

integrity



INTEGRATED SOLUTIONS

DRAFT

INTEGRITI USER MANUAL



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TECHNICIANS.**

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- Additional Applications and Tables not included in this manual.
- Updates and/or changes to existing documents.
- New documents to be added to this manual.

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(Restricted downloads)
- <http://www.onlinetraining.innerrange.com/login/signup.php>
(Restricted account creation)
- <http://www.innerrange.com.au/support.php>
(Support contacts)

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Integrati User Manual

Table of Contents

WARRANTY	5
SOFTWARE MAINTENANCE AGREEMENT	5
PRODUCT HIGHLIGHTS	6
INTEGRITI BASICS	8
LOGIN	8
USER INTERFACE	9
GUI LAYOUT	10
<i>Ribbon Tab</i>	11
<i>Ribbon</i>	12
<i>Ribbon Group</i>	12
<i>Integrati Version</i>	12
<i>Logged in operator</i>	13
<i>Docking Panel</i>	14
<i>The Navigation Panel</i>	16
<i>Dialog windows</i>	20
<i>Hyperlinks</i>	21
AUDIT	22
CREDENTIALS	26
<i>Credentials</i>	29
TIME PERIODS	30
HOLIDAYS	31
AREA LISTS & DOOR LISTS	31
MENU GROUP	33
GHOSTSERROR! BOOKMARK NOT DEFINED.
LOGIN ERRORS	39

Warranty

Inner Range Pty Ltd is proud of the reputation it has gained in the provision of high quality electronic products. Exhaustive factory and field testing ensure that enhanced system programming features and additional hardware components operate as expected prior to their release to our customers. Extensive function testing is carried out on every Inner Range Concept product prior to it leaving the factory. It is our intention to completely satisfy the requirements of our customers. To that end, Inner Range Pty Ltd stands behind its products with confidence.

Software Maintenance Agreement

Protect Your Integriti Software Investment with an Inner Range Software Maintenance Agreement

For a modest annual fee you will receive:

- Unlimited telephone and e-mail Customer Support by our Integriti Help Desk.
- Free software upgrade releases of Integriti for the software modules for which you are licensed.

Get the most from your Integriti Security Management Software!

Complete and return the Application form contained in your Integriti pack or download the form from: <http://www.innerrange.com/downloads/MaintenanceAgreement.pdf>

Did you know that Inner Range operates customer training courses throughout Australia and New Zealand?

Details of our Integriti System Administration courses are listed on our Training Website at <http://training.innerrange.com/index.cfm>

Enrol on-line or contact Inner Range on (03) 9753 4300 or via email to: admin@innerrange.com

Product Highlights

Connectivity

- Simplified Controller Connectivity (only requires a single TCP port).
 - Improved NAT Traversal, far less firewall configuration required.
- Simple Automatic Discovery of controllers on local network.
- Integrity is a true multi-controller, multi-workstation system.
- Supports paths with automatic switching to redundant paths on link failure.
- Clustered Architecture: Support for multiple servers for scalability or high availability.

Editing

- Changes to module programming take effect immediately, without a LAN secure.
- Unlimited number of granular permissions and credentials per user.
- Dynamic Update of all data. All changes are instantly reflected on other operator workstations, no need to refresh screens if someone else changes something.
- Programming structures, inputs and outputs for LAN modules are created automatically when they are connected to the LAN.
- Fully customizable user interface, allows any editor to be customized to suit customer needs.
- Multi-Select Edit. Set the properties of multiple records in a single operation, no need to manually apply the change to each record.
- Cross Reference: Graphically visualize the relationships between all entities in the system.
- Live LAN status of modules, zones and auxiliaries is displayed.
- Dynamically Filter and sort by any field on any entity.
- Dynamically Filter and sort by current state (inputs in alarm, doors that are unlocked).
- Selectively show or hide items based on:
 - Name.
 - LAN status (secured, missing, unexpected, not installed).
 - Programming status (blank, programmed, queued for upload/download).
- Logical groupings: allow entities to be arranged and grouped with infinite flexibility.
- Support for multiple sites, with unlimited sub-sites.
- Window / docking panel placement customisation including layout saving and retrieval per operator.
- Single-click hyper-linking between forms.
- Automatic detection of edits made at any Terminal.
- User editing provides the following features:
 - Users can be exported. This allows an operator to make pre-set templates easily and observe how the import file format should appear.
 - Multiple Users can be selected for blanking records or exporting.

Reports

- Comprehensive audit trail.
- Any filtered data grid can be exported right from within the System Designer.
- 3NF Normalized database, can be easily queried and reported on.

Management

- Full support for offline editing.
- Comprehensive operator permissions system providing infinite flexibility.
- Hierarchical operator permissions allowing separate sites to be administered both individually and globally.
- Full support for Multi-Site and multi-tenancy.

Control

- Remotely control areas, area lists, auxiliaries, auxiliary lists, doors, door lists, floors, floor lists, home auxiliaries and zone inputs.
- Per-User permissions are enforced for remote control from the software.

Integriti basics

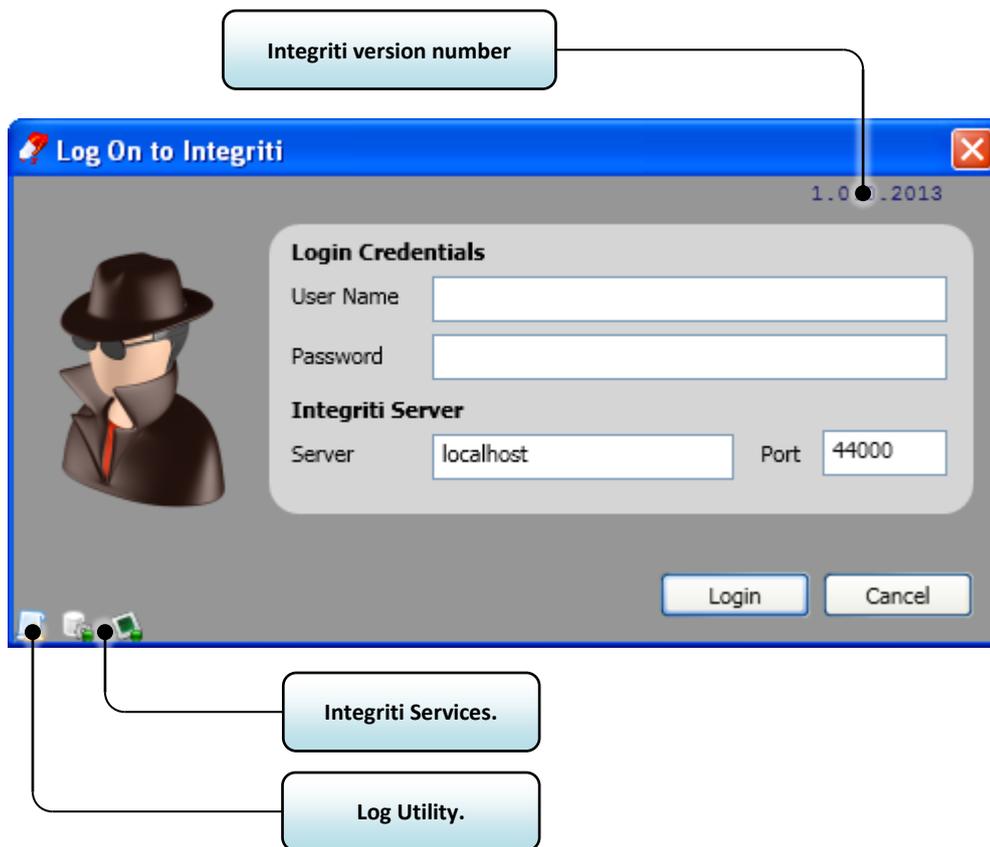
Login

Operators are presented with a login dialog when they run Integriti. To log in, simply enter your operator name and operator password then click the Login button.

Operator credentials are defined within the Integriti management software.



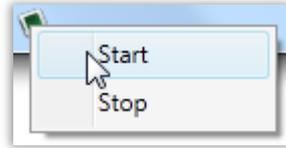
The default Integriti operator login is called 'Installer' with the default password of 'installer'. It is strongly recommended that you remove this operator or change the password as soon as possible.



Make sure the Integriti services are running before you attempt to log in.

Integriti Services

The Integriti services should be running before you log in to Integriti. If they are not, right-click the service icon and click Start.



The service icon should appear solid, indicating that the service is running:

	Stopped	Stopping	Starting	Running
Integriti service				
Integriti application service				

Log Utility

The log utility is used for diagnostic / fault finding purposes. You can access the log utility by double-clicking the  icon either in the login dialog or in the Integriti title bar.

User Interface



The document titled 'Interface elements for Integriti contains information on how to make good use of the user Interface.

GUI Layout

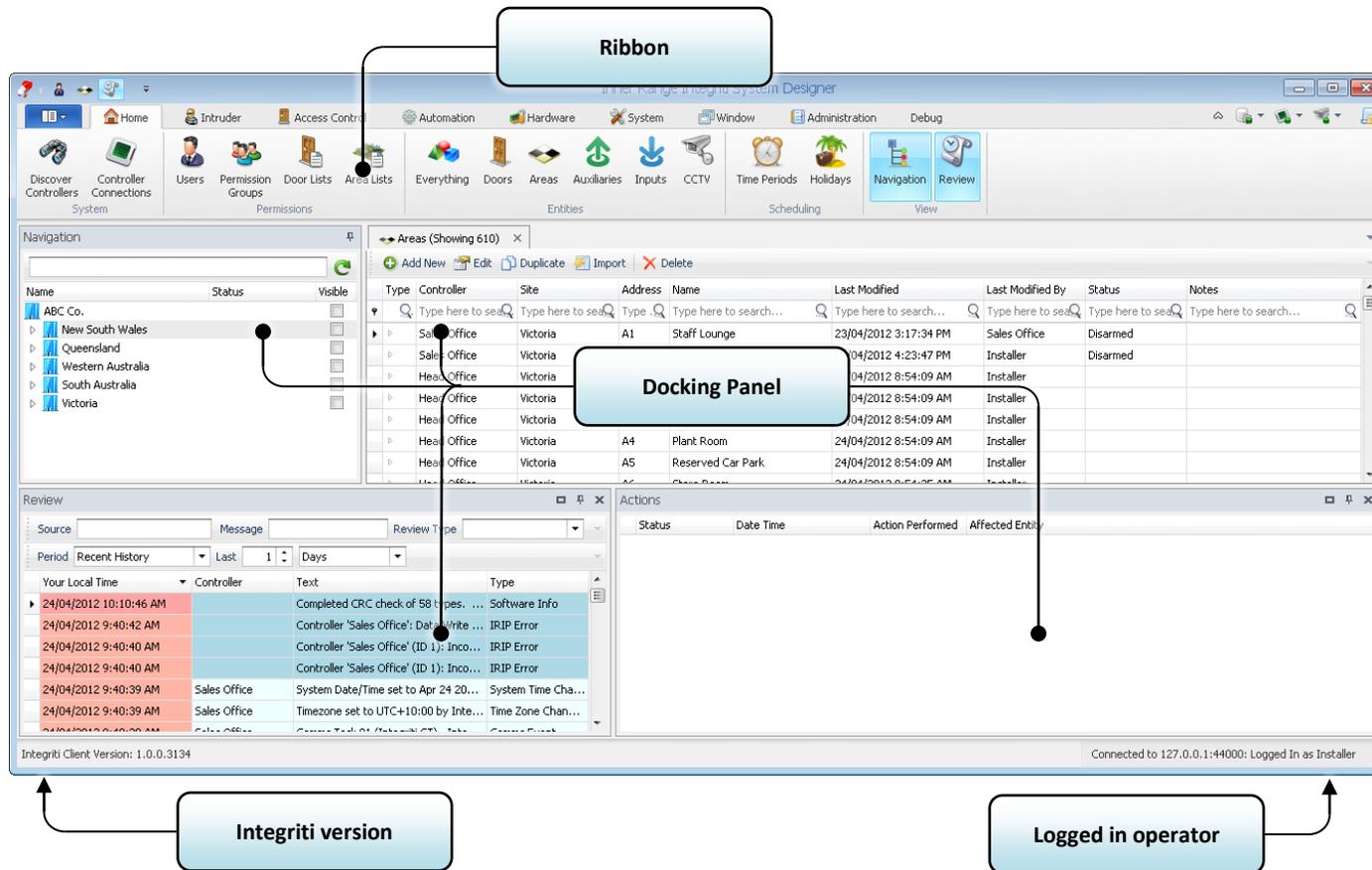


Figure 1

Ribbon Tab

There are a total of 9 ribbons which are accessible by clicking on the appropriate ribbon tab. Each ribbon has a collection of items.



Home

Home

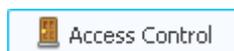
The home tab contains all of the most commonly used items within Integriti edit.



Intruder

Intruder

The intruder tab contains all of the physical and logical entities associated with intrusion control.



Access Control

Access Control

The access control tab contains all of the physical and logical entities associated with access control.



Automation

Automation

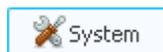
The automation tab contains HVAC, analogue, counting, action, macro and entities associated with automation.



Hardware

Hardware

The hardware tab contains all of the physical Integriti module items including firmware update.



System

System

The system tab contains items that are configured system wide within Integriti edit.



Window

Window

The Window tab groups layout sets and layout configuration settings.



Administration

Administration

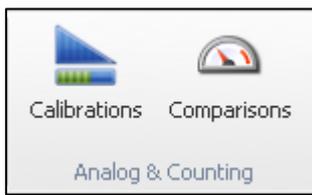
Items not found in any of the tabs above will be found in this tab including operator configuration.

Ribbon



Integriti makes use of ribbons to help reduce the amount of desktop space used and to help with finding things easier.

Ribbon Group



Ribbon groups contain items that fall in to the same category. For example the 'Lists' ribbon group contains Door Lists, Area Lists and Auxiliary Lists.

Integriti Version

Integriti Client Version: 1.0.0.2419

The Integriti version number is displayed in the bottom left-hand corner of the main window.

Logged in operator



Connected to 127.0.0.1:44000: Logged In as Installer

In addition to the client connection details, the name of the Logged in operator is displayed in the bottom right-hand corner of the main window.

Docking Panel

Docking panels are displayed by clicking on the relevant ribbon item.

If a docking panel is already open, clicking on the ribbon item will bring the docking panel to the foreground.



For example, clicking the **Named Actions** button will display the actions docking panel (*Figure 2*).

Each docking panel can be moved freely around the desktop or docked within the Integriti application window. If you need to restore the layout to the factory default, click the

Reset Layout button under the **Window** tab.

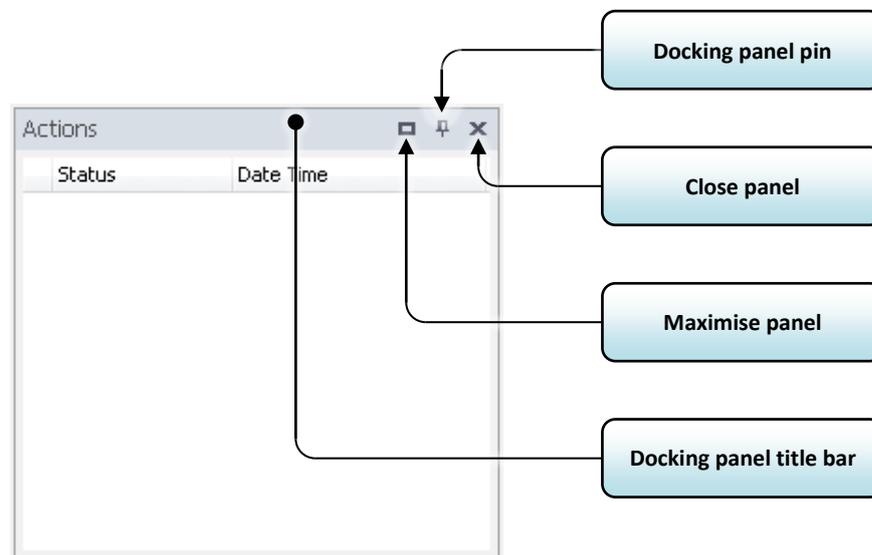


Figure 2

Docking panels can be one of two states:

Docked	The docking panel is bound to a window.
Floating	The docking panel has been detached from a window and can be moved freely around the desktop.

Docking Panel Pin

Clicking on the Docking Panel Pin will 'pin' the docking panel to the Integriti window.

- 📌 The docking panel pin in the upright position means the docking panel will remain visible within the window.
- 📌 The docking panel pin in the horizontal position means the docking panel will automatically hide when the docking panel no longer has focus.



When a docking panel is hidden it will appear as small tab on the window edge it was closest to at the time the docking panel pin was clicked. Clicking on the tab or hovering the mouse over the tab will restore the docking panel until the user clicks elsewhere.

Docking panels that are not docked within the Integriti application window cannot be pinned.

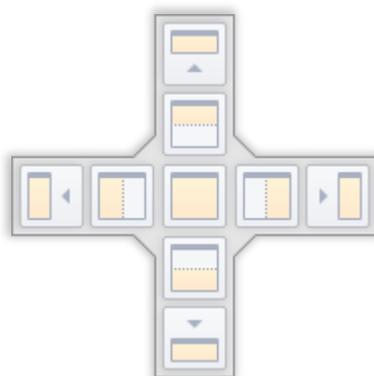
Moving docking panels

Docking panels can be relocated anywhere within the Integriti application window or on the desktop. To relocate a docking panel, click and drag the docking panel title bar.

Dragging the docking panel to the icons any of the following icons will bind the panel to the left, right top or bottom sides of the Integriti application window:



Dragging the docking panel to any of the icons in the centre of any other panel will bind the panel to the top, left, right or bottom of that panel or as an additional tab in a panel group:



A coloured highlight will indicate the placement of the panel if you were to release the mouse button.

The Navigation Panel

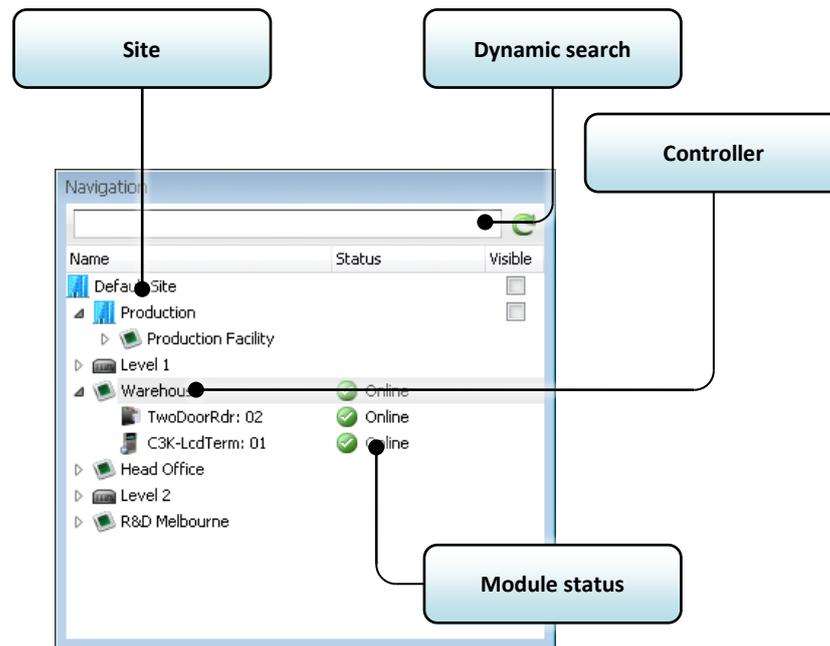


Figure 3

By default the navigation panel is located to the left of the Integriti application window. The navigation panel is a central location for organising all of your controller hardware.

Controller hardware is organised in to a tree view with LAN modules spanning from each controller. To help organise panels 'Sites' and 'keywords' (bookmarks) can be created.

Re-organising items within the navigation panel is as simple as clicking and dragging items to a new location.

Sites



Sites can be used to group controllers, LAN modules, keywords and sub sites.

Keywords



Keywords are place markers created by the operator to make searching for (and organisation of) items easier.

Controllers



Controllers are intelligent components of your security solution capable of independent action. The Integriti management software communicates directly with controllers to manage your intrusion, access control, automation etc... Controllers are normally managed by your installation company.

Modules



Modules are physical devices that are attached to the Integriti controller LAN. You will notice a number of devices populated under each connected controller. These modules are normally managed by your security installation company.

The Review Panel

The review panel is located at the bottom left of the Integriti window by default. At a glance, operators can see events as they take place (or history) and action them as required.

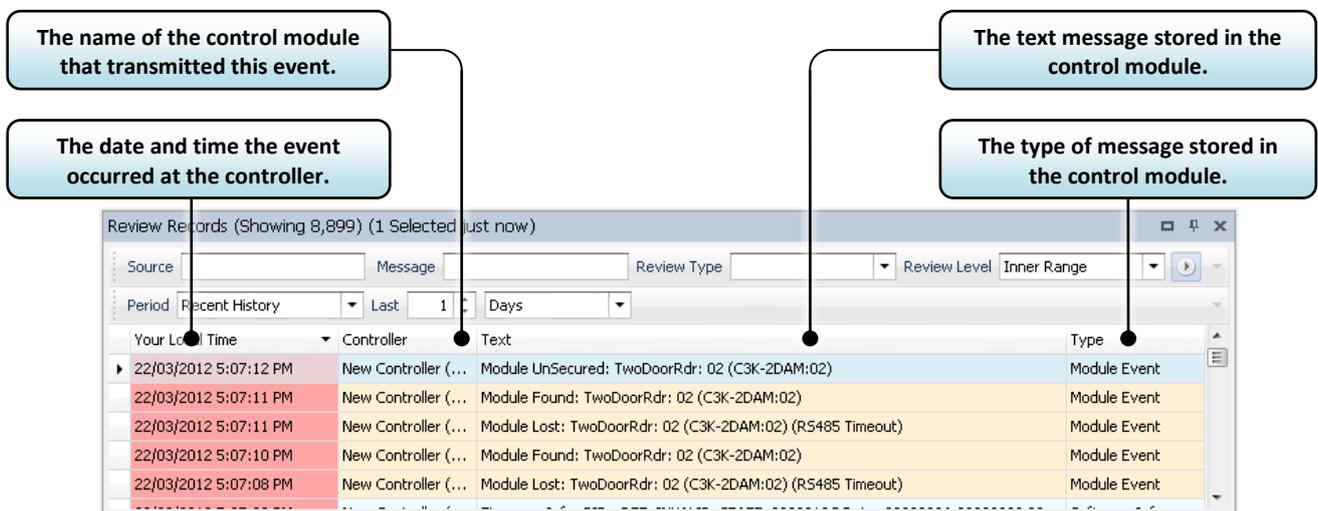


Figure 4

The review panel has a 'heat signature' feature which allows the operator to see the age of the displayed review events. The background colour of the review events in the first column 'Your Local Time' represents the age.

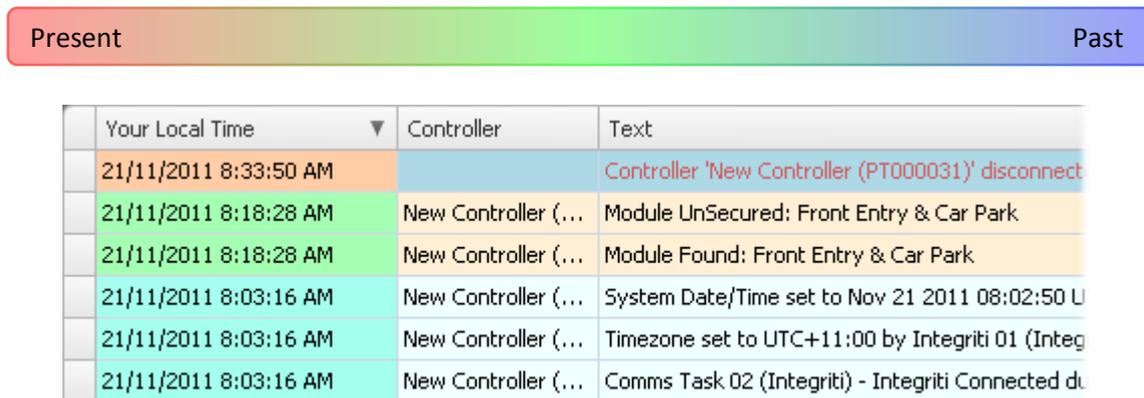


Figure 5

The single greatest advantage of this feature is the ability to notice how review events are grouped without reading individual timestamps. *Figure 5* is a simple example of this feature.

Your Local Time ▼	Controller	Text
21/11/2011 9:58:06 AM	New Controller (...)	System Date/Time set to Nov 21 2011 09:58:36 U
21/11/2011 9:58:06 AM	New Controller (...)	Timezone set to UTC+11:00 by Integriti 01 (Integ
21/11/2011 9:58:05 AM	New Controller (...)	Comms Task 02 (Integriti) - Integriti Connected d
21/11/2011 9:00:00 AM	New Controller (...)	Working Hours became Valid (TP00001)
> 21/11/2011 9:58:35 AM		Controller 'New Controller (PT000031)' connected

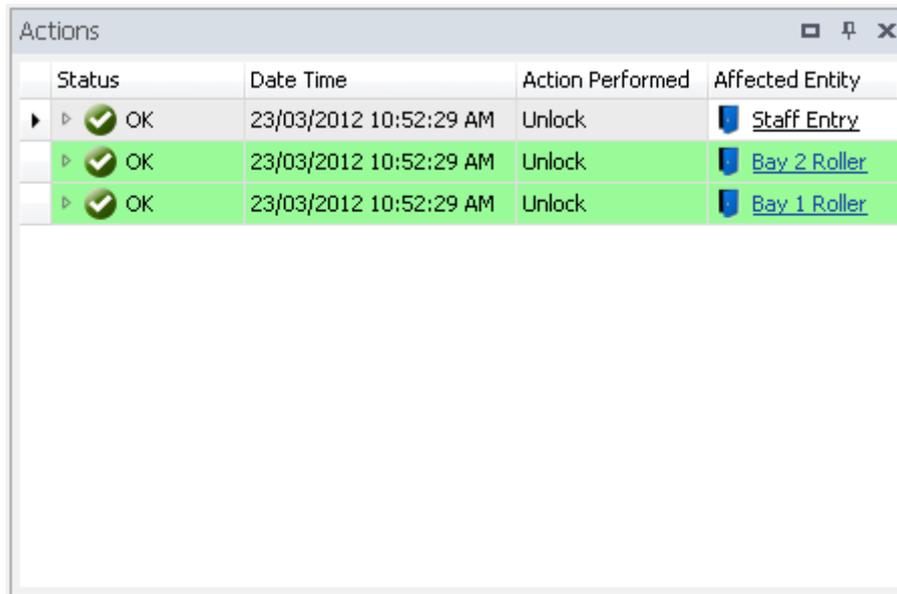
Figure 6

In the example above an older event has been placed in between newer events. This scenario can occur when communications to one or many controllers has been (re-)established or when review is sorted on a field other than time.

Review filtering and organisation occurs at the time the filter is applied.

The Actions Panel

The actions panel will display various action types as they occur and their status. For instance, if you were to upgrade the firmware of a controller, a progress bar will appear in the actions panel indicating the firmware upgrade progress.



Status	Date Time	Action Performed	Affected Entity
▶ ✓ OK	23/03/2012 10:52:29 AM	Unlock	Staff Entry
▶ ✓ OK	23/03/2012 10:52:29 AM	Unlock	Bay 2 Roller
▶ ✓ OK	23/03/2012 10:52:29 AM	Unlock	Bay 1 Roller

Figure 7

Dialog windows

Most programming windows will look similar to the following example...

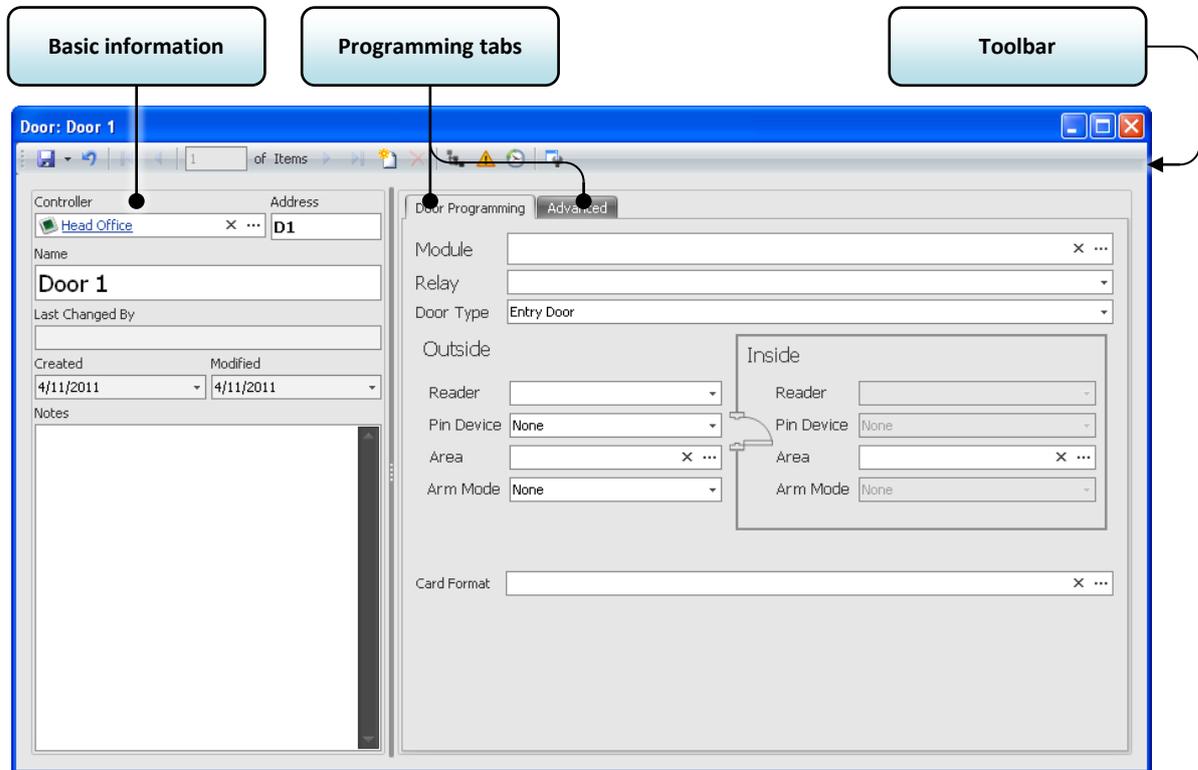


Figure 8

The left side of the programming window contains items relevant to all programmable entities within the Integriti management software.

The right side of the programming window contains a number of programming tabs (usually two). The first tab (eg 'Door Programming') will contain all of the required programmable items relevant to the entity. Other tabs will usually contain advanced options or lists to associate other entities with the currently programmed item (Eg Inputs to an area).

Toolbar

The toolbar contains the following buttons:

	Save	Save the currently displayed record settings.
	Undo	Undo the last change since the window was opened.
	First Record	Go to the first record in the series.
	Previous Record	Go back one record.
	Next Record	Go forward one record.
	Last Record	Go to the last record in the series.
	New Record	Create a new record.
	Delete Record	Delete the currently displayed record.
	Property page view	Change the view to the default property page layout.
	Show Cross References	Open a dialog with a tree view that displays the references to and references from this entity.
	Show Synchronisation Warnings	
	Audit	Open a new window displaying the entire history of changes made to this record.
	Customize Layout	Change the layout of the dialog window.

Hyperlinks

Much like Insight, Integriti has the added convenience of hyperlinks. Hyperlinks are blue text labels that let you quickly navigate between related items, without using the ribbon and panels to manually locate them. To follow a hyperlink, simply click on it. Clicking on a hyperlink will open a window with the properties for the clicked item.

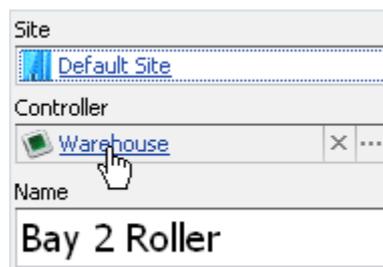


Figure 9

Audit

The Audit panel contains a list of all changes made. Each individual change is logged within the Integriti database.

 Take advantage of the audit feature. If you've made a programming error, use audit to help review the changes you made.

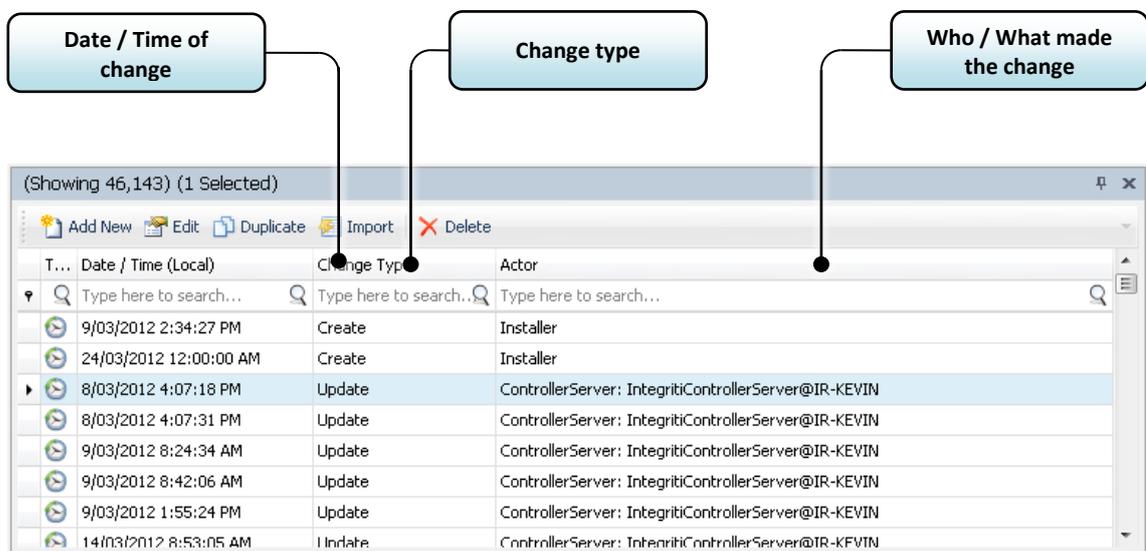


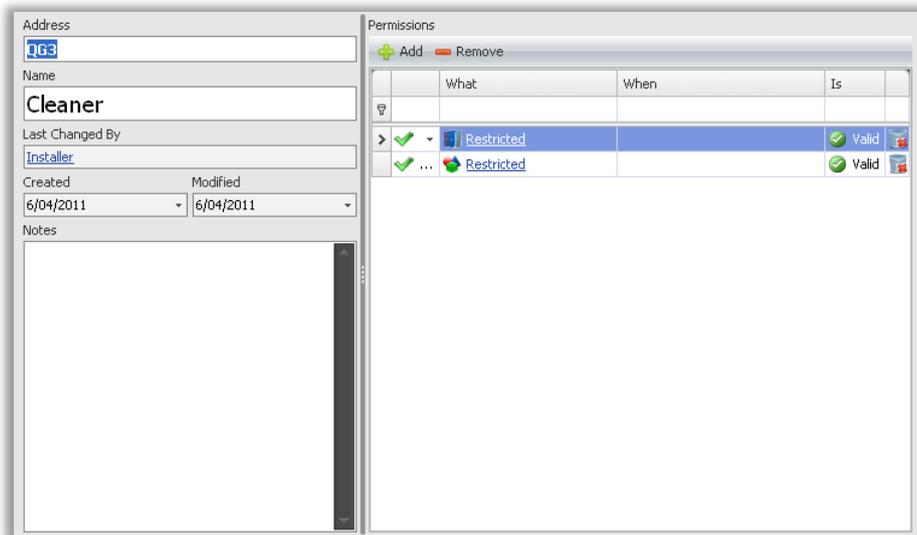
Figure 10

Users Programming Guide

The purpose of this programming guide is to step you through common programming scenarios. For programming detail please refer to the Installation guide.

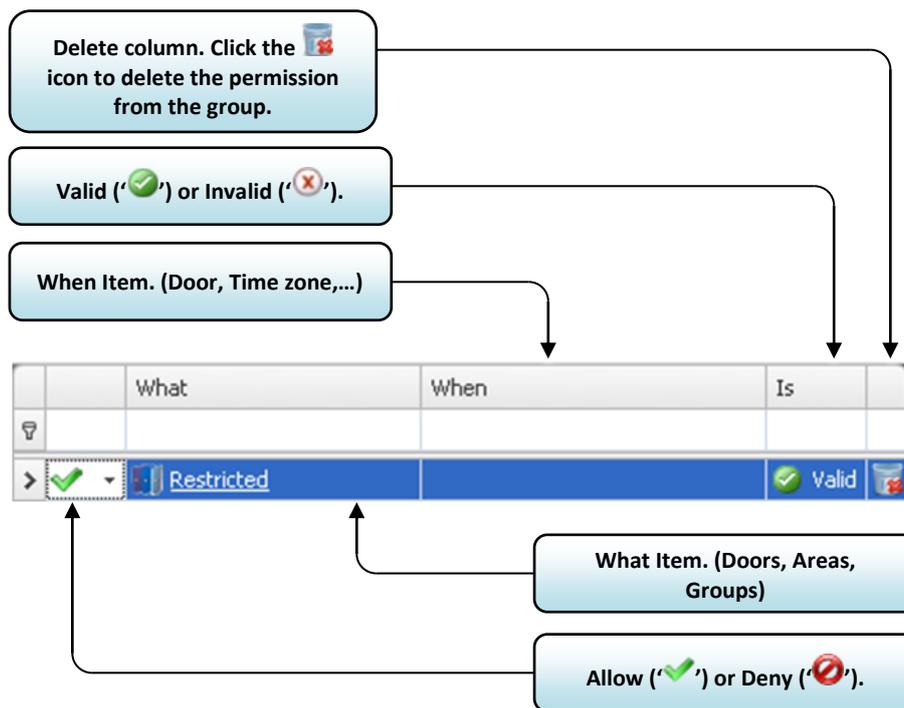
Everything within the Integriti management software is global in nature. For instance, when you open the Doors panel it contains all of the doors across all of the Integriti controllers.

Permission Groups



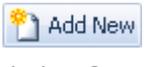
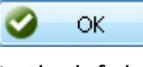
The Permission Group dialog

Global permission groups are designed to make user programming easier. A Permission group has a single list that can consist of Doors, Areas and Groups from all of the accessible sites within Integriti.



An individual permission within a permission group

To create a permission group, use the following procedure:

1. Click on the  Home tab followed by the  Permission Groups button.
2. Click the  Add New icon in the Permission Groups Panel.
3. The Permission Group Programming dialog should appear.
4. Give the Permission Group a Name and add any necessary details in the Notes field.
5. Click the  Add button to add a new permission to the group.
6. Select the desired Door, Door List, Area, Area List or group and click the  OK button.
7. In the left-hand column, select whether the permission is allowing access or revoking it.
8. The second column is the selected Door, Door list, Area,...
9. The third column is an optional qualifier for the permission itself.
10. The fourth column determines whether the optionally selected qualifier needs to be Asserted or De-asserted.
11. The last column is a button to allow you to remove the individual permission.
12. Click the  button and close the dialog.

Credentials

User credential (proximity card, swipe card, fob...) programming only requires a card template selection and 'data'. The data field commonly refers to the card number (or issue number) of the credential that is to be issued to the user.

Users

Users within the Integriti management software are global. This means that the user record is only created the one time and individual permissions will tie the user to a controller.

Qualify PIN codes may be used in association with cards for access control to provide a "something you have plus something you know" method of user authentication, in a card and PIN system. Many users can have the same Qualify PIN codes (just like an ATM card).

Security PIN codes are unique codes (passwords) used to identify users. Users use these PIN codes to log in to the Integriti controller and perform various tasks. Because individual PIN codes are used to identify users at the controller, duplicate PIN codes are not permitted.

You can add individual permissions to a user by clicking the  Add button within the User Programming dialog or if many users are likely to have the same permissions, permission groups should be used.

Permissions that can be added to a user are Doors, Door Lists, Areas, Area Lists, Menu Groups and Permission Groups.

Each User record has a default Permission Group. Permission Groups are an optional resource used for organisation of granular user permissions.

There are two methods used to create new users:

Creating a new user by duplicating an existing record:

If an existing user has the same configuration as the new user you are about to create then the easiest method of creating that new user is by clicking the existing user you want to duplicate followed by the  Duplicate button. A new dialog window will appear with the new user details.

Creating a new user:

1. Click on the  Home tab followed by the  button.
2. Click the  Add New icon in the Users Panel.
3. The User Programming dialog should appear.
4. Give the User a First Name, Last Name and add any necessary details in the Notes field.
5. Users have two PIN codes. The Qualify PIN is used for access control purposes where a Card & PIN qualification is required. This number can be duplicated across the system.
The purpose of the Security PIN is to log in to the terminal.

Primary Permission Group

6. Click  and select the primary permission group for the user.

Extra Permissions

7. Click  Add and select one or many items from the item selection dialog.

Properties

User Options

Property	Description
Cancel On Card Access	Tick this to automatically cancel the user the next time an access control event occurs (such as opening a door).
Cancel On PIN Logon	Tick this to automatically cancel the user on their next PIN access.
Handicapped User	Tick this to set the users access times to the Handicapped Unlocked time specified for each door.
Duress Code	This user will be treated as a duress user. If this user does anything on the system (arm / disarm / open a door...) a configurable duress action can be triggered.
User Cancelled	This user has been cancelled. This user will no longer function but will generate events if they attempt to do anything on the system.
No Greeting	Greetings will not be displayed when a user logs on to a terminal.

User Lockout

Property	Description
Lockout Enabled	This user is locked out when the Control Module option 'Enable Lockout' is set.
Lockout Control	This user can allow locked out users permission to logon with a pin entry

Tenancy

Property	Description
Tenancy Area	Area to be optionally armed/disarmed on door access and reader arming.

Offline Options

Property	Description
Offline Valid DoorList	Doorlist to be used for this user when access module offline and Offline Schedule is valid.
Offline InValid DoorList	Doorlist to be used for this user when access module offline and Offline Schedule is invalid.
Offline Schedule	Schedule to control Offline doorlists when access module offline.

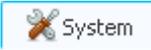
8. Click the  button and close the dialog.

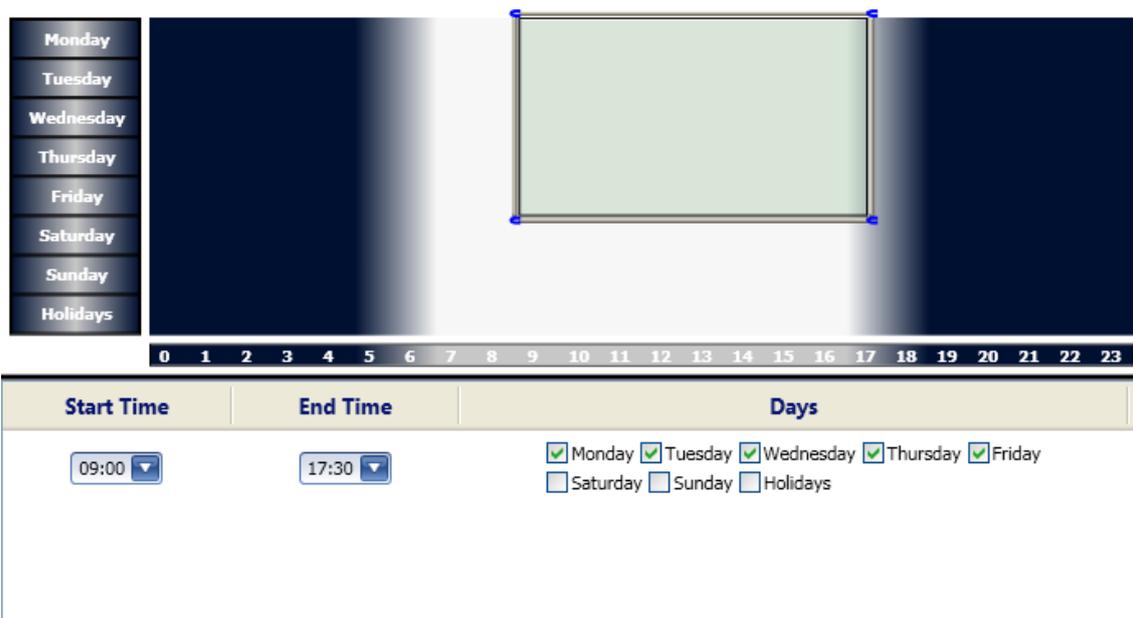
Time Periods

Time periods are created by clicking and dragging schedule periods on the schedule pane or by manually adding a schedule period by clicking the **Add Schedule Period** button directly below the schedule pane.

- Overlapping schedule periods do not impact one another.
- Only Holidays associated with the Time Period will have an effect on the validity of the Schedule Periods.
- Time Periods without the Holidays check box ticked will be invalidated when the Holidays associated with the Time Period are valid.

To create a new Time Period:

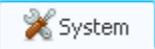
3. Click on the  Home or  System tab followed by the  button.
4. Click the  Add New icon in the Users Panel.
5. Give the Time Period a Name and add any necessary details in the Notes field.
6. Click and drag a region (a schedule period) on the schedule pane as many times as required to create the desired time period.
– or –
7. Click the **Add Schedule Period** button and change the parameters of the newly created schedule period.
8. Click on the  Holidays tab followed by  Add to add holidays to the Time Period.
9. Click the  button and close the dialog.



Start Time	End Time	Days
09:00	17:30	<input checked="" type="checkbox"/> Monday <input checked="" type="checkbox"/> Tuesday <input checked="" type="checkbox"/> Wednesday <input checked="" type="checkbox"/> Thursday <input checked="" type="checkbox"/> Friday <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday <input type="checkbox"/> Holidays

Holidays

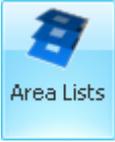
To create a new Holiday:

1. Click on the  Home or  System tab followed by the  button.
2. Click the  Add New icon in the Users Panel.
3. Give the Holiday a Name and add any necessary details in the Notes field.
4. Change the start time and date to that of the holiday.
5. Change the end time and date to that of the holiday.
– or –
Change the Duration (Days) to the appropriate number of days the holiday is to last for.
6. If the holiday to recur annually, tick the Recur Annually check box.
7. If GMT time is used, tick the GMT check box.
8. Click the  button and close the dialog.

Area Lists & Door Lists

Area / Door lists are a simple collection of areas / doors. These lists can be used in place of associating individual areas or doors to individual users.

To create an area or door list:

1. Click on the  Home tab followed by  Area Lists or  Door Lists.
2. In the Area lists / Door lists panel click the  Add New button.
3. The list properties window will appear with the usual basic options on the left side. Fill in the Name and Notes as necessary.

- The right-hand side of the window is divided in to two sections. The top (green) section contains a list of all of the items associated with this Door / Area list. Double-click items in the upper or lower sections to move them in or out of the list:

List Items			
	Controller Name	Address	Name
In List (5)	5 Smith St	A2	Admin
	F6-8 Production St	A1	Store Room
	R&D Facility	A1	Admin
	R&D Facility	A5	Reserved Car Park
	R&D Facility	A62	Car Park
Not In List (8)	5 Smith St	A1	Foyer
	5 Smith St	A3	Comms Room
	R&D Facility	A2	Loading Dock
	R&D Facility	A3	Offices
	R&D Facility	A4	Plant Room
	R&D Facility	A6	Store Room
	R&D Facility	A63	ACCESS
	R&D Facility	A64	SYSTEM

13 of 13 Areas shown (5 in list / 8 not in list) Remove

- Click the  button and close the window.

Menu Group

Menu Groups are permission sets used to grant or deny user's access to the Integrity controller via the terminal.

To create a Menu Group:

1. Click on the  Intruder or  Access Control tab followed by  .
2. In the Menu Group panel click the  Add New button.
The properties window will appear with the usual basic options on the left side. Fill in Configurable menu group properties:

Main Menu Items

Property	Description
Area	Allows access to arm and / or disarm areas.
Info	Allows access to the controller review and other panel information such as firmware revision and the currently configured IP address.
Access	Allows access to user programming.
Isolate	Allows access to isolate (and sticky isolate) inputs.
Testing	Allows access to testing menus for inputs, auxiliaries, sirens, batteries, etc...
Time	Allows access to configure the time and date of the controller. Additionally, you can configure time periods, schedules, holidays and custom LCD messages.
Misc	Allows access to UK options.
Installer	Allows access to the installer programming menus.
Service	Allows access to the service menus
Control	Allows access to control various items such as Doors, Lifts and PActions. Additionally this menu will allow access to adjust counters and user counts.
Lists	Allows access to configure lists.
Groups	Allows access to configure groups.
Edit Input Count	Allows access to adjust input counters.
Edit User Count	Allows access to adjust user counters.
RF Remote	
Full Test Suite Allowed	

Sub Menu Items

Provided there are no restrictions on the terminal itself, the following sub menu items are accessible if enabled.

Property	Description
User Codes	Allows access to modify user codes.
User Groups	Allows access to modify user groups.
Review	Allows access to the controller review history.
Date / Time	Allows access to modify the current controller time and date.
Time Periods	Allows access to modify time periods.
Schedules	Allows access to modify the schedules.
Holidays	Allows access to modify the holidays.
LCD Messages	Allows access to modify the custom LCD messages.
Card Formats	Allows access to modify the controllers supported card formats.
Card Templates	Allows access to modify the card templates.

Area Control Permissions

Provided there are no restrictions on the terminal itself, the following sub menu items are accessible if enabled.

Property	Description
Initiate Defer	Users with this Menu Group will initiate a deferred area off when disarming areas with the Defer Area option set.
Isolate On Exit	The user is allowed to automatically isolate unsealed inputs during the exit delay period.
24 Hour Off	The user is permitted to disarm 24 Hour system areas.
Default List	Once logged in, the user will be presented with their Area List control.
Isolate All	Isolation of any input is permitted.
Sticky Isolate	Sticky Isolation of any input is permitted.

Access Control

Provided there are no restrictions on the terminal itself, the following sub menu items are accessible if enabled.

Property	Description
Outside Area Off on Egress	The Area on the outside of the door will be turned off on egress.
User Area Off on Egress	The Users Tenancy Area on the outside of the door will be turned off on egress.
Inside Area Off on Ingress	The Area on the inside of the door will be turned off on ingress.
User Area Off on Ingress	The Users Tenancy Area on the inside of the door will be turned off on egress.
Dual User Provider	This user can provide a credential to validate another user.
Dual User Override	This user will not require another user to provide access to doors configured for dual user access.
Anti-Passback Override	Anti-passback rules do not affect this user.
Dual Credential Override	This user will not be required to provide a second credential for doors configured for dual credential access

Advanced Options

Groups 1-16. Optional action grouping as to what action groups can be controlled by this user.

Remote Access Permissions

Property	Description
Arm Area	Remote arming of areas is permitted.
Disarm Area	Remote disarming of areas is permitted.
Arm 24 Hour Area	Remote arming of 24 hour areas is permitted.
Disarm 24 Hour Area	Remote disarming of 24 hour areas is permitted.
Isolate	Remote isolation of inputs is permitted.
Control Aux	Remote control of auxiliaries is permitted.
Lock Door	Remote Locking of doors is permitted.
Unlock Door	Remote Unlocking of doors is permitted.
Siren	
CommsTask Control	
Adjust Count	

Message Acknowledge

Property	Description
Ack Message	
Ack All Messages	
Auto Siren Off	

Blank Entities



Blank entities are references to entities that no longer exist. Entities can become 'blank' as a result of reference changes. For instance a door record could become a blank entity record if the door was removed from the controller and the reader module still has a reference to it.

Usually this will only occur if the change was made on the controller while it was disconnected from the Integriti management software.

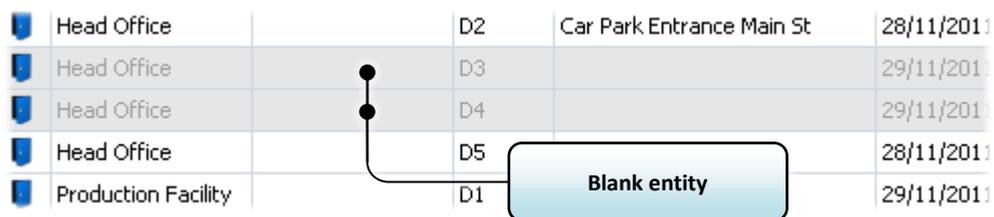
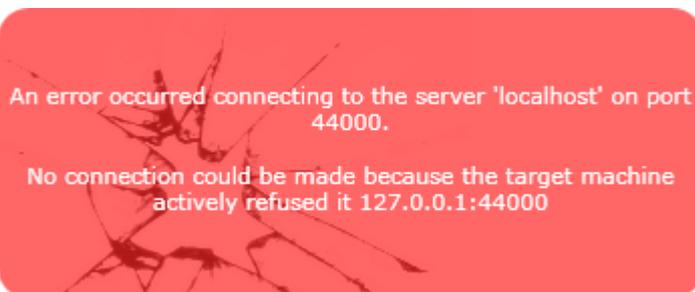


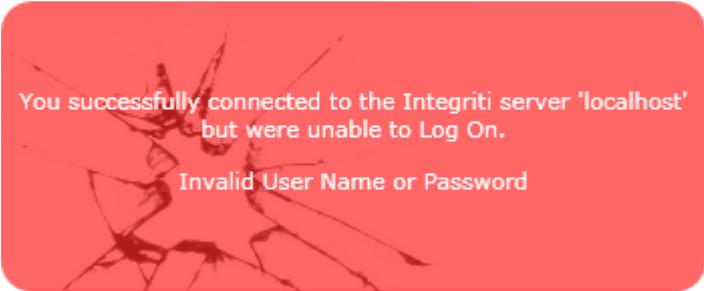
Figure 12

Login errors

The most common login errors are:



Ensure the Integriti Application Server service is running.



You successfully connected to the Integriti server 'localhost'
but were unable to Log On.

Invalid User Name or Password

Ensure you have the correct Operator username and password.

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