



INTEGRITI – Load Balancing
MANUAL V25.1

INNERANGE.COM

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OVERVIEW

When multiple installations of Integriti services are installed, Integriti Controllers will be able to connect to any of them as required. Load Balancing adds the ability to move Controllers between Controller Servers as required to evenly distribute between the Controller Server nodes based on the current load. Load Balancing ignores the controller's primary server configuration and will move it to the best Controller Server. Using Load Balancing will not modify the Controller's configuration and will allow Controllers to continue to default back to the primary server configured if the connection is lost.

PREREQUISITES

- Integriti Version: V25.1 or higher
- Server Nodes (High Availability / Load Spreading) License (part no. 996965).
- Controllers to be running V25.1 or higher Firmware

INITIAL SETUP

Pre-requisite

Integriti to be configured for High Availability with a minimum of two nodes.

Please refer to the 'Guide - Inner Range High Availability and Fault Tolerant Solution' manual for detailed information on High Availability. This can be found at <C:\Program Files\Inner Range\Integriti Pro\doc\Guide>.

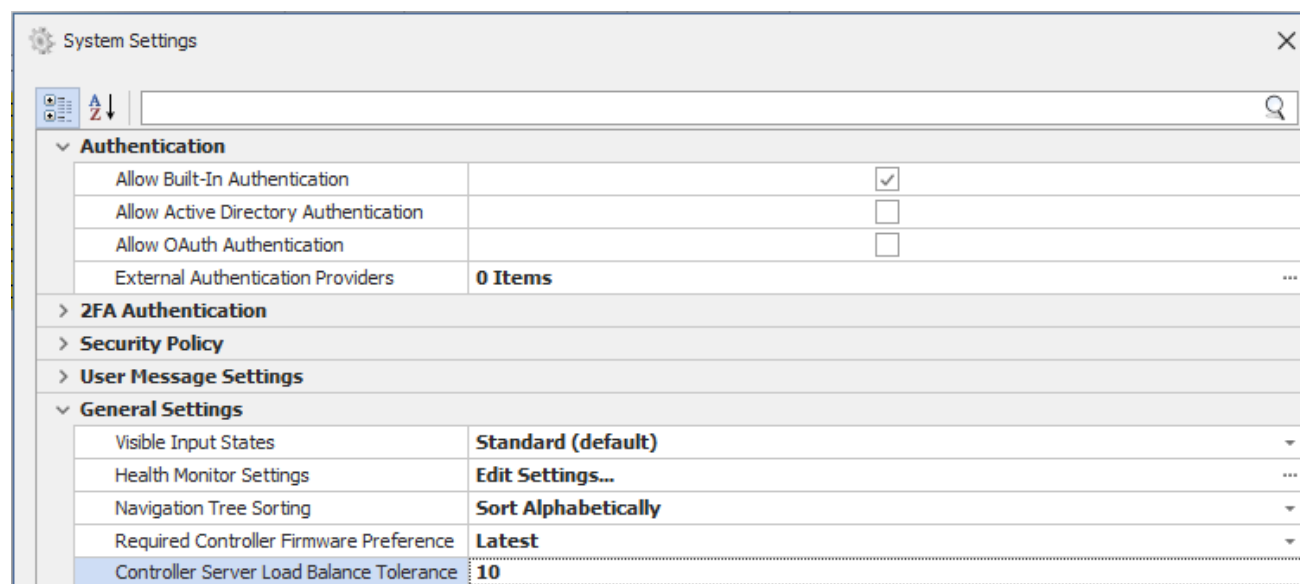
Configuration

Load Balancing will be performed when the 'Controller Server Load Balance Tolerance' has been met. This means that if there are 10 Controllers connected to Node A and another controller attempts to connect to Node A, if the tolerance is set to 10, that 11th Controller will get moved to Node B.

Load Balancing is by default enabled for Integriti setups but can be disabled if required. It is possible to disable on a global basis by setting the 'Controller Server Load Balance Tolerance' property to 0. It can also be disabled on a per Controller basis with the 'Excluded From Load Balancing' property.

Upgrading from an older installation of Integriti will set the default Tolerance to '0' disabling load balancing and will need to be manually set once Controller Firmware has been updated.

Tolerance property can be found under Main Menu -> System Settings -> General Settings



Controller Server Load Balance Tolerance – The difference in quantity for Controllers connected to a Controller Server before load balancing occurs to move Controllers to another Controller Server. Set this property to '0' to disable Load Balancing. Default value set to 10.

Excluding Controllers can be found under the Controller Editor -> Connection Details -> Connectivity

The screenshot shows the 'Integriti Controller: Auto-Discovered 'SC002145'' window. The left sidebar shows the 'Site' dropdown set to 'Default Site', the 'Name' field containing 'Auto-Discovered 'SC002145'', and the 'Last Changed By' field showing 'Auto-Discovered 'SC002145''. The 'Created' and 'Modified' dates are both '24/02/2025' and '25/02/2025' respectively. The 'Notes' field is empty. The main panel has two tabs: 'Module Details' and 'Connection Details'. The 'Connection Details' tab is active, showing a 'Basic Details' section with fields for 'Name' (Auto-Discovered 'SC002145'), 'Short Name', 'Serial Number' (SC002145), and 'Hardware Type' (Integriti ISC). Below this is a 'Properties' section with a table of properties. The 'Excluded From Load Balancing' property is highlighted, showing a value of 'Manual'. Below the table is a 'Synchronisation' section with a description of the 'Excluded From Load Balancing' property. The 'Notes' field is empty.

| Properties | |
|------------------------------|--------------------------|
| Modem / Serial Port | |
| Modem Configuration string | |
| Modem Phone Number | |
| SkyTunnel Password | |
| Username | |
| PIN | |
| Multi-Server Mode | Manual |
| Excluded From Load Balancing | <input type="checkbox"/> |

Excluded From Load Balancing
Choose how this controller should interact with multiple controller servers. When set to 'False' upon connection the software will decide if controller needs to be moved or should stay on the current controller server. Setting the System Settings 'Controller Server Load Balance Tolerance' property will determine the difference in controller server population and if the tolerance property is exceeded between servers the controller will be moved. Setting the property to 'True' will disable this functionality. By default, this is set to 'False'.

Excluded From Load Balancing – Choose how this controller should interact with multiple controller servers. When set to 'False' upon connection the software will decide if controller needs to be moved or should stay on the current controller server. Setting the System Settings 'Controller Server Load Balance Tolerance' property will determine the difference in controller server population and if the tolerance property is exceeded between servers the controller will be moved. Setting the property to 'True' will disable this functionality. By default, this is set to 'False'.



Global Headquarters

Inner Range **Australia**

+61 3 9780 4300

sales.au@innerrange.com

Inner Range **United States**

+1 (844) 588-0874

sales.usa@innerrange.com

Inner Range **United Kingdom**

+44 (0) 845 470 5000

sales.uk@innerrange.com

Inner Range **Canada**

+1 (844) 588-0874

sales.canada@innerrange.com

Inner Range **Middle East**

+971 4 8067100

sales.me@innerrange.com

Inner Range **India**

+91 80 4070 3333

sales.india@innerrange.com

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