PART V – ADVANCED CONFIGURATION

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Registration Interface Licensing

Purpose of this Feature

The **Registration Interface Licensing** feature enables purchase of the following feature licenses (for use with System 3 only):

- Web Tagholder Enrollment License
- Web Visitor Enrollment License
- Amano-Touch License
- Multi-site License
- Card Designer License
- Elevator Control License
- Input\Output Control License

Example

The following example procedure shows the use of this feature.

Procedure

Connect your Amano RS Registration Interface before using the Registration Interface Licensing feature.

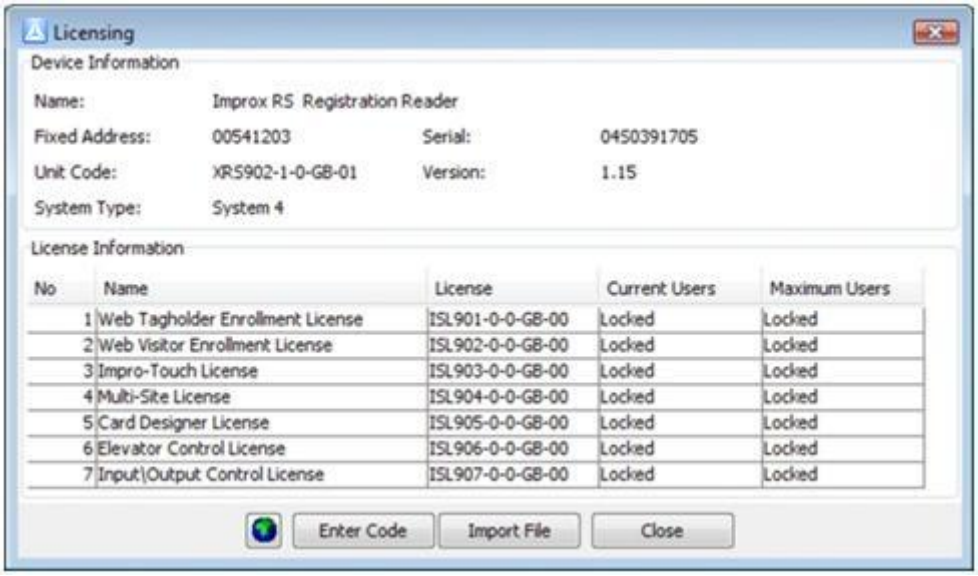

Figure 1 – Licensing Dialog

Feature Licence Unlock Procedure

1. In the Nexus 220 Base Application, from the Menu Bar select **Help Topics**>**Licensing**.
2. Click the **Import File** button.
3. From the **Select Device XML File** dialog, select the downloaded XML (Web Store Unlock) File.

*The file name reflects the **Fixed Address** of the Registration Interface for Upgrade.*

4. Click the **Open** button.
5. At the Unlock Successful dialog, click the **OK** button.
6. Click the **Close** button.

Communication Configuration

Purpose of this Feature

The **Communication Configuration** feature lets you change the Communication Port being used by your Nexus 220 Controller. That is, for example, moving your Controller from COM8 to COM17.

Make use of this feature when damage occurs to your Nexus 220 Controller along with its associated Communications Port (for example in the event of a lightning strike).

*We advise that only Network Administrators with knowledge of **Device Management** use this feature.*

The Communications Configuration Dialog, also lets you change the Timeout (Controller), Drop Time (Controller), Additional Timeout (Controller) and Inter Poll Delay settings.

Example

The following example procedure shows the use of this feature.

Procedure

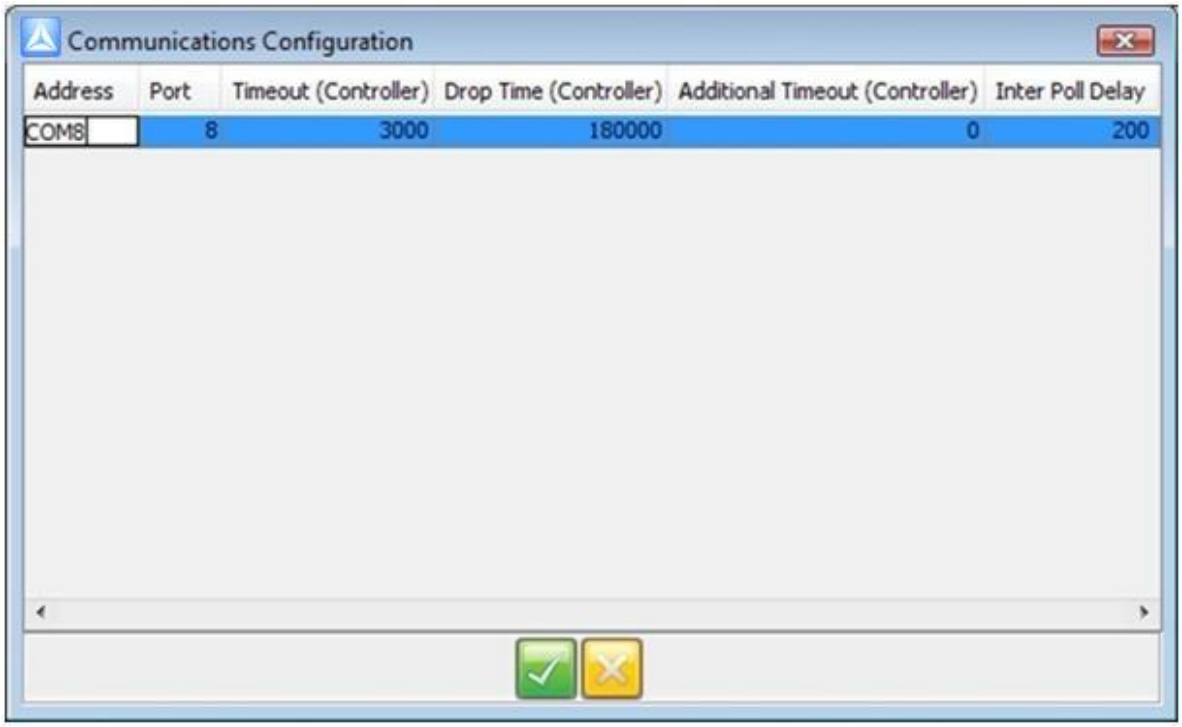

Figure 2 – Communications Configuration Dialog

1. In the Nexus 220 Base Application, from the Menu Bar select **Hardware**>**Communications**.
2. Double-click your mouse in the **Address** column, over the record for editing.
3. Edit the **Communication Port** number as per your requirements.

The Communications Configuration Dialog, also lets you change the following settings:

- ***Timeout (Controller)****—is the duration for which the Base Application waits for a reply from a Controller. Increase this if using EtherPADs, Radio Modems, and so on. (For example use a setting of 5 000 for EtherPADs). Also increase this setting if you receive many 'Controller Timeout' messages.*
- ***Drop Time (Controller)****—the duration for which the Controller will be dropped if it times out. This setting rarely requires change.*
- ***Additional Timeout (Controller)****—an extra timeout value for increasing timeouts on the Controller bus. Increase this when fast polling Controllers across EtherPADs, Radio Modems, and so on. (For example use a setting of 500). Ideally, disable fast polling for EtherPADs, Radio Modems and so on.*
- ***Inter Poll Delay****—the delay between successive polls. Use this to poll less often thus reducing network traffic over EtherPADs on a WAN (for example, use a setting of 2 000).*

4. Click the button.

Lift (Elevator) Control

Purpose of this Feature

Lift (Elevator) Control feature lets you setup Lift (Elevator) Control in your Nexus 220 System. Using Lift (Elevator) Control, you control access by a Lift (Elevator) to various floors in a building so a Tagholder can only select the floor or floors that they have access rights to.

Example

1. Install a Reader inside the Lift (Elevator).
2. Wire the Amano O16('s) so that each Lift (Elevator) button gets power from the respective Relay on the Amano O16.
3. Create the required Access Groups allowing access to the necessary floors.
4. Give the respective access rights to the Tagholders that need access to these floors.

When the Tagholder presents their Tag to the Entry Reader in the Lift (Elevator), the buttons for the assigned floors light up allowing selection of the floor.

Procedure

Door Configuration

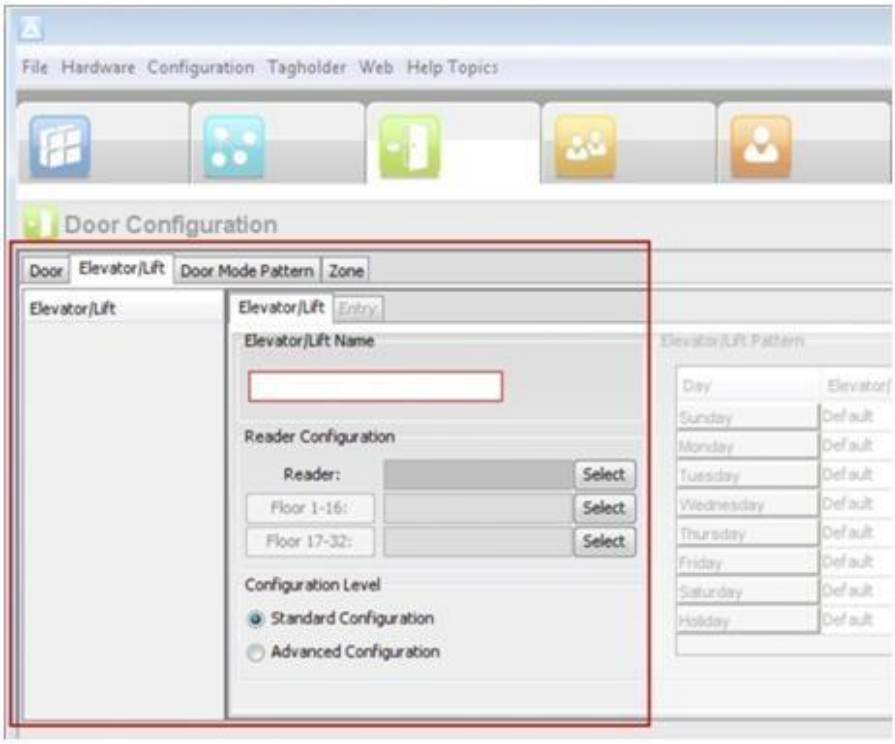

Figure 3 – Left-hand Side of the Door Configuration Pane

Ensure that you unlock your Registration Interface for Elevator Control before using this feature. See page 5 of this section for more information.

1. In the Nexus 220 Base Application, select the Page Tab.
2. Select the **Elevator/Lift** Tab.
3. Click the button.
4. In the **Elevator/Lift Name** textbox, assign a suitable name.

This textbox has a 16 character limit.

5. If you installed a Reader, click the **Select** button alongside the **Reader** textbox.
6. In the **Unassigned Readers** dialog, from the list of displayed records, select a Reader.
7. Click the button.
8. Click the **Select** button alongside the **Floor 1-16** textbox.
9. In the **Unassigned Readers** dialog, from the list of displayed records, select a Terminal.
10. Click the button.
11. Click the **Floor 1-16** button.
12. In the Floor Name Configuration dialog, in the **Name** textbox, assign a suitable name.
13. Assign **Floor Names** to the Relays.

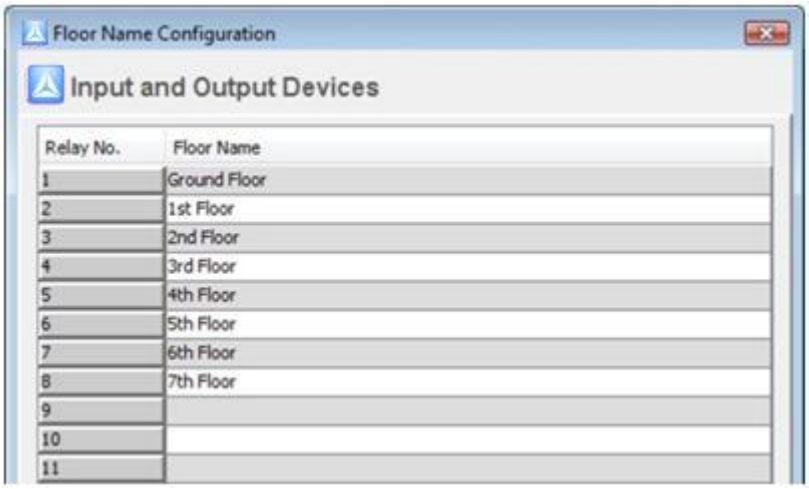

Figure 4 – Floor Name Configuration Dialog Showing Relay Assigned to Floor

Rather than entering the floor number, you may assign your floors names.

14. Click the button.
15. Click the button.

*Click the **Floors 17-32** button and repeat steps 11 to 14 for these floors if required.*

When using Lift (Elevator) Control across multiple Lifts (Elevators), Lift (Elevator) buttons must connect to the output Relays in the same order in each Lift (Elevator).

16. From the **Configuration Level** group, select one of the following radio buttons:
    - **Standard Configuration**—activates only the basic Access Control features.
    - **Advanced Configuration**—activates extra advanced features.

Configure the Entry Reader

1. In the **Reader Configuration** group (see Figure 3), alongside the Reader textbox, click the **Select** button.
2. In the Unassigned Readers dialog, from the list of displayed records, select a Reader.
3. Click the button.
4. Select the **Reader** Tab.
5. Complete fields on this Tab based on your sites specific needs.
6. Click the button.
7. Click the button.

Configure Lift (Elevator) Mode Pattern

The Nexus 220 Software supports a maximum of 8 Door Mode Patterns at each Door.

This setting regulates the Lift's (Elevator's) operating mode including the start and end time. Continue as follows to add a new Lift (Elevator) Pattern:

1. On the Configuration Pane, select the **Door Mode Pattern** Tab.
2. Click the button.
3. In the **Pattern Name** textbox, assign your Door Mode Pattern a suitable name.
4. Click the button.
5. From the records displayed on the left-hand side of the Configuration Pane, select the newly created Door Mode Pattern record.
6. Edit the following settings for the selected record:
    - **Start Time** and **End Time**—breaks the day into time slots. By selecting and changing the End Time figure, you effectively create extra records, breaking the day into parts. You may create a maximum of 8 time slots per Door Mode Pattern.
    - **Mode**—indicates the mode in which the Door (Location) operates.

Door (Location) operating mode examples include:

- ***Tag Mode****—requires presentation of a Tag to gain access.*
- ***Supervisor Unlock****—requires that a Supervisor unlock the Door prior to normal employees gaining entrance.*
- ***Locked****—the Door is locked and cannot be overridden with any Tag.*
- ***Open****—the door is opened when the first valid Tagholder presents their Tag.*
- ***No Entry****—only Administrators are granted access.*
- ***Door Entry Code****—requires entry of a Door Entry Code to gain access.*
- ***Open Now****—Door opens at specified time. A Tag is not required to open the Door.*
- ***Personal Access Code****—requires entry of a Personal Access Code to gain access.*

    - **Finger (BSHO)**—no hardware support at this time.
    - **+PIN**—make a selection from the choices presented: No, Entry, Exit or Both. By selecting Entry, Exit or Both, you call for Tagholders to present their Tag and enter a PIN-code at the respective Keypad Reader.

- **+Reason**—make a selection from the choices presented: No, Entry, Exit or Both. By selecting Entry, Exit or Both, you call for Tagholders to present their Tag and enter a Reason at the respective Keypad Reader.
- **+Dual Tag**—requires presentation of 2 individual Tags for access.
- **Record**—Log Transaction.
- **Denied Alarm**—by selecting Yes, you instruct the System to treat denied events as alarms.
- **LED**—Sets the LED's behaviour during the stipulated time slot.

7. Click the button.

Advanced Configuration

On selecting the **Advanced Configuration** radio button, the Elevator/Lift Patterns and Zone settings activate.

Configure the following settings:

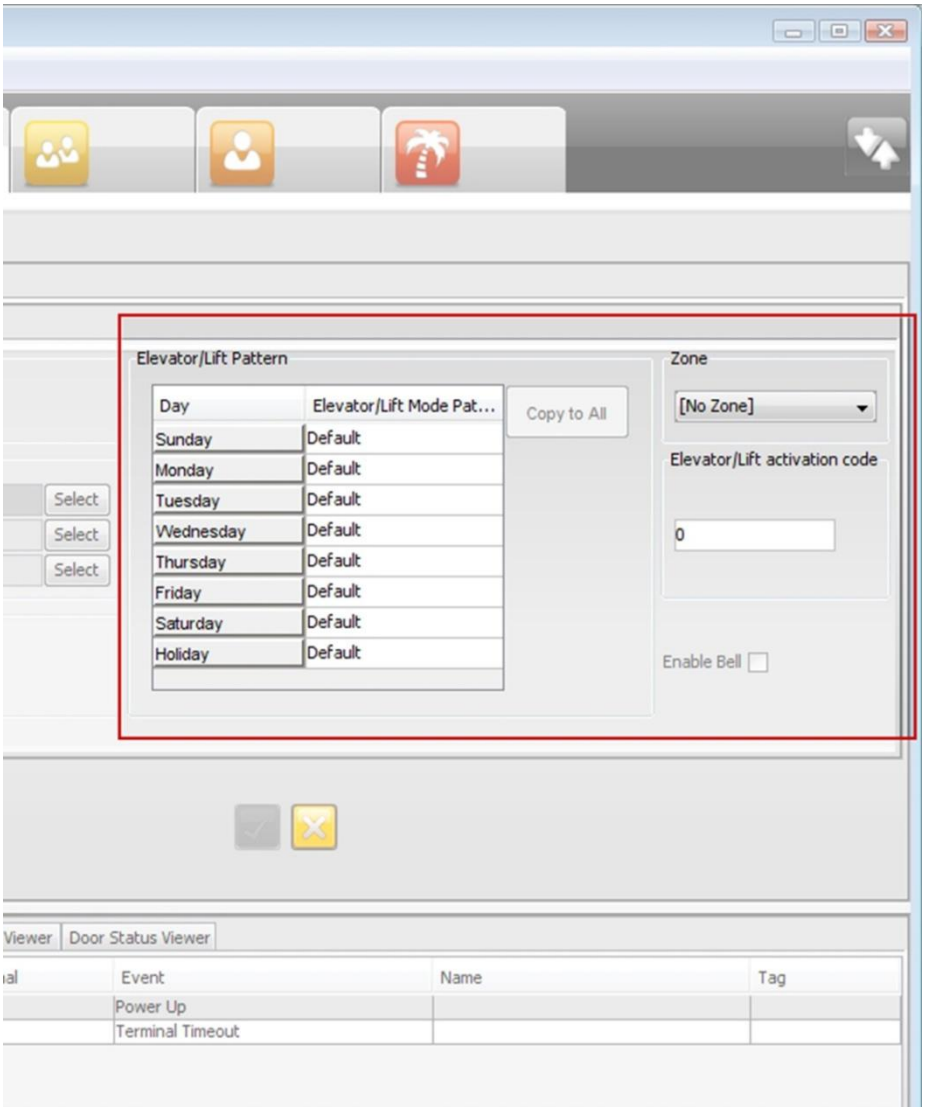

Figure 5 – Right-hand Side of the Door Configuration Pane

1. On the Configuration Pane, select the **Elevator/Lift** Tab.

2. In the **Elevator/Lift Pattern** group (see Figure 5), make your selections from the Day's Elevator/Lift Mode Pattern drop-down lists.
3. In the **Zone Group**, select a Zone from the drop-down list.

*Using an **Elevator/Lift Activation Code** allows Tagholders to enter or exit a Lift (Elevator) using a 4 digit numeric PIN-code instead of a Tag. Activate the Lift/Elevator Activation Code feature, as follows:*

1. *On the Configuration Pane, select the **Door Mode Pattern** Tab.*
2. *Click the button.*
3. *In the **Pattern Name** textbox, assign your Pattern a suitable name.*
4. *Click the button.*
5. *From the records displayed on the left-hand side of the Configuration Pane, select the newly created Pattern record.*
6. *Edit the following settings for the selected record:*
   - ***Start Time**, **End Time**, **+PIN**, **+Reason**, **+Dual Tag**, **Record**, **Denied Alarm** and **LED**.*
   - ***Mode**—select **Door Entry Code** from the drop-down list. (Door Entry Codes range from **1 to 9999**).*
7. *Click the button.*
8. *On the Configuration Pane, select the **Elevator/Lift** Tab.*
9. *In the **Elevator/Lift Activation Code** textbox, enter a 4 digit numerical PIN-code.*

4. Click the button.

Access Group Configuration

Elevator/Lift Access Tab

Ensure that all Lifts (Elevators) in a Lift (Elevator) Access Group go to the same floors. Note, you need not use all Lifts (Elevators). Selecting floors from a single Lift (Elevator), the selection works as normal.

1. Select the Page Tab.
2. Select the **Elevator/Lift Access** Tab.

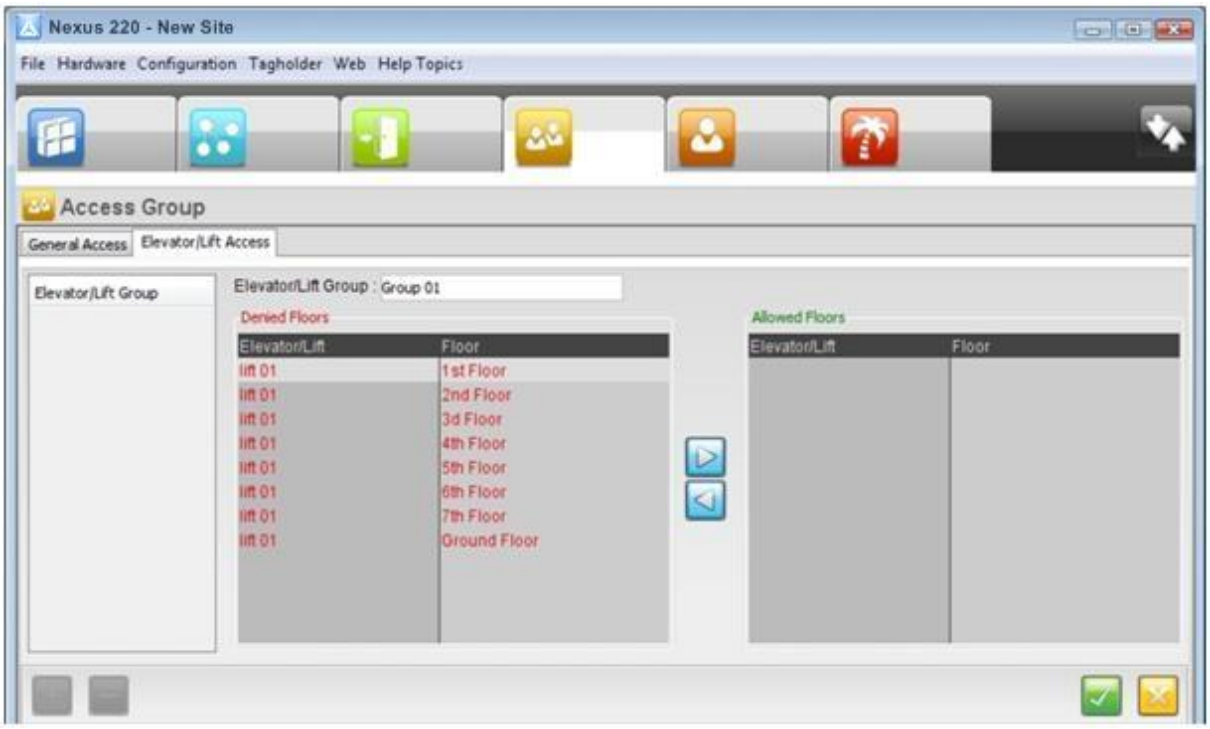

Figure 6 –Access Group Configuration Pane

3. Click the button.
4. In the **Elevator/Lift Group** textbox, assign a suitable name.
5. From the **Denied Floors** group, multi-select the Lifts (Elevators) and Floors to which you want to assign access.
6. Click the button.

Return wrongly selected Lifts (Elevators) and Floors to the Denied Floors group by clicking the button.

7. Click the button.

General Access Tab

1. Select the **General Access** Tab.

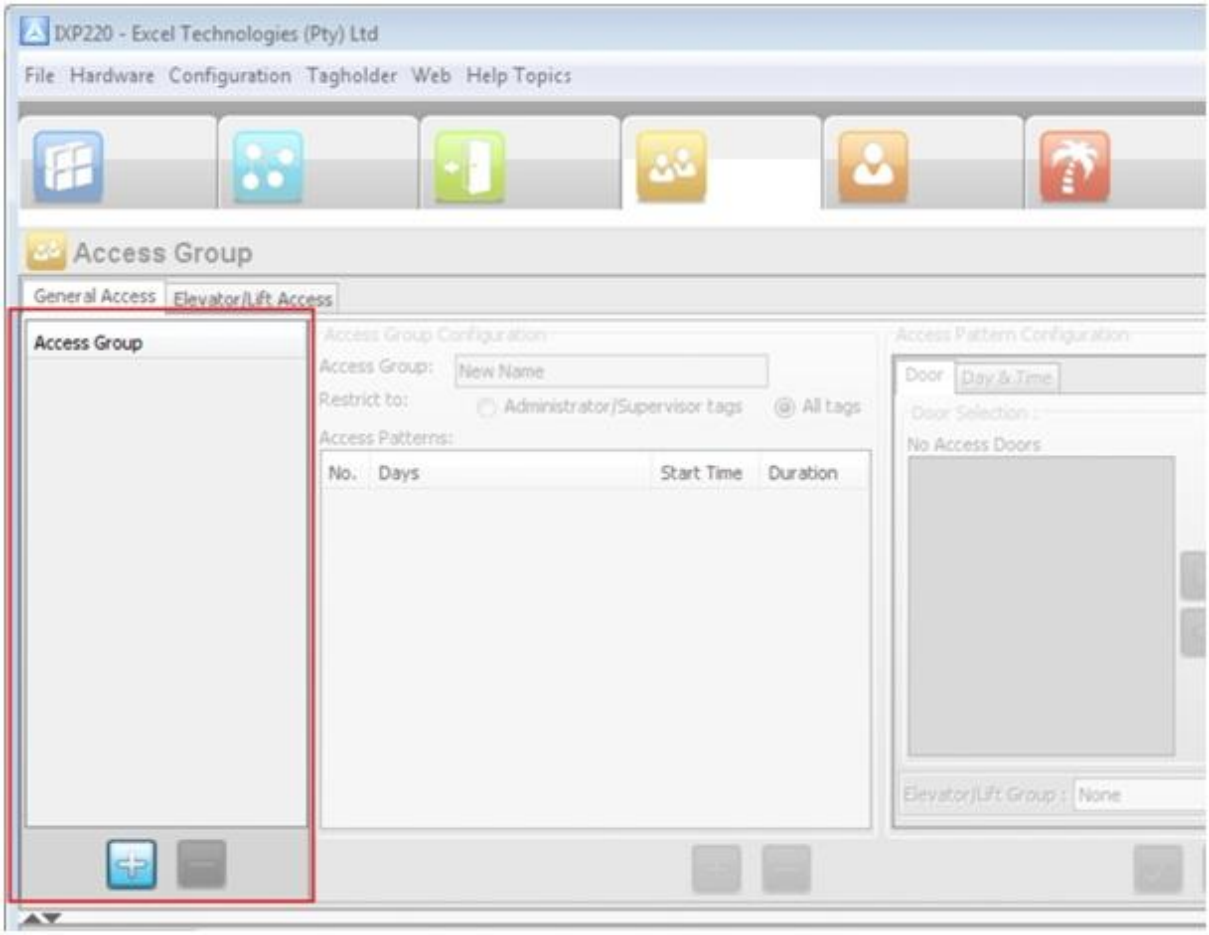

Figure 7 – Left-hand Side of the Access Group Pane (General Access Tab Selected)

2. As highlighted in Figure 7, click the button.
3. In the **Access Group** textbox, assign your Access Group a suitable name.
4. From the **Select To** radio buttons, select either of the following choices:
   - **Administrator/Supervisor Tags**
   - **All Tags**—Visitor and Employee Tagholders.
5. Click the button.

Only the SYSDBA user can give a Tagholder access to a Tagholder Access Group categorized as Administrator or Supervisor.

*You may add a **maximum of 8** Access Time Patterns at each Door.*

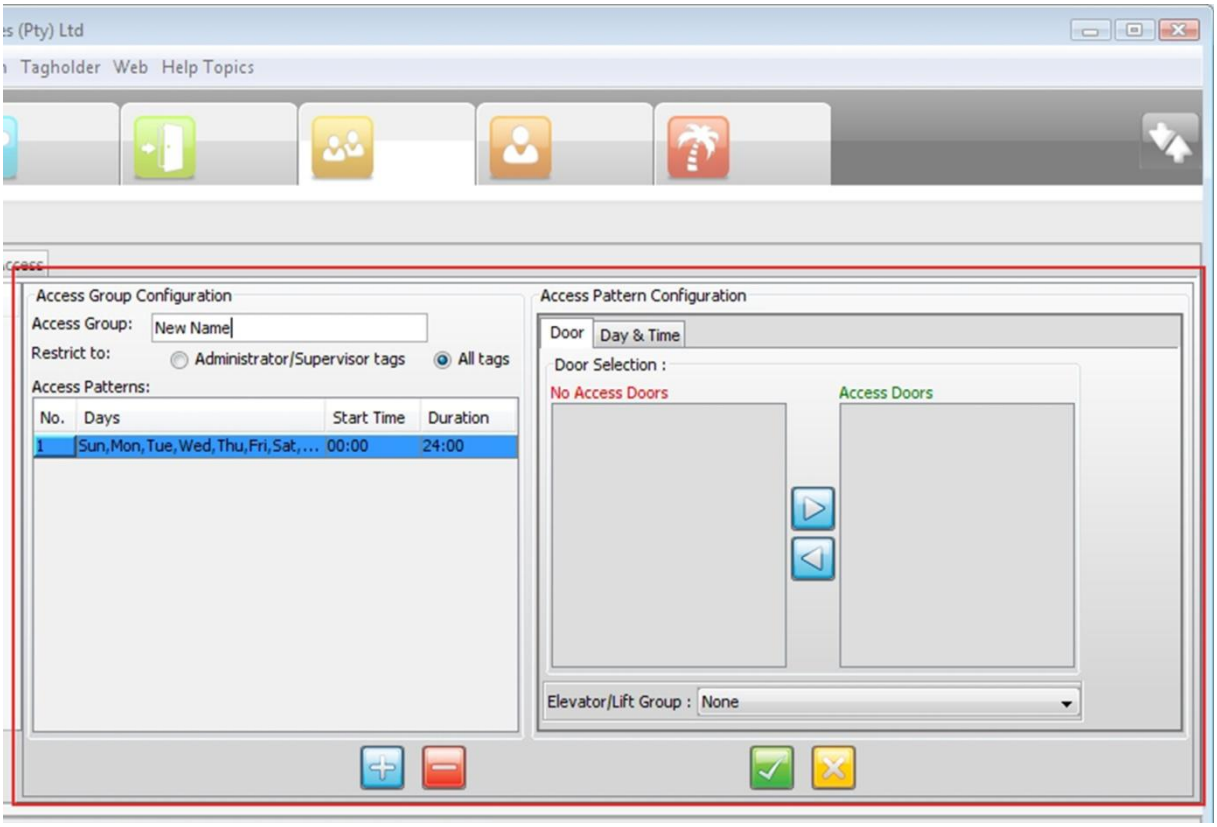

Figure 8 – Right-hand Side of the Access Group Pane (General Access Tab Selected)

6. As highlighted in Figure 8, click the button.
7. In the **Access Pattern Configuration** group, select the **Door** Tab.
8. In the **No Access Doors** text area, select the **Door** you want the Access Pattern applied to.

From the No Access Doors text area, select multiple Doors (Locations, by holding down the Ctrl key and selecting multiple records.

9. Click the button.
10. From the **Elevator/Lift Group** drop-down list, make your selection.
11. In the **Access Pattern Configuration** group, select the **Day & Time** Tab.
12. From the **Select Day Pattern** group, deselect checkboxes where NOT applying the Pattern.
13. In the **Start Time** textbox, enter a suitable start time.
14. In the **End Time** textbox, enter a suitable end time.

The Duration automatically calculates based on the information you capture into the Start and End Time textboxes.

15. Click the button.

Building Management

Purpose of this Feature

The Building Management feature lets you manage various hardware devices in and around the office, such as irrigation, lighting or airconditioning with the use of event driven or time triggered actions. The Nexus 220 System supports up to 18 input or output devices per Controller, configured as required.

- As the name suggests, set up a time triggered action by selecting a time and day and assigning a relay drive time to the Action.
- Event driven actions use the Inputs from the Amano I16 to trigger a relay to drive and stop.

Example

The following example procedure shows the use of this feature.

Procedure

Controller Configuration

1. In the Nexus 220 Base Application, select the Page Tab.
2. From the Mode Configuration (Optional) group, select the **Action** radio button.
3. Click the button.

Terminal Configuration

From the Menu Bar select **Configuration**>**Building Management**>**Input/Output Devices**.

Amano I16 Terminal – Input Setup

1. From the left-hand side table, select your Amano I16 Input Terminal.
2. In the **Name** textbox, assign your Terminal a meaningful name.
3. **Disable** or **Enable End-of-Line Sensing** by selecting the appropriate radio button.
4. In the right-hand side Terminal Setting table, assign each Relay in use an **Input Name**.
5. Check the corresponding **Alarm** checkbox if required.
6. Click the button.

Amano O16 Terminal – Output Setup

1. From the left-hand side table, select your Amano O16 Output Terminal.
2. In the **Name** textbox, assign your Terminal a meaningful name.
3. In the right-hand side Terminal Setting table, assign each Relay in use an **Output Name**.
4. Click the button.

Action Configuration

1. From the Menu Bar select **Configuration**>**Building Management**>**Actions**.
2. Click the button.
3. From the **Trigger Type** drop-down, make your selection:

Time Triggered Action Setup

1. From the **Trigger Type** drop-down, select **Time**.

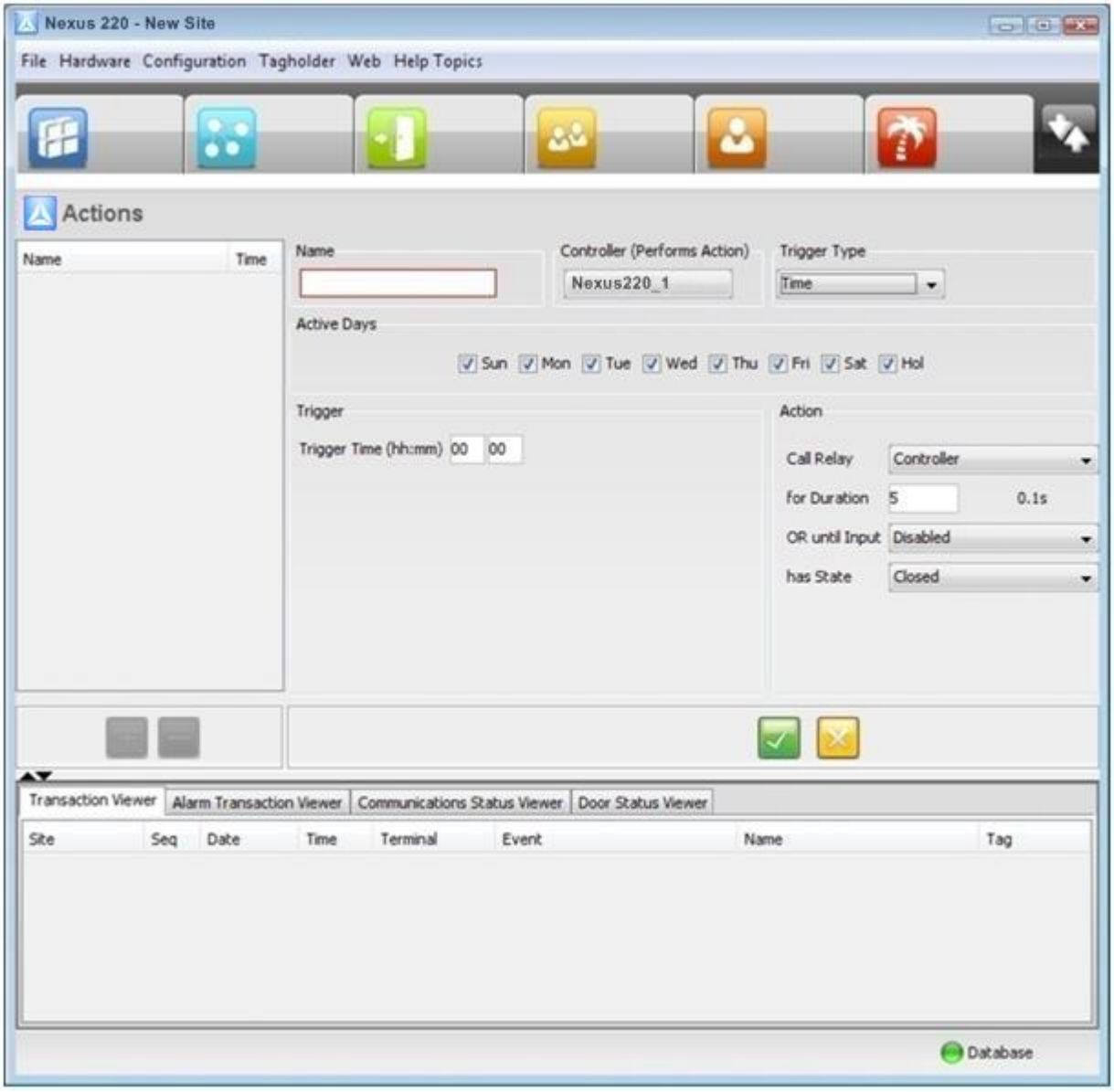

Figure 9 – Actions Configuration Pane

2. Give the Action a meaningful **Name**.
3. Assign a **Trigger Time** using the textboxes provided.
4. From the Active Days group, make your selection from the **Sun** to **Hol** checkboxes.
5. From the **Call Relay** drop-down list, select the required Relay name.
6. Click the button.

Input Triggered Action Setup

1. From the **Trigger Type** drop-down, select **Input**.

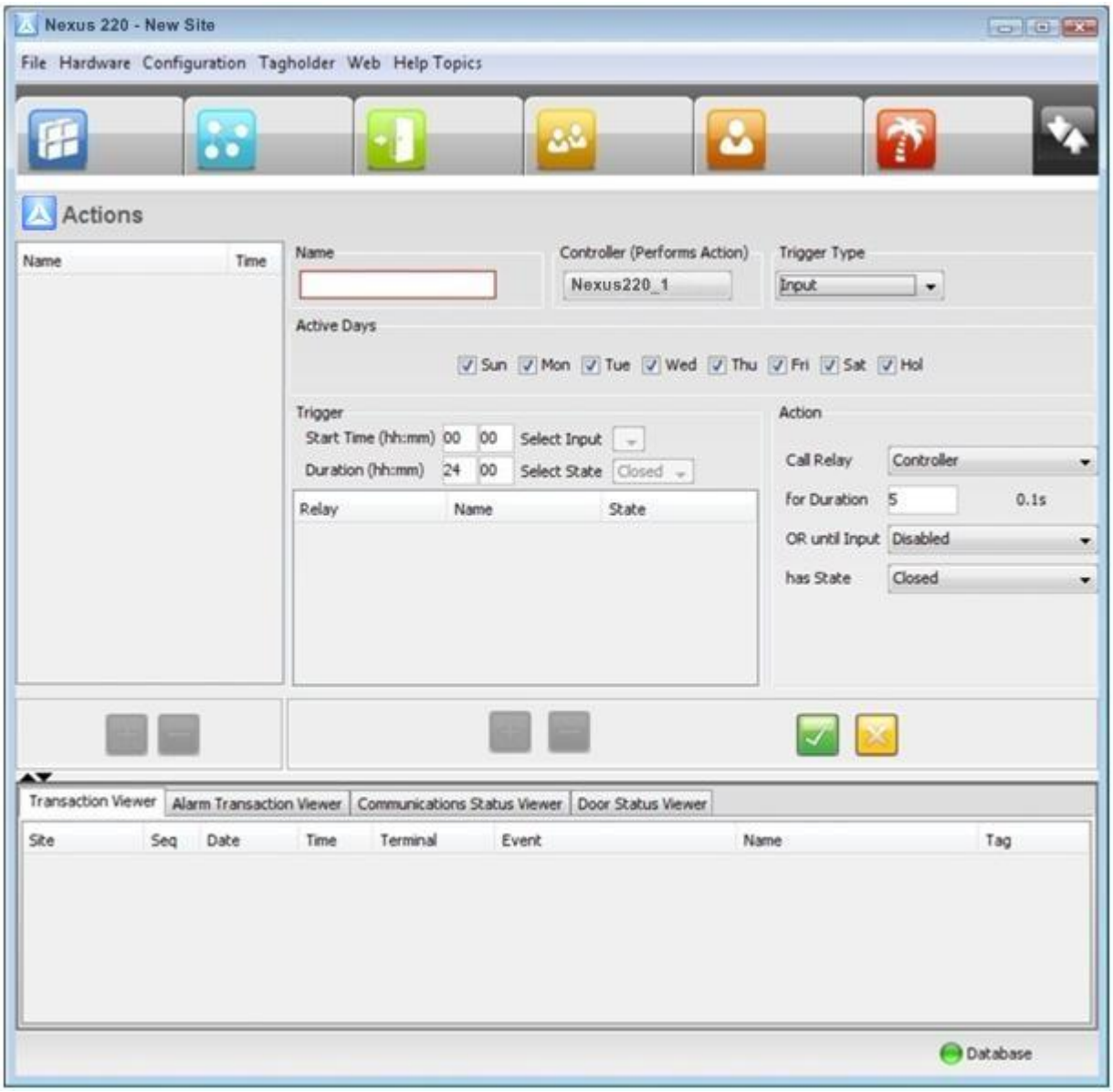

Figure 10 – Actions Configuration Pane

2. From the **Select Input** drop-down list, select one of the Input names.
3. From the **Select State** drop-down list, select from the following choices:
   - **Closed**—input state closed.
   - **Open**— input state closed.
   - **Toggled**— input state alternates between open and closed.
4. Select the **Start Time**.
5. Select the **Duration**.
6. Click the button.
7. From the Active Days group, make your selection from the **Sun** to **Hol** checkboxes.
8. From the Call Relay drop-down list, select the required Relay name.
9. Click the button.

USER NOTES

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