

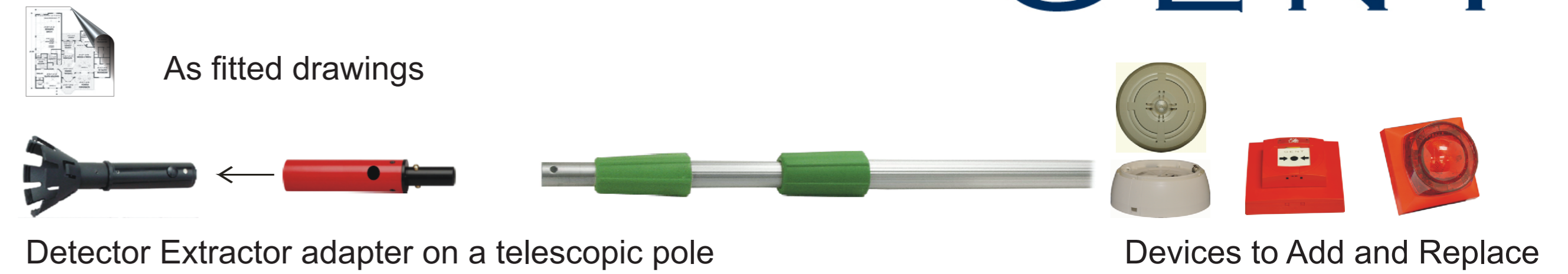
Plexus Support Tool V1.XX - User Guide

This guide provides an overview of steps to take to Add, Replace and Remove Plexus devices installed in a Plexus system using the Plexus Support tool.

1 Preparation

Before going to a site installed with a Plexus system ensure you take the following:

- A Laptop with a licenced copy of Plexus Support Tool installed.
- Plexus devices to add and replace in the installed Plexus system plus spares batteries.
- A Plexus USB Adapter.
- Detector Extractor adapter on a telescopic pole.
- 'As fitted Drawings' showing the exact location of installed Plexus devices and new location where Plexus devices are to be Added.



2 Initial checks on site

- Ensure the Responsible person(s) on site are made aware that the Fire alarm system is being commissioned and alternative process is in place in the event of a fire.
- Ensure you have access to the areas where the Vigilon panel is located and to the areas where Plexus devices are to be Added, Replaced and Removed.

3 Things to note

- Know the Access Level 3 (AL3) password [UserCode] for access to Vigilon menus associated with LRT and wireless devices.
- Know the LRTs affected and their device address and loop number to which the Plexus devices are to be Added, Replaced and / or Removed.

AL3 - Vigilon Access level 3 password (PIN)

4 Find the affected LRT device address and loop number

- Initially look at the 'As fitted Drawings' to identify the loop number and device address of the affected LRT that has or will have bound to it the Added, Removed and Replaced Plexus devices.
- Using the Vigilon panel [Info] menu look at the [Status] of LRT device verify the loop number and device address of the LRT see step 12 for ADD on page 2.

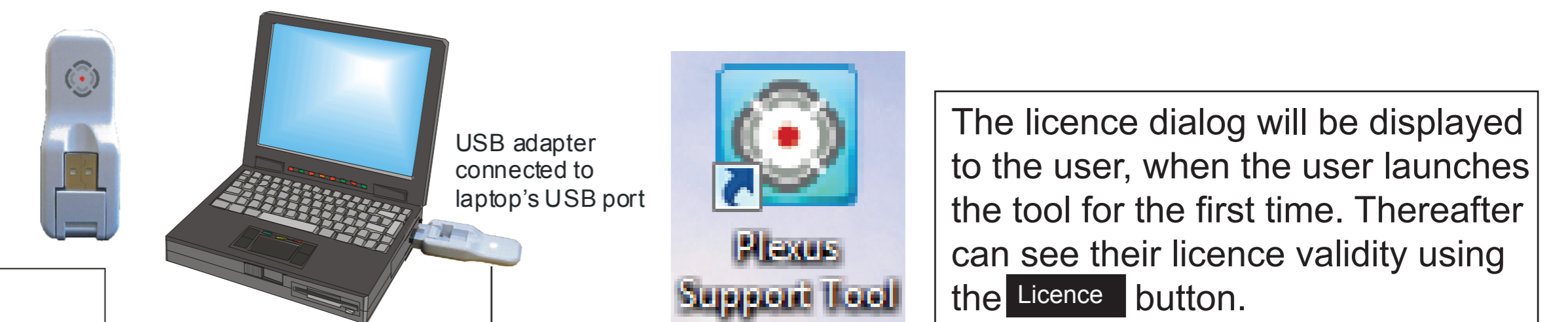
5 Fit the USB Adapter and run Plexus support tool

- The USB Adapter should be fitted to a spare USB port on the Laptop that has the Plexus Support Tool.
- Power up laptop, then connect the adapter and then run the Plexus Support Tool. Click on the tool icon to run the Tool.

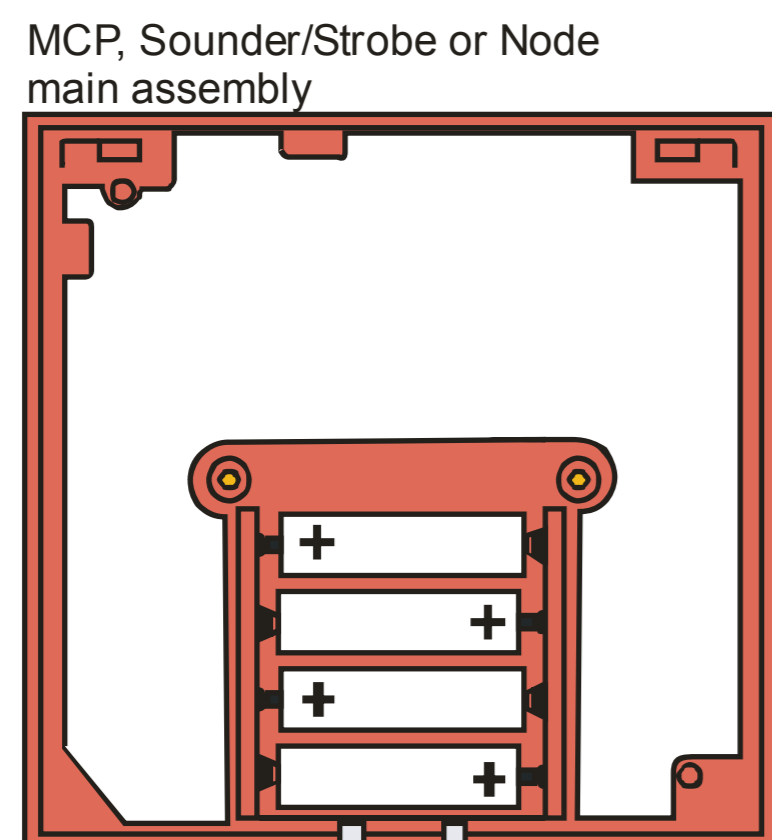
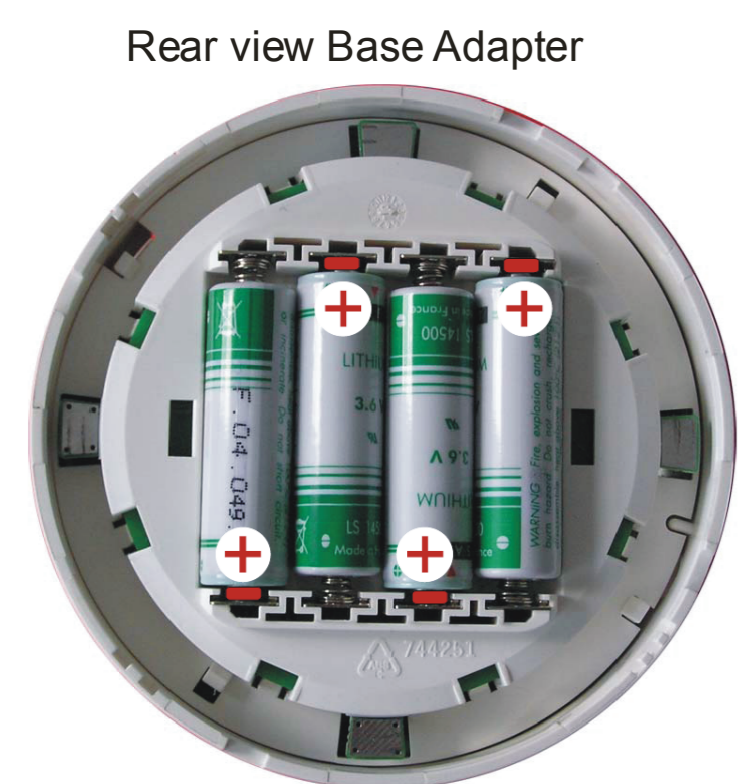
6 Ensure the Plexus Support tool is licenced

Before you can use the Plexus Support tool you must acquire a Licence.

- Click on the **Licence** button and note a User code is displayed.
- Obtain a Site Key from Gent Technical Support and enter it in the Licence Setting to activate the Plexus Support Tool.



Battery information



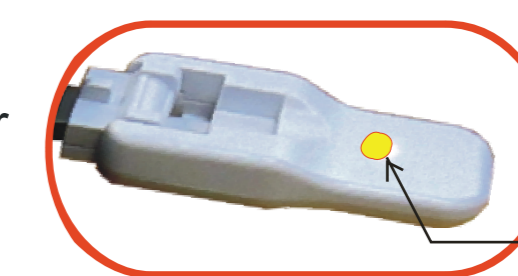
! Disposal of the used batteries must be in accordance with recommendations of the battery manufacturer and local regulations.

i It is important to ensure the batteries are the correct type and are fitted in the correct orientation to power up a Plexus device.

! Each battery provides 3.6V output and therefore are unsuitable for use in general products. **ONLY USE THE RECOMMENDED BATTERIES in the Plexus products: SAFT 4 x 3.6V Lithium batteries - LS14500. Do not mix old and new batteries during replacement.**

🕒 Allow 1 minute after power up before continuing to the next step.

Secret until lit LED indicator



Single multi colour LED

- red ● Lit for a short duration when USB Adapter is first connected to a laptop's powered USB port. Remains lit if it is not detected by the laptop.
- amber ● Lit when the USB Adapter is ready for use with the Plexus tool and this is also a normal operation indication.
- No indication is given when the USB Adapter is disconnected from the laptop or there is no power for the USB Adapter from the laptop's USB port or there is no firmware in the USB Adapter.

ADD Plexus device(s) to a Plexus Network (follow steps 1 to 22.)

1 Click on the **New Project** button. Enter a Project filename. You can select an alternative location to Save the file.

Project Name:

C:\Program Files\Honeywell\Plexus Tool

2

Select **Create** to save file and scans for LRTs in the network.

Click on **REFRESH DATA** if you cannot see the required LRT in the network. This example shows LRT2 is seen on Loop 1 having device address 20.

LRT2	Loop Number	Device Address	Serial Number	Availability	<input type="button" value="View Device Details"/>
	1	20	014000002384	Yes	

3

Click on **View Device Details**.

You can open a saved project created using this tool or the Plexus tool, click on **Open Project**.

4

Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 014000002384

Password:

Loop : 1 LRT : 20 Serial : 014000002384

Total number of devices in LRT 20 : 5

Device Type	Serial Number	Device Address
Fixed Heat Detector	136110614766	21
Strobe	009000002076	22
MCP	000000008037	23
Smoke and Heat Detector	147129193425	24
Strobe	009000001949	25

On completion of the scan you will see all the Plexus devices that are bound to the selected LRT.

If an error occurs during a scan then select **REFRESH DATA**.

5

Power up the plexus device to be added to the LRT, wait for 1 minute for the device to power up.

Ensure both LED's on the PCB light up for a short time after fitting the batteries.

6

Select **Add Device** to open 'Add Device' wizard and select **Next** to scan for powered up and unbound plexus devices.

Keep the Plexus devices near the laptop for better accessibility and ease discovery during scan.



A pre-commissioned plexus device to be Added must be reset to factory with default value '0'.

Device Type	Serial Number	Device State	Device Address
Strobe	009000001963	PreCommissioned	31
Expander	012000003134	Factory Default	0

Check the selected device Serial number correspond with that on the device label.

The Scan will reveal all the factory default and other powered up Plexus devices that are not bound to LRTs.

A factory default device will always have device address '0'.

How to reset a pre-commissioned Plexus device

Select a pre-commissioned plexus device to reset it to factory default. Select **RESET DEVICE** and then select **Yes** to continue.



'Resetting device is in progress' so wait for 1 minute and then select **Yes** to acknowledge successful reset.



A reset device will show a factory default state and address '0'.

If powered up plexus device are not found then select **REFRESH DATA**.

8

Edit the required Plexus device address and select **Next**.



Ensure the scan has revealed a factory default address of '0' before editing the device address.

Serial Number	Device State	Device Address
009000001963	Factory Default	26



After a scan the new Profile is sent to the plexus device. The device attributes are then displayed.

Select **Functionality Test** to run the tests again if necessary.

Send Profile Status

DEVICE DETAILS		DEVICE ATTRIBUTES	
Type	Strobe	Battery 1	OK
Address	26	Battery 2	OK
Serial Number	009000001963	Battery 3	OK
Status	Precommissioned	Battery 4	OK
		Overall Battery	Normal
		Tamper	Fault

This profile shows the Added plexus device its new address 26 and battery plus tamper status.

Note you will see a Tamper fault because the device is not currently fitted to its base.

9

Select **Next** to continue. Profile is sent to device(s).

Select **No** if no other new plexus devices are to be added and select **Next**.

If more devices are to added the select **Yes**.

This will take you back to Add Device Wizard step **6**.

10

Install the new Plexus device in the intended location and then select **Next**.

11

Place Vigilon panel in Radio Mode 2.

At the Vigilon panel select: **[Test/Eng] → [UserCode] AL3 <etc> → [Config] → <etc> → <etc> → [Radio] → [Mode] → enter '2' → [Device] → enter 'xx' (LRT device address) → [Loop] → enter 'y' (LRT loop number) → [Enter].**

The Vigilon system LRTs will look for all the Plexus devices associated with it and it can take few minutes for the LRT to find all the devices, including the newly added device(s).

12

Look at the device status of the LRT to confirm the new device count.

At the Vigilon panel select: **[Info] → <etc> → [UserCode] AL3 → [Status] → [Device] → enter 'xx' (enter required LRT device address) → [Loop] → enter '1' (enter required LRT loop number) → [Enter].**

You will see the device count associated with the LRT.

13

Select **Next** once the LRT can see the added Plexus device.

14

Select **Finish** and select **Yes** to accept the changes.

15

Enter AL3 password only if it is set up at the Vigilon panel, see step **4**. Select OK.

16

The 'Accept Wizard' is used to accept the devices present at the LRT.



Select **Next** and then **OK** to confirm the LRT devices".

17

Check to ensure devices are successfully added to the LRT. Now select **Accept** and to confirm LRT devices "devices are accepted successfully" is displayed. Click on **Next** to continue.

18

Reallocate the loop with the LRT. At the Vigilon panel select: **[Test/Eng] → [UserCode] AL3 → [Loop] → [Allocate] → enter '1' (LRT loop number 'y') → [Enter].**

'Loop map has changed' and recovering failure message may appear at the panel. Subsequently once LRT finds the bound devices the panel displays:

```
Time:15:35.32 Friday 23 October 2015
Radio devices recovered
number 20 on loop 1
Zone 1
```

19

Check status of added plexus device(s). At the Vigilon panel select: **[Info] → <etc> → [UserCode] AL3 → [Status] → [Device] → enter 'xx' (added Plexus device number) → [Loop] enter '1' (enter associated LRT loop number 'y') → [Enter].**

Typical example of added device information:

```
Loop 1 No 26 Radio Strobe 15:16
I/O: . . . 0 Anal:5
2nd:212 3rd:0 LRT: 20
Zone 5 Zone 5
S:009000001963 ID:EE00
P1:30 RSSI:47 P2:20 RSSI:41 Batt:42
R1:6.61 R2:6.88 R1avg:6.66 R2avg:6.89
```

20

Select **Finish** to complete the process.

21

Using the Vigilon Commissioning tool configure the Vigilon system to incorporate these changes.

22

Backup the revised configuration.

At the Vigilon panel select: ***[Setup] → [UserCode] AL3 → <etc> → <etc> → <etc> → <etc> → ...**

1. Disable NVM protect: As ***** and then... **[Protect] → [NVM Card] → [Dis] → [Enter].**
2. Back Up loop: As ***** and then... **[Backup] → enter 'y' (LRT loop number) → [NVM Card] → [Enter].**
3. Enable NVM protect: As ***** and then... **[Protect] → [NVM Card] → [En] → [Enter].**

REPLACE a Plexus device in a Plexus Network (follow steps 1 to 22.)

1 Click on the **New Project** button. Enter a Project filename. You can select an alternative location to Save the project file.

Project Name:

C:\Program Files\Honeywell\Plexus Tool

You can open a saved project created using this tool or the Plexus tool, click on **Open Project**.

2 Select **Create** to save file and scans for LRTs in the network.

Click on **REFRESH DATA** if you cannot see the required LRT in the network. This example shows LRT2 seen and selected, which is on Loop 1 and having a device address 20.

LRT	Loop Number	Device Address	Serial Number	Availability	<input type="button" value="View Device Details"/>
LRT2	1	20	01400002384	Yes	<input type="button" value="View Device Details"/>

3 Click on **View Device Details**.

4 Remove the batteries from the Plexus device that is to be removed from the Vigilon system.

Wait for 2 minutes before continuing.

5 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

6 On completion of the scan you will see all the Plexus devices that are bound to the selected LRT.

If an error occurs then select **REFRESH DATA**.

Select and highlight the device to be replaced, then select **Replace Device**.

7 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

Then on the Replace Device Wizard page select **Next**.

8 The Scan will reveal again all the Plexus devices that are bound the LRT including the one that needs to be replaced. Select **OK** to confirm all the devices associated with the LRT are listed.

LRT Device List

Select a device to be removed.

Device Type	Serial Number	Device Address
Fixed Heat Detector	136110614766	21
Strobe	00900002076	22
MCP	00000008037	23
Smoke and Heat Detector	147129193425	24
Strobe	00900001949	25
Strobe	00900001956	26

9 Select to highlight the device that needs to be removed for replacement. For this example it is device 26. Then click **Next**.

Device Type	Serial Number	Device Address	Status
Strobe	00900001956	26	Completed

Select **OK** to acknowledge successful removal all device(s) from LRT and then select **Next**.

9 Power up the Replacement plexus device. Note the 2 LEDs on the device are lit for a short duration. Wait for 1 minute before continuing to the next step.

Decide on the *Device address* and *Device type* for replacement device.

Do you want to retain Device Address for the new device?

Yes No

Do you want to retain Device Type for the new device?

Yes No

10 For this example select 'Yes' to retain the device address and 'No' to replace with another Device type. Then select **Next** to continue.

The Scan will reveal all the factory default and other powered up Plexus devices that are not bound to LRTs.

Device Type	Serial Number	Device State	Device Address
Expander	012000003134	PreCommissioned	30

11 Check the selected device Serial number correspond with that on the device label.

A factory default device will be '0' if 'No' was selected to retain device address. If 'Yes' was selected then the retained address is displayed.

How to reset a pre-commissioned Plexus device

Select the required device and click on **RESET DEVICE**. Select **Yes** when reset is complete, note Pre Commissioned changes to Factory Default.

12 Select **Next** to send the profile (binding data).

Send Profile Status

DEVICE DETAILS		DEVICE ATTRIBUTES	
Type	Expander	Battery 1	OK
Address	26	Battery 2	OK
Serial Number	012000003134	Battery 3	OK
Status	Precommissioned	Battery 4	OK
		Overall Battery	Normal
		Tamper	OK

13 Select **Next** and install the device in the desired location. Select **Next** to continue.

14 Select Radio **Mode 2** at the Vigilon panel.

At the Vigilon panel select:
 [Test/Eng] → [UserCode] AL3 → [Config] → [Radio] → [Mode] → enter '2' → [Device] → enter 'xx' (LRT device address) → [Loop] → enter '1' (LRT loop number) → [Enter].

The Vigilon system LRTs will look for all the Plexus devices associated with it and it can take several minutes for the LRT to find all the devices, including the replaced device(s).

15 Select **Finish** and **Yes** to accept configuration has changed.

16 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

17 Accept Wizard appears to accept devices in the LRT. Select **Next** to continue.

18 Check to ensure the replaced device is displayed select **OK** and **Accept**.

Device Type	Serial Number	Device Address
Fixed Heat Detector	136110614766	21
Strobe	00900002076	22
MCP	00000008037	23
Smoke and Heat Detector	147129193425	24
Strobe	00900001949	25
Strobe	00900001956	26
Expander	012000003134	26

Note the replaced device is now shown in the list. Select **Next** to accept and **OK** to continue.

19 Reallocate the loop with the LRT. At the Vigilon panel select: [Test/Eng] → [UserCode] AL3 → [Loop] → [Allocate] → enter '1' (LRT loop number 'y') → [Enter].

'Loop map has changed' and if device is a different type then recovering failure message appears at the panel. Subsequently once LRT finds the bound devices the panel displays:

Time: 15:35.32 Friday 23 October 2015
 Radio devices recovered number 20 on loop 1 Zone 1

20 Check Replaced Device information at the Vigilon panel, refer to the procedure for **ADD** device step **19**, see page 2.

21 Using the Vigilon Commissioning tool configure the Vigilon system to incorporate these changes.

22 Back up the revised configuration at the Vigilon panel, refer to the procedure for **ADD** device step **22**, see page 2.

REMOVE a Plexus device from a Plexus Network (follow steps 1 to 20 .)

1 Click on the **New Project** button. Enter a Project filename. You can select an alternative location to Save the file.

Project Name: **Create**

C:\Program Files\Honeywell\Plexus Tool [Change Project Location](#)

You can open a saved project created using this tool or the Plexus tool, click on **Open Project** .

2 Select **Create** to save file and scans for LRTs in the network.

3 Click on **REFRESH DATA** if you cannot see the required LRT in the network. This example shows the required LRT2 is on Loop 1 and having a device address 20.

LRT2	Loop Number	Device Address	Serial Number	Availability	View Device Details
	1	20	01400002384	Yes	

4 Remove the batteries from the Plexus device that is to be removed from the LRT.

5 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

Wait for 2 minutes before you continue.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

Ok **Cancel**

On completion of the scan you will see all the Plexus devices that are bound to the selected LRT.

If an error occurs then select **REFRESH DATA** .

6 Select **Remove Device** to open 'Remove Device' wizard .

7 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

Ok **Cancel**

8 Click **Next** in the Device Remove Wizard to scan for device associated with the LRT. Select **Yes** to acknowledge 'Successfully retrieved LRT devices'.

9 The Scan will reveal all the Plexus devices that are bound to the LRT including the one that needs to be removed.

If the bound plexus device are not found then select **REFRESH DATA** .

LRT Device List

Select the devices to be removed from the below table.

Device Type	Serial Number	Device Address
<input type="checkbox"/> Fixed Heat Detector	136110614766	21
<input type="checkbox"/> Strobe	009000002076	22
<input type="checkbox"/> MCP	000000008037	23
<input type="checkbox"/> Smoke and Heat Detector	147129193425	24
<input type="checkbox"/> Strobe	009000001949	25
<input type="checkbox"/> Strobe	009000001956	26
<input type="checkbox"/> Expander	012000003134	30

10 Select the **check box** of the device that needs to be removed. Ensure the selected device has the same serial number as that stated on the device label.

Note it is possible to select more than one device for removal. Select **Next** to continue.

11 When "All devices are successfully removed" select **OK** .

12 Select **Finish** to complete this part of the process. Select **Yes** to accept the changes.

13 Enter AL3 password only if it is set up at the Vigilon panel. Select OK.

User Authentication

Enter the security password

Device Type: Gateway

Device Address: 20

Serial Number: 01400002384

Password:

Ok **Cancel**

14 From the 'Accept Device Wizard' select **Next** and **Yes** to continue. Note the device is removed.

15 When the 'Successfully retrieved LRT devices' is displayed select **OK** to confirm. Select **Accept** then select **OK** to acknowledge 'devices are accepted successfully'. Now select **Next** to move on.

16 Reallocate the loop with the LRT. At the Vigilon panel select: **[Test/Eng] → [Usercode] AL3 → [Loop] → [Allocate] → enter '1' (LRT loop number 'y') → [Enter]**.

'Loop map has changed' and recovering failure message may appear at the panel. Subsequently once LRT finds the bound devices the panel displays:

Time: 15:35.32 Friday 23 October 2015

Radio devices recovered number 20 on loop 1 Zone 1

17 Look at the device status of the LRT to confirm the device status is less than before as device(s) were removed, see step **12** of the procedure to **ADD** device on page 2.

18 Select **Finish** to close the work.

19 Using the Vigilon Commissioning tool configure the Vigilon system to incorporate these changes.

20 Back up the revised configuration at the Vigilon panel, refer to the procedure for **ADD** device step **22** , see page 2.

WEEE Directive:

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre. Do not dispose of with your normal household waste. Do not burn.

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

Honeywell Gent reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

Hamilton Industrial Park, Waterside Road, Leicester LE5 1TN, UK
 Website: www.gent.co.uk
 Technical support: www.gentexpert.co.uk
 Telephone +44 (0)116 246 2000 Fax (UK): +44 (0)116 246 2300