

by Schneider Electric

# **DALIBuildings Installation**

DALI programming guide

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Publication number: B11228

Print date: Wednesday, 27 August 2014-14:30

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## 1.0 Requirements for DALIBuildings

DALIBuildings is a Microsoft Windows based DALI commissioning software. It requires a Microsoft SQL Server to store project and DALI system operation details.

#### **1.1 Hardware Requirements**

- CPU Speed
- Minimum: 1.0GHz
- Recommended: 2.0GHz or faster
- RAM
- Minimum: 512MB
- Recommended: 1G or above
- Hard drive space: 2GB
- Installation File Download Size
- Standalone: 5.4 MB
- Full (with Microsoft SQL Server 2008 R2 Express)
- DALIBuildings Installation
- Microsoft SQL Server 2008 R2 Express

(ID 21262.1)

#### **1.2 Software Requirements**

- Operating Systems
- Microsoft<sup>®</sup> Windows XP<sup>®</sup>
- Microsoft<sup>®</sup> Windows<sup>®</sup> 7
- Microsoft<sup>®</sup> Windows<sup>®</sup> 8
- Database
- Microsoft SQL Server 2008 R2 Express

(ID 21263.1)

#### **1.3 Installation File Versions**

There are two versions of the installation files for new versions with an existing database and completely new installation, which requires a SQL Server installation.

#### Software only installation

• [2.0.5] DCBMDALIBuildings.exe

# Software with Microsoft SQL Server 2008 R2 Express installation bundle

[2.0.5] DCBMDALIBuildings with SQL Server.exe

## 1.4 Licencing

The licencing of DALIBuildings is based on the number of Line Controllers which the software is controlling.

The DALIcontrol http://www.dalicontrol.com/home website contains general information about DALI products. For information on dongles and licensing related to DALIBuildings, see following web page: DALIcontrol products page http://www.dalicontrol.com/dali\_control\_products.

# 2.0 DALIBuildings installation procedure

The installation instructions below are based on the full installation of DALIBuildings with the Microsoft SQL Server 2008 R2 Express bundle.

- 1 Launch the DALIBUILDINGS WITH SQL SERVER.EXE file
- 2 You may be prompted with a security warning as shown below. Click the RUN button.
- 3 Once the setup wizard has been launched, click the NEXT button.



#### Figure 1: Setup Installation Wizard welcome page

**Important**: Please save all your work and close all other applications as you may be required to restart your computer at the end of the installation.

4 Read the Licence Agreement and click the I ACCEPT THE AGREEMENT radio button and then click the NEXT button.

#### Figure 2: Software licence agreement



5 Specify the destination folder to install DALIBUILDINGS Application. You may use the default installation folder or click the BROWSE button to specify your desired installation folder. Click the NEXT button when ready.

#### Figure 3: Software installation destination folder

| 15 Setup - DALIBuildings   |         |
|--|---------|
| Select Destination Location<br>Where should DALIBuildings be installed?      |         |
| Setup will install DALIBuildings into the following folder.                  |         |
| To continue, dick Next. If you would like to select a different folder, dick | Browse. |
| C: \Clipsal\DALIcontrol\DALIBuildings  | Browse  |
| At least 36.3 MB of free disk space is required.                             |         |
| < Back Next >  | Cancel  |

6 Next you will be given an option to install the full version with Microsoft SQL Server or just the standalone version. By default the full version is selected. Click the NEXT button when ready.

#### **Figure 4: Select Components**

| 15 Setup - DALIBuildings  |               |
|---|---------------|
| Select Components<br>Which components should be installed?  |               |
| Select the components you want to install; dear the components you do install. Click Next when you are ready to continue. | o not want to |
| ✓ DALIBuildings   | 35.6 MB       |
| SQL Server Express 2008 R2  | 110.5 MB      |
| Current selection requires at least 146.7 MB of disk space.   |               |
| < Back Next >   | Cancel        |

**Note**: Should you have an existing Microsoft SQL Server 2008 R2 Express installation on your computer you may select the standalone version.

7 Next you will be prompted to specify the SQL Server Instance Name. By default it is set to SQLEXPRESS. However you can change it to your desired name. Click the NEXT button when ready.

#### Figure 5: SQL Server instance name

| 🔂 Setup - DALIBuildings   | X         |
|---|-----------|
| Database Settings<br>DALIBuildings requires SQL Server 2008 R2 or later to store its database.  |           |
| This installer does not include SQL Server. If you do not already have an SG<br>Server instance you should use the "DALIBuildings with SQL Server" installer<br>Please enter the name of your EXISTING SQL Server 2008 R2 instance. You<br>leave this blank and configure this later in the DALIBuildings software.<br>SQL Server Instance Name | QL<br>may |
| SQLEXPRESS  |           |
|   |           |
|   |           |
| < Back Next >   | Cancel    |

8 Next you will be prompted to specify the START MENU path for the DALIcontrol shortcut. By default it is set to: Clipsal\DALIcontrol.

You may click the BROWSE button to specify your desired start menu path. Click the NEXT button when ready.

Figure 6: Select start menu folder

| 弱 Setup - DALIBuildings  | - <b>-</b> X |
|--|--------------|
| Select Start Menu Folder<br>Where should Setup place the program's shortcuts?  |              |
| Setup will create the program's shortcuts in the following Start Menu  | ı folder.    |
| Clipsal/DALIBuildings Browners Clipsal/DALIBuildings Browners Clipsal/DALIBUILDING CLIPSALIBUILDING CLIPSALIBUILD | owse         |
|  |              |
|  |              |
|  |              |
| < Back Next >  | Cancel       |

**9** Review your installation option and click the INSTALL button when ready.

Figure 7: Review installation options

| j🖞 Setup - DALIBuildings  | - • ×  |
|---|--------|
| Ready to Install<br>Setup is now ready to begin installing DALIBuildings on your computer.  |        |
| Click Install to continue with the installation, or click Back if you want to revi<br>change any settings.  | ew or  |
| Destination location:<br>C:\Clipsal\DALIcontrol\DALIBuildings<br>Setup type:<br>DALIBuildings Installation<br>Selected components:<br>DALIBuildings<br>Start Menu folder:<br>Clipsal\DALIBuildings<br>{ | •      |
| < Back Install  | Cancel |

**10** Click the OK button when ready and installation will commence.

#### Figure 8: Software Installing



**11** During the installation, you will see a few prompts related to the Microsoft SQL Server installation. Do not interrupt the installation.

Figure 9: Installation of SQL Server

| 弱 Setup - DALIBuildings  |        |
|--|--------|
| Installing<br>Please wait while Setup installs DALIBuildings on your computer. |        |
| Installing SQL Server 2008 R2  |        |
|  |        |
|  |        |
|  |        |
|  |        |
|  |        |
|  | Cancel |

**12** The Microsoft SQL Server installation is an automated process. Depending on your computer capability, the installation may take between 15 to 30 minutes to complete.

#### Figure 10: SQL Server installation complete

| j뎡 Setup - DALIBuildings  |     |
|---|-----|
| SQL Server Installation Complete<br>Successfully installed SQL Server.  |     |
| Server Name: SQLEXPRESS<br>Admin Account: sa<br>Admin Password: DALIcontrol0788<br>Please ensure you keep a secure record of this information. You will ne<br>the Admin account to connect to the database if you are unable to or<br>choose not to use Windows Authentication. | eed |
| Next >  |     |

**Tip**: Now may be a good time to make yourself a cup of tea or coffee and sit back, relax and wait for the completion of the installation.

**13** Once the installation is completed you may be prompted to restart your computer. You may choose to restart your computer later if you needed. Click the desired radio button option and click the FINISH button when ready.

#### Figure 11: Installation complete

| Betup - DALIBuildings |  |
|-----------------------|--|
|                       | Completing the DALIBuildings<br>Setup Wizard<br>Setup has finished installing DALIBuildings on your computer.<br>The application may be launched by selecting the installed<br>icons.<br>Click Finish to exit Setup. |
|                       | Finish   |

14 Congratulations you have successfully installed DALIBuildings on your computer.

## 3.0 Running DALIBuildings for the first time

DALIBuildings is designed to be used *straight out of the box*. What this means is that you can set up DALIBuildings without either a specific DALI network, without a prior DALIcontrol database or projects.

#### Creating a database for DALIcontrol projects

DALIBuildings requires an SQL database into which DALI project configuration and programming are stored. The *Creating a New Database* (on page 11) procedure provides steps to build an database on the SQL Server.

#### Reusing existing projects from the DCBM suite

If you want to migrate from the previous DCBM suite, DALIBuildings consolidates the SQL databases which were stored to retain DALI configuration and programming details. The *Importing Data* (on page 15) procedure provides steps for importing DALIcontrol databases.

#### **Discovering Line Controllers on DALI systems**

After setting up the DALIBuildings databases, it is now possible to query a DALI system to find (*discover*) Line Controllers. DALIBuildings uses DALI queries to locate and import Line Controller details into the database. The *Discovering a DALIBuildings* (on page 18) procedure duplicates any controller data from an existing Line Controller to DALIBuildings.

#### 3.1 Creating a New Database

1 To launch DALIBuildings, go to your START MENU CLIPSAL > DALIcontrol > DALIBuildings. You will then see a splash screen as shown below.

# DALIBuildings Version 2.0.5 (Build 82)

Figure 12: DALIBuildings splash screen

2 Once the application has been loaded, you will be prompted with an error message *Failed to load database. Please test your connection.* as shown below. Click the OK button when ready.

**Note**: You are getting this error message when launching DALIBuildings for the first time as there is no database created yet.

3 If you have more than 1 SQL Server Instance Name on your computer and the current server name displayed is not the SQL Server Instance Name that you have specified during the installation, click the drop down list and select the correct SQL Server Instance Name.



| Save App             | y Test Connection          | Cancel                 |                     |   |
|----------------------|----------------------------|------------------------|---------------------|---|
| Advanced Mode        |                            |                        |                     |   |
| SQL Server Connecti  | on Parameters              |                        |                     |   |
| Server Name          | ASQLEXPRESS2               | •                      | Refresh List        | eg. "\SQLEXPRESS" or "192.168.1.1\SQLEXPRESS" |
| Database Name:       | DALIBuildings2             | •                      | Create New_         | eg. "DAUBuildings"                            |
|                      | Integrated Security        |                        |                     |   |
| Username:            |                            |                        |                     |   |
| Password             |                            |                        |                     |   |
| Connection String (4 | Idvanced Mode)             |                        |                     |   |
| Data Source #\SQ     | EXPRESS23/vitial Catalog   | p=DALIBuildings2Integr | rated Security® Tru | User ID+: Password+                           |
| Clear Database       |                            |                        |                     |   |
| Clear your current   | database.                  |                        |                     |   |
| Clear Datab          | a including controller con | inguiseons are going t | o de removeu per    | nerently from the database.                   |
|                      |                            |                        |                     |   |

4 Next click the CREATE NEW DATABASE button

#### Figure 14: Create new database

| Save Acc             | Test Connection           | Cancel           |                             |  |
|----------------------|---------------------------|------------------|-----------------------------|--|
| Advanced Mode        |                           |                  |                             |  |
| SQL Server Connecti  | on Parameters             |                  |                             |  |
| Server Name:         | \SQLEXPRESS2              |                  | Refresh List                | eg. ".\SQLEXPRESS" or "192.168.1.1\SQLEXPRESS" |
| Database Name:       | DALIBuildings             |                  | Create New_                 | eg. "DALIBuildings"                            |
|                      | Integrated Security       |                  | -                           |  |
| Username:            |                           |                  |                             |  |
| Password             |                           |                  |                             |  |
| Connection String (4 | Idvanced Mode)            |                  |                             |  |
| Data Source + \SQ    | EXPRESS23rvtial Catalog   | p=DALIBuildings  | 2;Integrated Security • Tri | ue;User IDs;Passwords                          |
| Clear Database       |                           |                  |                             |  |
| Clear your current   | database.                 |                  |                             |  |
| Clear Datab          | a including controller co | nfigurations are | going to be removed per     | manently from the database.                    |
|                      |                           |                  |                             |  |

5 Enter the desired name for the new database. This could be the name for your project. You may have multiple projects databases created on the same SQL Server.

| Figure | 15: | Specify | / new | database |
|--------|-----|---------|-------|----------|
|--------|-----|---------|-------|----------|

| Create Database       |   |
|-----------------------|---|
| Database Connection S | iettings                                |
| SQL Server Name:      | .\SQLEXPRESS                            |
|                       | Integrated Security                     |
| Username:             |   |
| Password:             |   |
| Database Information  |   |
| New Database Name     | e:                                      |
| File Path:            | C:\Clipsal\DALIcontrol\DALIBuildings\db |
|                       | ✓ Create New Database 🛛 🗱 Cancel        |

6 The example below uses the DALIBuildings database name. Click CREATE NEW DATABASE button when ready.

#### Figure 16: Execute Create New Database

| Create Database           |   |
|---------------------------|---|
| - Database Connection Set | lings                                   |
| SQL Server Name:          | SQLEXPRESS                              |
| V                         | Integrated Security                     |
| Username:                 |   |
| Password:                 |   |
| Database Information      |   |
| New Database Name:        | DALIBuildings                           |
| File Path:                | C:\Clipsal\DALIcontrol\DALIBuildings\db |
|                           | ✓ Create New Database 🛛 🗱 Cancel        |

7 Your new database will now be created.

| DAI Ibakšings |  |  |
|---------------|--|--|
|               | ✓ H 2 ¥  |  |
|               |  |  |
|               | Advanced Hulle     Security Security                       |  |
|               |  |  |
|               |  |  |
|               | Collars New [04,25,0000 Colls New Tables of "CollSolitege" |  |
|               | P Insential bourty   |  |
|               | Therape -  |  |
|               | Fassed   |  |
|               | Connection (Bring  |  |
|               | Data Store   |  |
|               | Creating database.   |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |
|               |  |  |

Figure 17: Creating New Database

8 When the database creation is complete, you will be prompted with a message as shown below.

|                                | ×  |
|--------------------------------|----|
| Database successfully created. |    |
|                                | ок |
|                                |    |

**9** After the database has been created, you can verify the connection by clicking the TEST CONNECTION button as shown below.

#### Figure 18: Test database connection

| File Tools View Search Discover Settings | Help                 |                                      |                  |                       |  |
|--|----------------------|--------------------------------------|------------------|-----------------------|--|
|  | Save App             | Test Connection Cance                |                  |                       |  |
|  | Advanced Mode        |                                      |                  |                       |  |
|  | SQL Server Connecti  | on Parameters                        |                  |                       |  |
|  | Server Name:         | \SQLEXPRESS2                         |                  | Refresh List          | eg. ".\SQLEXPRESS" or "192.168.1.1\SQLEXPRESS" |
|  | Database Name:       | DALIBuildings                        | •                | Create New_           | eg. "DALIBuildings"                            |
|  |                      | Integrated Security                  |                  |                       |  |
|  | Usernamei            |                                      |                  |                       |  |
|  | Pessword             |                                      |                  |                       |  |
|  | Connection String (A | dvanced Mode)                        |                  |                       |  |
|  | Data Source x \SQ    | EXPRESS2Initial Catalog=DAUB         | ildings2;Integr  | rated Security's True | r,User ID+,Password+                           |
|  | Clear Database       |                                      |                  |                       |  |
|  | Clear your current   | database.                            |                  |                       |  |
|  | WARNONG: all data    | a including controller configuration | ins are going to | o be removed perm     | namently from the database.                    |
|  | Can brac             |                                      |                  |                       |  |
|  |                      |                                      |                  |                       |  |

**10** If the connection verification is successful you will see a TEST CONNECTION SUCCESSFUL message. Click the OK button when ready.



**11** Finally you can save the database connection settings by clicking on the SAVE button.

#### Figure 19: Save database connection settings

| Save Acc  | Test Connection Cancel                                |             |                      |  |
|---|---|-------------|----------------------|--|
| Advanced Mode   |   |             |                      |  |
| SQL Server Connecti                                   | ion Parameters  |             |                      |  |
| Server Name:  | \SQLEXPRESS2  |             | Refresh List         | eg. ".\SQLEXPRESS" or "192.168.1.1\SQLEXPRESS" |
| Database Name:  | DALIBuildings   | •           | Create New_          | eg. "DAUBuildings"                             |
|   | Integrated Security                                   |             |                      |  |
| Usemame:  |   |             |                      |  |
| Password:   |   |             |                      |  |
| Connection String (A                                  | Advanced Mode)  |             |                      |  |
| Data Source + \SQ                                     | EXPRESS2Initial Catalog - DALIBUR                     | ings2;Integ | rated Security® True | r,User ID+;Password+                           |
| Clear Database  |   |             |                      |  |
| Clear your current<br>WARNONG: all dat<br>Clear Datab | t database.<br>Ia including controller configurations | are going t | o be removed per     | namently from the database.                    |
|   |   |             |                      |  |

#### 3.2 Importing Data

You may import your existing project data files (\*.mdb files) into DALIBuildings or you can use a sample data file provided in the <Installation Folder>\Sample Data folder.

The procedure below provides an an example for importing data into DALIBuildings.

1 Click FILE menu > IMPORT/EXPORT SETTINGS option as shown in the graphic below.

#### Figure 20: Import/export details menu



2 Click the LEGACY DATABASE LOCATION FILE BROWSE button in the dialog box below.

#### Figure 21: Import/Export All dialog box

| File Tools View Search Discover Settings | Help   |               |
|--|--|---------------|
| ▶ <u>A</u> Sie 1000                      | Import All Import New Only Export All Save Close   |               |
|  | Legacy Database Location<br>Please specify the location of all your legacy database from DALIMonitor (mdb file) and DALIWiza | rd (xml file) |
|  | Data Folden CACIpseNDALIcontroNData  |               |
|  |  |               |

**3** Browse to the <Installation Folder>\Sample Data folder as shown below and click the OK button.

| Bro | owse For Folder           | <u>? x</u> |
|-----|---------------------------|------------|
|     |                           |            |
|     |                           |            |
|     |                           | _          |
|     | 🗄 🧰 CbusOpcServer         | <b>_</b>   |
|     | 🗉 🛅 CBusToolkit           |            |
|     | 🗉 🧰 C-Gate2               |            |
|     | 🗉 🚞 CIRCA                 |            |
|     | 표 🚞 Circa Infrared Reader |            |
|     | 🖂 🧰 DALIcontrol           |            |
|     | 🖂 🧰 DALIBuildings         |            |
|     | 🛅 datasheet               |            |
|     | 🛅 logs                    |            |
|     | 🗀 Sample Data             |            |
|     | 🛅 utilities               |            |
|     | 🕀 🚞 Data                  | -          |
|     |                           | ١          |
|     |                           |            |
|     | Make New Folder OK Cance  | el 📔       |
| _   |                           |            |

4 Click the IMPORT ALL button.

#### Figure 22: Import all button

| mport All    | Import New Only      | Export All       | Save         | Close             |                             |          |
|--------------|----------------------|------------------|--------------|-------------------|-----------------------------|----------|
| gacy Databa  | se Location          |                  |              |                   |                             |          |
| Please speci | fy the location of a | ll your legacy d | atabase from | n DALIMonitor (.m | db file) and DALIWizard (.x | ml file) |
| Data Folder  | C:\Clipsal\DALI      | control\DALIBu   | ildings\Samp | ole Data          |                             |          |
|              |                      |                  |              |                   |                             |          |

**Important**: The IMPORT ALL option will erase all data from existing database and a warning message will be prompted to user for confirmation. Should you just need to append new data to the existing folder, please use the IMPORT NEW ONLY option.

5 Next you will see the progress of the data import with the number of databases imported.

#### Figure 23: Importing data

| Conta Consect. 1 de Mente | porting 1 of 1 Database(s) |  |  |
|---------------------------|----------------------------|--|--|
|---------------------------|----------------------------|--|--|

**Important**: Importing from large amount of database may take a while to complete. Please do not terminate the application while import is in progress.

6 A message box with the number of controller data imported will be displayed once the import is completed successfully. Click the OK button when ready.

| x | Ξ. |                       |                       |
|---|----|-----------------------|-----------------------|
|   |    | ntroller(s) imported. | Import completed, 1 o |
|   | OK |                       |                       |
|   | ОК |                       |                       |

**Note**: If the import process encounters any problem importing any data files, an error message will be displayed at the end of the import process as shown below.

#### Figure 24: Sample import warning message

| Warning | ×   |
|---------|---|
|         | Import completed with the following warning(s):<br>1. Fail to import 'DALI-LI-A.mdb'.<br>2. Fail to import 'plantroom 1.mdb'. Reason: Conflicting ControllerId with 'DALI-L5-L.mdb'.<br>3. Fail to import 'plantroom 2.mdb'. Reason: Conflicting ControllerId with 'DALI-L5-L.mdb'. |
|         | OK  |

#### 3.3 Discovering Line Controllers

Should you have a Line Controllers connected to you computer network, you may use DALIBuildings to discover your Line Controllers. The DISCOVER menu has a list of options for carry out discovery operations. Below is a list of the Discover menu options:

- All controllers: This will query for all available Line Controllers on the network
- **Controllers in alarm**: This will only query for Line Controllers with alarm on the network.
- **Controllers without alarms:** This will only query for Line Controllers which is in good working condition / without alarms on the network.
- Controllers on level: This will allow user to query for Line Controllers with specific level information on the network. Selecting this option will result in a dialog window open allowing user to specify the levels to query (Level -20 to 235 inclusive of ground level).
- Target Address: On large sites it is sometimes difficult to *find* all the Line Controllers, if user knows the address of the Line Controllers that needs editing, this type of search is much more reliable. This search method will also work where network broadcasts are blocked. The DALIBuildings sends a Unicast message to each Line Controllers in the search IP address range, the Line Controllers records the source address and replies back to the host computer via Unicast communication. If the end address is less than the start address then only the start address is polled.

To discover the ECG, follow the procedure below:

1 Click the DISCOVER menu and you can select from the multiple discovery options. See below for discover options explanations.





2 Select the ALL CONTROLLERS option and the discovery process will commence.



Figure 26: DALIcontrol Controller discovery progress

**3** Once the discovery is completed, Line Controllers found will be displayed in the result window.

#### Figure 27: Controller discovery result



4 Should you click the EDIT SETTING button for a new Line Controller that has not been saved into the database, you will receive a message requiring you to save the data to database prior to editing the Line Controller setting. Click the YES button when ready.

#### Figure 28: Save new controller setting into database



5 Once the entry is saved into the database, you will be presented with the Line Controller setting page.

Figure 29: Controller setting page

| <ul> <li>A Ste 1000</li> </ul>  | STTE:1000 + Level 1 + Adelaide + CTRL:1 |               |           |                   |          |                      |           |  |
|---|---|---------------|-----------|-------------------|----------|----------------------|-----------|--|
| College     C | Save Can                                | ati Query     | Settings  |                   |          |                      |           |  |
| Groups<br>O Times   | Model Name:                             | 0902660-DAL3  |           | SheCode:          | 1000     | ECD Delay:           | 50 🗘      |  |
| In Holdays  | MAC Address:                            | 0000/2428/3   |           | Controller Id:    | 1        | NV Delay:            | 10        |  |
| Oevces  | IP Address:                             | 10.0.0.50     |           | Description:      | Training |                      |           |  |
| Sequences   | Subnet Masic                            | 255.255.255.0 |           | Location:         | Adelaide |                      |           |  |
| Command Lists   | Default Gateway:                        | 10.0.0.1      |           | Level:            | 10       |                      |           |  |
| Discovery Result  | Data Collection:                        | 10.0.0.10     | <u></u> 2 | DALLA!            | DALI-A   |                      |           |  |
|   | Port Number:                            | 1001          |           | DALI B:           | D4U-8    | F Refresh Sensor at  | l Startup |  |
|   | Mode:                                   | C Stop IF Run |           | Status Broadcast: | 01       | F Rafresh Profile at | Startup   |  |
|   | Trace:                                  | ON            | •         |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
|   |   |               |           |                   |          |                      |           |  |
| and the second se   |   |               |           |                   |          |                      | ()        |  |

**Note**: Depending on the firmware version of the Line Controller detected, only the applicable parameters will be loaded.

#### 3.4 Setting up the Line Controller

Each controller must be defined in terms of its Ethernet connection. In addition, the Line Controller can be configured for location and time zone as well as the device type descriptions which reside on its DALI network. The graphic below displays the LINE CONTROLLER NODE. It contains important parameters for defining its position within an Ethernet network within the GENERAL tab (1) as well as location and temporal (2) details within the LOCATION AND TIME tab.



| - DAUBuildings   |                  |                         |                  |            |                | - • • ×       |
|--|------------------|-------------------------|------------------|------------|----------------|---------------|
| File Tools View Search Discover Settings   | Help             |                         |                  |            |                |               |
| <ul> <li>She 1000</li> <li>She 1000</li> <li>ToB-W1-01L</li> <li>Unknown location</li> <li>00/17/201680/000/06/0600 0AU</li> </ul> | 1 2              | Inknown Location + CTRL | 1                |            |                |               |
| I 🧠 Groups   | Query Settings   | ]                       |                  |            |                |               |
| Holdays  | Model Name:      | BM2660-DAU              | SiteCode         | 1000       | ECD Delay      | 50 🗣          |
| Inputs/Outputs     Oevices   | MAC Address      | 0090c2e014e3            | Controller Id:   | 1          | NV Delay:      | 255           |
| Network Variables  | IP Address       | 192.168.0.200           | Description      | DCBM2-1608 |                |               |
| E 🛞 Command Lists  | Subnet Mask:     | 255.255.240.0           | Location:        |            |                |               |
| Custom Zones   | Default Gateway: | 255.255.255.255         | Level            | 1 🔺        |                |               |
|  | Data Collection: | 192.168.0.200           | DALL A           | DAU-A      |                |               |
|  | Port Number      | 1.001                   | DALL B           | DALI-8     | 🖾 Refresh Sens | or at Startup |
|  | Mode:            | 🔿 Stop 🔹 Run            | Status Broadcast | ON •       | Refresh Profil | e at Startup  |
|  | Trace:           | OFF                     |                  |            |                |               |
| Database connected to \SQLEXPRESS (DALIBuildin   | at)              |                         |                  |            | 1              | OFFLINE       |

#### Defining the Line Controller Ethernet address

The location of the Line Controller is determined by the IP address and the port number. This combination provides the Ethernet socket which allows DALIBuildings to connect to the Line Controller. The allocation of Ethernet IP addresses is usually the domain of your IT support personnel. The GENERAL tab contains the main Ethernet configuration parameters for the Line Controller. The IP address in combination with the port number produces the socket connection, the unique address where the Line Controller can be located.

| SITE:1000 > Level 1 | Unknown Location      CTRL:1 |  |  |  |
|---------------------|------------------------------|--|--|--|
| Save Cance          | 4                            |  |  |  |
| General Location &  | Time Device Types            |  |  |  |
| 🔎 Query Settings    |                              |  |  |  |
| Model Name:         | BM2660-DALI                  |  |  |  |
| MAC Address:        | 0090c2e014e3                 |  |  |  |
| IP Address:         | 192.168.0.200                |  |  |  |
| Subnet Mask:        | 255.255.240.0                |  |  |  |
| Default Gateway:    | 255.255.255.255              |  |  |  |
| Data Collection:    | 192.168.0.200                |  |  |  |
| Port Number:        | 1001                         |  |  |  |
| Mode:               | 🔘 Stop 🔘 Run                 |  |  |  |
| Trace:              | OFF •                        |  |  |  |

Figure 31: Ethernet address parameters

#### Contacting IT for Ethernet configuration details

The IP address and other details such as the gateway address is supplied by the Building Management System Administrator. Contact them for the unique IP address, etd.

# Setting up location and timing information details for the Line Controller

The Line Controller can be configured to operate within a specific location and time zone. It is important to set these parameters because time and date data from the Line Controller is incorporated into system logs and reports. The graphic below displays the location and time configuration details within the LOCATION AND TIME tab.

Figure 32: Controller node > Location and time tab

| General                                    | Location   | n & Time De                      | vice Types                    |       |  |  |
|--|--|----------------------------------|-------------------------------|-------|--|--|
| Location                                   |  |                                  |                               |       |  |  |
| Locat                                      | ion:   | (GMT+09:30)                      | (GMT+09:30) Adelaide, SA, AUS |       |  |  |
| Latitu                                     | ıde:   | 34.55                            | North                         | South |  |  |
| Long                                       | itude:   | 138.35                           | 🔘 East                        | West  |  |  |
| Time                                       | Offset:  | +09:30 -                         | from UTC                      |       |  |  |
| Locat<br>enabl<br>sunse                    | Location details are used to calculate sunrise and sunset times<br>enabling the controller to perform actions relative to sunrise and<br>sunset. |                                  |                               |       |  |  |
| Dayligh                                    | t Saving   |                                  |                               |       |  |  |
| Time                                       | Zone:  | ne: Cen. Australia Daylight Time |                               |       |  |  |
| Time                                       |  |                                  |                               |       |  |  |
| Stand                                      | Standard Time name:  |                                  |                               |       |  |  |
| Dayli                                      | Daylight Saving Time name:   |                                  |                               |       |  |  |
| Real Time Clock                            |  |                                  |                               |       |  |  |
| Synchronise controller with computer clock |  |                                  |                               |       |  |  |
| Update Clock Update Multiple Clock         |  |                                  |                               |       |  |  |
|  |  |                                  |                               |       |  |  |

#### Setting the location and time for the Line Controller

To set the location, date and time for a Line Controller, follow the procedure below:

- 1 Locate Line Controller node in the tree view. The window and toolbar for this node appears
- 2 Click the LOCATION & TIME tab in the Line Controller node
- **3** Use the LOCATION drop down list to find a city within the world which best fits the location of the Line Controller
- 4 Use the LATITUDE and LATITUDE fields to adjust the geographical coordinates of the Line Controller more precisely
- **5** Use the TIME OFFSET drop down list to apply any time offset by a half hour or more.

#### 3.5 Reporting a Problem

Should you encounter any problem with the DALIBuildings, the software may trigger a PROBLEM REPORTING module or you can manually initiate the process. To report a problem, please follow the steps below:

1 In the Help menu, click the REPORT A PROBLEM option

#### Figure 33: Reporting a problem menu option

| 💯 DALIBuildings - DALIcontrol      |                  |  |  |  |  |  |
|------------------------------------|------------------|--|--|--|--|--|
| File View Search Discover Settings | Help             |  |  |  |  |  |
| ▲ 🚊 Site 1000                      | Help             |  |  |  |  |  |
| Level 1                            | Report a Problem |  |  |  |  |  |
| Custom Zones                       | About            |  |  |  |  |  |
|                                    |                  |  |  |  |  |  |
|                                    |                  |  |  |  |  |  |

2 A dialog window appears for the user to enter additional information. After entering your information, click the SEND REPORT button.

#### Figure 34: Reporting a problem dialog box

| Report a Problem  |  |
|---|--|
| Report a Problem  |  |
| An email containing diagnostic infomation and logs of recent activity will be sent to<br>Clipsal Integraded Systems. Please describe the problem you are experiencing<br>including the steps to reproduce it. |  |
| Email To: cis.errors@clipsal.com.au   |  |
| This is a test message  |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| ×   |  |
| Send Report Close   |  |
|   |  |
|   |  |

Your default email client will be launched. An e-mail is generated which includes the exception information and a attached log file.

3 Please send the email once you have reviewed the information. We thank you for your participation in the ongoing development of the DALIBuildings.

| <mark>⊘</mark> ≥<br>Fle | [Exception] DALIBuildings v2.0.1 (Duild 2916) - IBM Lotus Notes<br>Edit View Craste Actions Test Took Window Help   |          |  |  |  |  |
|-------------------------|---|----------|--|--|--|--|
| Q                       | 🖄 > [Exception] DALIBuildings v2.0.1 ( ×  |          |  |  |  |  |
|                         | dax Sans Sanf 💌 🗈 b i 2 41 14 🗄 15 🛎 🖩 🗑 🖩 🕸 🗛 🗏 P 🖗 🗛 🗶 🏲 🛛 💽 - Sandr Alfrad   | 9        |  |  |  |  |
| A                       | Send Send and File Save as Draft Delivery Options 🏱 🕈 🖉 Signature * Display * More *  | _        |  |  |  |  |
|                         | I construction au   |          |  |  |  |  |
| 2                       | Bcc Subject (Exception) DALIBuildings v2 0.1 (Build 2916)   | $\neg$   |  |  |  |  |
| 3 4 4 6 6 6 6 8 4 5 0 C | Integring CCPT ogram Trees (voluce in mercor 2) seeins (CC) poolaneins and Seeings (see a coverying)<br>Documents/E6400/Samsung)(ad/bundlewindows/d6-20130917) (ad/s)(addom=hools.cC)Program Files(Microsoft SOL, Server(100),Tools/Binn), cC)Program<br>Files(Microsoft SOL, Server(100),TS)Binn), cC)Program Files(Microsoft SOL, Server(100),Tools/Binn), VSShell(Common7)/DE\CC)Program Files(Nimap<br>CommandLineArgs-C), C(D, Ca, M), S), T(, X), Y1, Z)<br>Platform is: Win32NT<br>Service Pack is: Service Pack 3<br>Version is: S1 2600 196608<br>Version is: 12.000 196608<br>Version is: 40.00319 2.05<br>CLP Version is: 40.00319 2.05<br>COperation System Information | 1        |  |  |  |  |
|                         | Name = Windows XP<br>Edition = Protessional<br>Service Pack = Service Pack 3<br>Version = 5.1 2600.196608<br>Current Application = 32 Bits<br>Of # 32 Bits<br>Process = 32 Bits   |          |  |  |  |  |
| 8                       | -log_13.12.05.54  |          |  |  |  |  |
|                         | Body of message   |          |  |  |  |  |
|                         | Shi = 2   | Online + |  |  |  |  |

## Figure 35: Sample e-mail generated from reporting a problem