

System Manager

Installation Guide

Revision 09





About this Guide

Overview

This guide is designed to assist in installing and configuring the System Manager software.

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Technical Support Contacts

Contact Controls, Systems & Services, Philips Lighting call desk for assistance with hardware or software questions:

Email

support.controls@signify.com

Web

www.dynalite.com

Conventions

① Caution: highlights safety issues or where there is a risk of permanent damage to equipment.

■ Note: highlights key factors that needs to be considered.

& Tip: highlights shortcuts, accepted conventions and best practice.

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Introduction

System Manager (SM) is the head-end software solution offered by Philips Dynalite. SM enables centralized control of the entire lighting system or parts of the lighting system based on individual user permissions.

SM is developed to deliver industry leading levels of control, monitoring and maintenance of lighting systems. The software is compatible with all current Dynalite products/solutions and can be used on any Philips Dynalite project. Moreover, it is able to integrate seamlessly with Building Management Systems to support the needs of a fully integrated building.

The software provides insights into the way a lighting system is operating, highlighting areas where improvements can be made on a daily operational basis as well as part of long-term strategies and delivering the flexibility to optimize energy efficiency and maximize user comfort.

SM is designed to meet the needs and expectations of both building users and facilities managers.

Standard commissioning using System Builder creates a configuration file which becomes the basis for System Manager; leaving the commissioning engineer to focus on setting up the tailored interface to best match the end-user needs.

SM further facilitates a wide range of lighting system management and maintenance activities. The maintenance functionality of SM can identify luminaires approaching the end of their lamp life or which have already failed, as well as failed ballasts and other faults on the system. The alerts overview provides a summary of current alerts with details on the state of each item. This helps the building/facilities manager prioritize and address maintenance activities, both planned and unplanned.

System Manager at a glance:

- Controls manages and monitors lighting systems
- Seamlessly integrates with Building Management Systems (BMS)
- Allows activity scheduling
- Generates performance reports
- Simple to implement as it makes use of the System Builder configuration file
- Enables easy maintenance



Installation components

Server Installation

This section lists the software installed for System Manager.

The server installation consists of two components that are installed separately.

- 1. Prerequisite Software installation
- 2. Philips Dynalite System Suite installation

The Prerequisite software installation installs the components required for successful installation and working of Philips Dynalite System Suite software.

Client installation

The client software is installed on the server by default. You can install multiple versions of the client software on different PCs to access System Manager.

Note: A maximum of 15 concurrent SM client users is recommended.

SM Client Integrates with and uses Windows Domain Security Groups and User Rights configurable on a user and group basis.

Install SM client:

- 1. Copy the installation files located in the following folder on the SM server:
 - "C:\Philips Dynalite\System Manager\System Manager Client"
- 2. Run setup.exe on a user's PC.
- 3. In Windows, click System Manager to open the System Manager client.

Optional client

System Dashboard

Optional BMS Interface

OPC proxy server application



The Prerequisite installer performs a check on the system and installs the following:

Names of the software components installed after running Prerequisite installer	
Microsoft .NET Framework 3.5 SP1 (Windows Feature) for Windows 8	
Microsoft .NET Framework 4.0 Full for Windows 7 and below OS	
Microsoft Visual C++ 2010 Redistributable package (x64)	
Microsoft Visual C++ 2010 Redistributable package (x86)	
MSXML 4.0 SP3 for all OS	
Microsoft SQL Server 2012 (x86 & x64)	

Philips Dynalite System Suite installer has the following components:

Component	Sub-Components
System Manager	System Manager Server communicates with the Client software (System Manager and Switch)
	System Manager Configuration for configuring the database, site users and site settings
	System Builder commissioning software. The version installed is compatible with Philips Dynalite System Manager Suite.
Client Setup Repository	System Manager Client software used to control, monitor and maintain lighting systems.
	Switch is a software application that can be linked to a computer's screen- saver to control the lights above the desk where the computer is placed

♠ Note: For information on making the system and server more secure, please refer to the System Hardening Guide and the OS Hardening Guide



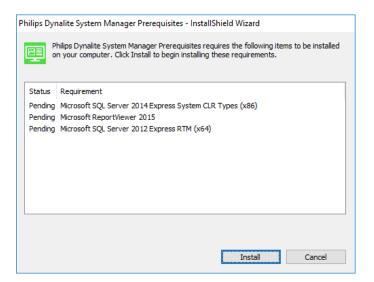
Prerequisite Software Installation

Ensure that "EMSERVER" instance is created in SQL Server (either licensed SQL or SQL express). Once it's available, then when prerequisite is run, it will skip SQL installation as the machine already has it installed.

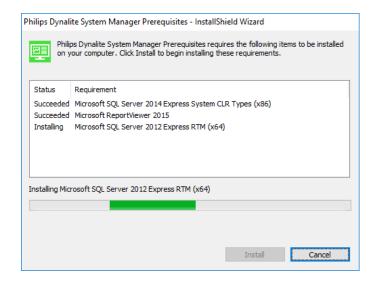
Note: If the customer would like to use a licensed SQL server on a remote machine, then the prerequisites installer will install a local "EMSERVER" SQL Express instance. They would then have to point SM at the remote SQL server instance when they run the SM installer. They could then delete the local "EMSERVER" SQL Express instance.

Follow the steps below to install the prerequisites

1. Right click the System Manager prerequisite setup file from an explorer window and select Run as administrator.



2. System Manager Prerequisites wizard is displayed; click Install to start the installation.



The System Manager prerequisite software starts to install.

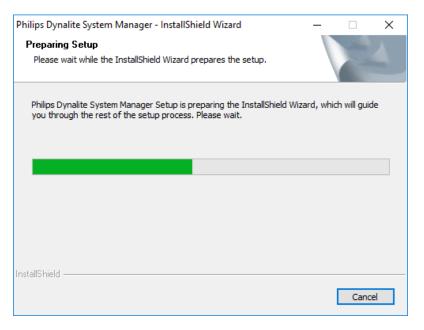
Once the prerequisite software is installed the wizard ends automatically.



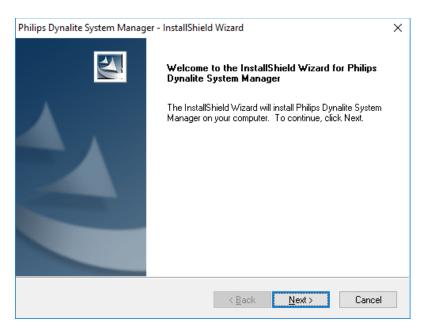
Philips Dynalite System Manager Suite Installation

♦ Note: to enable Dynalite APIs and System Dashboard, you must first install Postgres SQL database and configure Microsoft Internet Information Services. Please follow the installation steps in the Dynalite API User Guide.

 Right click the System Manager setup file from an explorer window and select Run as administrator. The Philips Dynalite System Manager – InstallShield Wizard is displayed.

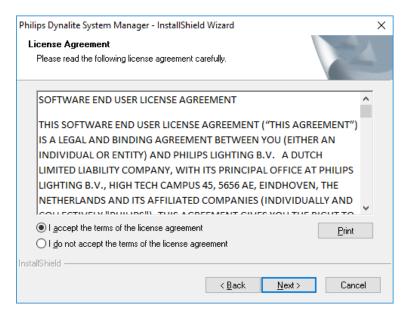


2. Click Next.

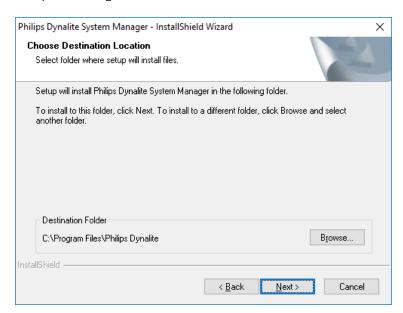




3. Accept the license agreement and click Next.

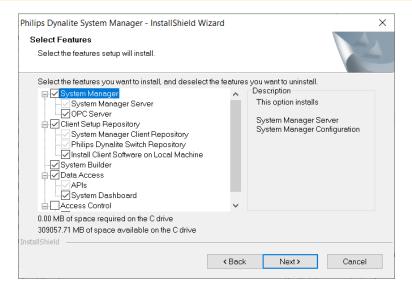


If required change the installation folder via the Browse button and click Next.

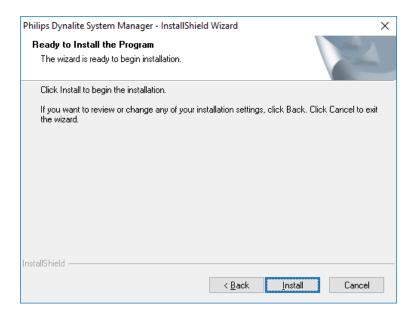




- 4. Select the features to install from the list and click Next. Select *System Manager* and/or *Client Setup Repository* depending on the requirements.
- **♠ Note**: If you want to select Data Access to enable the APIs and System Dashboard, then please cancel the installation and follow the Installation steps in the Dynalite API User Guide.



5. Click Install to install the selected features.

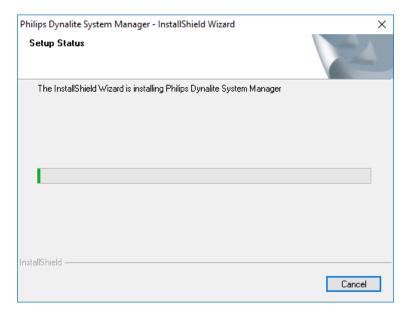


The installer installs files into different destination folders. System Manager related files are stored in the Program Files folder. The client files are stored at Windisk, for example:

C:\Philips Dynalite\System Manager.



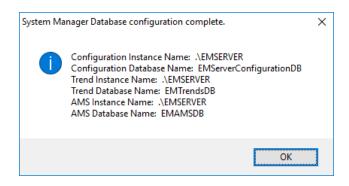
During the installation the progress is shown.



A second pop-up notifies that the SQL server instances are connected



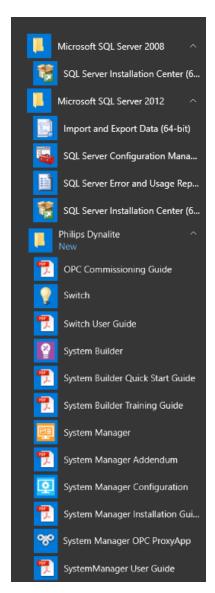
Once the installation is completed, the wizard displays a message to confirm that System Manager Server and Databases are created. This indicates successful creation of SQL instance and database creation





After the database creation, a message is displayed to indicate Philips Dynalite System Suite installation was successful.

The SM installer installs the following program shortcuts on the computer.





System Manager Configuration

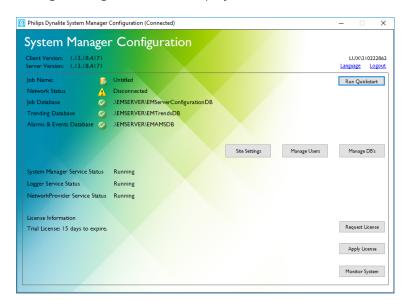
The System Manager Configuration tool is used to configure the System Manager Server settings for network connection, logger, databases and services. The SM configurator can also be used to create and manage users of the System Manager client software.

System Manager Configuration Tool wizard has the following features:

- Request License
- Apply License
- Select Job Type
- Choose EP File/Select Configuration Database
- Create Site Owner
- Execute Actions

Site licensing

1. Select System Manager Configuration from the menu displayed above. The System Manager Configuration tool is displayed.

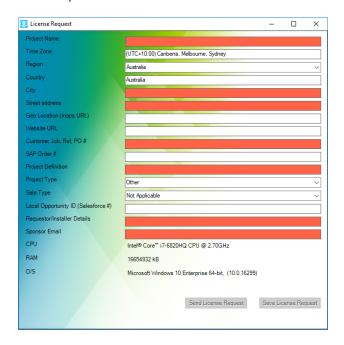




This wizard can be re-run anytime by clicking the Run Quickstart button.



2. Click Request License to license the software.



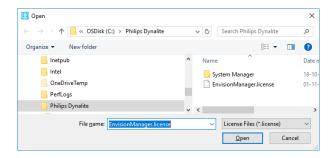
3. Enter the site details and click Send License request. This uses the standard email application on the computer to generate an email to support.controls@signify.com

The support team then replies with an email with the license file within 24 hours.

♦ Note: In case no email client is installed, the Save License Request button can be used to save the license request to a file. In a next step this file can be sent via email to Philips to request a license.

Applying License

- 1. Click Apply License from the main screen.
- 2. Browse and select the license file.
- 3. Click Open.



The System Manager license for the specific site is applied.

Note: A license copied to the clipboard will be applied automatically.

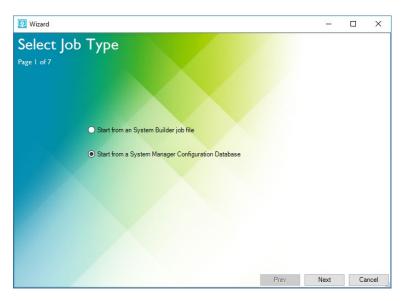




Configuring System Manager

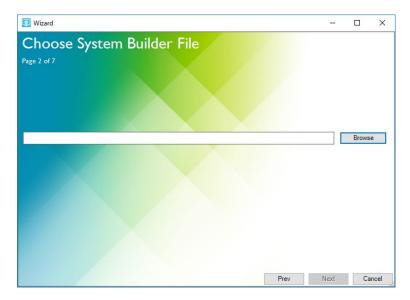
Perform the following steps to select the database and configure users.

1. Click Run Quickstart. This opens the wizard for configuring System Manager.



It is possible to start from an System Builder job file or to start from an System Manager Configuration Database. Click Next.

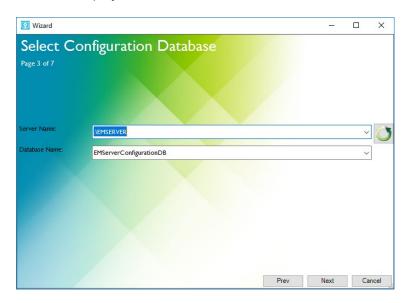
2. Select Start from System Builder job file and the below window is displayed.



Click Browse and upload the System Builder job file. Click Next. Continue with step 4.

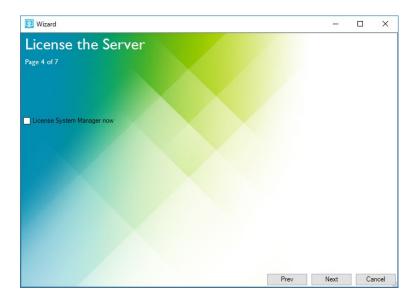


3. Choose Start from an System Manager Configuration Database, and the below window is displayed.

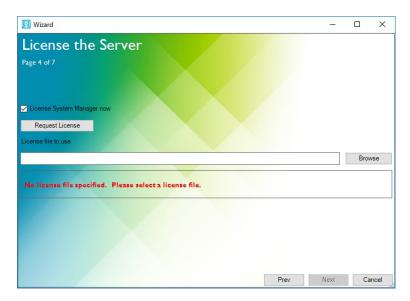


Select the Server Name as, ".\EMSERVER" and Database Name as "EMServer ConfigurationDB". Click Next.

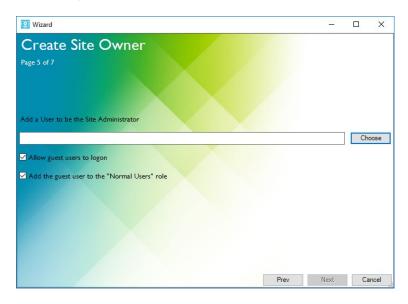
- **♦ Note:** The ".\" before the server name replaces the computer name.
- 4. License the server if it hasn't been licensed before by uploading the license file. Set the checkbox.



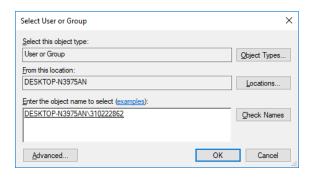
5. Click Request License to request a new license via email or click Browse to browse to a license file already available at the computer.



6. Create a Site Administrator. Set the both checkboxes on the page and click Choose. This displays the Select User or Group window



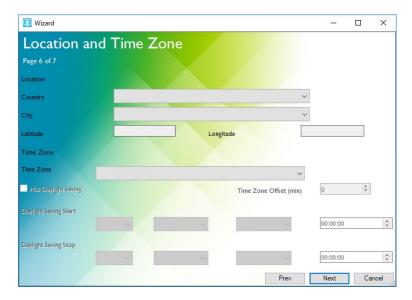
Enter the name of the user and click Check Names to verify the name. The full username is displayed. Click OK.



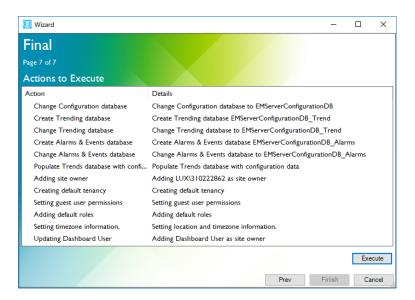
Click Next.



8. Enter the Location and Time Zone information. Click Next

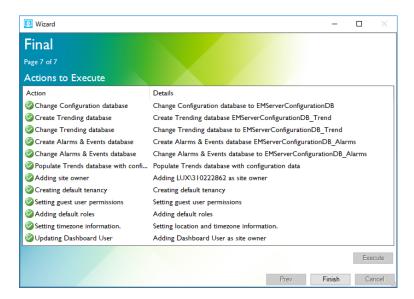


9. Click Execute to create the databases and owners.

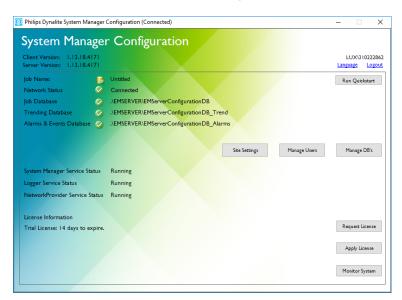




10. Click Finish after executing to close the wizard.



The databases and users are now configured.







The System Manager Configuration summary page displays vital information regarding the job, database, and the services running on the System Manager server.

The Job Name shows the job status indicator and name of the job

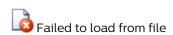
The job status icon indicates:











The Network Status shows if the system is connected or disconnected.

The indicators for Job Database, Trending Database and Alarms and Events Database depict the following:

Database OK

Could not get database version (Database may be invalid)

Upgrade Required

Other database failure

System Manager Service Status, Logger Service Status, NetworkProvider Service Status are services that can be in Running or Stopped state.

It also contains Service status information and License information.



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Secure connections

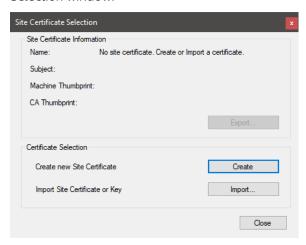
To establish secure Ethernet connections, you must open System Builder on the SM Server machine to import a Site CA Certificate (Site Private Key) and save the job/database. The Site CA certificate must have been previously exported from the commissioning machine. The Site CA Certificate and password must always be stored and sent securely.

SB is used for site certificate management and uploading to devices. During commissioning, the Site CA Certificate is used in the Job to create and upload Device Site Certificates for TLS connections between gateways and devices and between gateways and SB/SM.

Only a PDDEG-S can be used for secure connections. To ensure end-to end security, each PDDEG-S and Ethernet Device (ED) must be configured for secure connections in the job and saved to devices before importing the job into SM.

Import Site CA Certificate:

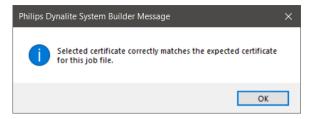
- 1. Open System Builder on the SM server machine.
- 2. In the Tools menu, select Set Site CA Certificate to open the Site Certificate Selection window.



- 3. Click the Import button and select the exported certificate (.pfx).
- 4. When prompted, enter the certificate password.

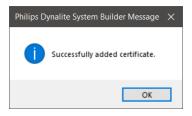


5. Click the OK button.





6. Click the OK button.



7. Save the job/database.

Hardening

Please ensure you perform system and OS hardening to prevent unauthorized access to the system.

- For information on hardening the Windows server, please refer to OS Hardening Guide.
- For information on hardening Philips Dynalite System Manager software and hardware devices, please refer to System Hardening Guide.



SM Client installations

System Manager Client and Switch are the clients that can be installed on user PCs. It is recommended to share this folder with users, so they always have access to the latest installation files.

▶ Install client software:

- 1. Navigate to the folder C:\Philips Dynalite\System Manager\System Manager Client
- Enter the folder of the client that must be installed.
- 3. Right click the setup file and select Run as administrator. The client application is installed.

The SM client connects to SM server on TCP port 8084. This port is normally open in firewalls but if SM client is unable to connect to SM server then the IT department will need to ensure this port is accessible.

Automatic upgrades

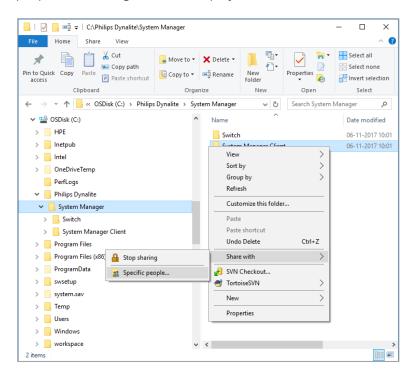
The MageUI manifest file is used to create automatic upgrades for System Manager clients.

Automatic upgrades for newer versions of client applications is created in two steps:

- 1. Share the Philips Dynalite System Suite folder among users.
- 2. Specify the file share location in the MageUI manifest file.

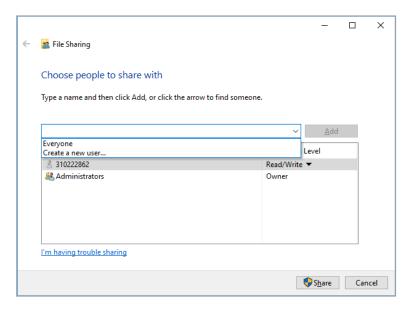
▶ Share Philips Dynalite System Suite folder

1. Right click on the Philips Dynalite System Suite folder and select Share with Specific people. File Sharing window is displayed.





2. Select the users (with whom the folder needs to be shared) from the dropdown list and click Add.

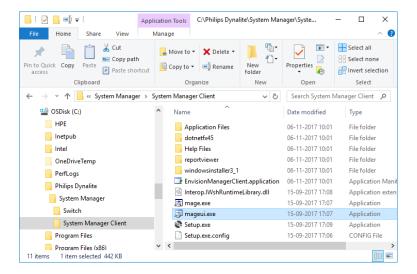


3. Click Share to share the folder amongst selected users.

ClickOnce deployment using the MageUI Manifest file

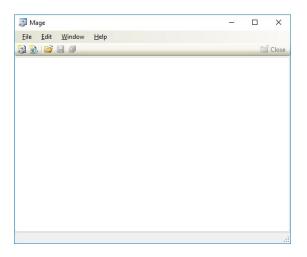
ClickOnce deployment allows to publish Windows-based applications to a Web server or network file share for simplified installation.

- ➤ Specify file share location in Mageui.exe
 - 1. Navigate to the C:\Philips Dynalite\System Manager\System Manager Client folder.

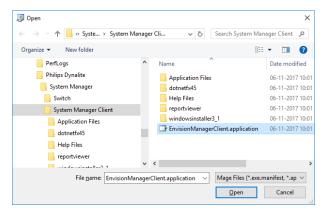




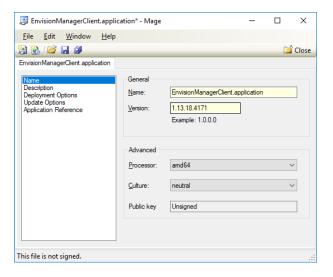
2. Run the mageui.exe file.



3. Select File, Open and open the System ManagerClient. application file.

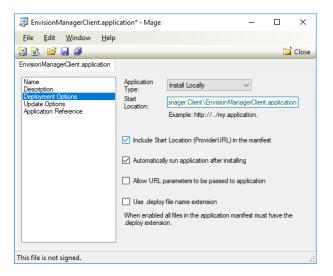


4. The Click Once application file opened in mageui.exe is displayed.





5. Select the Deployment Options.



6. The *Start Location* in the Deployment options is the file share location where the System Manager client versions are placed.

The default location is

\\ServerName\Philips Dynalite\System Manager\System Manager Client\EnvisionManagerClient.application

In case a different file share location must be shared, the path of the file share location must be specified in the Start Location field.

- 7. Select File, Save.
- 8. Click Don't sign to exit

Site Settings

The site settings page is used to configure the background settings for System Manager. The settings for the following items can be changed:

- Network
- Application Log
- System Settings
- Batched Log
- SMTP Server
- SMTP Message
- Presence Detection
- Public Holidays
- Notifications
- Location and Time Zone
- Data Access

Click the Site Settings button on the System Manager Configuration Tool to change settings.

Network

The following connections can be used to connect to the DyNet network:

- Serial port
- TCP
- UDP
- Ethernet trunk

For more information regarding connecting to the network please refer to the System Builder Training Guide.

Application Log

The application log consists of log files that are created for the System Manager application.

Application Logging

Write messages to file

Set to True.

Log message type

Select the type of system messages that must be logged. The types of log messages include Error, Warning, Information, Detailed information, Debug Error, Debug Warning and Debug Information.

Log file path

Specifies the path where log files are stored.

Maximum file size (KB)

Minimum size 10, Maximum size 10485760. Default 1024

Log file Removal

Log file removal method

The log file is removed after the specified number of days



Maximum days to keep saved files:

Minimum 0, maximum 10000

Maximum size (MB) of saved log files:

Minimum size 0, Maximum size

System Settings

The System Manager Settings window has properties that affect the global operation of System Manager.

Polling

Spur polling period (milliseconds)

How often each spur is polled Minimum 0, maximum 86400, default 5000

Enable Roll call polling

SM sends a sign-on to each device in a specific order to determine whether the device is online or offline

True/False, default False.

Roll call polling period (seconds)

Minimum 0, maximum 86400, default 3600

Enable DALI ballast polling

SM sends a sign-on to each DALI controller and if online requests the DALI ballast status True/False, default False.

DALI Ballast polling period (seconds)

Minimum 0, maximum 86400, default 3600

Enable channel runtime polling (seconds)

SM sends a sign-on and then reads the channel runtime section of each load controller to determine when a lamp has come to the end of its life True/False, default False.

Channel runtime polling (seconds)

Minimum 0, maximum 86400, default 86400.

Enable Modbus polling

True/False, default = False.

Modbus polling period (seconds)

Minimum 0, maximum 86400, default 300.

Enable lux level polling

True/False, default False.

Lux level polling period (seconds)

Minimum 0, maximum 86400, default 3600.

Enable load current polling

True/False, default False.

Load current polling period (seconds)

Minimum 0, maximum 86400, default 3600.



Enable channel level polling

True/False, default False.

Channel level polling period (seconds)

Minimum 0, maximum 86400, default 600.

Enable area temperature polling

True/False, default False.

Area temperature polling period (seconds)

Minimum 0, maximum 86400, default 600.

Send separate DALI ballast and lamp failures per Area

True/False, default False.

Send combined DALI ballast and lamp failures per Area

True/False, default False.

Emergency Test

Delay before initial query (Seconds)

Fallback value if "query results only at end" is disabled. In that case the "delay before initial query" will specify the time between the start of an emergency test and the start of the polling of the first emergency ballast. Minimum 1, maximum 10000, default 5.

Query delay between emergency ballasts (seconds)

Time-out before System Manager will poll the next emergency ballast. Minimum 1, maximum 10000, default 1.

Query delay between polling retries (seconds)

Time-out before System Manager will poll all emergency ballasts again. It is recommended to set this time to a value which is bigger than the time to poll the largest emergency luminaire group. Minimum 1, maximum 10000, default 60.

Functional test expiry period (minutes)

The maximum time before System Manager will stop polling and consider all tests that have not retuned a positive result as a failed test. Minimum 1, maximum 10000, default 5.

Duration test expiry period (minutes)

The maximum time before System Manager will stop polling and consider all tests that have not returned a positive result as a failed test. Minimum 1, maximum 10000, default 240.

Double send start test command

In some unique cases it might be required to send a start test command twice to trigger all emergency ballasts. Only enable when you experience issues with ballasts which are missing start test commands. True/False, default False.

Enable CBS emergency testing

Enable this if emergency luminaires are backed up by a central battery system instead of local batteries in the luminaires. True/False, default False.

CBS switch polarity

Specify if the relay which triggers the test is normally open or normally closed. Default Normally open.



Delay after switching CBS (seconds)

Delay to allow central battery system to settle after switching to/from battery. This is the delay after switching the relay (to go to battery power) before polling. Minimum 1, maximum 10000, default 10.

Update emergency alarms after query results

Emergency alarms are updated and saved to history only when results are queried as part of a 'start test'. Set to true to also update alarms when performing a 'query results' only. True/False, default False.

Query result only at end

The end is defined by waiting the amount of time defined by "Functional test end query time" or "Duration test end query time" setting before querying the result. This setting will only be used when tests are triggered from System Manager Emergency Testing GUI or through OPC. True/False, default False.

Query before starting failed ballasts

When failed ballasts are tested, System Manager will first poll the emergency test status. If System Manager stopped polling before a test was finished successfully, a query will update the result in SM and a re-test is not required. True/False, default True.

Functional Test End Query Time (minutes)

Time out before System Manager will start polling the emergency test result in case "query results only at the end" is disabled. Minimum 1, maximum 10000, default 5.

Duration Test End Query Time (minutes)

Time out before System Manager will start polling the emergency test result in case "query results only at the end" is disabled. Minimum 1, maximum 10000, default 240.

Behavior

Lamp end of life (hours)

Minimum 1, maximum 10000, default 500.

Temperature unit

Celsius (°C)/Fahrenheit (°F), default Celsius (°C).

Minimum temperature setpoint

Minimum -127°, maximum 127°, default 15°.

Maximum temperature setpoint

Minimum -127°, maximum 127°, default 28°.

Temperature setpoint change unit

Minimum 0.1°, maximum 10°, default 1°.

Replace failed lamps automatically

True/False, default False.

Automatically deploy schedules when devices become online

True/False, default False.

Flash error and offline icon status

True/False, default =False.

Length of a day (hours)

Minimum 8, maximum 24, default 24.

PHILIPS



Maintain plan zoom level

True/False, default True.

Enable Trending

True/False, default False.

Cache all plans on site logon

True/False, default False.

Request button presets on page load

True/False, default True.

Request plan presets on page load

True/False, default True.

Use notification event queue

True/False, default True.

Session timeout (minutes)

Minimum 0 (never timeout), maximum 2147483647, default 0.

Deaf session timeout (minutes)

Minimum 0 (never timeout), maximum 2147483647, default 60.

Enable auto logout

True/False, default False.

Auto logout timeout interval (minutes)

Minimum 8, maximum 60, default 5.

Macros

Macro delay (ms)

Minimum 0, Maximum 2147483647, default 0.

Reports

Report font

Select a font or type any installed font to use for reports.

Report logo file

Select path to logo image file.

Archive Path

C:\ProgramData\Dynalite\EnvisionManager\Reports

Database Backup

Backup Path

C:\ProgramData\Dynalite\EnvisionManager\DBBackup

Connect to database using SQL Native Client

True/False, default False.

Auto Calibration

Off Preset

Minimum 1, maximum 24, default 4.

Calibration timeout (minutes)

Minimum 1, maximum 60, default 5.

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Customer Settings

Client logo file

Default <empty>.

Console logo file

Default <empty>.

Client help file

Default <empty>.

Regions

Area border color

R, G, B, A (color + transparency). Default R=255, G=255, B=0, A=255.

Area fill color

R, G, B, A (color + transparency). Default R=255, G=255, B=207, A=130

Area selected color

R, G, B, A (color + transparency). Default R=255, G=255, B=137, A=200.

BLA border color

R, G, B, A (color + transparency). Default R=38, G=127, B=0, A=150.

BLA fill color

R, G, B, A (color + transparency). Default R=180, G=255, B=147, A=50.

BLA selected color

R, G, B, A (color + transparency). Default R=180, G=255, B=147, A=150.

Join border color

R, G, B, A (color + transparency). Default R=255, G=10, B=4, A=150.

Join fill color

R, G, B, A (color + transparency). Default R=255, G=117, B=114, A=50.

Join selected color

R, G, B, A (color + transparency). Default R=255, G=117, B=114, A=150.

Unassigned region color

R, G, B, A (color + transparency). Default R=255, G=250, B=250, A=100.

Area off fill color

R, G, B, A (color + transparency). Default R=0, G=0, B=0, A=50

Area on fill color

R, G, B, A (color + transparency). Default R=255, G=255, B=0, A=200

Occupancy map occupied fill color

R, G, B, A (color + transparency). Default R=255, G=0, B=0, A=255

Occupancy map unoccupied fill color

R, G, B, A (color + transparency). Default R=255, G=255, B=255, A=255

Occupancy map unknown fill color

R, G, B, A (color + transparency). Default R=0, G=0, B=0, A=50

Area name text color

R, G, B, A (color + transparency). Default R=0, G=0, B=0, A=255

PHILIPS

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Lines

Fixture group line color

R, G, B, A (color + transparency). Default R=0, G=0, B=139, A=255

DyNet cable line color

R, G, B, A (color + transparency). Default R=255, G=140, B=0, A=255

DALI cable line color

R, G, B, A (color + transparency). Default R=0, G=100, B=0, A=255

Fixture control line color

R, G, B, A (color + transparency). Default R=139, G=0, B=0, A=255

DALI control line color

R, G, B, A (color + transparency). Default R=128, G=0, B=128, A=255

Fixtures

Fixture off fill color

R, G, B, A (color + transparency). Default R=64, G=64, B=64, A=255

Fixture on fill color

R, G, B, A (color + transparency). Default R=255, G=255, B=0, A=255

Comms Engine

Enable routing

True/False, default True.

Number of concurrent RS485 commands

Minimum 0, maximum 20, default 1.

Number of concurrent ethernet commands

Minimum 0, maximum 100, default 5.

Use optimization when loading data from device memory

True/False, default False.

User memory verification before saving modified data to device

True/False, default False.

Open network connections in exclusive mode

True/False, default True.

Use DyNet 2 DALI Tunnelling

True/False, default True.

Use two byte DALI firmware upgrade

True/False, default True.

Request DyNet 2 preset using channel 1

True/False, default True.

Rx timeout (milliseconds)

Minimum 300, maximum 10000, default 300.



Reset delay (milliseconds)

Minimum 0, maximum 30000, default 3000.

Failed network message enabled

True/False, default False.

Failed network message auto resend expiry (in minutes)

If connections are restored then failed network messages will be automatically resent up until this time period in minutes from the time of the original message. Minimum 0, maximum 1440, default 60.

Failed network message auto removal time (in minutes)

Failed network messages can still be manually resent until this time period expires. After this period, they will be automatically removed from the list. Minimum 0, maximum 10080, default 1440.

Deployment

Max. Concurrent Deployments

Maximum number of concurrently executing deployments. Minimum 1, maximum 20, default 5.

Max. Concurrent Deployments per Floor

Maximum number of concurrently executing deployments per floor. Minimum 1, maximum 20, default 3.

Retry delay (mins)

Delay (in minutes) between retry attempts for failed deployments. Minimum 1, maximum 2880, default 30.

Alarms

Enable Meter Value Under/Over Reference Alarms

True/False, default True.

Enable All Events

True/False, default True.

Enable User LogOn/Off Events

True/False, default True.

Enable Schedule Started/Stopped Events

True/False, default True.

Enable Task Started/Stopped Events

True/False, default True.

Enable Connection Alarms

True/False, default True.

FIAS offline alarm connecting time

Minimum 20, maximum 1000, default 0

DyNet offline alarm connecting time

Minimum 20, maximum 10000, default 0



Hotel

Maximum Hotel event logs

Number of event log items shown in SM client room view. Not applicable to web dashboard room view. Minimum 0, maximum 100, default 20.

Store hotel status

SM server will update the database with room status change so that the last status received is shown after a server restart. True/False, default True.

Enable hotel status polling at server startup

SM server will poll room state after a restart. Not recommended. Expect only on a small hotel due to possible network traffic issues. True/False, default False

Enable manual check-in

Configures if the user can override check-in/check-out state from room view. True/False, default True.

Batched Log

Batched Log

Enable

True/False, default False.

URL

Enter URL.

Key name

Enter Key name.

Key

Enter Key.

Queue

Enter queue.

Message check interval (milliseconds)

Minimum 1000, maximum 60000, default 3000.

Clear unmatched message

True/False, default False.

Logging

Write messages to the file

True/False, default True.

Log file path

Enter log file path.

Log file removal

Log file removal method

Maximum days to keep saved log files: Maximum Days, Maximum Size, Don't delete.

Maximum Days to keep saved log files

Minimum 0, maximum 10000, default 10.



Maximum size (MB) of saved log files

Minimum 0, maximum 10240, default 100.

SMTP Server

Used to establish a connection with an SMTP server to enable email notifications. Simple Mail Transfer Protocol (SMTP) is the standard protocol for electronic mail transmission.

General settings

Enable email notification

Set to Enabled to receive email notifications regarding alerts. Default it is set to Disabled.

Primary SMTP Server

Server name

Enter the name of the SMTP server.

Port

Enter the port number. Ensure that the port number is correct for the security selected as there may be a few SMTP servers that would use a different port number for different connection types.

User name

Enter the user name for authentication on the server.

Password

Enter a password for the given user name.

Security

Select the encryption type from the drop down. None, SSL/TLS, Start TLS.

Secondary SMTP Server

Server name

Enter the name of the SMTP server.

Port

Enter the port number. Ensure that the port number is correct for the security selected as there may be a few SMTP servers that would use a different port number for different connection types.

User name

Enter the email address of user who would receive the email notification.

Password:

Enter a password for the given user name.

Security

Select the encryption type from the drop down. None, SSL/TLS, Start TLS.

Test Primary – is used to test the connection to the Primary SMTP Server.

Test Backup - is used to test the connection to the Secondary SMTP Server.



SMTP Message

The SMTP message displays the format of the email message that the SMTP server sends out to people who will be notified.

Importance — Select the importance of the email as Low, Normal or High from the drop-down list.

Message Template – Check the Use HTML check box to display the message in HTML format. A customized email template can be attached by clicking Open Custom template and attaching the template file.

Custom Subject – Enter the text if you want a custom subject line.

The basic format of the SMTP message is displayed below.

Message Content	Description
@Model.Attention	Displays the recipient name.
@Model.Severity	Displays the alert severity (High/Medium/Low.
@Model.Status	Displays status of the alert (Created/Acknowledged/Restored/Restore Acknowledge/Cleared).
@Model.Time	Displays the time stamp.
@Model.Type	Displays the Alert type (Fault/Alarm/Event).
@Model.Description	Provides details on the alert.
@Model.Location	Provides location details of the alert.
@Model.Comment	Displays the comment text.
@Model.Profile	Name of the notification profile.
@Model.EventData	Displays Event data, if applicable

Presence Detection

Presence Detection - Enables user presence detection by the SM Switch software application. Switch is a software application that can be linked to a PC's screen saver behavior and can be used to control the lighting above the desk where the computer is placed. The lights can go into different presets depending on the user presence state detected.

There are three user presence states supported for every area defined in the floor plan. These are:

Occupied

Occupied state is when the user is active and Switch client is active on the PC.

Suspended

Suspended state is when the Switch client is not active, and the windows screensaver is running.

Unoccupied

Unoccupied state is when the Switch client is not logged in.



▶ Add Presence detection:

- 1. Select the Area for which presence detection is to be defined.
- 2. In the properties pane, Enable Preset detection.
- 3. Select Preset, Fade, Join and Delay. By default, the presets for Occupied, Suspended and Unoccupied are set as High, Low and Off. The Default presets for these states can be changed.

Repeat the steps for each area that required presence detection is required.

Public Holidays

Public holidays can be defined specifically for every site that has System Manager.

Add a public holiday

- 1. Select the date on the calendar on the right of the displayed window.
- 2. Click Add
- 3. Use the Deploy button to implement the changes.

Public holidays can also be imported, exported, deleted and/or renamed. Exporting calendars are supported in xml format and while imports additionally supports ics format calendar files.

Notifications

System Manager can be set up to send notifications regarding any alert (faults, alarms and events) in the lighting system. Users are notified by an email when specified alert occurs.

- Faults that can occur in the lighting system include device offline or a ballast on a network being offline.
- Alarms can be created for lamp failure or lamp life over.
- Event notifications such as user log on, user log off are created.

Note: A Custom Fault, Alarm or Event command can be configured from a device input or an SM Custom button to send a Raise Alert message. For more information refer to the Action Editor in SB or SM.

▶ Configure notifications

- 1. In Notifications, click Add to create a new notification
- 2. Enter a name for the notification profile
- 3. Check the Alert Type for which the recipient will be notified or click the *Configure Custom* button to create a custom alert.
- 4. Click the checkboxes for the required Faults, Alarms or Events.
- 5. Click OK.

This creates the notification profiles. Email recipients then must be added to the notification profiles, so they are notified when an Alert occurs.



▶ Add Recipients

- In Notifications Recipients tab, click Add or Add System Manager User.
- 2. Enter the Name and Email address of the recipient or select the recipients from the User account list and click the Add Checked button.
- 3. Click Test Selected to verify the email address of the recipient.

Location and Time Zone

The Location and Time Zone page displays the site location and time zone settings. The Time zone settings affects events that are based on astronomical time such as sunrise and sunset. Time based events are scheduled from the server's system clock. Select the correct **Country** and a **City** (in that country) that matches the local time zone. If required adjust the **Time Zone** from the dropdown list.

Data Access

If installed, this enables access to the API for the Lighting Dashboard and the Interact Hospitality Dashboard

Hotel Settings

If installed with a Hotel License, these settings this enables you to access the Interact Hospitality settings:

- Room Templates Can only change settings for existing templates.
- Rooms (mapping table) Can only change FIAS server selection.
- Room Alerts Read only
- Guest Languages Can add selected languages.
- FIAS
 - Servers Can add FIAS servers
 - o Command Can configure FIAS commands

For more information, refer to the Interact Hospitality Commissioning Guide.

Access Control

If installed with a Hotel License and enabled, these settings this enables you to monitor messages with an Integrated Access Control system.

Deployments

Lists deployments of firmware, configuration and variable bulk updates. You can enable and disable existing deployments.

Selling Partner

A record of the Selling Partner details.



Manage Users

The **Manage Users** button establishes user access control for the site. This feature can be used to:

- Add users to the site
- Create and define different user roles
- Maintain tenancy groups.

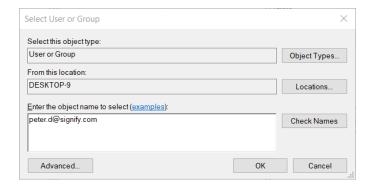
Click the Manage Users button to display User Access Management

Users

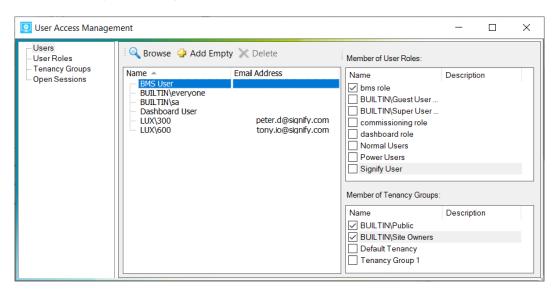
System Manager users can be added using the Users page. Users can be classified and associated to the available user roles and tenancy groups that exist in the system.

Add Users:

- 1. Open the User Access management window.
- 2. Select Users in the tree
- 3. Click Browse to select a username from your local/corporate directory. You can click the Advanced button to find a user with an advanced query.

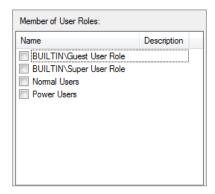


4. Click Add Empty to manually enter a username and email address.

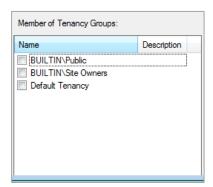




5. Select the Member of User Role checkboxes. Check against the required User Roles. All the user roles in the system are displayed here.



6. Select the Member of Tenancy Group checkboxes. Check against the name of required Tenancy Group. The tenancy groups define the areas in the building that are accessible to each tenant.



The user has been created and associated with specific user roles and tenancy group.



User Roles

User Roles creates individual site users with specific set of securable services they can perform. Securable services define or limit the functionality of a user role depending on the user profile.

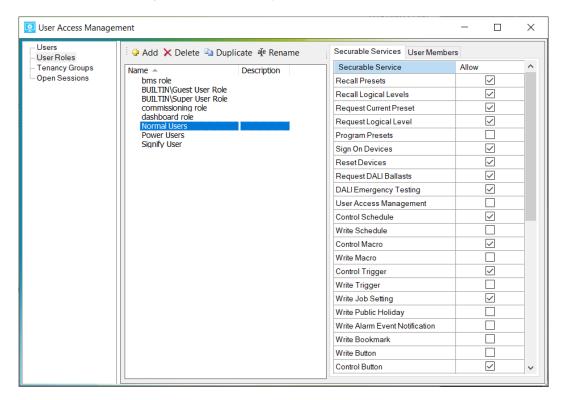
By default, System Manager has the following user roles defined.

- Guest User
- Normal User
- Power User
- Super User

Securable services that can be accessed by each user, are defined while creating the user role. For example, a guest user can log on to the System Manager client, view various areas in the plan, recall presets and recall channel levels whereas a super user can perform all securable services.

➤ Add a User Role:

- Click Manage Users on System Manager Configuration. This displays the User Access Management window.
- 2. Select User Roles from the tree
- 3. Click Add
- 4. Enter a name the user role created
- 5. Select the actions/functions that the user role can perform by checking the any securable services on right side of the displayed window. This creates a User Role.





User Permission Table Defaults

Type of User/ Securable Service	Guest User	Super User	Normal User	Power User
Recall Presets	✓	✓	✓	✓
Recall Logical Levels	✓	\checkmark	✓	✓
Request Current Preset	✓	\checkmark	✓	✓
Request Logical Level	✓	\checkmark	✓	✓
Program Presets		\checkmark		✓
Sign On Devices		\checkmark	\checkmark	✓
Reset Devices		✓	\checkmark	✓
Request DALI Ballasts		✓	✓	✓
DALI Emergency Testing		\checkmark	✓	✓
User Access Management		\checkmark		
Control Schedule		\checkmark	✓	✓
Write Schedule		✓		✓
Control Macro		✓	✓	✓
Write Macro		✓		✓
Control Trigger		✓	\checkmark	✓
Write Trigger		✓		✓
Write Job Setting		✓	\checkmark	✓
Write Public Holiday		\checkmark		✓
Write Alarm Event Notification		\checkmark		✓
Write Bookmark		\checkmark		✓
Write Button		\checkmark		✓
Control Button		\checkmark	\checkmark	✓
Log On	✓	\checkmark	✓	✓
Control Notification System		\checkmark	✓	✓
Server Configuration		\checkmark		✓
Database Management		\checkmark		\checkmark
Write Presence Detection		\checkmark		\checkmark
Control Lamp Manager		\checkmark		\checkmark
Retrieve Trend Data		\checkmark		✓
Diagnostic Debug		\checkmark		
Console View	✓	\checkmark	\checkmark	\checkmark
Site Map View	✓	\checkmark	\checkmark	\checkmark
Maintenance View	✓	\checkmark	\checkmark	✓
Reports View	✓	✓	✓	✓
Alerts View	✓	✓	✓	✓
Sensor Timeout Configuration	✓	\checkmark	✓	✓
Sensor Auto Calibration	✓	✓	✓	✓
Sensor Lux Levels	✓	✓	✓	✓
Set Temperatures	✓	✓	✓	✓
Modify Areas		✓		
Rename Areas		✓		
Network Management		\checkmark		✓
Supervisor Sign-in		✓		

Note: The Write Button function enables the user to edit pages and see hidden pages.



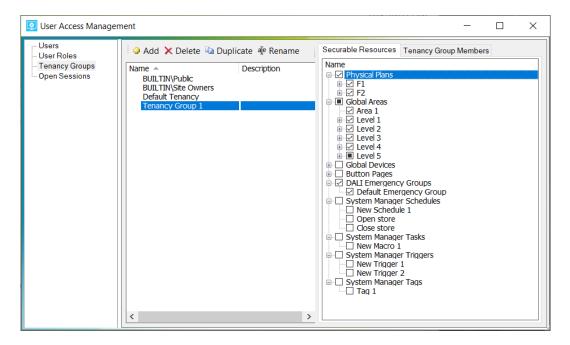
Tenancy Groups

A tenancy group allows users to access certain parts of the system. These parts in the system are called Securable Resources:

- Physical Plans
- Global Areas
- Global Devices
- Button Pages
- DALI Emergency Groups
- System Manager Schedules
- System Manager Tasks
- System Manager Triggers
- System Manager Tags

➤ Add a Tenancy Group

- Click Manage Users on System Manager Configuration. This displays the User Access Management window.
- 2. Select Tenancy Groups in the tree
- 3. Click Add
- 4. Select the Securable Resources





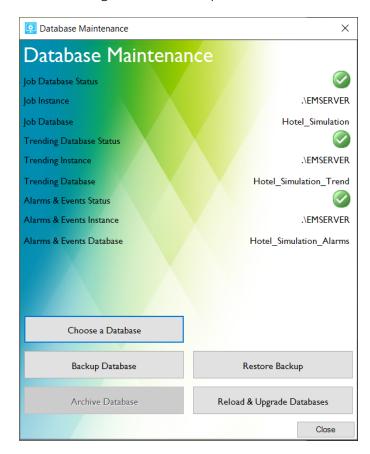
Manage Databases

There are three main databases that are created during Philips Dynalite System Suite installation are:

- Job (Config) Database
- Trending Database
- Alarms & Events Database

In the event of a computer failure, to protect all the information, regular database maintenance needs to be performed.

Click the Manage DB's button to open Database Maintenance window.



The following actions can be performed from Database Maintenance window:

- Choose a working database
- Backup Database
- Restore Backup
- Archive Database
- Reload and Upgrade Databases



Choosing a Database

The working database wizard selects the active databases for System Manager.

▶ Choose a Database

1. Click the Choose a Database button from the Database Maintenance window. This opens the Job Database wizard.

Select the Server Name as Computer Name\SMSERVER and select the working Database Name from the dropdown list.

Click Next

2. Select the Trend database.

Check Create Database if it doesn't exist if the database is not created previously. Click Next.

3. Select the Alarms and Events database.

Check Create Database if it doesn't exist if the database is not created previously. Click Next.

4. Select the Reports database, if required. In case it is not planned to export reports to a database, leave this field blank.

Check Create Database if it doesn't exist if the database is not created previously.

Click Next.

- 5. Click Execute.
- 6. Click Finish to exit wizard

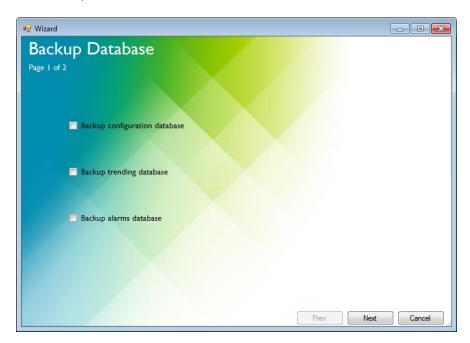


Backing up a Database

Backup the Databases regularly to create a recent copy of the active database in case the active database becomes corrupted.

▶ Backup Database

1. Click Backup Database on the Data Maintenance window.



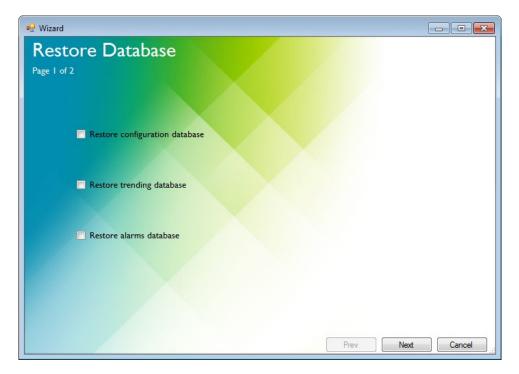
- 2. Check the database that needs to be back up and click Next
- 3. Click Execute to backup database
- 4. Click Finish to close the wizard.



Restoring a database

➤ Restore Database

- 1. Restore database retrieves the data from a previous backup.
- 2. Click Restore Database from Database Maintenance



- 3. Check the database that needs to be restored and click Next
- 4. Click Execute to restore database
- 5. Click Finish to close the wizard.



Archiving a database

➤ Archive Database

When it is not required to retain all historical data in the database, it is possible to move this data to an archive database.

1. Click Archive database from the Database Maintenance window.

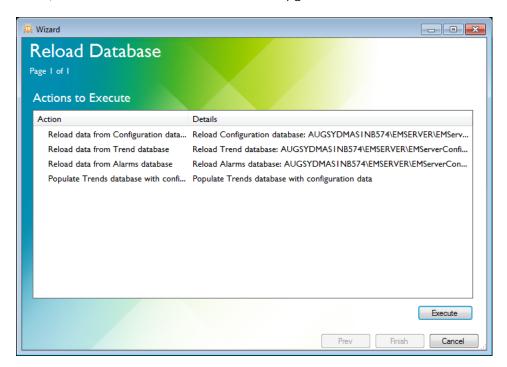


- 2. Select the Archive data before date so that the data before the selected date can be archived.
- 3. Select the database that needs to be archived. Click Next.
- 4. Click Execute.
- 5. Click Finish to exit wizard.



Reloading and Upgrading Databases

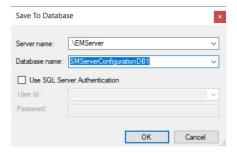
If the working database is modified by System Builder, then before running System Manager Client, the database should be Reloaded and Upgrade to the modified version.



Saving to a database in System Builder

This procedure explains how to save an existing System Builder job file for use in System Manager.

- 1. Open the existing project with System Builder.
- 2. Click File > Save As > Save To Database.



- 3. Enter the Server Name
- 4. Select the database from the Database name drop down, or if you want to create a new database type the name of the database in the field.
- 5. Click OK
- 6. Your project has now been saved to the database and can be opened using System Manager.

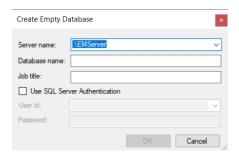




Creating a new database in System Builder

To create a System Builder project from scratch for use in System Manager follow the steps below:

- 1. Open System Builder.
- 2. Click File > New > New Empty Database.



- 3. Enter the server name or enter.\EMSERVER.
- 4. Enter the database name.
- 5. Enter the name for the Job title.
- 6. Click OK.

Now you have created a blank database for System Manager.

Opening a database in System Builder

To open a System Manager database in System Builder and make changes follows the steps below:

- 1. Stop System Manager Server from Windows Task Manager services.
- 2. Open System Builder.
- Open the System Manager Database that has the SM Database using File > Open > Open database.
- 4. Click OK.



- 5. Make the required changes in System Builder.
- 6. Save to the database.
- 7. Close System Builder.
- 8. Start System Manager Server.

Note: If you do not save to the database, you may lose all the changes you have made to the configuration in System Manager.

dynalite (1)

Monitor System

Application Log



The Application Log toolbar appears at the top of the Application Log window. The following commands are available from the toolbar in the Application Log:



Opens a previously saved daily log file.

☑ Save current Log Entries

Saves a backup copy of the current log file.

Open Complete Current Log

Opens a new page in the monitor window showing all log files for that day. When the log file's maximum limit is reached a new log file is created for that day.

Open Previous Log

Opens the previous daily log file before the one currently being viewed.

Open Next Log

Opens the next daily log file after the one currently being viewed.



Updates the application log in real time

Pause Logging

Freezes the application log display

Clear Log Entries

Clears the Application log display. Entries are still available in the saved log file.

M Ascending/Descending Order

Sorts messages in ascending/descending order according to the ID number.

Show/Hide Columns

Allows to select the columns from the available list. (See picture)

Copy Selected Log Entries

Copies the entire log entry to the clipboard.

Find

Finds the specified text in the log file entries

Find Next

Find the next log entry matching the specified text

🔑 Find Previous

Find the previous log entry matching the specified text







(i) (ii) Message type filtering

The message types available are shown in the following table:

Message Type Icons		
Show Log Detailed Information		
i Show Log Information		
Show Log Warinings		
Show Log Errors		



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Network Log



The Network Log toolbar appears at the top of the Network Log window. The following commands are available from the toolbar in the Network Log:



Opens a previously saved daily log file.



Saves a backup copy of the current log file.

Open Complete Current Log

Opens a new page in the monitor window showing all log files for that hour. When the log file's maximum limit is reached a new log file is created for that hour.

Open Previous Log

Opens the previous hourly log file before the one currently being viewed.

Open Next Log

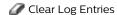
Opens the next hourly log file after the one currently being viewed.



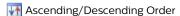
Updates the application log in real time

Pause Logging

Freezes the application log display



Clears the Application log display. Entries are still available in the saved log file.



Sorts messages in ascending/descending order according to the ID number.

Show/Hide Columns

Allows to select the columns from the available list. (See picture at right)



Copies the entire log entry to the clipboard.



Finds the specified text in the log file entries



Find the next log entry matching the specified text



Find the previous log entry matching the specified text



Removes the highlight from entries found with the find all function



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Toggle Bookmark

Adds and Removes bookmark on selected line. Bookmarked entries are shown in Bold. Bookmarks are saved in all logs.

Next Bookmark

Finds the Next bookmark

Previous Bookmark

Finds the previous bookmark

Delete All Bookmarks

Removes all bookmarks from the current Network log.

✓ Show Names

For devices it displays the name given in the target logical column. It also displays device names for physical messages. For Areas, Channels and Presets it displays the name given in both the description and the target logical columns.

✓ Show Data

Opens a new window displaying the hex string for the message selected in the Network log

✓ Show Details

Opens a new window displaying a description of the selected DyNet message

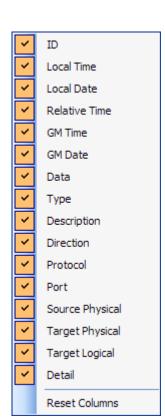
✓ Scroll Details

Displays the details of each new message in the network log.\

Network Log Colors

The color of each Network Log Entry indicates the following conditions:

Color	Meaning
Yellow	Find all highlight
Orange	Bad packet
Medium Green	Program preset
Light Green	Logical message
Light blue	Device application sign-on
Royal Blue	Bootloader sign-on
Light Coral	Device reset
Firebrick	Bootloader reboot
Wheat	Device load and save
Thistle	Firmware upgrade
Tan	All other physical messages





Command Monitor



The Command Monitor displays the status and sequence of EP commands. The following commands are available from the toolbar in the command monitor:

Cancel Selected Command

Cancels the current command selected in the command monitor.

Cancel All Command

Cancel all running and currently queued commands.

M Ascending/Descending Order

Sorts messages in ascending/descending order according to the ID number.

Show/Hide Columns

Allows to select the columns from the available list. (See picture)

a Copy Selected Log Entries

Copies the entire log entry to the clipboard.

Clear Completed Commands

Clears all commands from the Command Monitor window.

☑ Show Completed Commands

If ticked completed commands are displayed in the list. If unticked, completed commands are not displayed

Show simple Commands

If ticked simple messages are displayed in the list. If unticked, simple commands are not displayed

Commands will be in one of the following states:

DyNet Commands are categorized into the following command types:





