



INTEGRITI WEB INTERFACE



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**INNER RANGE recommends that all Inner Range systems
be installed & maintained by FACTORY CERTIFIED
TECHNICIANS.**

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Introduction

The Integrity Web Interface provides a simple and cut down web-based version of System Designer. As of now it provides ability to view, edit, add, and delete Entities such as Users, Door Lists etc., It also provides interfaces to see and control status of certain Entities such as Doors. In addition, it also provides interface to see live reviews generated by the system.

Licensing

A Business or higher license is required for Web Communication Handler. You require one available client seat per instance of the Web Client running.

Browser Support

The web interface uses the latest web technologies such as the many HTML 5 features to render its various contents. The web interface is compliant with most modern browsers, such as Google Chrome, Mozilla Firefox and Opera that support HTML 5 out of the box. Older browser, such as Internet Explorer 10, do not fully support HTML 5 features and hence do not work correctly.

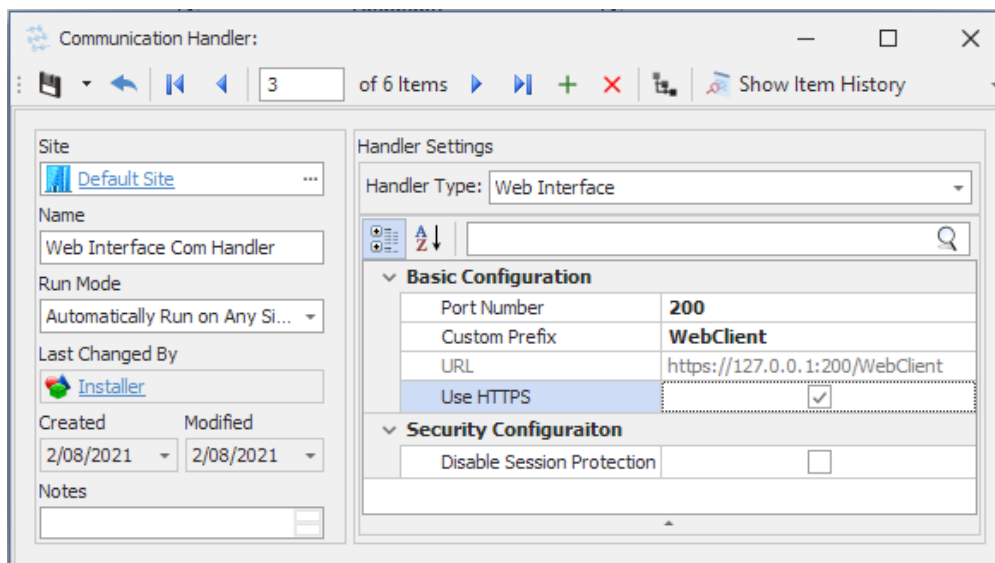
Configuring

This section describes how to setup a Web Interface Communication Handler, view and disconnect clients using the Web Interface.

Setup

To setup a Web Interface Communication handler,

1. Open the Communication Handlers panel from the Administration tab.
2. Click the Add New button to create a new Communications Handler.



3. **Handler Type:** Select “Web Interface” as the Handler Type.
4. **Port Number:** Choose a Port Number to connect to or leave as it is.
5. **Custom Prefix:** Use a Custom Prefix to define the entry point to the Web Interface or leave it blank. A custom prefix is useful in cases such as when the port is used by other Communication Handlers or is used by other services in your system. **Make sure that the Custom Prefix does not contain any white space characters.** When creating a new Web Interface Communication Handler, the Custom Prefix defaults to ‘WebClient’.
6. **URL:** A read only property that shows the URL for the Web Interface. You may need to change the IP address appropriately when accessing the Web Interface from a different machine.
7. **Use HTTPS:** Enable it if you want the Web Interface Server to utilise HTTPS / SSL for security. It is highly recommended to enable HTTPS and not enabling HTTPS is only useful for evaluating functionality.

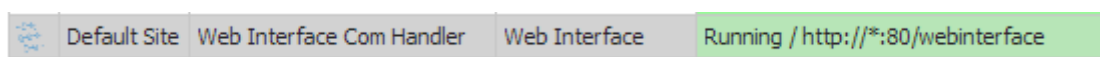
Note that to use HTTPS you MUST register a valid SSL Certificate and Private Key with the selected port using the 'Certificates' Snap-In of the Windows MMC. Please refer to “Integrity Cyber Security Hardening Guide” to know more about how to install and bind certificates.

- 8. Disable Session Protection:** To protect your system from security vulnerabilities, one operator can only be logged in from one web frontend. Pre-existing sessions will be invalidated by a subsequent successful sign-in. Check the box to disable this protection so one operator may sign in from multiple browser windows at the same time. Read more at

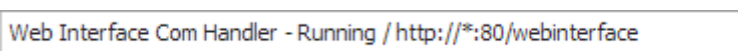
https://www.owasp.org/index.php/Session_fixation

Note that with session protection disabled, signing in from multiple locations without signing out first will consume client seat.

9. Give the Communication Handler an appropriate name, save and close it.
10. You should now see the Communication Handler of Handler Type “Web Interface” with your given name running in the Communication Handlers panel. E.g., running on port 80 with custom prefix “webinterface”



In addition a review message is also generated.



Client connections

To view the clients connected to Web Interface Handler,

1. Open Client Connections panel from Administration tab. You should see a list of clients currently connected to the Web Interface server.

Integrity Web Interface	9/07/2021 12:19:11 PM +10:00	127.0.0.1	127.0.0.1	Installer
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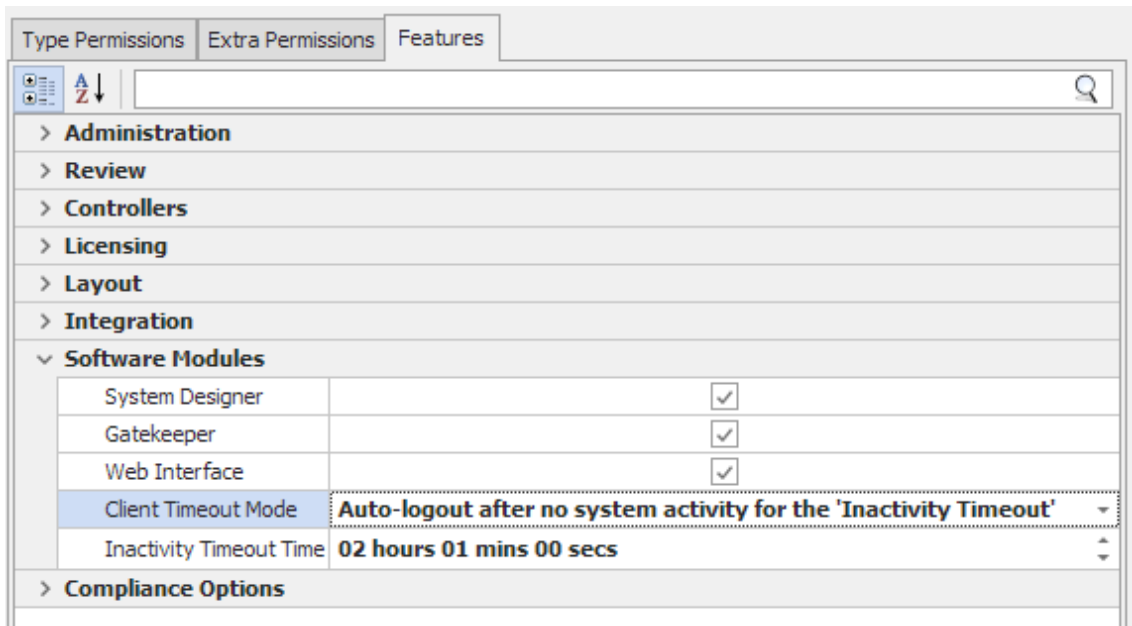
2. To disconnect a client, right click on the connected client and select “Disconnect”. In the Logout Command dialog, click OK to disconnect and log the client out.

Inactivity Timeout

Clients that are inactive for a certain period can be automatically logged out. Having set up an Inactivity Timeout period is helpful in avoiding security vulnerabilities such as an operator forgetting to log out and leaving their system unattended. It is also helpful in reclaiming floating license seats for operators that have forgotten to logout.

Configure Inactivity Timeout

Inactivity Timeout period is setup per Operator Type basis. To setup Inactivity Time period, open the Operator Types panel from the Administration tab. Double click on the Operator Type for which you wish to configure the Inactivity Timeout. This will open the Editor for the selected Operator Type.

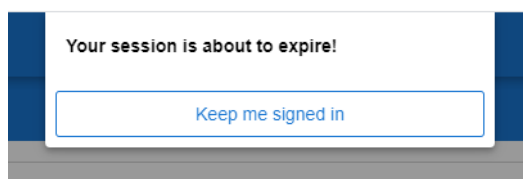


Open the Software Modules under Features Tab.

- **Client Timeout Mode:** Set it to “Auto-logout after no system activity for the ‘Inactive Timeout’.
- **Inactivity Timeout Time:** Set a preferred amount of Inactivity Timeout Time.

Save and close the Operator Type. An Inactivity Timeout period has been successfully configured.

Just before a client is about to be logged out and their session destroyed, a “Your session is about to expire” message is sent to the client. The client has a few minutes to respond by clicking the “keep me signed in” button, otherwise he is logged out of the system. This prevents clients to be logged out unexpectedly.



Web Interface

To start using the Web Interface open your favourite browser, and type in the url to your Web Interface Communication Service. The URL will be off the following form.

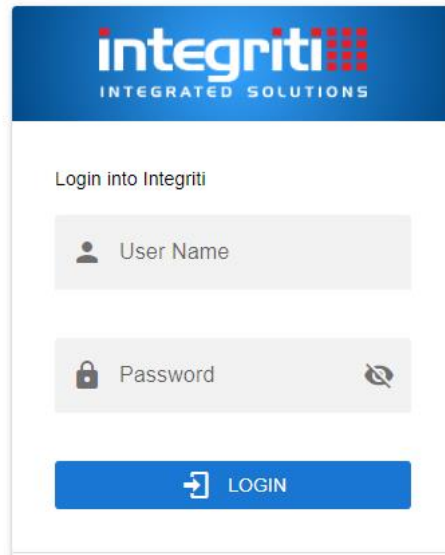
`http://[server_ip]:[server_port][custom_path]`

For e.g., “http://127.0.0.1:8080/webinterface” where

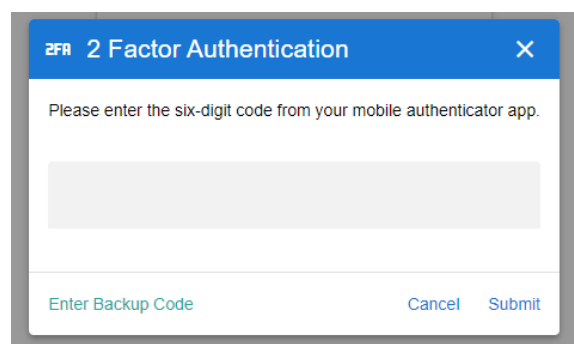
- “127.0.0.1” is the server IP.
- “8080” is the server port.
- “/webinterface” is the custom path.

Log Into Web Interface

Once you type in the URL you will be asked to log in.



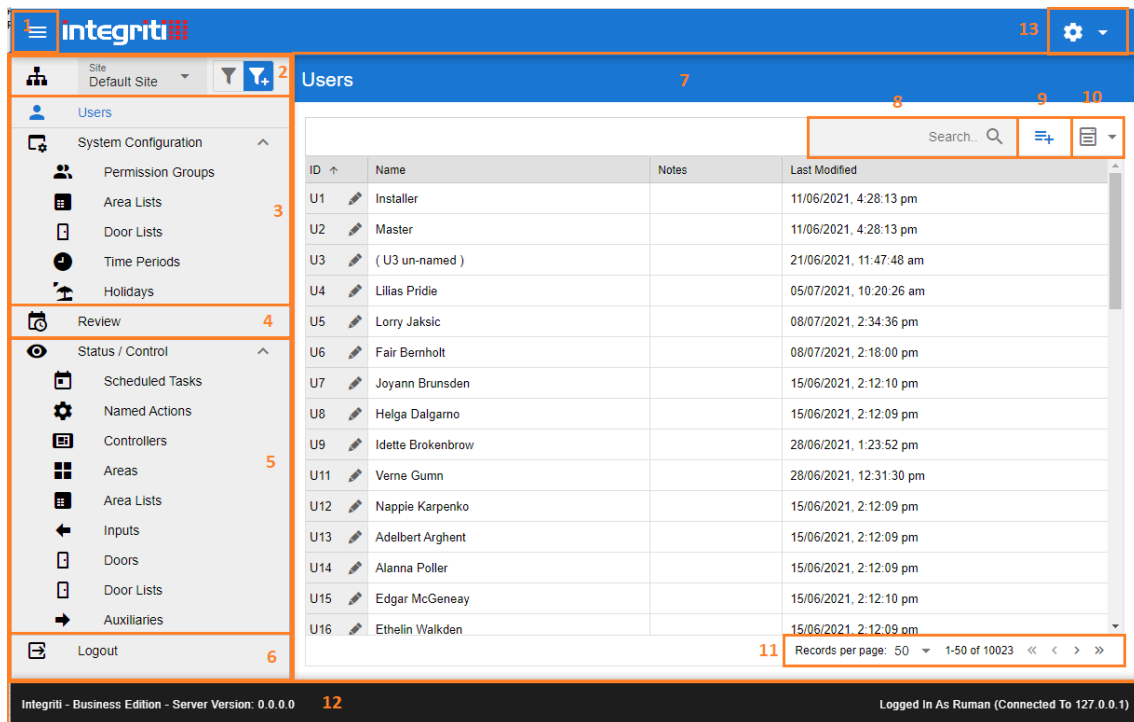
Enter you User Name and Password to login. Operators who have Two-Factor Authentication (2FA) enrolled, will be asked to provide their 2FA credentials. Please refer to the Two Factor Authentication Guide to learn how to configure 2FA.



Provide your six-digit code from your mobile authentication app and click Submit or provide a Backup Code to sign in.

Features

The figure below shows the Web Interface with the Users panel open. The top part is the application bar which consists of buttons to hide and show the navigation panel and well as options to configure the interface. The left side consists of the Navigation Panel and has all the available pages, including options to select the current site and to logout. The right side is currently showing the list of Users in the system. This panel shows the contents of whatever is chosen in the Navigation Panel. The bottom part is the footer and shows information about the application, user and server information.



1. Button to collapse and show the navigation panel.
2. Site Filter options. Use the drop-down box the select the Site to filter to. The filter to site option is used to show entities that belong to the selected site or to its subsites.
3. List to entities that can be viewed and configured in the system. These are also the types of entities that can modified, deleted or new ones created.
4. Navigation link to view live Reviews generated by the system.
5. Pages for viewing live status and/or control certain Entities in the system.

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- To logout of the Web Interface.
- Panel showing the selected page from the navigation links. Currently it is showing the list of Users in the system.
- Type in the keyword to search for items in the list.
- Button to add a new Entity.
- Drop down menu button to select visible columns.
- Options to set the number of records to show, and to move through the pages of records in the table.
- The page footer showing information about the application, logged in user and the server.
- Options to configure the Web Interface such as options to use tighter spacing to display items on screen.

Editing Entities

To edit an entity, click on the ID column of the entity that you want to edit from the entity type list page. This will slide open the editor window as shown in the figure below.

The screenshot displays the 'Users' list on the left and the 'User: Installer' editor window on the right. Red boxes and numbers 1-10 highlight specific UI elements:

- 1: 'Users' header
- 2: 'User: Installer' header
- 3: Close button (X)
- 4: Back arrow
- 5: Vertical scrollbar
- 6: Save icon
- 7: Refresh icon
- 8: Filter input
- 9: 'Permissions' tab
- 10: Column menu icon

The 'Users' list table is as follows:

ID	Name	Note
U1	Installer	
U2	Master	
U3	(U3 un-named)	
U4	Lillas Pridie	
U5	Lorry Jaksic	
U6	Fair Bernholt	
U7	Joyann Brunsden	
U8	Helga Dalgarno	
U9	Idette Brokenbrow	
U11	Verne Gumm	
U12	Nappie Karpenko	
U13	Adelbert Arghent	
U14	Alanna Poller	
U15	Edoar McGeneav	

The 'User: Installer' editor window shows the following fields and options:

- Photo: [Input field]
- First Name(s): Installer
- Second Name: [Input field]
- Name: Installer
- Site: Default Site
- ID: U1
- Notes: [Text area]
- User Options:
 - Cancel On Card Access
 - Cancel On PIN Logon
 - Disability
 - Duress Code
 - User Cancelled
 - User Expired
 - No Greeting
 - Permanent Cache
 - Exclude From Operator Challenge (Ask DC)

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1. The list of entities panel. To edit an entity simply select the entity by clicking on the ID row. This will always slide open the editor panel (2). In the above figure, User with ID U1 is selected.
2. The editor panel showing the properties of the selected entity.
3. Button to close the editor panel. The editor panel can be reopened by selecting an entity from the entity list panel (1).
4. Button to fully open the editor panel and hide the editor panel.
5. A draggable button to change the size of panels.
6. Save button to save any changes made to the entity or when new entities are added.
7. Button to delete the selected entity.
8. To find properties, type in the name of the property that you are looking for.
9. Property tabs. In the above example, we have 'Properties' Tab selected. We also have 'Credentials' and 'Permissions' Tab that have properties related to users' credentials and permissions.
10. Button to add new entities. This will slide open a blank editing panel. The 'Site' property will be prefilled with whatever site is selected from the navigation panel.

System Review

The System Review page shows live reviews generated by the system.

The screenshot shows the 'System Review' page. At the top, there is a blue header with a user icon, the text 'System Review', and a 'New Records Available' button with a dropdown arrow. Below the header is a filter section with 'Date From' (03/01/2021, 12:00:00 am) and 'Date To' (13/07/2021, 12:00:00 am) fields, a 'Category' dropdown set to 'All', and a 'Message Filter' field. A table of reviews follows, with columns for 'Local Time', 'Source', 'Text', and 'Category'. The table contains 12 rows of simulated data. At the bottom right of the table, there is a pagination control showing '5 Records per page: 10000' and '1-10000 of 50035' with navigation arrows.

Local Time	Source	Text	Category
25/06/2021 5:26:49 PM	Auto-Discovered 'AC006257'	Soft Cred (40) = 28649900000000000000(hex) at <R01.Rdr03> (simulated)	Direct Entry Card (simulated)
25/06/2021 5:26:48 PM	Auto-Discovered 'AC006257'	Mordecai Eamer Card Access at <R01.Rdr03> into Door 6 - Free Access	User Granted In
25/06/2021 5:26:48 PM	Auto-Discovered 'AC006257'	Mordecai Eamer location changed to Area 000	Location Change
25/06/2021 5:26:48 PM	Auto-Discovered 'AC006257'	Soft Cred (40) = 28551100000000000000(hex) at <R01.Rdr03> (simulated)	Direct Entry Card (simulated)
25/06/2021 5:26:47 PM	Auto-Discovered 'AC006257'	Jethro Crichton Card Access at <R01.Rdr03> into Door 6 - Free Access	User Granted In
25/06/2021 5:26:47 PM	Auto-Discovered 'AC006257'	Jethro Crichton location changed to Area 000	Location Change
25/06/2021 5:26:47 PM	Auto-Discovered 'AC006257'	Soft Cred (40) = 28486700000000000000(hex) at <R01.Rdr03> (simulated)	Direct Entry Card (simulated)
25/06/2021 5:26:46 PM	Auto-Discovered 'AC006257'	Erroll Olekhov Card Access at <R01.Rdr03> into Door 6 - Free Access	User Granted In
25/06/2021 5:26:46 PM	Auto-Discovered 'AC006257'	Erroll Olekhov location changed to Area 000	Location Change
25/06/2021 5:26:46 PM	Auto-Discovered 'AC006257'	Soft Cred (40) = 28817400000000000000(hex) at <R01.Rdr03> (simulated)	Direct Entry Card (simulated)
25/06/2021 5:26:45 PM	Auto-Discovered 'AC006257'	Karina Eacott Card Access at <R01.Rdr03> into Door 6 - Free Access	User Granted In

- The filter options to refine which reviews to show. Filter options available are:
 - Start and end date of reviews generated.
 - Category of reviews to view.
 - An additional Message Filter to only shows reviews containing the message.
- Table showing the live reviews. As reviews gets generated by the system, they are instantly populated here at the top of the review table.
- Button to show the latest reviews. This will always take you to the top of the review table where reviews are inserted.
- Button to show or hide the review filter options (1).
- Review page table options to select the number of reviews to show per page and options to navigate through review pages.

Status / Control

The status / Control page shows a list of entities along with their status and commands that can be executed.

The screenshot displays the 'Control: Auxiliaries' page. It features a table with the following data:

ID	Name	Status 1	Commands 4
C01:X01	C01:X01	Off	Turn On Turn Off
C01:X02	C01:X02	Off	Turn On Turn Off
C01:X03	C01:X03	Off	Turn On Turn Off
C01:X04	C01:X04	Off	Turn On Turn Off
C01:X05	C01:X05	Off	Turn On Turn Off

At the bottom of the interface, there are pagination controls labeled '5' showing 'Records per page: 50' and '1-50 of 113' with navigation arrows.

1. Status of the entity. The status of the entities are update live.
2. Type to search for entities in the system.
3. Select visible columns.
4. Commands that can be executed for each entity.
5. List navigation control options to set the number of pages in each page and navigation links to pages.