



remsdaq

## Using EntroScripter



SCADA

Integrated Security

Mobilising

## USR-18-003 ISSUE 1



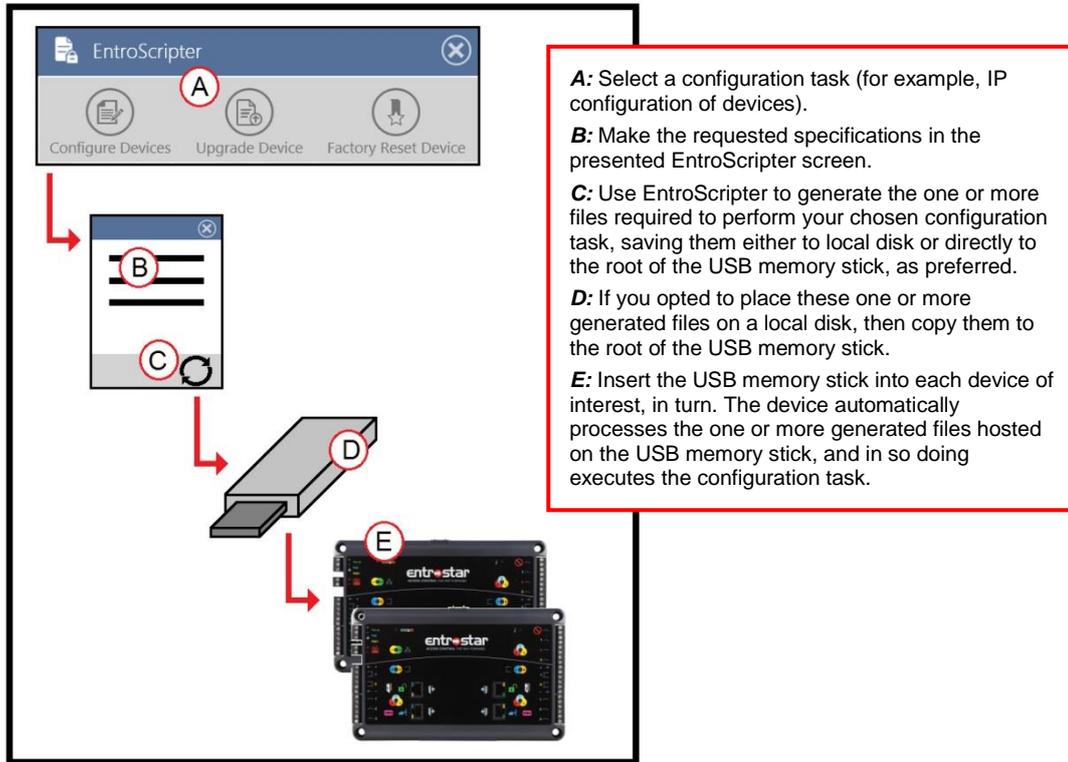
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# Introduction

## Overview



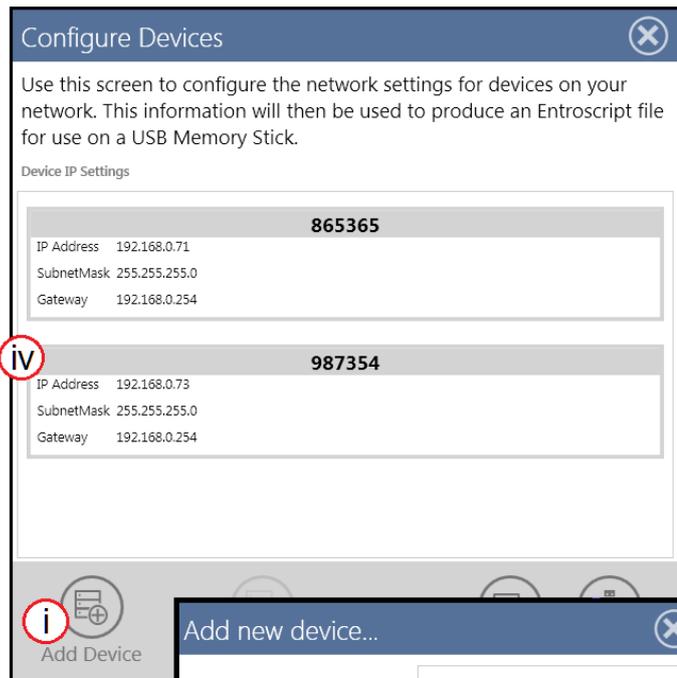
## Notes

<b>Number of configuration tasks per run-through</b>	You may perform only one configuration task per run-through of the procedure. For example, if you want to configure the IP settings for some devices and also upgrade their firmware, then this would require two run-throughs (one for the IP configurations and one for the firmware upgrades).
<b>Overwriting of generated files</b>	If you opt to use the same USB memory stick for multiple run-throughs, then be aware that EntroScripter overwrites generated files with each run-through. <i>Tip:</i> To avoid losing generated files as a consequence, either (a) use a separate USB memory stick for each configuration task or (b) during the file generation process, opt to save the generated files to local disk rather than directly to the root of the USB memory stick.
<b>Log files for diagnostics</b>	When a device processes the one or more generated files hosted on the inserted USB memory stick, it saves a log file to the USB memory stick at this location: <code>\\&lt;USB memory stick&gt; / &lt;serial number of device&gt; / &lt;timestamp of processing&gt; / *.log</code> <b>Note:</b> We recommend you view these log files in 'WordPad'.

# Procedures

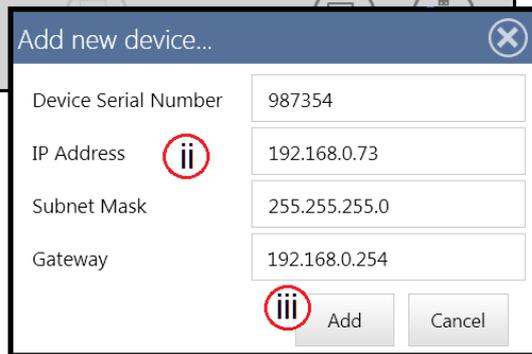
## IP configurations

1. Click the **Configure Devices** icon in EntroScripter.
2. In the **Configure Devices** dialog box that appears, compile the IP configurations for the devices of interest:



For each device, in turn:

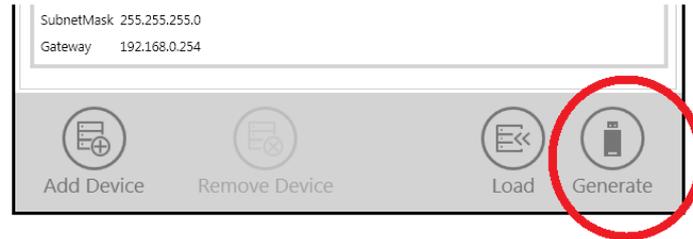
- (i) Click **Add Device**.
- (ii) Complete the fields in the **Add New Device** dialog box. See the guidance notes, below.
- (iii) Click **Add**.
- (iv) Confirm that the added details are correct.



Guidance notes for completing 'Add New Device' dialog box:

- **Mandatory fields:** 'Device Serial Number' (last six digits only), 'IP Address' and 'Subnet Mask'.
- **Optional field:** 'Gateway' ('0.0.0.0' if unspecified).

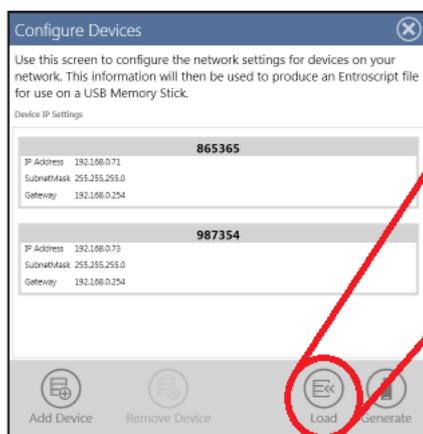
3. Generate the `EntroScript.USB` and `Ipconfig.list` files needed to perform the IP configurations:



4. Use the presented **Browse For Folder** dialog box to specify where to place the generated `EntroScript.USB` and `Ipconfig.list` files. You may place these files either (a) directly on the root of the USB memory stick you are using for this procedure or (b) on a local disk.
5. If you opted to place these generated files on a local disk, then copy them to the root of the USB memory stick.
6. Insert the USB memory stick into each device of interest, in turn.

The device automatically processes the `EntroScript.USB` and `Ipconfig.list` files hosted on the USB memory stick, focussing on those elements of the files relevant to this device. During processing, the ‘Information’ LED (‘i’, top-right of device) fast-flashes for a few seconds, after which the device settles back to its pre-processing state.

**Purpose of ‘Load’ button:**



‘Load’ enables you to import, into EntroScripter, a set of IP configurations via their associated `Ipconfig.list` file. You may then review, edit and regenerate these IP configurations as required. To use this feature, click **Load** and then use the presented dialog box to open the requisite `Ipconfig.list` file.

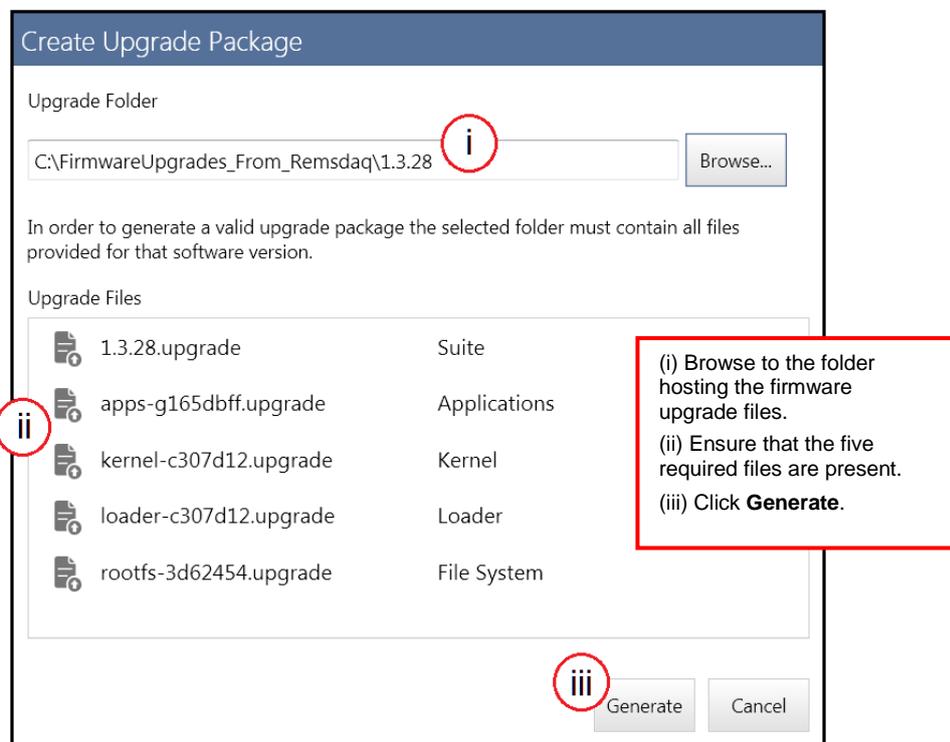
## Firmware upgrades

1. Place the (Remsdaq-supplied) package of firmware upgrade files in an accessible folder.

The package comprises of these five firmware upgrade files:

- 'Suite' = <firmware\_version>.upgrade
- 'Applications' = apps-\*.upgrade
- 'Kernel' = kernel-\*.upgrade
- 'Loader' = loader-\*.upgrade
- 'File System' = rootfs-\*.upgrade

2. In EntroScripter, click the **Upgrade Device** icon.
3. Use the presented **Create Upgrade Package** dialog box to generate the EntroScript.USB and EntroScript\_Upgrade.tar files required to perform the firmware upgrade:

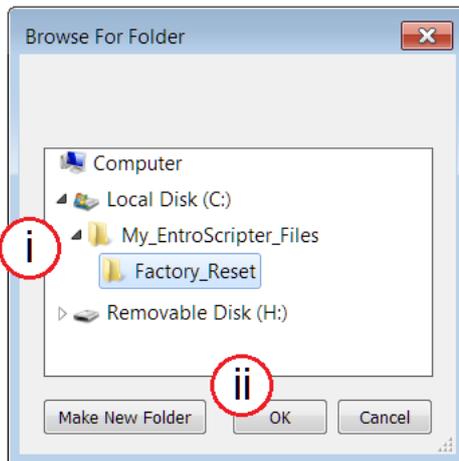


4. In the **Browse For Folder** dialog box that appears, specify where to place the generated `EntroScript.USB` and `EntroScript_Upgrade.tar` files. You may place these files either (a) directly on the root of the USB memory stick you are using for this procedure or (b) on a local disk.
5. If you opted to place these generated files on a local disk, then copy them to the root of the USB memory stick.
6. Insert the USB memory stick into each device of interest, in turn.

The device automatically processes the `EntroScript.USB` and `EntroScript_Upgrade.tar` files hosted on the USB memory stick, during which the 'Information' LED ('i', top-right of device) fast-flashes for a few seconds. Then the device auto-reboots.

## Factory resets

1. In EntroScripter, click the **Factory Reset Device** icon.
2. Use the presented **Browse for Folder** dialog box to generate the `EntroScript.USB` file required to perform the factory reset, saving it to a location of your choice:



- (i) Specify the 'save' location for the generated `EntroScript.USB` file. You may opt to save this file either (a) directly on the root of the USB memory stick you are using for this procedure or (b) on a local disk as we have done here.
- (ii) Click **OK** to generate the `EntroScript.USB` file.

3. If you opted to save the generated `EntroScript.USB` file to local disk, then copy this file to the root of the USB memory stick.
4. Insert the USB memory stick into each device of interest, in turn.

The device automatically processes the `EntroScript.USB` file hosted on the USB memory stick, during which the 'Information' LED ('i', top-right of device) fast-flashes for a few seconds. Then the device auto-reboots.