in WebGL format and it is necessary that Tridonic implements your Lightpoint to the graphic. For support please contact your local Tridonic sales office.



Maintenance

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



Maintenance Report

Select Maintenance > Maintenance Report and you will see the maintenance summary. In the maintenance summary only devices with a predictive maintenance warning are visible. More information about predictive warnings can be found at [Predictive Maintenance Warnings](#), p. 84.

Maintenance Summary

Expand All

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

Energy Performance

Select Energy Performance to get 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	18.00kWh	15.49kWh	2.51kWh	86.00%	Office 1	162.00kWh	121.11kWh	40.89kWh	74.76%
Office 1	162.00kWh	121.11kWh	40.89kWh	74.76%	msensor	18.00kWh	15.49kWh	2.51kWh	86.00%

Maintenance History

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

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

Site Details Scheduling Maintenance Emergency Lighting Hardware Configure Management

Maintenance

- Maintenance Report
- Energy Performance
- History
- Site Documentation
- Device History
- Device Graphs

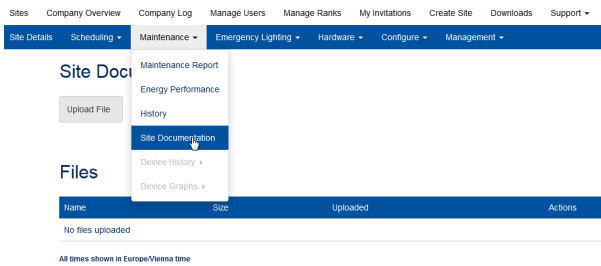
Start Time Start Date End Time End Date

00:00 14/10/2015 23:59 15/10/2015 Search Reset

No replacement history for the entered time period.

Site Documentation

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



Emergency Lighting

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.

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.

Emergency Lighting

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

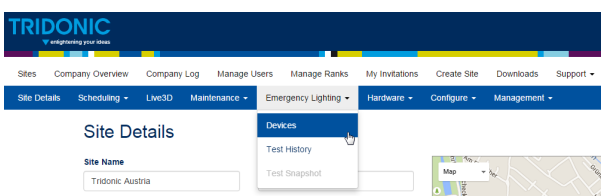
Emergency lights automatically appear in the "Devices" and "Emergency Lighting" windows on the cloud.

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

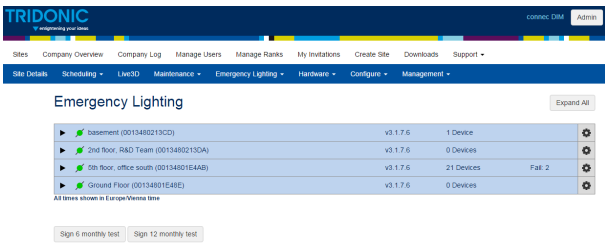
50		Unknown	Unknown	MAASK	
51		Unknown	Unknown	MAASK	
55		Unknown	Unknown	OFF	

Ground Floor (00134801E48E) v3.1.7.6 62 Devices

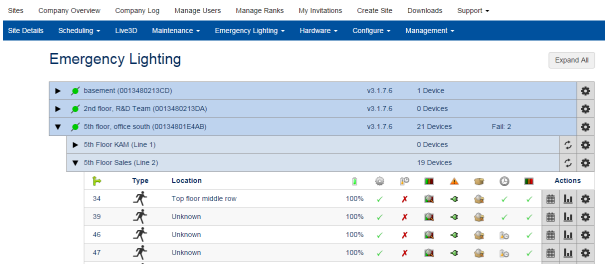
The Emergency Lighting window shows all DALI emergency devices and additionally shows DALI device type 1 emergency data fields.



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.



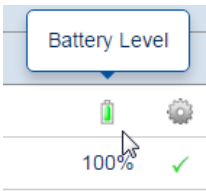
Location and model can be entered manually by the user with the Manage device icon.



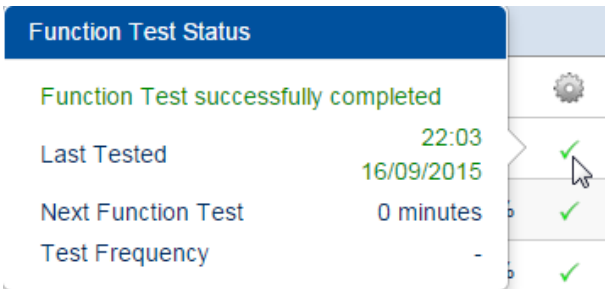
Other shown fields indicate battery level, function test results, duration test results, emergency status, device mode and features. These settings are read and displayed directly from the DALI settings in the fitting.



Battery Level



Function Test Status



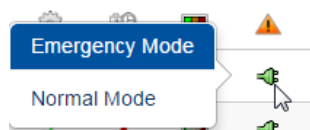
Duration Test Status

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



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	✓	

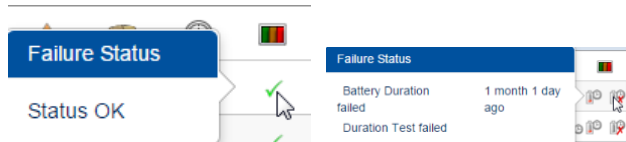
Operating Data

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	

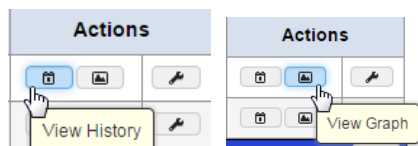
Failure Status

Failure status field displays if the device is ok or not



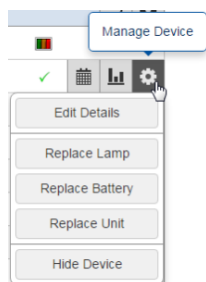
Actions

The View History and View Graph buttons show historical information and graph information recorded about the device. These informations are log 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 informations about the View History and View Graph windows see [Actions](#), p. 52.



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

Edit Details

Replace Lamp

Replace Battery

Replace Unit

Hide Device

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

Location

Top floor middle row

Model

EM PRO

Total Wattage ?

61.7W inherited from site

Benchmark Wattage ?

61.7W inherited from site

Benchmark Hours/month ?

200h inherited from site

Save

Cancel

Replace Lamp

Edit Details

Replace Lamp

Replace Battery

Replace Unit

Hide Device

The page at <https://connectdim.com> says:

Please note: Lamp replacement does not need to be manually reported where a device has reported lamp failure. You should only mark a device as lamp replaced where it has not reported a lamp fail warning within the connectDIM Cloud.

Are you sure you wish to continue?

OK

Cancel

Replace Battery

Edit Details

Replace Lamp

Replace Battery

Replace Unit

Hide Device

The page at <https://connectdim.com> says:

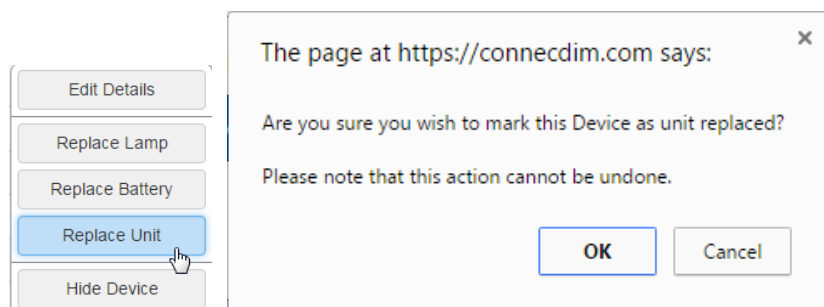
Are you sure you wish to mark this Device as battery replaced?

Please note that this action cannot be undone.

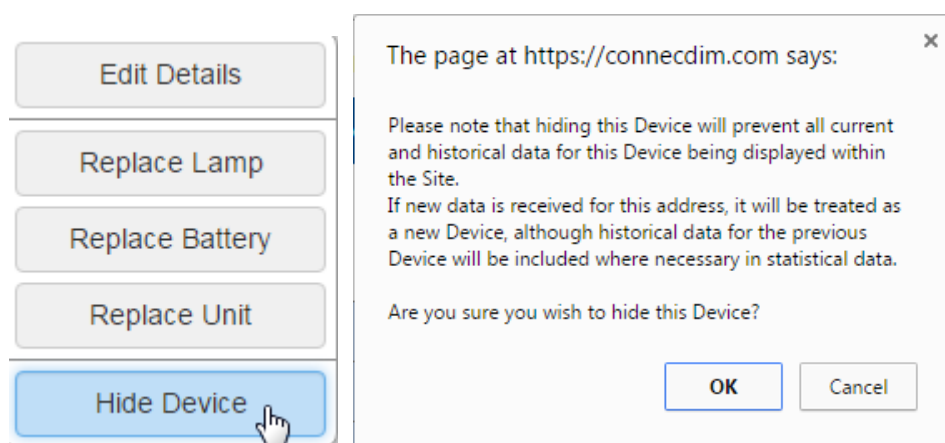
OK

Cancel

Replace Unit



Hide Device

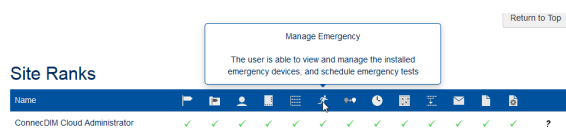


Predictive maintenance warnings

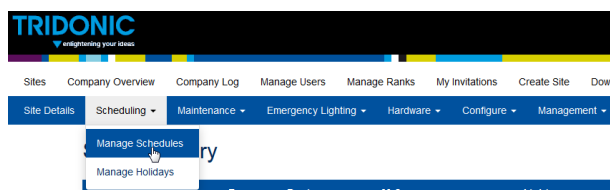
Go to Management > Site Settings to set up predictive maintenance warnings. More informations can be found at [Operating Data and Predictive Maintenance Icons](#), p. 51 and [Predictive Maintenance Warnings](#), p. 84.

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



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

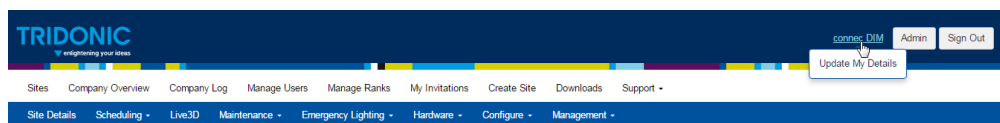
EM Function test	All Year	Every day at 11:40	+	Line 2 Address 5 run Function test	+	✓	X	X	X
	Between	Add Time		Add Command					
Em Duration test	All Year	Every Monday, Wednesday & Friday at 14:00	+	Line 2 Address 5 run Duration test	+	✓	X	X	X
	Between	Add Time		Add Command					

NOTICE

Important: 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.

Sign Emergency test

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 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 connec	Surname DIM	Electrical Licence Number XXXXXXXXXXXX
Email petar.zavisa@tridonic.com	Language English	
Electrical Licence Number XXXXXXXXXXXX		
Save Changes	Reset	Save Changes Reset

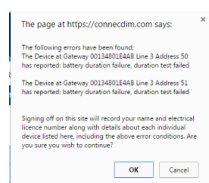
Once you apply for electrician status, one of the company admins must approve your request. Once your request receives approval, you will see the option to sign a six monthly or yearly test on the Emergency Lighting page.

Location	Version	Device Count	Status
basement (0013480213CD)	v3.1.7.6	1 Device	
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	0 Devices	
5th floor, office south (00134801E4AB)	v3.1.7.6	21 Devices	Fail: 2
Ground Floor (00134801E4BE)	v3.1.7.6	0 Devices	

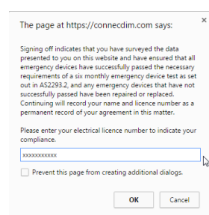
All times shown in Europe/Vienna time

Sign 6 monthly test Sign 12 monthly test

Once you have selected sign 6/12 monthly test, you will be asked if you are sure.



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



To see the test result select Emergency Lighting > Test History

Location	Version	Test History
basement (0013480213CD)	v3.1.7.6	
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	
5th floor, office south (00134801E4AB)	v3.1.7.6	
Ground Floor (00134801E4BE)	v3.1.7.6	

All times shown in Europe/Vienna time





Sign 6 monthly test Sign 12 monthly test

Testing History shows all the tests made in the past.

The screenshot displays the Tridonic web application interface. At the top, there is a navigation bar with the Tridonic logo and a list of menu items: Sites, Company Overview, Manage Users, Manage Ranks, My Invitations, Create Site, Downloads, and Support. Below this, a secondary navigation bar contains links for Site Details, Scheduling, Live3D, Maintenance, Emergency Lighting, Hardware, Configs, and Management. The main content area is titled "Testing History" and features a table of test results. The table has five columns: Date, Test Type, Electrician, Licence Number, and Actions. Five test entries are listed, each with a date, a 6-month test type, an electrician name (connec DIM or Klaus Mohr), a licence number, and a set of action icons (check, edit, delete, and a magnifying glass).

Date	Test Type	Electrician	Licence Number	Actions
12/15/2014	6 monthly	connec DIM	xxxxxxxxxx	
09/55/10/2015	6 monthly	connec DIM	xxxxxxxxxx	
17/13/13/2015	6 monthly	Klaus Mohr	123456789	
17/38/18/2015	6 monthly	connec DIM	xxxxxxxxxx	

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

Date	Test Type	Electrician	Licence Number	View Device status at time of Testing
12-15 17/09/2015	6 monthly	connec DIM	xxxxxxxxxx	 
09-65 10/09/2016	6 monthly	connec DIM	xxxxxxxxxx	 

For a test report, select print fire safety certificate.

Date	Test Type	Electrician	Licence Number	Print Fire Safety Certificate
12-15 17/09/2015	6 monthly	connie DIM	XXXXXXXXXXXX	
09-55 10/09/2015	6 monthly	connie DIM	XXXXXXXXXXXX	

The screenshot shows the TRIDONIC website with the tagline "enlightening your space". The navigation bar includes links for Sites, Company Overview, Company Log, Manage Users, Manage Ranks, My Invitations, Create Site, Downloads, and Support. A dropdown menu is open under "Emergency Lighting", showing options: Site Details, Scheduling - Live3D, Maintenance -, Emergency Lighting - (selected), Hardware -, Configure -, and Management -. The main content area displays "Emergency Test at 12:15" and "All times shown in Europe/Vienna time".

The screenshot shows the 'Finalisation Fire Safety Certificate' form on the Tridonic website. The form is titled 'Finalisation Fire Safety Certificate' and includes sections for 'Type of Certificate', 'Certificate Cardholder', 'Identification of Building', and 'Participants of Building'. The 'End Date' is set to 11/09/2015. The 'Participants of Building' section lists several roles and names, including 'contract DIN', 'contract DIN', 'Klaus Mäyer', 'contract DIN', 'contract DIN', 'contract DIN', and 'Klaus Mäyer'.

Hardware

Devices

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

The screenshot shows the TRIDONIC web interface. At the top is a navigation bar with links like 'Sites', 'Company Overview', 'Company Log', 'Manage Users', 'Manage Ranks', 'My Invitations', 'Create Site', 'Downloads', and 'Support'. Below this is a 'Site Summary' table with columns for Emergency Devices, M-Sensors, Lights, Other, and Total. The table shows data for On/Presence Detected, Failures, Predictive Warnings, and Installed Units. Below the summary is a 'Devices' section with a list of devices, including 'basement (0013480213CD)', '2nd floor, R&D Team (0013480213DA)', and '5th floor, office south (00134801E4AB)', each with a version number and a count of devices.

	Emergency Devices	M-Sensors	Lights	Other	Total
On/Presence Detected	20	30	253	1	304
Failures	2	0	1	0	3
Predictive Warnings	18	9	129	2	158
Installed Units	22	48	519	2	591

Device	Version	Count	Status
basement (0013480213CD)	v3.1.7.6	249 Devices	
2nd floor, R&D Team (0013480213DA)	v3.1.7.6	184 Devices	
5th floor, office south (00134801E4AB)	v3.1.7.6	96 Devices	Fail: 3

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

The screenshot shows the 'Devices' section expanded. It lists various devices and lines, including 'basement (0013480213CD)', '2nd floor, R&D Team (0013480213DA)', '5th floor, office south (00134801E4AB)', 'Ground Floor (00134801E4BE)', 'Tridonic Bar (Line 1)', 'Factory canteen (Line 2)', 'Line 3', and 'Line 4'. Each entry shows the version number and the number of devices. A wrench icon is visible next to the 'Ground Floor' entry.

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

The screenshot shows the 'Fail: 1' dialog box. It contains a button labeled 'Edit Details' and a 'Memory' button. The background shows the 'Devices' list with a wrench icon next to the 'Ground Floor' entry.

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

The screenshot shows the 'Devices' section expanded. It lists various devices and lines, including 'basement (0013480213CD)', '2nd floor, R&D Team (0013480213DA)', '5th floor, office south (00134801E4AB)', 'Ground Floor (00134801E4BE)', 'Tridonic Bar (Line 1)', 'Factory canteen (Line 2)', 'Line 3', and 'Line 4'. Each entry shows the version number and the number of devices. A wrench icon is visible next to the 'Ground Floor' entry.

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

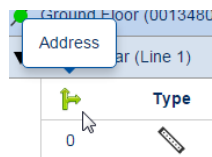
The screenshot shows the 'Devices' section expanded. It lists various devices and lines, including 'basement (0013480213CD)', '2nd floor, R&D Team (0013480213DA)', '5th floor, office south (00134801E4AB)', 'Ground Floor (00134801E4BE)', 'Tridonic Bar (Line 1)', 'Factory canteen (Line 2)', 'Line 3', and 'Line 4'. Each entry shows the version number and the number of devices. A wrench icon is visible next to the 'Ground Floor' entry.

In the Devices menu the following information is displayed:

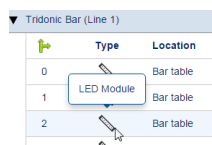
Address, Type (Device Type), Location, Model, Dim Level, Presence and Lux, Energy Usage (), Operating Data, Failure Status.

By moving your mouse over the icons/fields you will get additional information.












Address shows the DALI short address from the device.



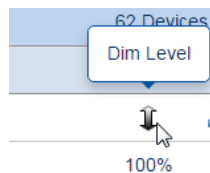
DALI has multiple device types. Type shows the DALI Device type.



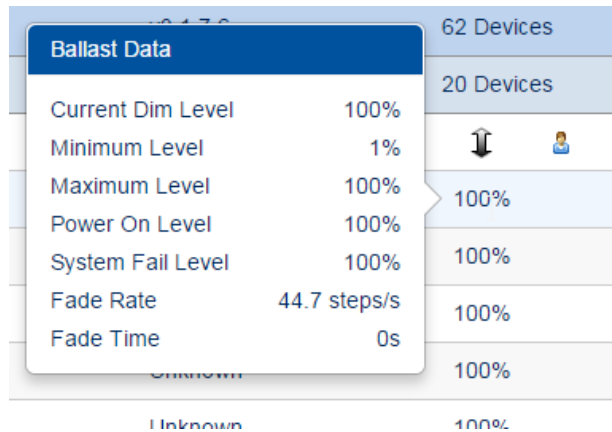
DALI Device Type Icons

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

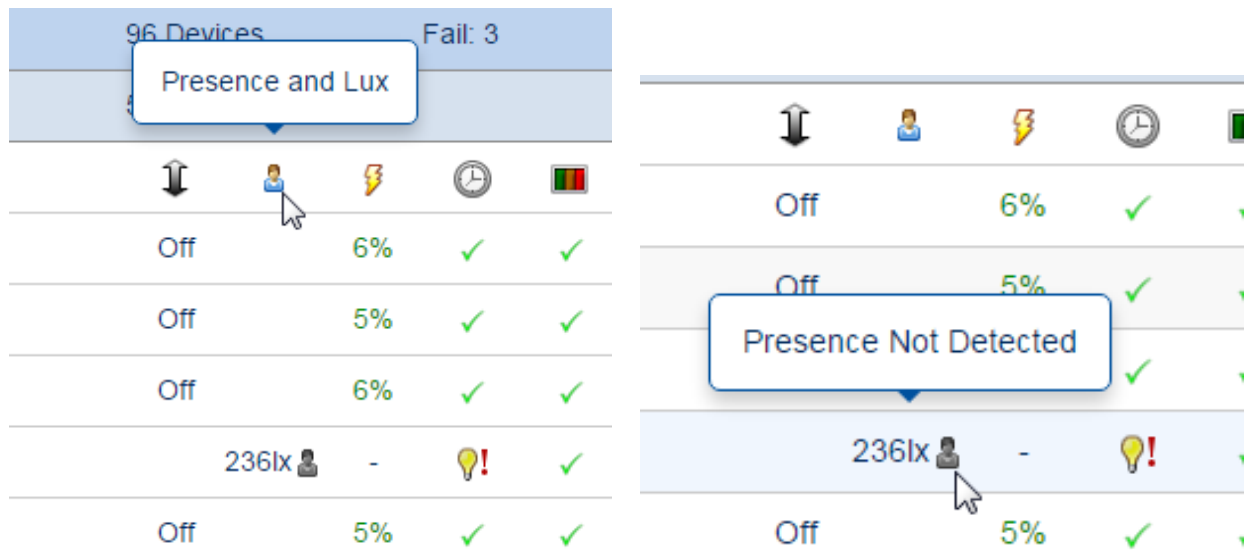
Dim Level shows the actual dim level (intensity of light in percent)



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.

11 Devices

Load Energy

11 Devices

⬆️

👤

⚡

🕒

🇮🇹

⚙️

Actions

Off

💡🕒

💡!

✓

📅

📊

⚙️

Off

💡🕒

💡!

✓

📅

📊

⚙️

62 Devices

Energy Usage

20 Devices

⬆️

👤

⚡

🕒

📱

100%

22%

✓

📱

100%

23%

✓

📱

Energy Status

Current Power Usage61.7W

Device Wattage61.7W

Monthly Performance

Benchmark Running Time200h

Actual Running Time21h

Benchmark Usage12.34kWh

Actual Usage2.69kWh

% of Benchmark Used21.81%

Energy Saved9.65kWh

Fail: 3

⚡🕒

22%✓

23%✓

19%✓

19%✓

19%✓

Operating Data displays the operating data and the maintenance icons.

Operating Data

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

Fail: 3

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

12 Devices

10 Devices

Operating Data












100%



22%

✓

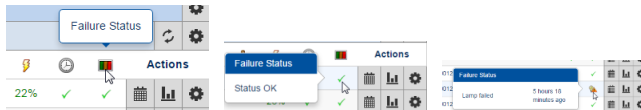
✓








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.
	Status OK	Indicates that the Device is not reporting any warnings at this time.

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

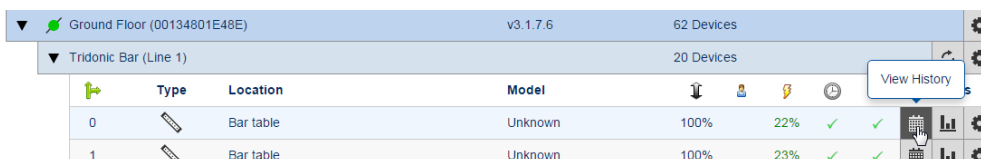


Icon	Warning	Description
	Lamp Fail	Indicates that the lamp has blown or is otherwise faulty.
	Circuit Fail	Indicates a hardware failure within the device. This warning is specific to Emergency Devices.
	Battery Duration Fail	Indicates that the device's battery failed to maintain its output while performing a duration test. This warning is specific to Emergency Devices.
	Battery Fail	Indicates that there is an open circuit or low voltage from the battery. This warning is specific to Emergency Devices.
	Function Test Fail	The device has failed a function test. This warning is specific to Emergency Devices.
	Duration Test Fail	The device has failed a duration test. This warning is specific to Emergency Devices.
	Status OK	The device is not reporting any failures at this time.

Actions

View History

By selecting View History in the Actions field you are able to see the history of the device.



Once you have selected the View History field you will be forwarded to Maintenance > Device History.

TRIDONIC
empowering your team

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

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	100%	18.24kWh
04:00:50 07/09/2015	Bar table		Unknown	Off	18.24kWh
17:02:38	Bar table		Unknown	Off	18.24kWh

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

Ground Floor - Tridonic Bar - Bar table

Maintenance Report
History
Site Documentation
Device History
Device Graphs

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

page to CSV with header Export

Entries per page 25

Time	Type	Location	Model		
05:58:16 07/09/2015	Bar table		Unknown	100%	18.24kWh

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Entries per page 25

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

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

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

Ground Floor - Tridonic Bar - Bar table

Refresh

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	100%	18.24kWh
04:00:50 07/09/2015	Bar table		Unknown	Off	18.24kWh

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

Site Details Scheduling Live3D Maintenance Emergency Lighting Hardware Configure Management

Ground Floor - Tridonic Bar - Bar table

Refresh

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	100%	18.24kWh
04:00:50 07/09/2015	Bar table		Unknown	Off	18.24kWh
17:02:38	Bar table		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

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		
------	------	----------	-------	--	--

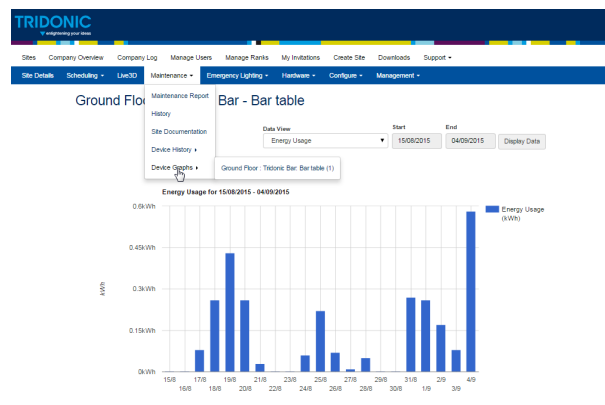
To get back to the Device overview you have to select Hardware > Devices

View Graph

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

Devices

Type	Location	Model	Status	Fail	Actions
0	Basement (0013480213CD)	v3.1.7.6	249 Devices	Fail 1	
1	2nd floor, R&D Team (0013480213DA)	v3.1.7.6	184 Devices		
2	5th floor, office south (00134801E4AB)	v3.1.7.6	96 Devices	Fail 3	
3	Ground Floor (00134801E4BE)	v3.1.7.6	62 Devices		
4	Tridonic Bar (Line 1)		20 Devices		



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



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

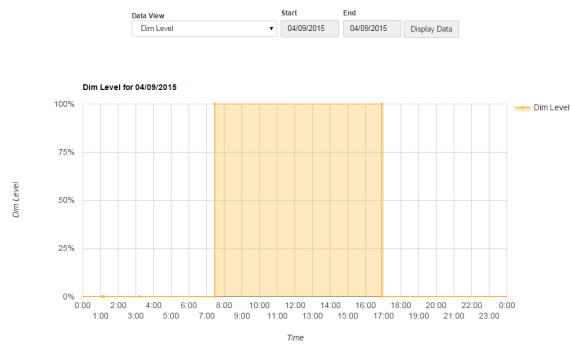


Once you have expanded the day you can easily compare e.g. Energy Usage vs Dimlevel. If you would like to switch from Dim Level back to Energy Usage you only need to change the field Data View and then select Display Data

Ground Floor - Tridonic Bar - Bar table

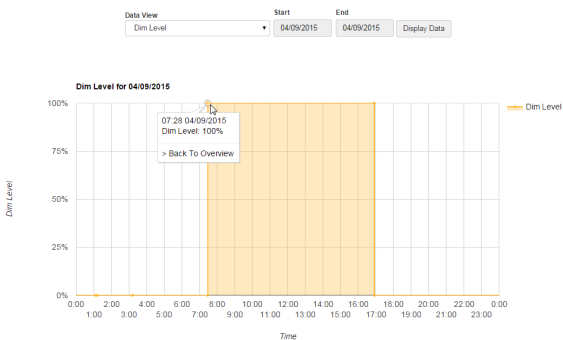


Ground Floor - Tridonic Bar - Bar table

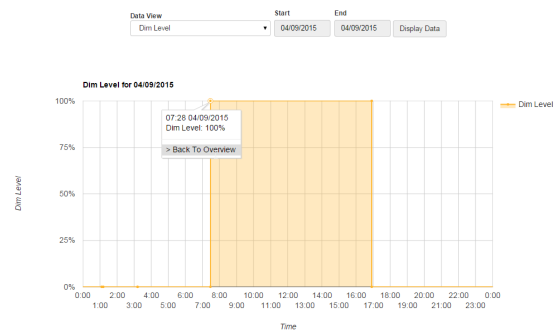


To get back to the overview, just select one of the points in the graph and then select Back To Overview.

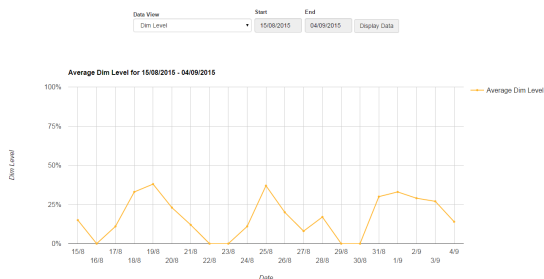
Ground Floor - Tridonic Bar - Bar table



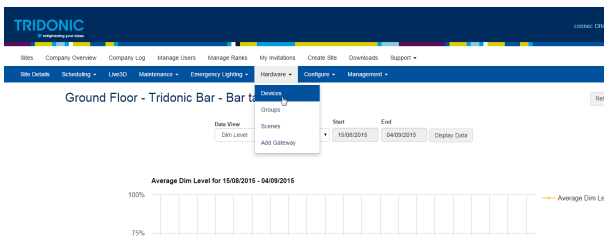
Ground Floor - Tridonic Bar - Bar table



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 or Hide Device.

Type	Location	Model	Manage Device
0	Bar table	Unknown	100% 22%
1	Bar table	Unknown	100% 23%
2	Bar table	Unknown	100% 19%
3	Bar table	Unknown	100% 19%
4	Bar table	Unknown	100% 19%
5	Bar table	Unknown	100% 23%

Edit Details

Edit Details

Replace Lamp

Replace Ballast

Hide Device

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 ?

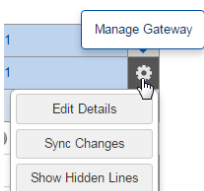
200h inherited from site

Save

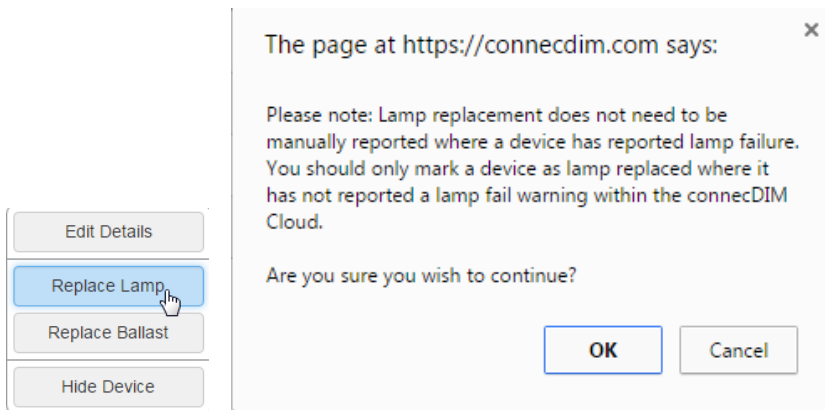
Cancel

Synch Changes

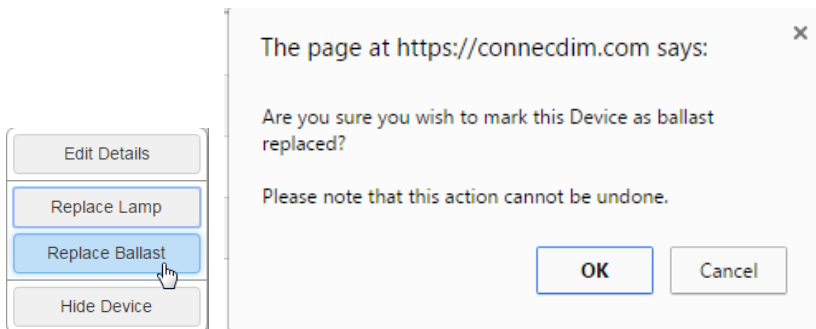
Information filled in in the location field will be displayed in the connecDIMLite App. Once those information is changed, it is necessary to select synch Changes in the manage gateway window. By synching the changes this information will be stored to the connecDIM gateway hard drive, so those information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



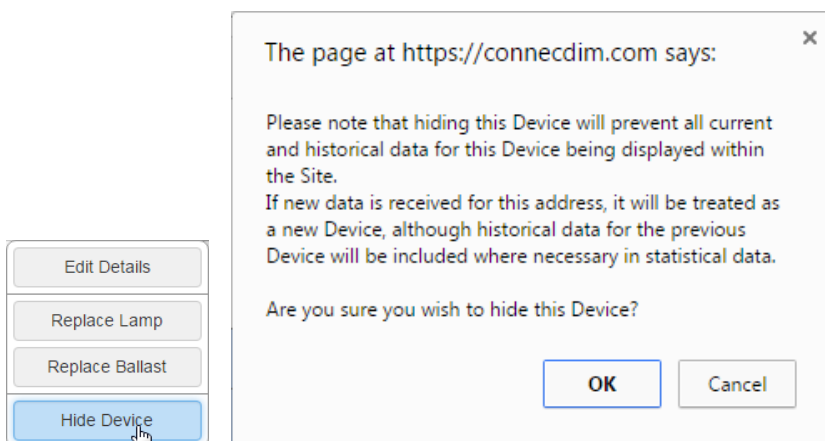
Replace Lamp



Replace Ballast

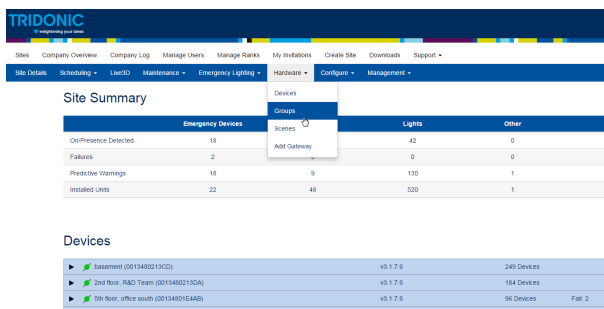


Hide Device

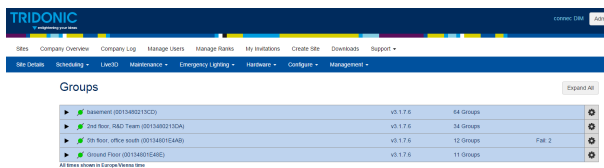


Groups

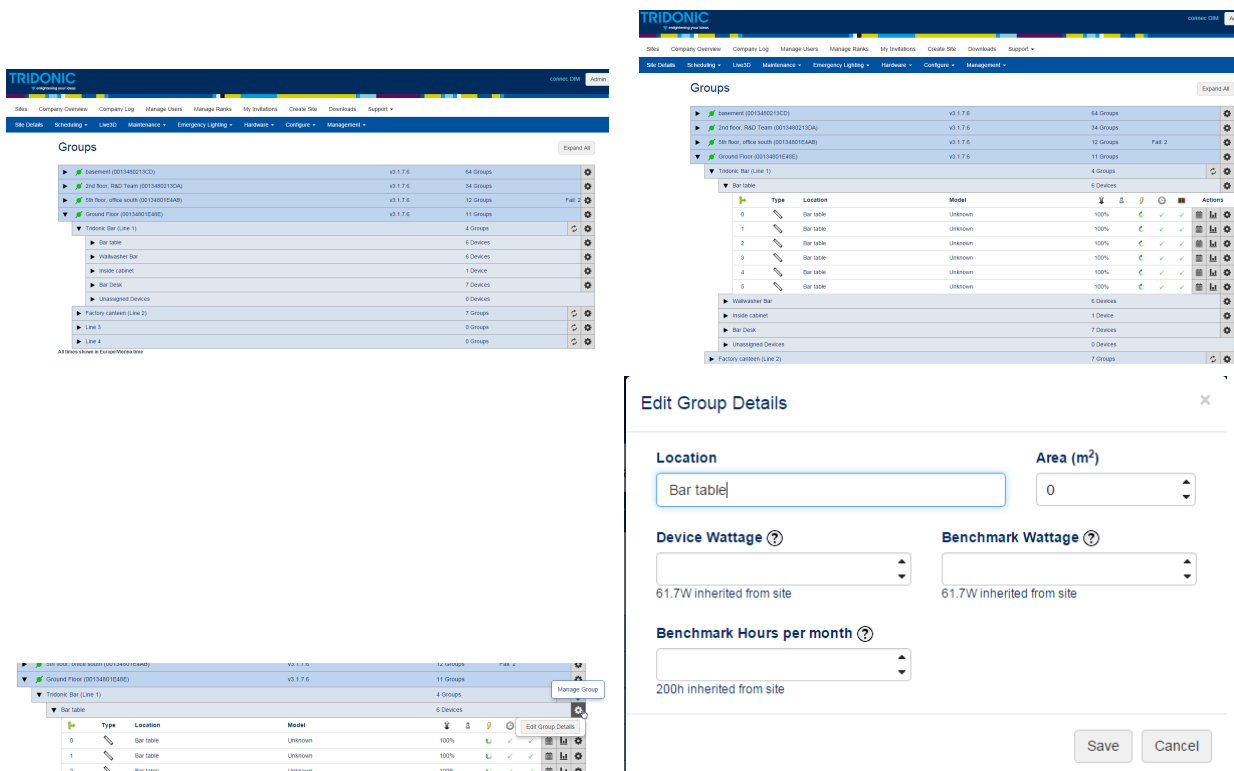
Select Hardware > Groups



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



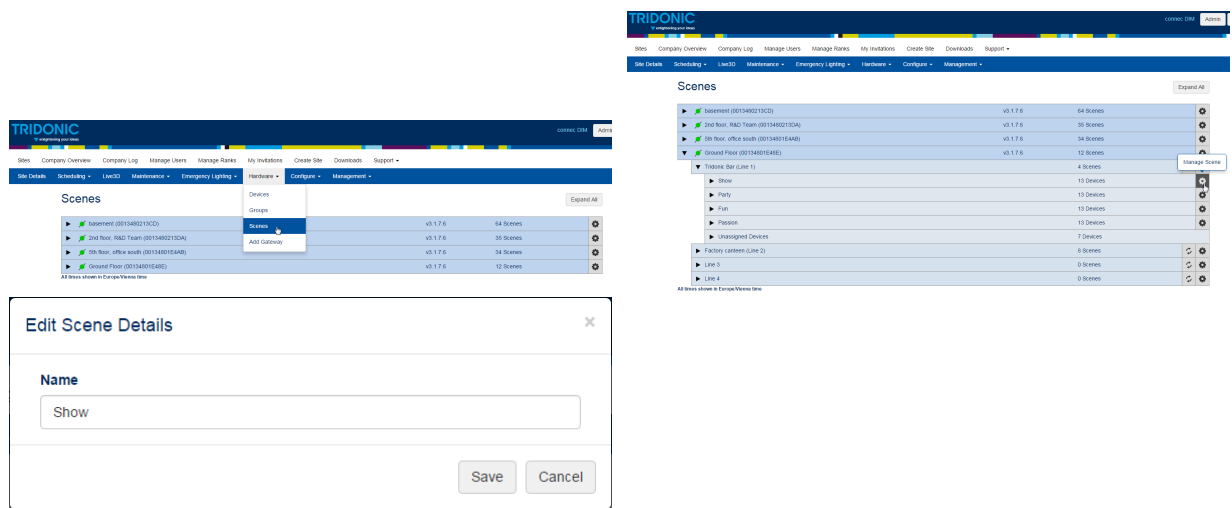
It is possible to Manage Gateways/Lines or Devices Details. An addition to the Device window (Hardware/Devices) is that Group Details can also be managed.



Scenes

Select Hardware > Scenes.

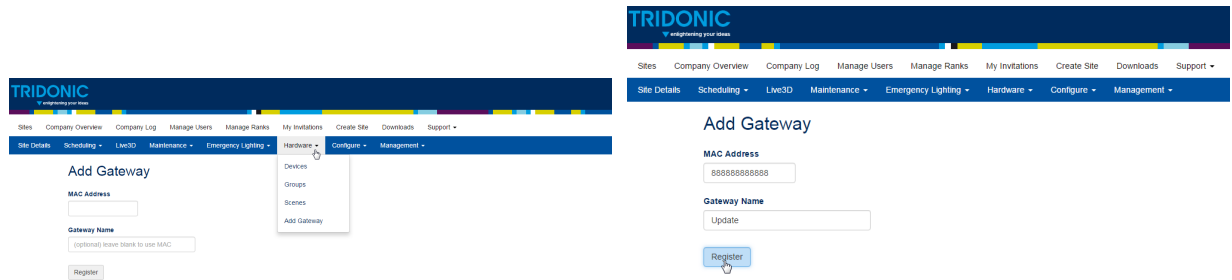
This window shows the overview of the programmed scenes for the different DALI Lines. An addition to the device window (Hardware/Devices) is that Scene Details can also be managed.



Add Gateway

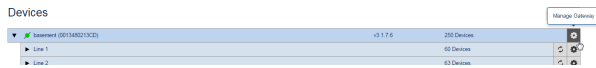
Select Hardware > Add Gateway

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

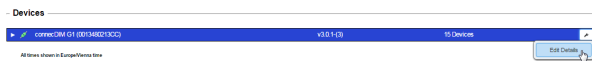


Update Gateway Firmware

Select Hardware > devices > manage gateway

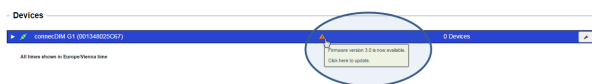


Select Edit Details.



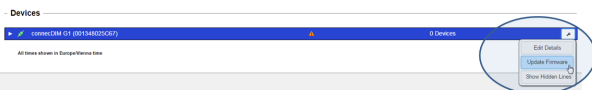
Select Yes for Notify of firmware Updates.

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



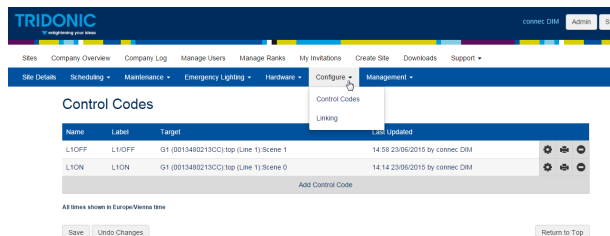
The firmware can be updated by clicking on the triangle with the call sign or by selecting the gear symbol on the right side.

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 Configure

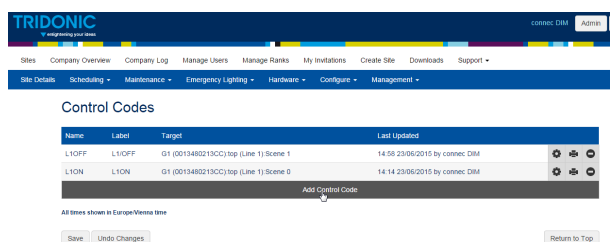
Configure window displays Control Codes and Linking



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.

Add Control Code

Name

Label (optional)

Preview

Gateway

G1 (0013480213CC)

Line

top (Line 1)

Target Type

Broadcast

Target Scene?

No

Yes

Save

Close

Once you have made your settings select Save.

Add Control Code

Name

Label (optional)

Preview

Gateway

G1 (0013480213CC)

Line

bottom (Line 2)

Target Type

Broadcast

Target Scene?

No

Yes

Scene

Scene 0

Save

Close

Existing control codes can be edited, printed and removed

Control Codes

Name	Label	Target	Last Updated
L1OFF	L1OFF	G1 (00134802130C) top (Line 1) Scene 1	14:59 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	

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	

Control Codes

Name	Label	Target	Last Updated
L1OFF	L1OFF	G1 (00134802130C) top (Line 1) Scene 1	14:59 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	

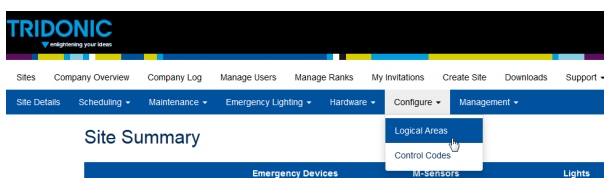
Logical Areas

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

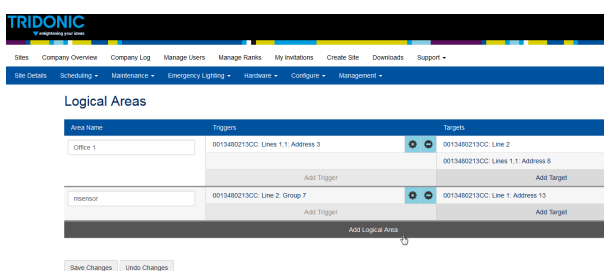
connecDIM makes it possible to control buildings in spaces (e.g. rooms, levels) without having to know DALI.

Opportunities offered by logical areas:

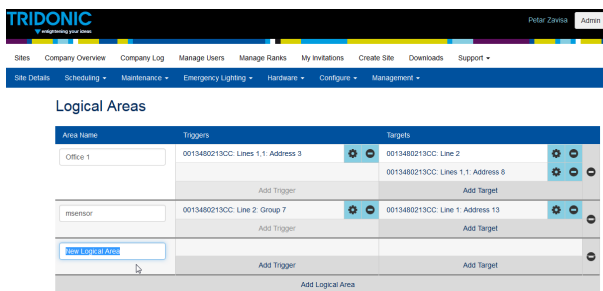
- ▶ Be controlled with one Tridonic DALI device
- ▶ Provide an energy graph over larger space
- ▶ Email report on failures and warnings
- ▶ Can be scheduled
- ▶ Can be restricted to a System Administrator



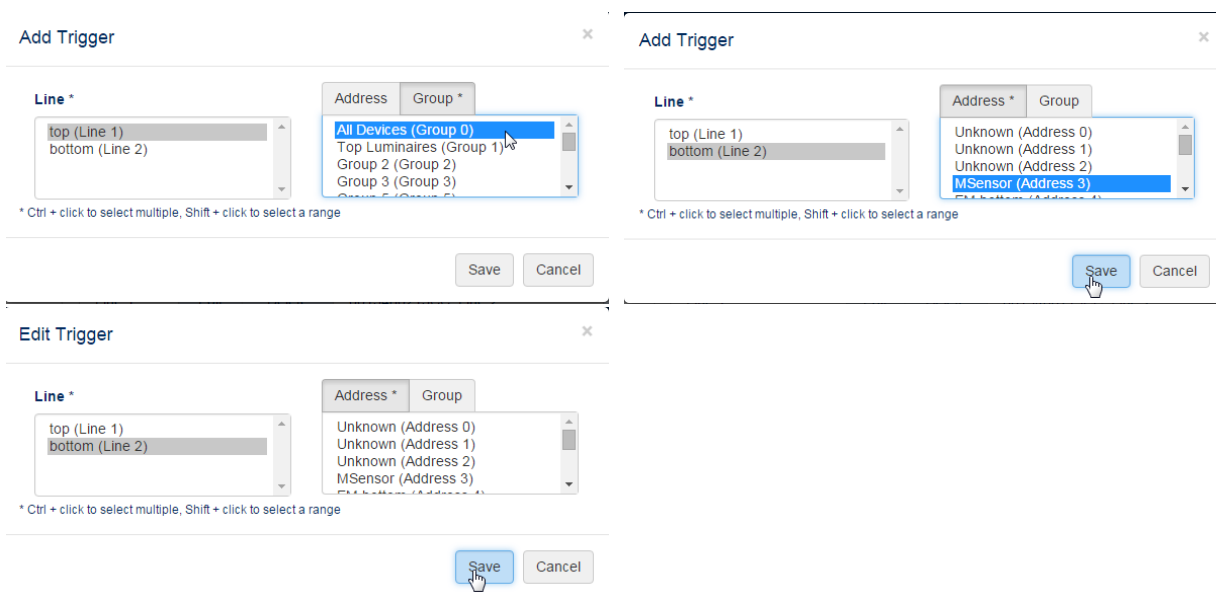
Select add logical area.



Type in a name for the logical area.



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. No risk of large areas being triggered accidentally.

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 send to Line 2 but Logical Area 2 will not be triggered.

Supported commands for logical areas

Following commands send 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

GO TO SCENE (0-15)

Color:

SET TEMPORARY COLOUR TEMPERATURE T_c

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 about shallow and medium scan please have a look in [connecDIM Dokumentation#ShallowandMediumScan](#), p.

Once you have made your settings select save changes.

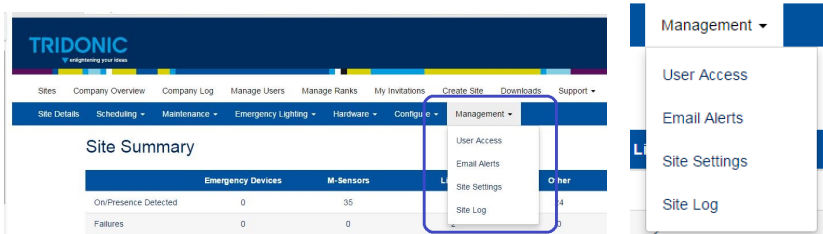
Logical areas can be enabled/disabled or deleted.

Logical Areas

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.

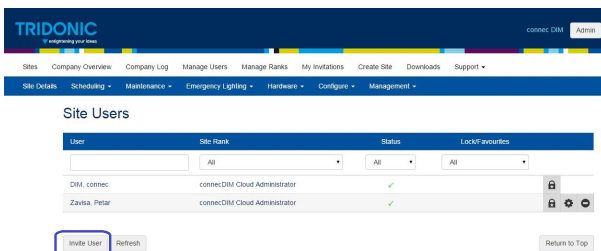


User Access

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](#), p. 15).

×

Invite User

Company User

Other User

User

Select a user

Site Rank

connecDIM Cloud User

Invitation Expiry

12/10/2015

Send Invite

Cancel

×

Invite User

Company User

Other User

User

Select a user

Select a user

Ales Rehar

Barth Volker

connecDIM Cloud User

Invitation Expiry

12/10/2015

Send Invite

Cancel

Invite User

Company User Other User

User

Barth Volker

Site Rank

connecDIM Cloud User

12/10/2015

Send Invite Cancel

Invite User

Company User Other User

User

Barth Volker

Site Rank

connecDIM Cloud User

Invitation Expiry

12/10/2015

Send Invite Cancel

Other User

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 to be able to get access to your site.

Invite User

Company User Other User

Email Address

Site Rank

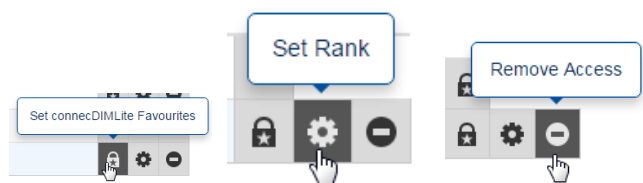
connecDIM Cloud User

Invitation Expiry

12/10/2015

Send Invite Cancel

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



Set connecDIMLite Favorites

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

Modify favourites for connec DIM

Please note: all users must sign into the connecDIM Cloud on or after June 22 2015 before they will be able to log in via the connecDIMLite app.

Lock UI

Yes No

Favourites

Gateway	Line	Type	Number
Add New			

Save Reset Cancel

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.

Modify favourites for connec DIM

Setting Lock UI to yes will prevent users from creating their own favourites on the site, and will force them to use the favourites defined below.

Yes No

Favourites

Gateway	Line	Type	Number
Add New			

Save Reset Cancel

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

Modify favourites for connec DIM

Setting Lock UI to no will allow users to create their own favourites. The favourites defined below will not be available to the user.

Yes No

Favourites

Gateway	Line	Type	Number
Add New			

Save Reset Cancel

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)

Favourites

Gateway	Line	Type	Number
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Broadcast	
Add New			

Save Reset Cancel

Favourites

Gateway	Line	Type	Number
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Broadcast	
Add New			

Favourites

Gateway	Line	Type	Number
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Broadcast	
Add New			

Favourites

Gateway	Line	Type	Number
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Group	Bar table
Add New			

Please note: all users must sign into the connecDIM Cloud on or after June 22 2015 before they will be able to use the connecDIMLite app.

Lock UI

Favourites

Gateway	Line	Type	
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Broadcast	X
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Group	X
Ground Floor (00134801E48E)	Tridonic Bar (Line 1)	Address	X

Add New

Bar table (3)
Bar table (4)
Bar table (5)
Wallwasher Bar (6)
Wallwasher Bar (7)
Wallwasher Bar (8)
Wallwasher Bar (9)
Wallwasher Bar (10)
Inside cabinet (11)
Wallwasher Bar (12)
Bar Desk (13)
Bar Desk (14)
Bar Desk (15)
Bar Desk (16)
Bar Desk (17)
Bar Desk (18)
Bar Desk (19)
Bar table (0)

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

Drag to reorder

Favourites

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

Add New

Drag to reorder

Lock UI

Favourites

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

Add New

Drag to reorder

Favourites

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

Add New

Remove favourite

Also, it is possible to delete/remove favourites

Favourites

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

Add New

Remove favourite

Favourites

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

Add New

Save Reset Cancel

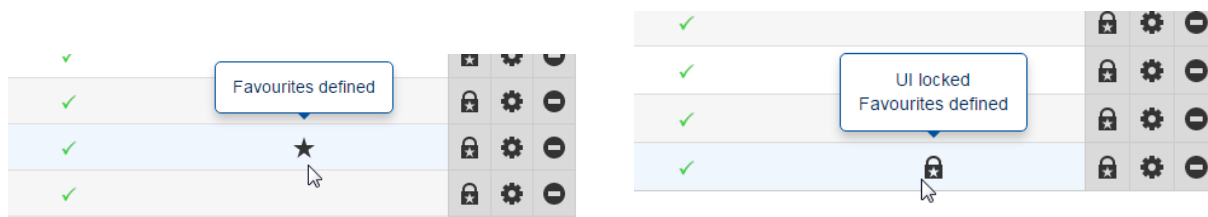
Save

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

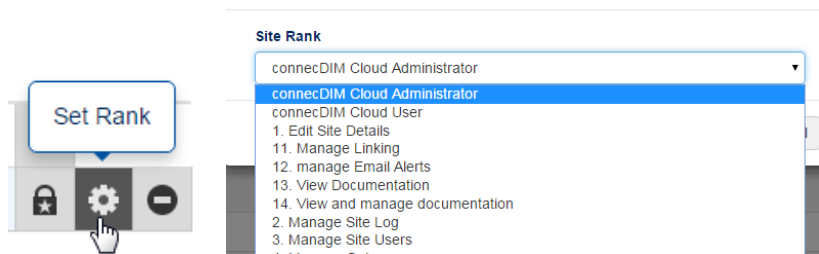
Important: Keep in mind that the user will see his favourites in the connecDIMLite app only if you lock the UI.



Set Ranks

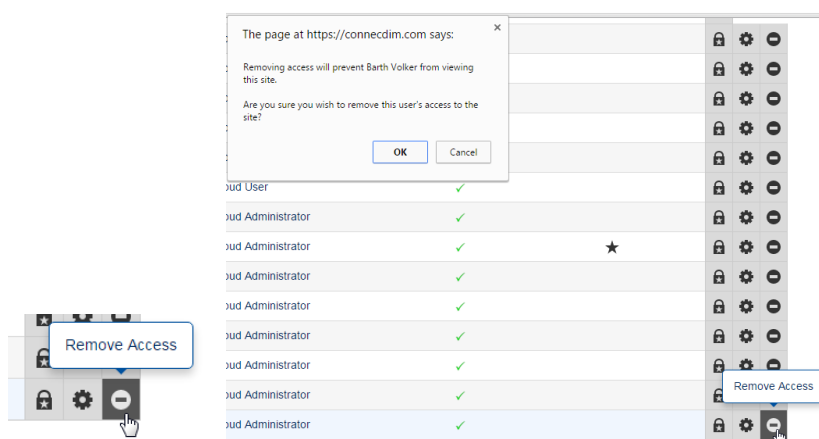
There are three default ranks predefined for the connectDIM cloud: Administrator, User and app user. It is possible to create additional ranks (for more details see section [Site Rank Icons](#), p. 16).

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



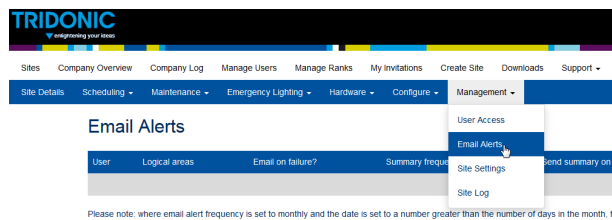
Remove Access

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.

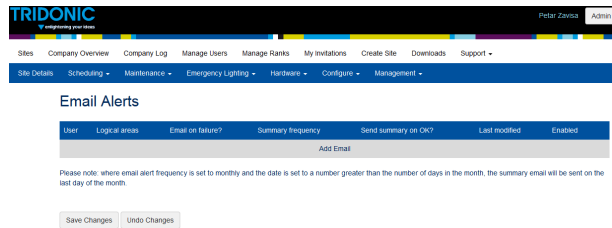


Email Alerts

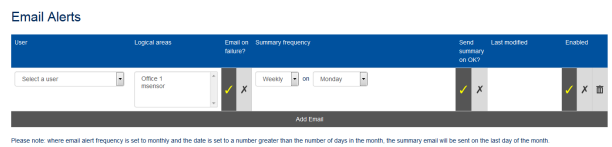
Select Email Alerts in the Management drop down menu.



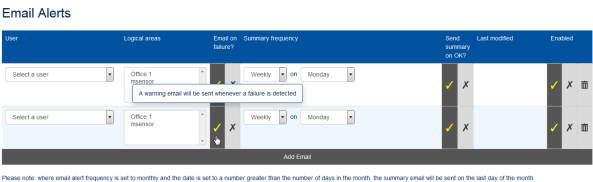
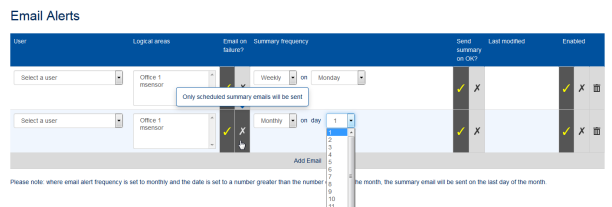
Select Add Email to setup Email Alerts.



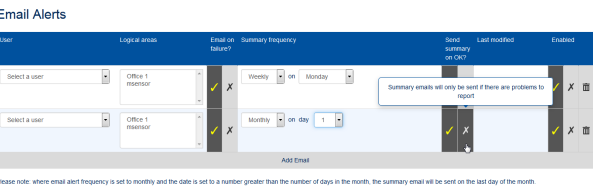
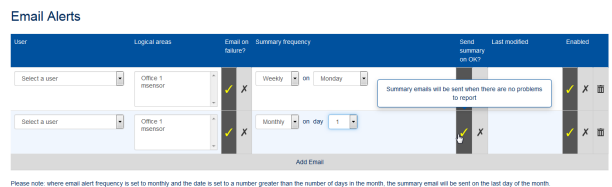
Select the user who will receive an email and the logical areas which should be reported.



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 send and for monthly you can select the date.



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



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

Save Changes

Email Alerts

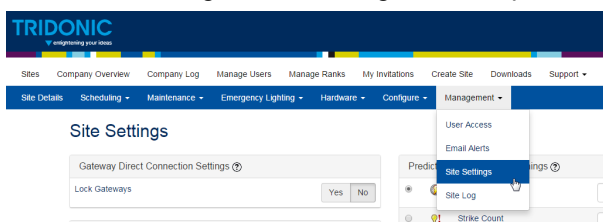
User	Log in as	Email on failure?	Summary frequency	Send summary on Day?	Last modified	Enabled
Select a user	Office 1 Inspector	<input checked="" type="checkbox"/>	Weekly on Monday	<input checked="" type="checkbox"/>	X	<input checked="" type="checkbox"/>
Select a user	Office 1 Inspector	<input checked="" type="checkbox"/>	Monthly on day 1	<input checked="" type="checkbox"/>	X	<input checked="" type="checkbox"/>

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.

[Save Changes](#) [Undo Changes](#)

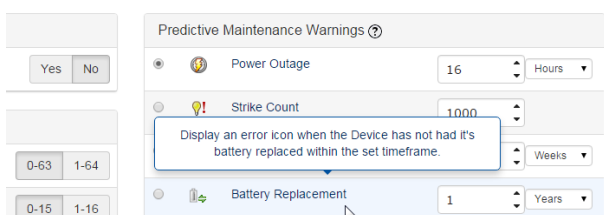
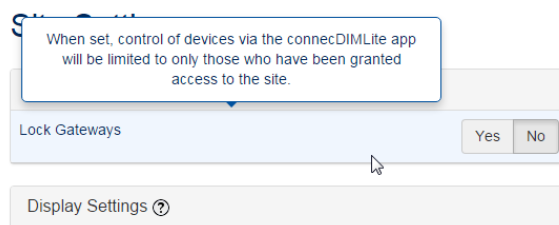
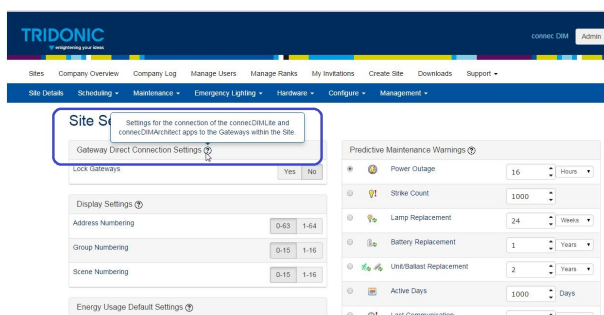
Site Settings

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.



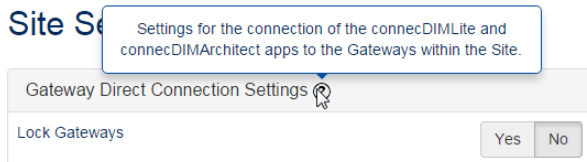
Gateway Direct connection Settings

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.

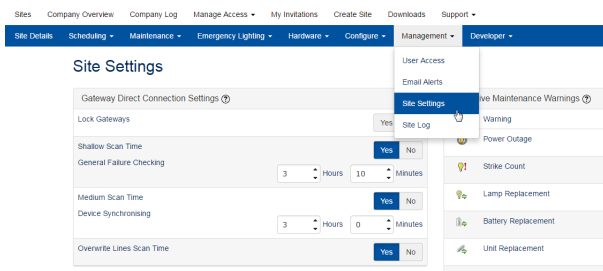
⚠ CAUTION!

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 will be operable.



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.



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

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

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

Faster interwalls

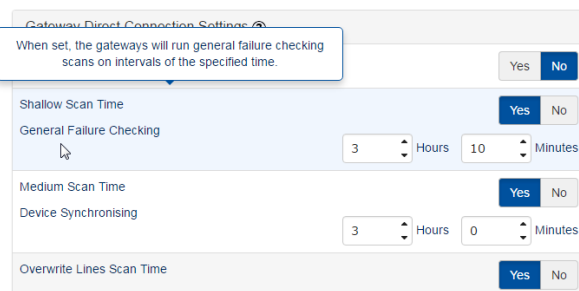
+higher resolution of the data send to cloud

-higher internet traffic
-higher risk of delays in LA

Slower interwalls

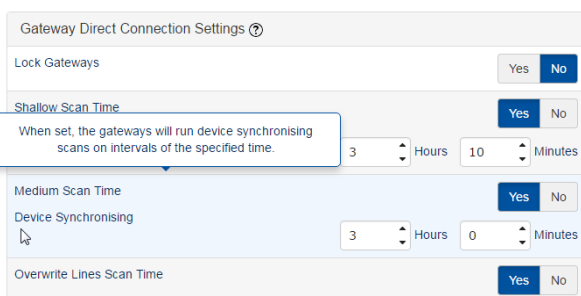
+lower internet traffic
+lower risk of delays in LA

-lower data resolution



Shallow Scan is needed for general failure checking and status update
Following parameter are send to the cloud during shallow scan

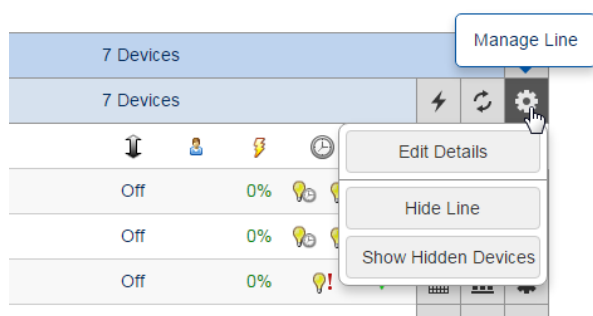
-how many devices are connected
-are there any failures
-what is the actual light level



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

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

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



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

Name
Line 3

Shallow Scan Time ?
Yes ☒ No ☐ 0 Hours 1 Minutes

Medium Scan Time ?
Yes ☒ No ☐ 0 Hours 1 Minutes

Save Cancel

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

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

Site Settings

Gateway Direct Connection Settings ?

Lock Gateways Yes ☒ No ☐

Shallow Scan Time Yes ☒ No ☐

General Failure Checking 0 Hours 10 Minutes

Medium Scan Time Yes ☒ No ☐

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

3 Hours 0 Minutes

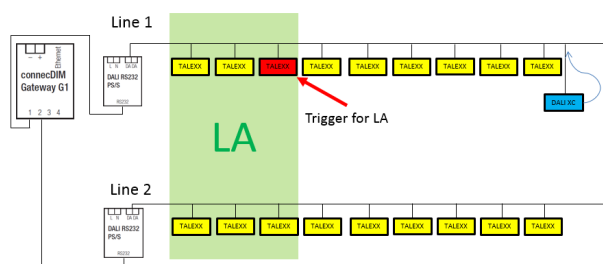
Overwrite Lines Scan Time Yes ☒ No ☐

To change the individually programmed times on Line basis

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

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

Example



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

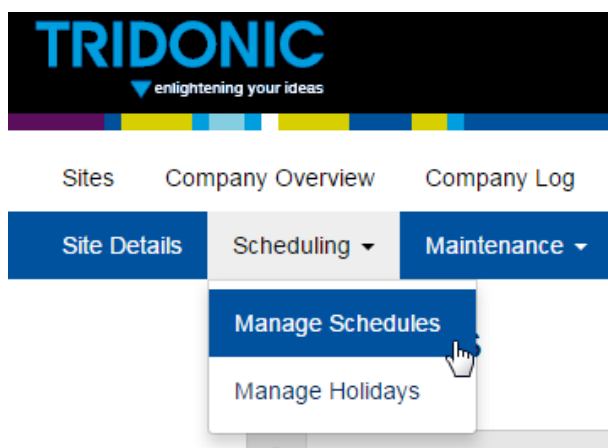
LA is part of Line 1 and Line 2

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

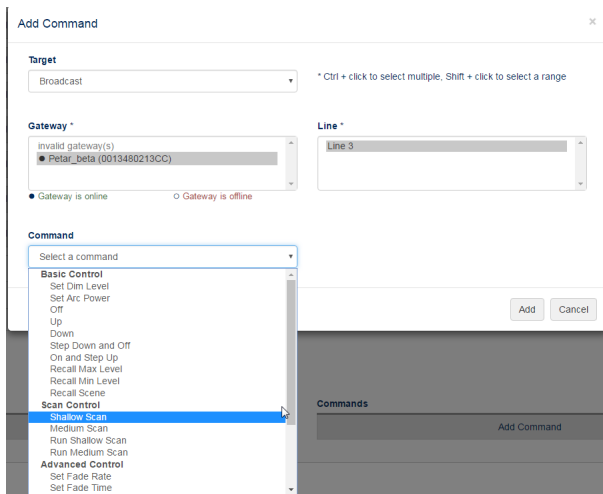
Shallow and Medium scan still can be enabled for Line 2.

To still be able to monitor Line 1

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



To open the Scheduler menu go to Scheduling / Manage Schedules



In the new Scheduler select Broadcast as Target

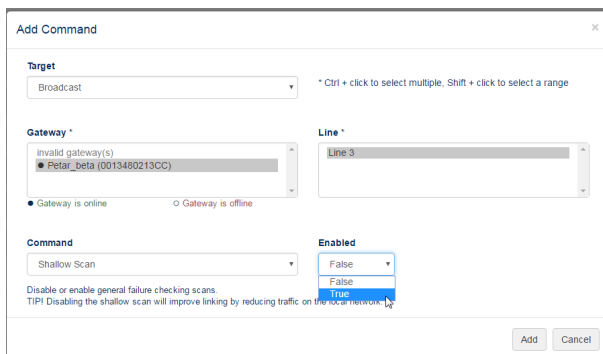
Select the GW where the Trigger is located

Select the Line where the Trigger is located

In the Commands the Scan Control commands are now available.

There are four options

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



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

Two options are available True and False.

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

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

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

In This case you have to program two Schedules

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

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

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

» Medium Scan

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

Two options are available True and False.

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

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

» 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

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.

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.

Actually there are three different settings you can change:

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.

0-631-64

0-151-16

0-151-16

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.

0-151-16

60.5 Watts |

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

connecDIM | 07-2016 | 1.2 | en

80 | 95

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

60.5 Watts

90 Watts

200 Hours

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

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

Show Address changes

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

Hours

Show Address changes in Recent Warnings	<div>Yes</div> <div>No</div>
Show Timezone changes in Recent Warnings	<div>Yes</div> <div>No</div>
Show Time Offset changes in Recent Warnings	<div>Yes</div> <div>No</div>
Show multiple Group Warnings in Recent Warnings	<div>Yes</div> <div>No</div>

Show Timezone changes

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

	<div>Yes</div> <div>No</div>
Show Timezone changes in Recent Warnings	<div>Yes</div> <div>No</div>
Show Time Offset changes in Recent Warnings	<div>Yes</div> <div>No</div>
Show multiple Group Warnings in Recent Warnings	<div>Yes</div> <div>No</div>

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.	
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 Multiple Group Warnings

Recent Warning Settings ?	
Show Address changes in Recent Warnings	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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 device has been without mains power within the time frame specified in the Predictive Maintenance Settings.

Display an error icon when the Device has reported a power outage within the set timeframe.

Power Outage 16 Hours

Predictive Maintenance Warnings ?


Power Outage 16 Hours

Strike Count 1000 Days
Weeks
Years

Strike Count


Predictive Maintenance Warnings ⓘ

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

☐  Strike Count


Lamp Replacement

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

☐  Lamp Replacement



Battery Replacement

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

☐  Battery Replacement


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


Active Days

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

☐  Active Days Days


Last Communication

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

☐  Last Communication Hours


Operating Time

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

☐  Operating Time 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 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


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

Add / Remove Warnings


It is possible to remove warnings which aren't needed. To remove a warning you have to select the warning in question and then select Remove Warning . In this case the warning Bus Error is selected 

 Bus Errors 1 Days

 Add Warning

Remove Warning

Once removed, warnings can also be added back again.

 Last Emergency Duration Test 3 Days

Bus Errors Add Warning

Bus Errors

Remove Warning

Save Site Settings

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

The screenshot shows the 'Save Site Settings' interface. It includes sections for '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), and 'Recent Warning Settings' (Show Address changes, Show Timezone changes, Show Time Offset changes, Show multiple Group Warnings). There are also settings for 'Unit/Ballast Replacement', 'Active Days', 'Last Communication', 'Operating Time', 'Emergency Battery Time', 'Last Emergency Function Test', and 'Last Emergency Duration Test'. At the bottom, there are buttons for 'Save Settings', 'Reset to Last Saved', 'Reset to Default', and 'Return to Top'.

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

or to reset it to default

Site Log

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

The screenshot shows the 'Site Log' page. It includes a 'Recent Warning Settings' section with options to show address changes, timezone changes, time offset changes, and multiple group warnings. A tooltip explains that these settings affect all users viewing the site. Below the settings, there is a table of recent warnings with columns for Time, Type, Event, and User. The table shows two entries: 'Site Settings modified' at 21:07 on 14/09/2015 and 'Schedules modified for G1 (0013480213CC)' at 19:42 on 14/09/2015.

Select Site Log in the Management drop down menu.

The screenshot shows the 'Management' dropdown menu with options like 'User Access', 'Email Alerts', 'Site Settings', and 'Site Log'. The 'Site Log' option is highlighted. Below the menu, there is a 'Site Log' section with filters for Start Time, Start Date, End Time, End Date, Filter, and User. The table of recent warnings is also visible.

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

connecting your ideas

connect DIM

SitesCompany OverviewCompany LogManage UsersManage RanksMy InvitationsCreate SiteDownloadsSupport

Site DetailsSchedulingMaintenanceEmergency LightingHardwareConfigureManagement

Site Log

Start TimeStart DateEnd TimeEnd DateFilter

00:0014/06/201523:5911/09/2015AllUser ChangesHardware WarningsSearchReset

Entries per page25

12345

Time	Type	Event	User
15:02		Device: 001348021401 Line 2 Address: 14 is assigned to more than one Group	
11/09/2015			

User Modification

21:0714/09/2015Site Settings

19:4214/09/2015Address ChangeSchedules modified

11:3126/08/2015Device at MAC Address changed

Site Log

Start TimeStart DateEnd TimeEnd DateFilter

00:0017/06/201523:5914/09/2015AllUser ChangesHardware WarningsSearchReset

Entries per page25

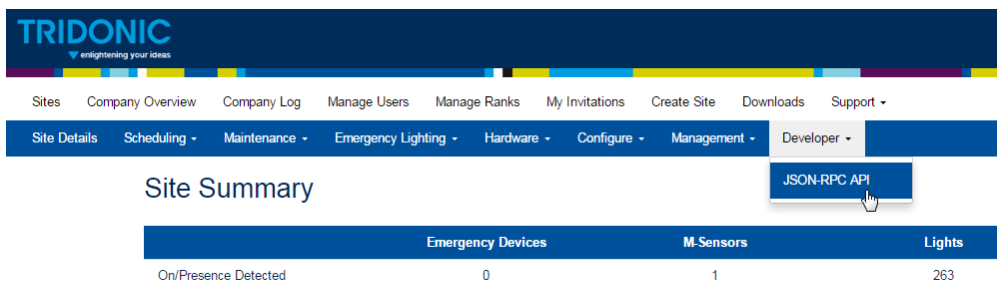
12345

Time	Type	Event	User

JSON-RPC API configurator

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

Function can be found under Developer/JSON-RPC API



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

Change GW IP via JSON-RPC

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

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

Take care the code is case sensitive

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

222.222.222.222 = New IP address for the GW

333.333.333.333 = IP of your router

255.255.255.0 = Netmask

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

Change Proxy via JSON-RPC

Read:

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

Configure:

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

111.111.111.111 = IP of your proxy server

myusername = your username

mypassword = your password

Disable:

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

Download and Use the connecDIM Apps

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

connecDIM Lite

- ▶ 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)

connecDIM Architect

- ▶ 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

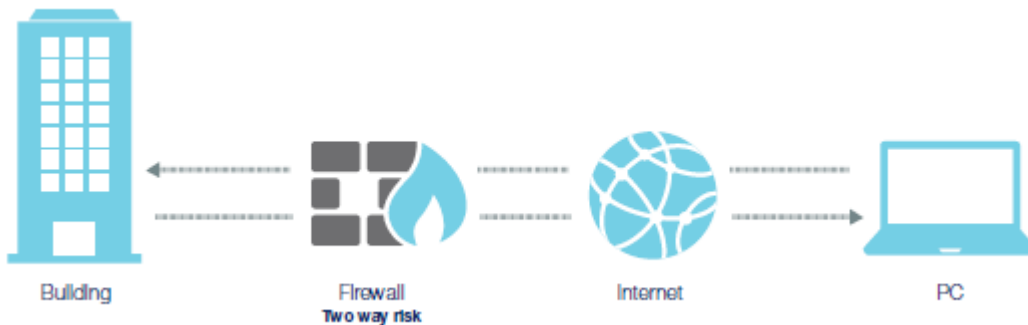


([Download](#))

Cloud Security

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?

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.

Password Security

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

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.

Password Security

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

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.

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 Zavisa

✓ X

Name

LoT

Type

Schedule

Light Curve

Season

All Year

Between

Jan 01

to

Dec 31

Run on Holidays

Yes

No

Enabled Commands

Level

Colour Temp

Colour XY

Frequency

Weekdays

Targets

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

Add Target

Time

Command

6:00:00

CT: 6000K

↑

↓

19:00:00

CT: 3000K

↑

↓

Add Point

Documentation Version History

connecDIM | 11-2015 | 1.0 | en

Date	Version	Comment
19.11.2015	1.0	first official version
17.12.2015	1.1	Logical Areas updated
28.01.2016	1.2	Chapter 4.1 Updated
19.07.2016	1.3	New function described in Release notes 19.07.2016 implemented to documentation