



Firmware upgrading the Integrati controller



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Introduction

This document explains how to upgrade the firmware on your Integriti controller using either the Integriti software management suite or a USB drive.

Default usernames, passwords and PINs have been used in this document.

Integriti controller firmware files are available for download from the Inner Range support portal.

Controller firmware files have a '.DLD' extension. E.g. 'Vx_x_xSC.DLD'

You can check the current firmware revision on the controller by using the following procedure:

1. Log in to the terminal: [0], [1], [Ok]
2. Go in to the information menu: [Menu], [1], [9]
3. The firmware revision will appear similar to '3.4.0_xxxxx' where x is the build number.

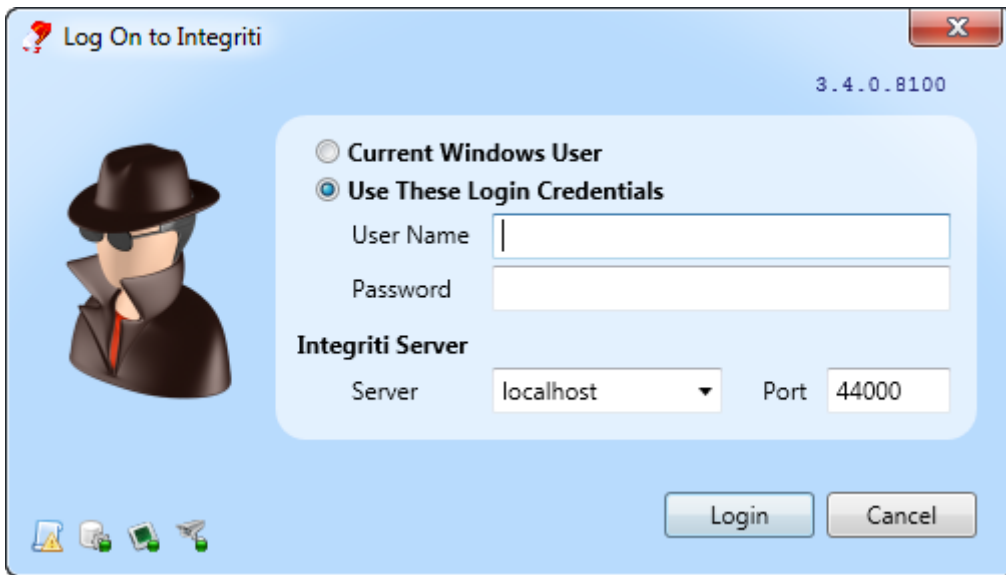
You can use either one of the following two procedures.



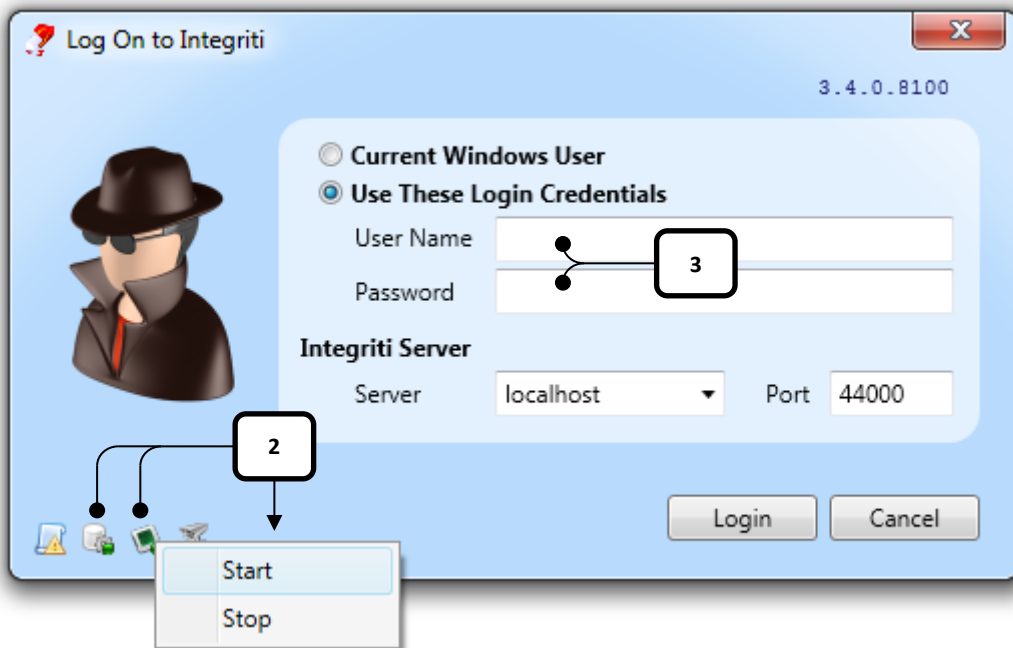
We recommend stopping, re-starting and testing communications tasks after controller firmware upgrades.

Upgrading the controller using the Integriti software

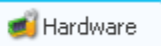
1. Run the Integriti client by clicking on the program icon under the start menu.
Start » All Programs » Inner Range » Integriti Pro » Integriti System Designer

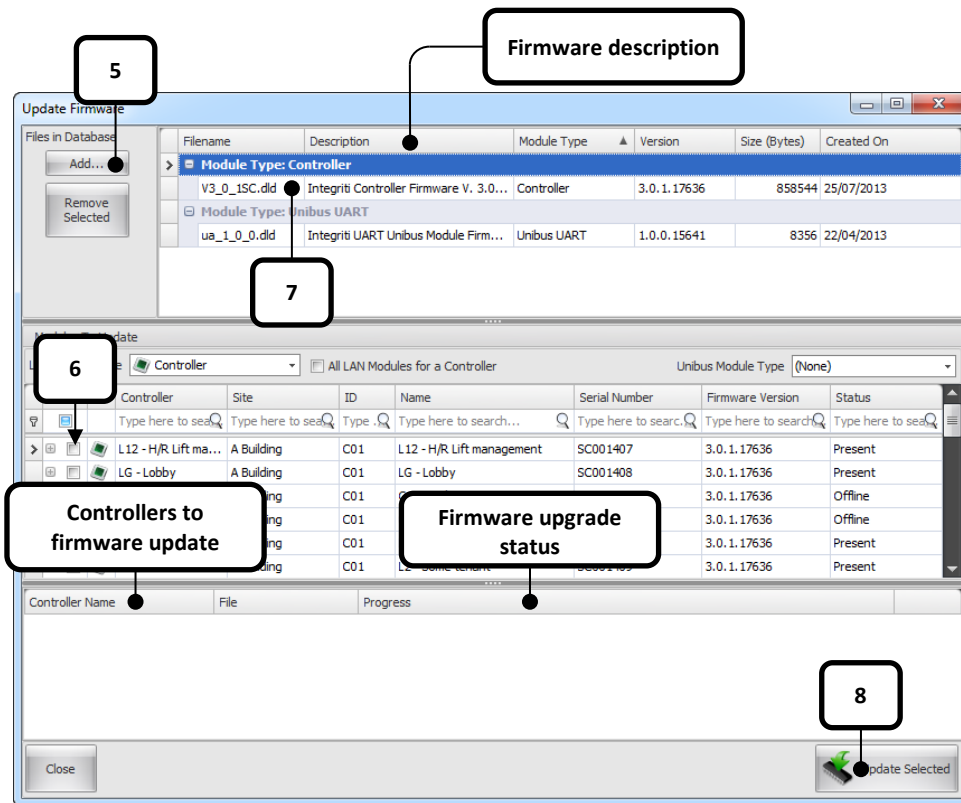


2. Start the services (if they are not already running).

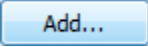


3. Log in using the username 'installer' and password 'installer'.

4. Click on the  Hardware tab followed by  Firmware Update.



- The available firmware list at the top of the window will display all of the firmware files you add to the update manager.
- Firmware files in the update manager have a description column for easy identification.
- The firmware upgrade status will indicate the progress of each individual controller / module being upgraded. The process is completed when the controller / module has come back online.

5. Click  to add new firmware revisions to the update manager.
6. Select one or many controllers/modules from the list on the left hand side of the update manager by ticking the appropriate check box(es).
7. Select the firmware revision you want to upgrade to from the list at the top of the update manager.

8. Click .

Upgrading the controller from the terminal using a USB drive

Once you have received a copy of the controller firmware it is recommended that you copy the firmware file to a blank USB drive.

The USB drive should be formatted as one of the FAT file systems.

1. Plug the USB drive in to the USB Host port of the Integrati controller. The USB-H status led directly below the port should turn on.
2. Log in to the terminal: **[0], [1], [Ok]**
3. Go to the firmware upgrade menu: **[Menu], [7], [4]**
4. Select 'USB Drive': **[Ok]**
5. Select the '.DLD' firmware file: **[▼] x?, [Ok]**
6. Confirm firmware replacement: **[Ok]**
7. Wait for the controller to check the firmware file.
8. Depending on the firmware revision on the USB drive versus the firmware currently running on the controller, you may be required to default your database. Press **[9]** to confirm this action or press **[End]** to abort the procedure.
9. Begin the firmware upgrade: **[9]**
10. The controller firmware upgrade progress will be displayed on the terminal. Once ready, the controller will re-start itself and will take approximately 40 seconds to come back online.

Removing firmware files from the controller

When firmware files are sent to the controller, they are stored internally. If the controller has been upgraded multiple times there is a chance the controller will eventually report the error “Error Uploading File to Controller... Check if S-Flash is full”. In this case it is up to manually remove firmware that is no longer required.

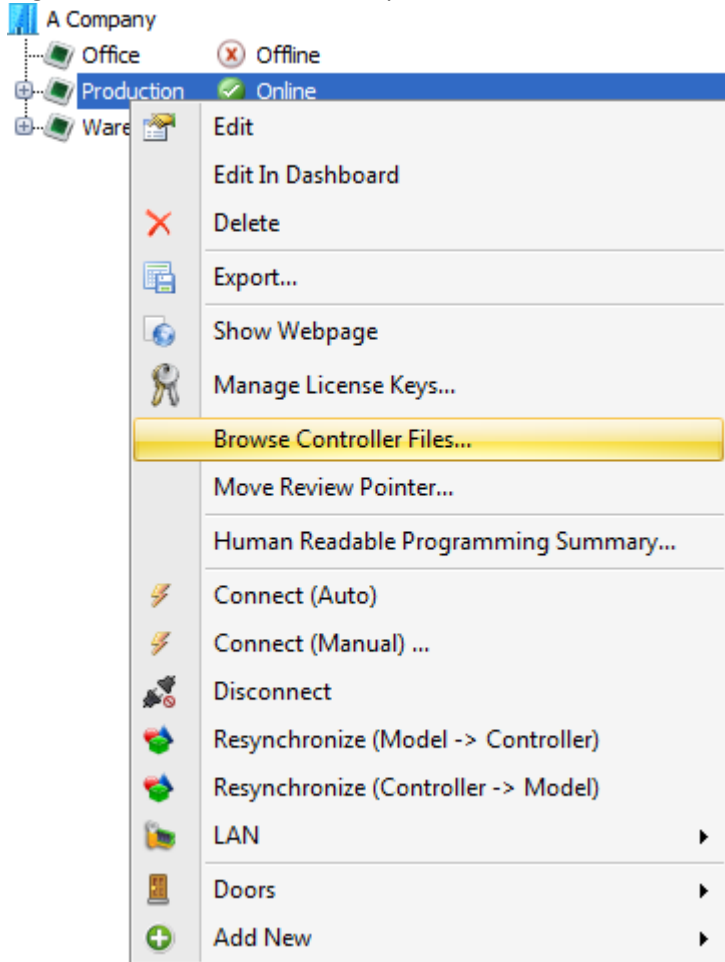
Removing firmware files from the controller will not affect its operation. These files are only used during an upgrade process.

Deleting files from the terminal...

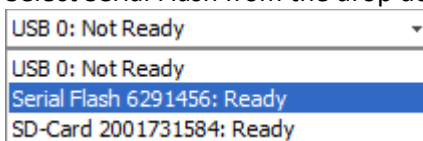
- | | |
|--------------------------------------|------------------|
| 1. Log in to the terminal: | [0], [1], [Ok] |
| 2. Go to the firmware upgrade menu: | [Menu], [7], [4] |
| 3. Select the Flash Drive: | [▶], [Ok] |
| 4. Select the '.DLD' firmware file: | [▼] x?, [Ok] |
| 5. Select the 'Delete File' option: | [▶], [▶], [Ok] |
| 6. Press [9] to confirm this action. | |

Deleting files from the Integriti System Designer...

1. Run the Integriti client.
2. Right click the controller that reported the error and select Browse Controller Files:



3. Select Serial Flash from the drop down menu:



4. Select a file then click **Delete**.

Common problems

Problem

Resolution

The firmware description is 'Update at own risk - Unknown file'.

- The file is probably corrupt or the wrong file type.
- Ensure the file is not compressed (in a ZIP file).

Error Uploading File to Controller... Check if S-Flash is full

- See "Removing firmware files from the controller".