

Element Manager Data Build

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1 Introduction

The Element Manager is THE place to begin if you are responsible for building the Network on the FastLight system.

Construction of a network in the FastLight GIS mostly mirrors the real world.

FastLight models aspects of multiple layers of network assets, and this section introduces essential concepts and gives an overview of how we construct the network in FastLight.

Network assets can be divided into four broad classes or layers:

- 1. Civil engineering assets such as buildings, cabinets, manholes, the ducts which run between them, and poles carrying aerial cable sections;
- 2. Weatherproofing assets such as waterproof joint closures and the cable jackets which protect transmission media;
- 3. Optoelectronic assets including cables, wires and the active and passive optical and electronic components carrying data; and
- 4. Configuration assets: individual data connections are created by splicing, connections, wiring and configuration within the optoelectronic layer.

Each one of these layers is a network: a map view shows that each layer consists of nodes connected by lines, in the same way that towns are connected by roads.

For the civil engineering layer, the nodes are buildings, cabinets and manholes whilst the lines are ducts or aerial sections.

For the optoelectronic layer, the *lines are cables* and the *nodes are points* where fibres from cables are interconnected or terminate on optoelectronic equipment.

In the configuration layer, a *line is an individual fibre* (or even an individual transmission wavelength in a WDM system) and the *nodes are fibre interconnections and terminations* on ports of optical or optoelectronic equipment.

Each layer in the list above "contains" the layer below it.

For example, a concrete duct may contain one or more cables, and a Footway Box may contain one or more waterproof joint closures.

As a result the first two layers are "hollow" - they consist of tubes (ducts in the civils layer and cable jackets in the weatherproofing layer) connecting enclosed spaces (respectively, manholes and joint closures). The optoelectronic layer also "contains" the configuration layer, although in a more abstract way.

In the *real world* and for each network section

- the civil engineering asset must be in place before other network assets can be installed within it. For example, we need a duct terminating in a manhole before we can pull a cable into it.

- the optoelectronic assets (including fibres in cables) must be in place before fibres can be connected or spliced to create a connection.

Just for completeness, the "construction" of the weatherproofing network is less clear-cut. Cable jackets are created as the cable is manufactured. Joint closures which seal to the cable jacket are typically provided in two or more parts and are assembled around the equipment to be protected. That is, a joint closure is often not installed in advance of the equipment it contains, although it would almost always be specified in advance. The network of tubes in the weatherproofing layer (made up of cable jackets and joint closures) runs between "dry" nodes of the civil engineering network such as point-of-presence buildings and some well-protected types of street cabinet. A "dry" node can be defined as maintaining an environment within which optical connectors and electronic equipment may operate without additional weatherproofing. A "dry" node can be considered as a node both of the civil engineering network and of the weatherproofing network.

Construction of a network in FastLight GIS although mapping mostly mirrors the real world; it does have some additional requirements on the ordering of operations

- for any network section, the nodes of the civil engineering network must be created *before any duct* can be connected between them
- a duct start or finish may be at any one of the following nodes of the civil engineering layer:
 - o POPs: Central Office, Street Cabinet POP, Data Centre
 - Cabinets
 - $\circ \text{ Manholes}$
- a duct must be created before a cable can be installed within it
 - FastLight tracks duct capacity and utilization and will not allow a cable to be installed in a duct which has insufficient space
- two or more cables must be created with terminations at the *same* joint closure, POP or cabinet before fibers can be *connected between them*
 - \circ to see the connection editor screen
 - click on a POP or a cabinet; or
 - click on a manhole and then click on a joint closure in the pop-up which appears
- an ONT may only be placed within a building
- All items that have specific rules, and more detail, can be found on the '?' button located throughout Fastlight.

Sign In:

When signing in please note that Utel supports Google Chrome, using a screen resolution of at least 1920x1080.

utel		2.4.7
Utel supports Google Chrome, using a so	creen resolution of at least 1920x1080.	
Log in Enter the details in the fields below. Requ	uired fields are marked with a *	
* Username:		
* Password:		
	Forgotten Password?	
	Log In	

2 Tree Hierarchy



The Tree Hierarchy is displayed on the left-hand side of the screen within **Element Manager**. Here you can structure your Network in a branching view to show different levels and what is above and beneath them.

The top level of your Tree is called the 'Location.' This could be a company name, Country, or anything else of your choosing and will be agreed and possibly configured pre-installation.

Underneath this there is a 'Sub-Location' (e.g. Province) into which you add another Sub-Location, or your 'POP/Third Party Location' (e.g. Area) and then within this you plot your POP Site.

You can have several Locations sitting at the same level e.g. multiple Countries or Companies at Location level, or multiple Provinces (Sub-Locations) within a single Country (Location), as shown in the image below. However, your Location level should be the largest area you wish to refer to as you cannot retrospectively create a level above that.

- 1. Locations e.g. Country
- 2. Sub-Locations e.g. Provinces
- 3. POP-Locations e.g. Areas
- 4. POP Sites

u	tel "	System								Create	Location Set Up Testi	ng Schedule
_	Search Q 🗢 🖸	System Ala	ms Inventory	Schedule	er Status							
н	▼ CO C System ▼ South Africa 1 ▼ Eastern Cape 2	Location	Physical	Enclosures	Active Optical Equipment	Passive Optical	Equipment Ir	nterconnects	Network Route M	iscellaneous Re	al Time Monitoring	
Ā	 Nelson Mandela Bay Relson Mandela Bay POP's - NMB 	Location										
Т	NMB1 POP	Delete	Project (Only 🗌 In U	se 🗌 All						C 🕨	• ?
P	Preallocated Networks	ID	↓ Syster	m Name	Display Name 🗈		Node ID 1	Host	Equipment Type ID	Equipment Type	Enclosure Mapper ID	
P	 Western Cape 					Abbreviation				All 🗸		
wo	O Initial Classes	1	Location		South Africa		500	0	1	Location	142939	System
	V South Yorkshire	380	Location		Tanzania		0	0	1	Location	142939	System
E	Totley - TOT	378	Location		United Kingdom		0	0	1	Location	142939	System

The Tree can be hidden and displayed by selecting the III icon to the right of the FastLight logo.



Building all elements of your Tree is completed through **Element Manager**. This includes creating maps for your locations and areas. Whilst these maps can be viewed in the **GIS Mapping** section, they can only be created in **Element Manager**.

3 Creating Elements

At this point it is worth mentioning that **buttons** that are *greyed out*; it is due to the fact that they cannot be used due to constraints (e.g. deleting a location that contains sub-locations) or that they do not have any functionality yet.

There should be tool tip available to users explaining why the button is not available.

The process of creating Locations, Sub-Locations, POP-Locations and POPs is very similar. First thing is to set up a Location, and this will not be required to be done again unless setting up a new Country, or similar.

Any field with a * before the name means it is a compulsory field and you must input something here e.g. **Display Name*.

3.1 Create Location

The Location(s) is the top level within your System, with everything else sitting underneath this. *System* is only available to the *System Administrator*, in order to have overall control between Locations.

Creating Elements



- 1. Select Element Manager from the Menu bar.
- 2. Select System in the Tree.
- 3. Click the Create Location button in the top right of the screen.



- 1. Enter the name as you would like it to display in the Tree.
- 2. Add any relevant Notes if required.
- 3. If you are completing the mapping stage at this point, then press the blue **Select** button next to Geo Data (See *Using the Maps function* later in this document).
- This does not have to be perfect for now, you can come back to this at a later point.
- 4. Once the entry is complete, the Add button will change to orange. Select it to save.
- 5. To cancel this entry, press Cancel.

Your new Location will then appear in the Tree.

You can create multiple entries at all levels, as seen in the image above. At this point you can set all users to have *Boundary Enabled* to a specific Location.

3.2 Create Sub-Location

A Sub-Location is usually a Province or large area.

The process of creating a Sub-Location is very similar to creating a Location.

You can create multiple Sub-Locations within each Location.

However, it is recommended to limit the Sub Locations, within Sub Locations, to 5.

Creating Elements



In the Tree, select the Location under which you wish your new Sub-Location to sit.
 Click the Create Sub-Location from the drop down list on the Create Location button.

u		Loo	cations : Sub Location		
_	Search	• 0	3 * Display Name:	Centre	
А Н	O France		Equipment Type:	Sub Location	
A			Master Location:	France	
A			4 Notes:		
T					
P			5 Geo Data	Select	
			Geo Data.		
E			6	Add Delete Reset Cancel	

- 3. Enter the name as you would like it to be displayed in the Tree. In this example, we're creating the Sub Location Centre within the Country (Location) of *France*.
- 4. Add any relevant Notes if required.
- 5. If you are completing the mapping stage at this point, then press the blue **Select** button next to Geo Data (See *Using the Maps function* later in this document).
 - This does not have to be perfect for now, you can come back to this at a later point.
- 6. Click Add to save or Cancel to leave the page. If added, this will then be displayed in the Tree.

3.3 Create POP-Location

There are four different Locations that can be created:

The POP Location is the area that holds all Network Locations connected to the POP,

The Remote Location is the area that holds all Network Locations connected to the remote POP,

The Core Location is the area that holds all Network Locations connected to the backbone between existing POPs, and

The Third-Party-Location is the area that holds all Network Locations belonging to Third Parties.

Again, creating them is a very similar process.



- 1. In the Tree, select the Sub-Location under which you wish your new POP-Location to sit.
- 2. Click the **Create POP-Location** from the drop down list on the Create Location button.

ut	\mathbf{e}	Locations : POP Location		
	Search Q 🗘 🕱	3 * Display Name:	Orleans	
м	▼ ⊕ France	4 * Abbreviation:	ORLE	
<u>.</u>	- cente	* Equipment Type:	POP Location	
A		Enclosure Mapper:	Centre	
₩ T		Master Location:	France	
P P		Notes:		
E				
Ф м		5 Geo Data:	Select	
KML		6	Add Diciete Reset Cancel	

- 3. Enter the name as you would like it to be displayed in the Tree. In this example, we're creating the Area Orleans within the Province (Sub-Location) of *Centre*.
- 4. Add a 3 or 4 letter abbreviation for this display name. Fields marked in Orange cannot be edited once saved.

Please refer to the *Naming Convention* [68] part of this document for guidance.

5. If you are completing the mapping stage at this point, then press the blue **Select** button next to Geo Data (See *Using the Maps function* later in this document).

This does not have to be perfect for now, you can come back to this at a later point.

6. Click Add to save or Cancel to leave the page. If added, this will then display in the Tree.

3.4 Create a POP

Creating a POP automatically adds another folder, *Network Locations,* to the Tree. This allows you to add in Buildings, Cabinets, Manholes and Cables. These are covered in *GIS Mapping Data Build Guide*.

Creating Elements

utel "	POP Location Orleans	Create P.O.P
Search Q C C C C C C C C C C C C C C	Details Inventory Logs * Display Name: Orleans Abbreviation: ORLE Equipment Type: POP Location Enclosure Mapper: Centre Master Location: France Notes:	Central Office Street Cabinet POP Data Centre
· •		

1. In the Tree, select the POP-Location in which you wish to build your POP. In this example, we are putting our POP into the Area (POP-Location) of Orleans.

- 2. Click the Create POP button.
- 3. Select either a 'Central Office', 'Street Cabinet POP' or 'Data Centre' from the drop-down menu.

Note: You can ONLY create a POP within a POP-Location. The button will not appear at other levels.

u		POPs : Central Office		
	Search Q 🗢 C	1 * Display Name:	ORLE-POP 01	
H A	Centre Criteans - ORLE	Category Equipment Type: * Equipment Type:	Central Office	~
	Network Locations Preallocated Networks	Notes:		
P P		2 Room Layout:	Scenario 1	✓ Preview
Ē		Geo Data:	Select	
(†) м		4	Add Delete Reset Cancel	

- 1. Enter the name as you would like it to be displayed in the Tree.
- 2. Please refer to the <u>Naming Convention</u> [68] part of this document for guidance. If so, the name will appear similar to the image above.

The Room Layout will automatically select 'Scenario 1' layout, but it is currently configurable to two different rack layout situations.

3. If you are completing the mapping stage at this point, then press the blue **Select** button next to Geo Data (See *Using the Maps function* later in this document).

- This does not have to be perfect for now, you can come back to this at a later point.
- 4. Click Add to save. This will then display in the Tree.

The POP will now appear in the Tree.

Creating Elements

U	tel "	Central Office	ORLE-POP 01	Set Up Testing Schedule	Equipment IN TAF Connection	IS TEST IN TAF Con	nections • TAF OUT Con	nections
-	Search Q 2	Details Logs	Test Log Network Alarms E	quipment Alarms Pop Route	End Point Route Schedu	uler Status ODF	Rack Connection C	Cables
Ж н	▼ [®] France ▼ ■ Centre		* Display Name:	ORLE-POP 01				
A A	F Orleans - ORLE ORLE-POP 01		Category Equipment Type:	POPs		ä		
₩ T	UTEL Equipment Testing Configurations		* Equipment Type: Notes:	Central Office				
e P	Routes Other Equipment							
P	Racks ODFs CCI Closures		Room Layout:	Scenario 1	~	Preview		
Ф м	Cables Network Locations		Geo Data:	Change				
K MI	Preallocated Networks			Save Delete Reset				

The POP Site name has an arrow next to it to indicate that it can be expanded. This reveals components that are automatically created as they are specific to the POP.

These will be covered later in this document in the Adding UTEL Equipment section.

3.5 To Edit or Delete a Location, Sub-Location, POP-Location or POP Site

Within Element Manager, select its name from the Tree.

To edit, simply change the details displayed on the main screen as required. Any amendments made will automatically turn the **Save** button from black to orange. Select **Save**.

To delete, you must ensure there are no layers within it. For example, if you wish to delete a Location, you must first delete any POP Site(s) within it, then the POP-Location(s) and Sub-Locations. If there are existing layers within it, then the **Delete** button will not be displayed. You will also not be able to delete a POP Site if it has equipment associated to it. Delete all equipment (OTDR, Switches, etc..) first, in reverse order to installation.

This process avoids any accidental (and potentially extremely time-consuming to rebuild!) deletions.

4 Using the Maps Function

FastLight allows you to accurately plot your Locations, Sub-Locations, POP-Locations and POPs using an interactive map.

There are two ways to create maps:

A) If you have already created the item in the Tree then select the name in the Tree and click the blue **Select** button.

B) Whilst you are creating your new item - click the blue **Select** button next to Geo Data.



Both methods take you to the Maps screen.



If at any time you have moved away from the *parent* boundary (the boundary within where you are creating your new location) just click **Fit Parent** to go back within the *parent* boundary.

Drag the map and zoom in and out using the plus and minus buttons, or the scroll on your mouse, to move the target cursor to where you wish to draw your Location.

If your area is a similar size to the 'parent' size then use the **Auto Set Region** button, otherwise click on **Set Region**.

Depending on which setting you have chosen for *Region Draw Type* in Advanced Settings;

you will either draw with 'Click Points' or 'Drag Rectangle'.



Drawing with 'Drag Rectangle' you will need to Left Click and hold

Then drag box over the approximate area you wish to map. When you release the mouse click, it will zoom into the location.



A green box will appear with white marker squares around it as highlighted here.

To adjust the boundaries of the area you wish to draw, click and drag these boxes.

As you move them, extra moveable boxes will automatically appear to allow you to map the area as precisely as possible.

To use these extra boxes, simply click on the box. By doing so, new ones will appear either side to allow for as many boxes as you wish.



You can zoom in and out with the mouse scroll wheel.

To centralize the page on the area you are working, click **Fit Sub**.

If you wish to redraw your area from scratch, click Clear.

Once you are happy with your map, click **Save**.

To cancel and go back to previous screen, click **Cancel**.

There is an option to load a KML file that has the necessary boundary already created. Click on **Export/Import** tab, click **+ Select import file** and navigate to it in it's file location. Once selected you can click on **Save** at the top right corner, or **Cancel**.



4.1 Mapping a POP Site

The POP is a fixed building or cabinet in a very precise location rather than a general area, so mapping this is slightly different.

First access the Maps screen for the POP by clicking the blue **Select** button next to Geo Data.

A map with a red border denoting the POP-Location will appear with a cross-hair target to identify the POP like so:



To centralize the page on the red parent area you are working within, click Fit.

By zooming, drag and drop the cross-hair target precisely to where the POP is located. As you move it around, you will see the latitude and longitude positions changing at the top of the screen.

This must be as accurate as possible.

This is the location of the OTDR and an inaccurate location will lead to incorrect mapping and potentially large-scale problems in the future.

Once the cursor is in position, click **Save**. To cancel and go back to previous screen, click **Cancel**.

4.2 To Edit or Delete an Existing Map

u	t		POP Location Orleans	Create P.O.P
•		Search Q 2	Details Inventory Logs Test Lo	Der
А Н	2	▼	* Display Name:	Orleans
Å		▼ FOrteans - ORLE 2 ▼ ORLE-POP 01	Abbreviation:	ORLE
M		UTEL Equipment	* Category Equipment Type:	Locations V
Ċ		Routes	Enclosure Mapper:	Centre
P	5	Racks	Master Location:	France
E	-	ODFs CCJ Closures	Notes:	
ф м		Cables Network Locations		
KML		Preallocated Networks	Geo Data:	Change 3
9				
				Save Josep Reset

- 1. Select Element Manager from the Menu bar.
- 2. In the Tree, click on the name of the map you wish to modify, in this case it is a Sub-Location.
- 3. Select the blue Change button next to Geo Data.



When complete modifying the boundary, click **Save** to apply your changes.

4.3 Viewing Maps

С М Creating Existing infrastructure can be done by selecting the GIS Mapping icon from the Menu bar. Using the Mapping function, for drawing the more detailed elements of your Networks, will be covered in *GIS Mapping Data Build Guide*.

5 Adding UTEL Equipment

Once a POP Site has been created, UTEL Equipment such as OTDRs, Switches, ROSCs, Bus and Power Extenders can now be added to the Network.

An OTDR Controller is available in a POP or Core Location, and a ROSC Controller is available in a Remote Location.

5.1 Create an OTDR

- 1. Select Element Manager from the Menu bar.
- 2. Find the POP Site you wish to work on in the Tree and expand the options within it by selecting the arrowhead to the left of its name.
- 3. Click on **UTEL Equipment** in the Tree, then the OTDR tab in the main window.
- 4. Click the Create Controller button.
- 5. Select the type of OTDR, available in your Network, from the drop-down menu.



Note: OTDRs and ROSCs are added to the POP, but Switches are assigned to either.

- 1. Choose the appropriate Network Status and Operational Status from the drop-down menus.
- 2. Add any Notes if required.
- 3. The Network ID: Node should not need changing unless a second OTDR is being added.
- 4. If Polling is enabled, select the box here. *Polling Enabled* means FastLight sends a signal to check the OTDR is there and is still connected. If Polling is enabled and the OTDR is disconnected, then it will raise an Equipment Alarm on FastLight. This option can only be selected once an IP address has been entered, otherwise the box is disabled.
- 5. Enter the Installation and Warranty Expiry Dates if known, for your records.
- 6. If the equipment is installed and an IP address has already been allocated to the OTDR, then add this here.

Note: If an IP address has not been assigned, you can save the entry and come back to it at a later date to add this in. Until an IP address is added, you will not be able to run any test.

Adding UTEL Equipment

- 7. Once completed, to save this entry click Add. You will now see it displayed in the Tree.
- 8. To move away from this page without saving, select **Back**.



To ensure your OTDR is configured correctly, and communicating with FastLight, do the following:

U	tel "	OTDR 903 N[001] OTDR 903	TEST IN TAF Connections Create Switch *
-	Search Q 2	Status Equipment Alarms Site Controller Co	nfig Equipment Log Switch Error Log
*	▼		Restart Rus Reset Localhus Status Test Connection •
н	▼ ► Centre		Education (Constitution) (Constitution) (Constitution)
A	▼ ↓ Orleans - ORLE	Display Name:	N[001] OTDR 903
А	▼ ORLE-POP 01	Cotonen Environment Trans	Online Time Demois Defeatementer
M	 UTEL Equipment 	Category Equipment Type:	Optical time-Domain Reliectometers
т	N[001] OTDR 903	* Equipment Type:	OTDR 903
(ct	Testing Configurations	Enclosure Mapper:	ORI E-POP 01
Р	Routes	Literet and happen	
	Other Equipment	* Network Status:	Available
Y.	Racks	* Operational Status:	Available 🗸
	ODFs		
M	CCJ Closures	Notes:	
	Cables		
	 Network Locations 		
EMIL	Preallocated Networks		
Ŷ	 Porleans Aeroport - AERO 		Serial Number Version
UGEO			· · · · · · · · · · · · · · · · · · ·
		Network ID : Node:	1
R		Polling Enabled 2	
		Forming Entabled .	
ш		Installation Date:	
×		Warranty Expiry Date:	
SP			
		First Test Date:	
NOC		IP Address:	10.1.60.123
		-	
TRT			Save Delete Reset
CAP			Download Config
	·	2	
4 F			
i 🖂	? 0 0 0 0	0	EM View - Optical Time-Domain Reflectometer
	All Tests Scheduled Tests My Tests Faults All Alarms	All Live Alarms	

- 1. Add a valid IP Address, and this will enable the Save button. Select Save.
- 2. Now select the **Download Config** button at the bottom of the OTDR form.

Adding UTEL Equipment

The User will be **notified** with the following message: 'Are you sure you want to Download Config on Controller? If so, please be aware that the Controller will be restarted'. The OTDR will take about 1 minute to calibrate, so it is advised to allow this to process.

Select 'OK' if you want to proceed

The Command Prompt should deliver a *'successful'* message. If any other message displays, check your OTDR configuration.



To fully complete your set up it is advised to tick;

'Polling Enabled', the 'Installation Date' as well as any 'Warranty Expiry Date' in order to be flagged when it expiration is nearing.

5.2 Create a ROSC

- 1. Select Element Manager from the Menu bar.
- 2. Find the POP Site you wish to work on in the Tree and expand the options within it by selecting the arrowhead to the left of its name.
- Note: A Remote Location houses a ROSC (Remote Optical Switch Controller).
- 3. Click on UTEL Equipment in the Tree. The ROSC tab will automatically open in the main window.
- 4. Click the Create ROSC button.

u	tel "	UTEL Equipment	Create ROSC
 А н 	Search Q 🗘 📿	Bus and Power Extenders Fast Optical Switches ISMCs Miscellaneous Objects Real Time Monitor Objects - Remote Optical Switch Controllers TASMs	
Å	Forleans - ORLE ORLE-POP 01	Dodete • In Use Missing OCB Mapper	b ¢ ?
₩ T	Network Locations Preallocated Networks	■ ID ↑↓ Location ID ↑↓ Location Location System Name Display Name Tk Host Abbreviation	Node ID 1
P P		No records found	Þ
P.	Testing Configurations Routes	Selected Records: 0	Total Records: 0
Ф м	Other Equipment		

The process is the same as adding an OTDR, detailed here <u>Create an OTDR</u> 19 A ROSC will need to be connected to a *minimum* of one switch in order to connect out.

5.3 Create a Switch

Once you have added a Controller, you are then able to add Switches.

It is common to have a Primary (or Master) Switch and cascaded from this you have the Secondary stage Switches.

All Switches are added in the same way as shown below.

u	tel "	OTDR 903 N[001] OTDR 903	TEST IN TAF Conn	recti 3 Create Switch -
2	Search O # C	Status Equipment Alarms Site Controller Config	Equipment Log Switch Error Log	FS-02
			Equipment Edg Similar Error Edg	FS-02 HD
A H	▼		Restart Bus Reset Localbus S	FS-02 UD
	Centre			FS-04
•	Orleans - ORLE	Display Name: N[0	01] OTDR 903	FS-04 HD
A	UTEL Equipment	Category Equipment Type: Opt	tical Time-Domain Reflectometers	FS-04 UD
2		· Environment Turner	TDR 903	FS-08
	Tenting Configurations	- Equipment Type:		FS-08 HD
C	Routes	Enclosure Mapper: OR	LE-POP 01	FS-08 UD
Р	Other Equipment	* Network Status:	wailable 🗸	FS-16
	Racks			FS-16 HD
E	ODFs	* Operational Status:	wanable 🗸	FS-16 UD
۲	CCJ Closures	Notes:		FS-32
м	Cables			FS-32 HD-64-A
	Network Locations			FS-32 HD
KML	Preallocated Networks			FS-32 UD
•	Orleans Aeroport - AERO	Ser	rial Number Version	FS-64
UGEO	▼ AERO_REM_POP	-		FS-64 HD
	UTEL Equipment	Network ID : Node: 1		FS-64 UD
R	Testing Configurations	Dolling Enabled 2		FS-128
	Routes			FS-128 HD
ш	Other Equipment	Installation Date:		FS-128 UD
×	Racks	Warranty Expiry Date:		FS-256
SP	ODFs			FS-256 HD
묘	CCJ Closures	First Test Date:		FS 256 UD
NOC	Cables	IP Address: 10	.1.60.123	FS 512
•	Network Locations			ES 512 HD
TRT	Preallocated Networks	s	ave Delete Resel	F3-512 HD
		_		ES 1024
CAP		D	Jownload Config	F 3-1024 FID
	r			

- 1. Select Element Manager from the Menu bar.
- 2. In the Tree, select the location, UTEL Equipment and then the controller that you wish to add the Switch/Switches to.
- 3. Click the Create Switch button.
- 4. A drop-down menu will appear with all the Switch options available in your Network. Select the one you require. For this example, we will add an FS-16.

u	tel "	FS-16		
-	Search Q S	Category Equipment Type:	Fast Optical Switches	
*	▼	* Equipment Type:	FS-16 V	
н	▼ ► Centre	Engloquiro Mannari		
	▼ F Orleans - ORLE	Enclosure mapper.	ORLE-FOF 01	
A	▼ ORLE-POP 01	1 * Network Status:	Available	
M	▼ UTEL Equipment	* Operational Status:	Available 🗸	
Т		2 Notes:		
C	Testing Configurations	2 1003.		
Р	Routes			
	Other Equipment			
E	Racks			
A	ODFs	3 * Address:	1	
м	CCJ Closures	Installation Date:		
	Cables	installation bate.		
KMI	Network Locations	Warranty Expiry Date:		
NINE	Preallocated Networks	First Test Date:		
•	 Porieans Aeroport - AERO 			
UGEO	▼ AERO_REM_POP	6 Quick Build ?	□ (4) (7)	
	UTEL Equipment			
R	Testing Configurations	5	Add Add And Continue Delete Cancel Reset	
	Routes	-		

Adding UTEL Equipment

- 1. Choose the appropriate Network Status and Operational Status of the Switch using the drop-down menus provided.
- 2. Add any Notes if required.
- 3. Input the Address number. We recommend giving the Primary Switch an address of 64 and for Secondary switches to be mapped and named with the relevant OLT (Switch01 is linked to OLT01).
- 4. To save this and then create another identical Switch manually, for the same controller, select Add and Continue.
- 5. To save this entry and go to the information page for this Switch, select Add. Use this button if you are adding a one-off Switch and then moving on to another task.
- 6. To save this and then create a number of identical Switches automatically then tick **Quick Build** and then **Add and Continue** when you have selected the desired outcome:

Add Master ?	Master LA:	Number of Switches:	Start offset:	Number width:
	64	15	1	3
	Addresses:			
	15 address(es) se	elected V		

7. To move away from this page without saving, select Cancel.

Add and Continue will process adding the Switches to the system, and then they be seen in the tree.

ut		FS-16 LA[015] FS-16 TEST IN TAP Connections Remove From Test Config
.	Search Q 🗘 🕽	Status Equipment Alarms Object Config
А н	▼	Reset Make A Switch Port: 16
Å	Forleans - ORLE ORLE-POP 01	Display Name: LA(015) FS-16
₩ T	 ▼ UTEL Equipment ▼ ✓ N[001] OTDR 903 	Equipment Type: FS-16
P P	LA(064) FS-16 LA(001) FS-16	Enclosure Mapper: ORLE-POP 01
E	LA(002) FS-16 LA(003) FS-16	Network Status: Available Available
⊕ M	LA(005) FS-16 LA(006) FS-16	Notes:
€ML	LA[007] FS-16 LA[008] FS-16	
₽ UGEO	LA[009] FS-16 LA[010] FS-16	Serial Number: Version:
R R	LA[011] FS-16 LA[012] FS-16	Localbus voltage:
e u	LA[013] FS-16 LA[014] FS-16	Installation Date:
۶Р	Testing Configurations	Warranty Expiry Date:
	Routes Other Equipment	
7	ODFs	Sare Loine Acon

Another way of creating Switches is to restart the OTDR once the switches are connected. The **alarm receiver** will automatically create switches that are connected.

5.4 Create Bus and Power Extenders

- 1. Select Element Manager from the Menu bar.
- 2. Find the **POP Site** you wish to work on in the Tree and expand the options within it by selecting the arrowhead to the left of its name.
- 3. Click on UTEL Equipment in the Tree
- 4. Select the **Bus and Power Extender tab** in the main window.

Adding UTEL Equipment

5. Click the Create Optical Power Tray button.

u	tel "	UTEL Equipment 6 Create Bus And Power Extender
• Ан	Search Q ♥ C ♥ ⊕ France ♥ ♥ Centre	Bus and Power Extenders Fast Optical Switches ISMCs Miscellaneous Objects Optical Time-Domain Reflectometers Real Time Monitor Objects TASMs Test Heads
A A	Crleans - ORLE ORLE-POP 01	Detele In Use Insing OCB Mapper
<mark>⊮</mark> T	3 UTEL Equipment Testing Configurations	ID ↑↓ Location ID ↓ Location System Name Display Name ↑⊾ Host Abbreviation Node ID ↑↓ Equipment
E P	Routes Other Equipment	No records found
	Racks ODFs	
E	CCJ Closures	Selected Records: 0 Total Record
•	Cables	
	 Network Locations 	
	Preallocated Networks	

- 1. Choose the appropriate Network and Operational Status from the drop-down menus.
- 2. Add any Notes if required.
- 3. Once completed, to save this entry click Add. You will now see it displayed in the Tree.
- 4. To move away from this page without saving, select Cancel.

utel	III Bus and	Power Extenders : Optical Powe	r Tray	
Search	Q ¢ 3	* Display Name:	BPE OPT-01	
☆ ♥ France		Equipment Type:	Optical Power Tray	
▼ ■ Centre ▼ ■ Centre		Enclosure Mapper:	ORLE-POP 01	
A VORLE-POP 01		1 * Network Status:	Available	~
T TEsting Configure	nt rations	* Operational Status:	Available	~
Routes		2 Notes:		
P Other Equipment	ıt.	-		
Racks				
E CCJ Closures				
Cables		3	Add D 4 Cancel Rese	at
M Network Locations				
Preallocated Networ	rks			

5.5 To Edit or Delete UTEL Equipment

Within Element Manager, select the POP Site on the Tree and select UTEL Equipment.

You can navigate to the required Equipment down the tree. Alternatively you can access the equipment from the tabs, and access it via the table.

To edit, simply change the details displayed on the main screen as required. Any amendments made will automatically turn the **Save** button from black to orange. Select **Save**.

To delete, you must ensure there is no further equipment associated with that component. For example, if you wish to delete a controller, you must first delete any Routes, then the Test Configuration and the Switches before you can delete the controller itself. If there are existing layers within it, then the **Delete** button will not be displayed. Remember to delete the

If there are existing layers within it, then the **Delete** button will not be displayed. Remember to delete the components in reverse order to installation.

This process avoids any accidental (and potentially extremely time-consuming to rebuild!) deletions.

Apart from creating a Test Configuration, with all the details of the equipment installed, to set up your routes - there is an option to set up Pre-Routes before any Equipment is added.

u	tel "	Testing Configurations		Set In Service Selected	Suspend S Create Test Configuration
2	Search Q 2				C ■ ♦
м н	▼	- 1	Name 1⊾	Sta?	Network Type
٠	▼	No records found			
А Т	ORLE-POP 01 UTEL Equipment ✓ N[001] OTDR 903	Selected Records: 0	« < > »	30 ~	Total Records: 0
P	Bus and Power Extenders Testing Configurations				
E	Contexes Other Equipment Racks				

Select **Element Manager** from the Menu bar. In the Tree, select the relevant POP Site and then Test Configurations. Click the **Create Test Configuration** button.

Below is the screen that is presented with the UTEL Equipment created. All the fields are filled in with the default settings for quick creation:

u		Test Configuration Management Bulk Build		Back
	Search Q 2	Controller:	N[001] OTDR 903	
*	▼		None	
n	Centre	Remote Location:	Noile	
Å	V ORLE-POP 01	Remote Controller:	None 🗸	
Let 1	▼ UTEL Equipment	Available First Stage Ports:		
т	▼ ✓ N[001] OTDR 903	Master Switch Address:	64	
[et	LA[064] FS-16			
Р	LA[001] FS-16		laws as	
	LA[002] FS-16	* Testing Configuration Name:	ORLE_TC	
E	LA(003) FS-16	4 * Test Config Type:	Testing Configuration 🗸	
۲	LA[005] FS-16	5 * OTDR To Switch Cable:	SC-APC to SC-APC Patch 🗸	
м	LA[006] FS-16	6 Louist To South Caller	SC.APC to SC.APC Patch	
•	LA[007] FS-16	Switch To Switch Cable:	30APO 10 30-APO Paluli	
KML	LA[008] FS-16	Z * TAF/WDM:	Test Access Filter APC 1650nm	
Ŷ	LA[009] FS-16	8 * Switch To TAF/WDM Cable:	Internal Patch 🗸	
UGEO	LA[010] FS-16	0 Include Route ?		
	LA[01] FS-16	10	Loou vi	
N	LA[013] FS-16	* Route Type:	PON	
	LA[014] FS-16	11 * Default Test Type:	GENERIC_TEST V	
	LA[015] FS-16	-	Quick Test Configuration And Route	
SP	 Bus and Power Extenders 			
	BPE OPT-01			
NOC	Testing Configurations	OTDR 903 (Primary Test Port)	First Stage Switch	Second Stage Switch
-	Routes	2		
TRT	Other Equipment	OTDR 903	LA[064] FS-	LA[001] FS-
	ODFs		FS-16	• FS-16 • LA:1
CAP	CCJ Closures	SN:	SN:	SN: OUT
?	Cables			x
Help	 Network Locations 			_
•	Preallocated Networks			LA[002] FS-
LO	 Provide the second secon			FS-16
				SN: OUT:
				X
				LA[003] FS-
				ES-16 0143
	2 0 0 0 0	0		Test Configuration Management Bulk Build
	All Tests Scheduled Tests My Tests Faults All Alarms			lest sollingulation management buik build

- The screen will now display the UTEL Equipment you have built in the Network so far. If there are elements missing from this screen or incorrect Logical Addresses (LAs) for your Switches, then they may have been added incorrectly. Select Back and edit these if necessary.
- The correct Controller (OTDR 903) should display automatically at the top of the screen. If you wish to edit, select the one you require from the drop-down menu or the location and name of the remote controller if it is a ROSC.
- 3. Enter a **Test Configuration** name as you would like it to display in the Tree. Please refer to the <u>Naming Convention</u> appear of this document for guidance. If so, the name will appear similar to the image above.
- 4. Test Configuration Type should automatically be the correct one for the location created.
- 5. Select the Patch Cable used for the OTDR To Switch Cable.
- 6. Select the Patch Cable used for the Switch To Switch Cable, which has the same options;



- 7. Select Test Configuration **TAF** required; None, APC 1650nm or UPC 1650nm.
- 8. Select Switch To TAF/WDM Cable from the drop-down menu;

* Switch To TAF/WDM Cable	Internal Patch	~
	Please Select	
Include Route ?	Auto	
* Route Type	Hydra 16 LC-APC	
	Hydra 32 LC-APC	
* Default Test Type	Internal Patch	

9. **Include Route?** to allow for routes to be available from the tree; if so then proceed with 10 - 12. 10. Select **Route Type** from the drop-down menu;

* Route Type * Default Test Type	PON	~
	PON	
	Trunk	
	Long Line	
	Basic Long Line	
	Point to Point	
	BidirectionalP2P	

11. Select **Default Test Type** from the drop-down menu.

12. Select the Master Switch when required for network routing, via the tick box.

Any Switches not to be included in setting up routes can be deselected.

13. Once all the above is correct, select the Quick Test Configuration and Route button.

Below is the screen that is presented without the UTEL Equipment created.

This allows pre-routes for the network to be connect up before the switch ports are available:

u	tel "	Test Configuration Management Bulk Build			Back
	Search Q 🗘 🕄				
м н	▼ ♥ France ▼ ■ Centre	* Testing Configuration Name:	AERO_TC		
	▼ ¥ Orleans - ORLE	* Test Config Type:	Remote Testing Configuration		
A	ORLE-POP 01	* TAF/WDM:	None	~	
₩ T	 Network Locations Preallocated Networks 	Include Route ?	2		
(ct)	Orleans Aeroport - AERO	Number of Pre-Routes ?			
P	▼ AERO_REM_POP	* Poute Type:	PON	~	
E	✓ UTEL Equipment ✓ N[001] ROSC Lotoottes pe	* Default Test Type:	GENERIC_TEST	~	
() м	Testing Configurations	2	Test Configuration And Pre-Route		

- 1. Enter the number of **Pre-Routes** required.
- 2. Once all details are configured as required, select the **Test Configuration and Pre-Route** button when it becomes available.

The system will make connections between the OTDR, the Master Switch and the cascaded Switches. The Routes will be automatically be created.

This may take up to a minute, depending on the number of connections to be made.

ut		Connections (TP) ORLE_TC	
н	Search Q S © France V D Centre V Conterno - ORLE	Connection 1 of 16 Section 5 of 17 32 of 512	
A	UTEL Equipment	+ Select Equipment Type	
T	▼ √ N(001) OTDR 903 LA(064) FS-16		
P	LA[001] FS-16	ORLE LA[004] FS-16 OUT/1	
E	LA[003] FS-16		
	LA(004) FS-16 LA(005) FS-16	OUT/2-	• TAF OTDR IN/50
•	LA[006] FS-16 LA[007] FS-16	OUT/3 -	• TAF OTDR IN/51
KML	LA[008] FS-16 LA[009] FS-16	Please Wait ^{0UT/4}	TAF OTDR IN/52
UGEO	LA[010] FS-16		
R	LA[012] FS-16	OUT/5 •	• TAF OTDR IN/53
	LA[013] FS-16 LA[014] FS-16	Cancel OUT/6 -	TAF OTDR IN/54
4	LA[015] FS-16	Do not refresh this page	
SP	 Bus and Power Extenders Testing Configurations 	Your request is being processed	• TAF OTDR IN/55
	Routes Other Equipment	OUT/8 •	TAF OTDR IN/56
F TRT	Racks	OUT/3	• TAE OTDR IN/57
	CCJ Closures		
CAP	Cables	OUT/10	• TAF OTDR IN/58
? Help	Network Locations Preallocated Networks	QUT/11-	
	▼ = Orleans Aeroport - AERO		
LO	AERO_REM_POP Network Locations	0ut/12 •	TAF OTDR IN/60
	Preallocated Networks	OUT/13	• TAF OTDR INIG1
			TAF OTDR INV62
i 💌	O O	0 All Live Alams	Creating 32 Interconnections [0 - 32]

When the Test Configuration is complete you will be presented with the **Details**.

U •	Search 9 9 2	Optical Testing Configuration ORLE_TC	Delete	Set In Service Edit Test Configuration Validate ?
А.	▼	Details Planning Diagram		•
A A	 ▼ Orleans - ORLE ▼ ORLE-POP 01 	* Testing Configuration Name:	ORLE_TC	
₩ T	 UTEL Equipment Testing Configurations 	Network Type:	Testing Configuration	
P	V Routes	Network Status: Operational Status:	Available Available	· ·
E	 SW001 SW002 SW003 	Notes:		
Ф м	► SW004 ► SW005			
♥ KML	► SW006 ► SW007		Save Reset	
	SW008			

The connections will be displayed in a **Planning Diagram**.



You are able to zoom in and out of the diagram using the scroll on your mouse to view it closer. The Switch filter will allow a simplified view, especially as more of the network is added to the routes.

FastLight will display the Routes in a table view (1). They will also appear grouped together in the Tree (2).

To view all the Routes in this table view, select Routes from the Tree. To view an individual route, select its name from the Tree view.

u		Route	es 1 - 255						TAR	FOUT Connections	View Ref Traces Esta	ite 🗸
2	Search Q 🗘 C	Deta	ils Test Log									
А н	 ♥ France ♥ ■ Centre 	Run	fest * Create Reference *								I Default Test Type 🔹	
	▼	🗌 In S	ervice Only 🗌 Show Schedule On 🛛	Ref Only	Assign E	vents Only	Planning	Diagram Or	nly		Show By Group	₿ ¢
A	V ORLE-POP 01	1000	Name									^
<u>₩</u>	UTEL Equipment Testing Configurations			Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	Network Type	Default Test Type	Alarm
-	ORLE TC	_	SW00M-012					~	v	Switch Link		
P	2 Routes	0	SW00M-012	-				-	-	Switch Link		
-	► SW001		SVV00M013					<u></u>	-	Switch Link		
E	► SW002	U	SW00M::014	U				×	×	Switch Link		
-	► SW003		SW00M::015					×	×	Switch Link		
м	► SW004		SW001:001					×	×	PON	GENERIC_TEST	
•	► SW005		SW001:002					×	×	PON	GENERIC_TEST	
KIML	▶ SW007		SW001:003					×	×	PON	GENERIC_TEST	
Ŷ	► SW008		SW001:004					×	×	PON	GENERIC_TEST	
UGEO	► SW009		SW001:005					×	×	PON	GENERIC_TEST	
	► SW00M		SW001:006					×	×	PON	GENERIC_TEST	
R	SW010 SW011		SW001:007					×	×	PON	GENERIC TEST	
=	► SW012		SW001:008					×	×	PON	GENERIC TEST	
LL	► SW013		SW001:009					×	×	PON	GENERIC TEST	
SP SP	► SW014		SW001:010	-				~	~	BON	CENERIC TEST	
5	► SW015		SW001.010					-	-	PON	GENERIC_TEST	
NOC	Other Equipment		SW001:011	U				×	×	PON	GENERIC_TEST	
	Racks		SW001:012	•				×	×	PON	GENERIC_TEST	
TRT	ODFs CCI Closures		SW001:013					×	×	PON	GENERIC_TEST	
	Cables		SW/001-014	_				~	~	DON	GENEDIC TEST	•
CAP	Network Locations			4		2	3 4	5 >	» 30	~		
?	Preallocated Networks	Selecte	ed Records: 0								Tot	al Records: 255

6.1 Validate Switches

The is an optional functionality to check the state of the ports before connecting up your network.

ut •	Search Q 🗘	Optical Testing Configuration ORLE_TC	Delete	Set In Service Edit Test Configuration Validate ?
*	▼	Details Planning Diagram		-
н	▼ ► Centre	4		•
A A	 Forleans - ORLE ORLE-POP 01 	* Testing Configuration Name:	ORLE_TC	
1~ 7	UTEL Equipment			
т	 Testing Configurations 	Network Type:	Testing Configuration	
[c+	C ORLE_TC	Network Status:	Available	
Р	Routes	Operational Status	Available	
100	Other Equipment	Operational status:	Available	
E	Racks	Notes:		
	ODFs			
H A A B T E € M F KML UGEO	Switch Commissioning ORLE_TC LA(001) FS-16 LA(001) FS-16 LA(002) FS-16 LA(003) FS-16 LA(005) FS-16 LA(005) FS-16 LA(007) FS-16 LA(007) FS-16 D13 014 015 016 Selected: 0 Total: 16		2 Run (All)	Abro (Failed) Run Selected Ports Cancel Back

- 1. Select Validate.
- 2. Select Run (All) or,
- 3. Select switches and/or ports.

111	Switch Commissioning ORLE_TC	×	Run (All) Rim (Faled) Run Selected Ports Cancel Back
2	Routes	Are you sure? 16 / 16 Test(s)	
# H	LA[001] FS-16	Caution. OTDR laser light will be fired.	
Å	008	Confirm Cancel	
ыл т	009		
Ċ	010		
	011		

While the tests are running a status icon is indicated next to each port, along with the traces run on view.

When the traces have all finished being run, they are displayed on the **Trace** tab and you can visually check for dirty ports.



6.2 Setting Test Configuration In Service

u ⊧	Search Q 2	Optical Testing Configuration ORLE_TC		elete Set In Service Edit Test Configuration Validate ?
е н	▼ ⊕ France ▼ ■ Centre	Details Planning Diagram		-
Å	 ▼ Orleans - ORLE ▼ ORLE-POP 01 	* Testing Configuration Name:	ORLE_TC	
⊻ ⊤	 UTEL Equipment Testing Configurations 	Network Type:	Testing Configuration	v
P P	ORLE_TC Routes	Network Status:	Available	×
E	Other Equipment Racks	Operational Status: Notes:		
Ф м	ODFs CCJ Closures Cables			
KML	 Network Locations Preallocated Networks 		Save Reset	

1. Select the name of the Test Configuration from the Tree then press the **Set In Service** button.

This will turn the icon next to its name in the Tree from red (Suspended) to green (In Service).

Note: A Test Configuration can only be edited, deleted or validated when it is in a suspended state.

6.3 To Update a Test Configuration

Navigate to the required **Test Configuration** in the Tree.

u! ▲		Optical Testing Configuration ORLE_TC	Deicte	Set In Service Edit Test Configuration Validate ?
А Н	v ⊕ France v ⊯ Centre	Details Planning Diagram		•
Å	▼ Forleans - ORLE ▼ ORLE-POP 01	* Testing Configuration Name:	ORLE_TC	
₩ T	 UTEL Equipment ✓ N[001] OTDR 903 	Network Type:	Testing Configuration	
C P	 Bus and Power Extenders Testing Configurations 	Network Status:	Available	
		Operational Status:	Available 🗸	
E M	Other Equipment Racks	NO.51		
KML	ODFs CCJ Closures Cables		Save Reset	
P UGEO	Network Locations Preallocated Networks			
R	Porleans Aeroport - AERO AERO_REM_POP			
	 UTEL Equipment ✓ N[001] ROSC 			
الا SP	LA[001] FS-08 Testing Configurations			
	Routes Other Equipment			
% TRT	Racks ODFs			
CAP	CCJ Closures Cables			
? Help	Preallocated Networks			

1. Select Edit Test Configuration on the top right of the screen

	Controller:	N[001] OTDR 903		
	2 Remote Location:	None	~	
	Remote Controller:	None	*	
	Available First Stage Ports:			
1	Master Switch Address:	64		
	* Testing Configuration Name:	ORLE_TC		
	* Test Config Type:	Testing Configuration		
	* OTDR To Switch Cable:	SC-APC to SC-APC Patch	~	
	* Switch To Switch Cable:	SC-APC to SC-APC Patch	~	
	* TAF/WDM:	Test Access Filter APC 1650nm	*	
	* Switch To TAF/WDM Cable:	Internal Patch	~	
:0	4 Include Route ?			
1	* Route Type:	PON	~	
	* Default Test Type:	GENERIC_TEST	*	

- 2. If you require to add a ROSC configuration from a remote site, select the **Remote Location** you require from the drop-down menu.
- 3. Select the **Port** the ROSC will be connected to when the drop down becomes available.

ш	Test Configuration Management Bulk Build			Back
-	Controller:	N[001] OTDR 903		
А н	Remote Location:	Orleans Aeroport	~	
	Remote Controller:	N[001] ROSC	~	
A	Available First Stage Ports:	16 ~		
M	Master Switch Address:	a x		
-	2000 - 10 1000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000	2 16		
1.6-1				

- 4. Modify any settings that are required to be updated
- 5. When you have modified the items required, select Update the Test Configuration And Route.

6.4 To Edit or Delete a Test Configuration

Within Element Manager, select the Test Configuration in the Tree.

To edit, simply change the details displayed on the main screen as required. Any amendments made will automatically turn the **Save** button from black to orange. Select **Save**.

To delete a Test Configuration is to remove all connections between the OTDR and Switches, as well as the routes.

To delete, you must ensure there is no further equipment associated with that component. For example, if you wish to delete an OTDR, you must first delete the Test Configuration and the Switches before you can delete the OTDR itself.

If there are existing layers within it, then the **Delete** button will not be displayed.

1. Click on the Test Configuration name to see associated items.

Remember to delete the components in reverse order to installation.

This process avoids any accidental (and potentially extremely time-consuming to rebuild!) deletions.

u		Optical Testing Configuration		Delete Set In Service	Edit Test Configuration	Validate	?
-	Search Q S						
*	▼	Details Planning Diagram					
Ħ	▼ ► Centre	<					
	Orleans - ORLE						
A	▼ ORLE-POP 01	* Testing Configuration Name:	ORLE_TO				
1-1	UTEL Equipment						
T	 Testing Configurations 	Network Type:	Testing Configuration	~			
-	CORLE_TC	Network Status	Available	~			
	▼ Routes	Network Status.					
P	SW001	Operational Status:	Available	~			
	5 0000						
E	► SW002	Notes:					
-	SW003						
	► SW004						
INI	► SW005						
	SW006						
KML	SW007		Save Resel				
•	SW008						

The items that is preventing the deletion is presented in a selectable table for ease of navigation.

Might be because item has route(s) with test(s)

								Close 🗘
ID †↓	Display Name 1	Equipment Type	Enclosure	Start	End	Location	Route	Network
215089	SW001:016	PON	ORLE-POP 01			Orleans		^
215088	SW001:015	PON	ORLE-POP 01			Orleans		
215087	SW001:014	PON	ORLE-POP 01			Orleans		
215086	SW001:013	PON	ORLE-POP 01			Orleans		
215085	SW001:012	PON	ORLE-POP 01			Orleans		
215084	SW001:011	PON	ORLE-POP 01			Orleans		
215083	SW001:010	PON	ORLE-POP 01			Orleans		

2. Once all associated with the Test Configuration is cleared, select **Delete**. All routes will automatically be deleted too.

u	tel "	Optical Testing Configuration	Delete	Set In Service Edit Test Configuration Validate ?
•	Search Q 🗘 🕽	Details Planning Diagram	0	
н	▼ ► Centre	4		•
A A	Orleans - ORLE ORLE-POP 01	* Testing Configuration Name:	ORLE_TC	
₩ T	 UTEL Equipment Testing Configurations 	Network Type:	Testing Configuration	j
C P	▼ Routes	Network Status:	Available V]
e	► SW001 ► SW002	Operational Status: Notes:	A reliable	
⊕ м	 SW003 SW004 SW005 			
KML	 SW006 SW007 		Save Reset	
	SW008			

7 Create Other Equipment

To create an OLT, navigate to Other Equipment in the tree.



- 1. Select Element Manager from the Menu bar.
- 2. In the Tree, select the POP Site, then Other Equipment.
- 3. Click the Create OLT button.

4. A drop-down menu will appear with all the **OLT** options available to you. Select the one you require. For this example, we will add a Calix 16 Port OLT.

	1 * Name	ORLE-CalixOLT-0)1	
	Equipment Type	Calix 16 Port OLT		
	Network Status	Available	~	
2	Operational Status	Available	~	
	3 Notes			
	-			
		Number of OLTS	Start offset	Number width
	4	Number of OLTS	Start offset	Number width

1. Enter the **Name** as you would like it to display in the Tree.

Please refer to the <u>Naming Convention</u> [68] part of this document for guidance.

- 2. Select the Network Status and Operational Status of the OLT using the drop-down menu provided.
- 3. Add any **Notes** if required.
- 4. Enter the **Number of OLT's** that need to be created, usually the same number of Secondary (Slave) switches already in the POP. One will be added if left at 0.

The Offset number will add the OLT's from the number entered, automatically incrementing the number at the end of the OLT name.

- 5. To save this entry and go to the information page for this OLT, select Add. Use this button if you are adding a one-off OLT and then moving on to another task.
- 6. To save this and then create another OLT, select Add and Continue.
- 7. To move away from this page without saving, select Cancel.

•	↓ Orleans
	ORLE-POP 01
	UTEL Equipment
	 Testing Configurations
	Routes
	 Other Equipment
	▼ OLTs
	ORLE-CalixOLT-01
	ORLE-CalixOLT-01 - C1-P1 PON 01
	ORLE-CalixOLT-01 - C1-P2 PON 02
	ORLE-CalixOLT-01 - C1-P3 PON 03
	ORLE-CalixOLT-01 - C1-P4 PON 04
	ORLE-CalivOLT-01 - C1-P5 PON 05

You will now see the OLT displayed in the Tree, along with all the ports.

7.1 To Edit or Delete an OLT

Within Element Manager, select its name from the Tree.

To edit, simply change the details displayed on the main screen as required. Any amendments made will automatically turn the **Save** button from grey to orange. Select **Save**.

To delete, select **Delete**.

7.2 OLT - TAF Connections

The routes required path needs to be manually set between the OLT and the TAF.

Select the POP of the required route in the tree.

1. Click on the Equipment IN TAF Connections button.



Using the left mouse - select the OLT port to be connected and drag to the desired Switch port.
 Alternatively you can select 'Auto Create' button to connect up all the OLT, and Switch ports, 1-to-1.



- 4. If you would like to remove the connection hover over the line and a red cross will be presented. Click on the red cross and the line will be removed.
- 5. Alternatively you can select the 'Auto Clear' button.

Create Other Equipment

ut		Equipment IN TAF Connections ORLE-POP 01	Res	set Auto Clear Save Save	& Back Print ? Back
2	Search Q 🗘 3		— Filter: Off	56	
*	▼				
н	Centre	All		All	 □
	▼ ∓ Orleans				
Ā	ORLE-POP 01 - ORLE	4			
1~2	 UTEL Equipment 	ORLE-CalixOLT-01			^
Т	 Testing Configurations 		SW001:001		
	 Routes 	C1-P2 PON 02 Remove link.	SW001:002		
	 Other Equipment 	C1-P3 PON 03 Q	SW001:003		
E	12201207		QW001-004		

6. Click on Save, or Save & Back, once you have finished connecting up the paths you require.

8 Routes

The creation of the Routes between the equipment are automatically created with the creation of the Test Configuration, but to add more you will need to edit the Test Configuration.

ut		Route	es 1 - 255						TAF	OUT Connections	View Ref Traces Esta	ite V
2	Search Q 🗘 3	Deta	ils Test Log									
А н	 ✓ Θ France ✓ M Centre 	Run	Test * Create Reference *							edule Selected Sel	Default Test Type 🔹	
	▼	🗌 In S	ervice Only 🗌 Show Schedule On	Ref Only	Assign E	vents Only	Planning	Diagram On	nly		Show By Group	B *
А	▼ ORLE-POP 01		Name	1000			100 M 4 1000					-
Ŀ.≊	UTEL Equipment		15	Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	Network Type	Default Test Type	Alarm
Т	▼ Testing Configurations									<i>.</i>		
C			SW00M::012					×	×	Switch Link		
P	Routes		SW00M::013					×	×	Switch Link		
	SW007		SW00M::014					×	×	Switch Link		
E	► SW003		SW00M::015					×	×	Switch Link		
۲	► SW004		SW001:001	0				×	×	PON	GENERIC TEST	
M	► SW005		SW001:002	0				×	×	PON	GENERIC TEST	
•	► SW006	0	C14/004-002	-					~	PON		
KML	▶ SW007		50001:003	-				^	^	PON	GENERIC_TEST	_
9	► SW008		SW001:004	U				×	×	PON	GENERIC_TEST	
UGEO	SW009		SW001:005					×	×	PON	GENERIC_TEST	
	 SW0000 SW010 		SW001:006					×	×	PON	GENERIC_TEST	
R	► SW010		SW001:007					×	×	PON	GENERIC_TEST	
	► SW012		SW001:008					×	×	PON	GENERIC_TEST	
	► SW013		SW001:009					×	×	PON	GENERIC_TEST	
SP	► SW014		SW001:010					×	×	PON	GENERIC_TEST	
	SW015		SW001:011	0				×	×	PON	GENERIC_TEST	
NOC	Darke		SW001-012					×	×	PON	GENERIC TEST	
7	ODFs	0	C14004-012	-				~	~	DON		
TRT	CCJ Closures		30001.013	-				^	^	FUN	GENERIO_TEST	
	Cables		SM001-014			2	3 4	5 2	>> 30		GENEDIC TEST	
CAP	 Network Locations 	Calast	d Recorder 0			-			30			Deserves 255
?	Preallocated Networks	Selecte	eu Recolus: U								10	ai Records: 255

- 1. Select Element Manager from the Menu bar.
- 2. In the Tree, select the POP Site and navigate down to the Routes/Switch required to view.
- 3. You can change the **Name** filtering of routes by using this button. Choice between or all; Estate, OLT and Switch.

U	tel "	Optical Route SW001:001	Run Test - Create Reference - A	asign Events Tone Test + RT Test
•	Search Q ♥ ♡ ▼ ⊙ France	Route Details Planning Diagram Map Te	est Log Alarm History Assign Distances	Scheduler Status
Н	▼ ► Centre	<		•
A A	Crieans - ORLE ORLE-POP 01	* Optical Route Name:	SW001:001	
₩ T	UTEL Equipment Testing Configurations	1 Network Type:	PON	~
-	▼ Routes	2 Default Test Type:	GENERIC_TEST	~
P	▼ SW001	3 Network Status:	Available	~
e E	SW001:002	Operational Status:	Available	~
A	SW001:003	4 Route Type:	None	~
м	SW001:004	Notes:		
•	SW001:006			
KML	SW001:007			
•	SW001:008			
UGEO	SW001:009	5	Save Reset	
-	SW001:010	-		

1. Select the **Network Type** from the drop-down menu.

 Select the Default Test Type from the drop-down menu. Note: you will only get the option to select a CUSTOM_TEST if you have already created one in the Testing section which will be covered in a separate guide.

- 3. Choose the appropriate Network Status and Operational Status of the route using the drop-down menus provided.
- 4. Optional to give the route a unique **Type**. This will help filter of the different types in the tree and the table.
- 5. To save your Routes, select **Save**. To go back to default settings then select **Reload**.

u		Routes 1	l - 16							TAF OUT Conne	ctions View Ref Traces	Estate 🗸
-	Search Q 🗢 🖸	Details	TestLog									
н	▼ S France ▼ M Centre	OTH Port I	No Run Test Create Reference Be Only Show Schedule On Ref Only	2 In Servie	s Only	eration Status 🔹		led Set Default	t Test Type 🔹		V Show By Group	0 B ¢
A A	▼ ORLE-POP 01 - ORLE	_	Name th	6452	Seb12	Sep 33	Dof2	5.42	Ding?	Notwork Tupo	Default Test Ture	Alarm
₩.	► UTEL Equipment			Star	SCITT	SCIIZ?	Reif	EVL	Diage	Network Type	Denaun Test Type	Aldrm
Т	Iesting Configurations Routes		SW001:001					×	×	PON	GENERIC_TEST	
	SW001		SW001:002					×	×	PON	GENERIC_TEST	
E	SW001:001		SW001:003					×	×	PON	GENERIC_TEST	
	SW001:002		SW001:004					×	×	PON	GENERIC_TEST	
	SW001:003		SW001:005					×	×	PON	GENERIC_TEST	
KML	SW001:004		SW001:006	•				×	×	PON	GENERIC_TEST	
•	SW001:006		SW001:007					×	×	PON	GENERIC TEST	
UGEO	SW001:007		SW001:008	0				×	×	PON	GENERIC TEST	
æ	SW001:008		SW001:009					×	×	PON	GENERIC TEST	
R	SW001:009		SW001:010					×	×	PON	GENERIC TEST	
Ξ	SW001:011		SW001:011	-				×	×.	PON	GENERIC TEST	
LL	SW001:012		\$W001:012							PON	CENERIC TEST	
۶	SW001:013		SW001:012					~	~	RON	CENERIC TEST	
5P	SW001:014		00001013					-		PON		
CAP	SW001:015		SW001.014					*	*	PON	GENERIC_TEST	
	► SW002		SW001:015					×	×	PON	GENERIC_IEST	
Help	► SW003		SW001:016					×	×	PON	GENERIC_TEST	
•	 SW004 SW00M 	Selected Re	cords: 1		**	< 1 2	3 4	> >> 4 ·	~			Total Records: 16

8.1 To Set a Route In Service

- 1. Select the required **Route** from the table or Tree. You can do multiple at one time.
- 2. Press the In Service button.
- 3. This will turn the **icon** next to its name from black to green.

Hover over icon and see the Network Status and Operational Status.

4. Another way to navigate Routes is to right click on it from the tree, and click Set In Service.

	SW001:003		SW00	1:007					×	×	PON	GENERIC	TEST
	SW001:004		SWOO	11-009					*		PON	GENERIC	TEST
	SW001:005		3000	1.000			and the second diversion of		^		FON	GENERIC	_1E31
	SW001:006		SW00	1:009	3	IN SEF	RVICE/AVAIL	ABLE	×	×	PON	GENERIC	_TEST
	SW001:007		SW00	1:010	-				×	×	PON	GENERIC	_TEST
	SW001:008		SWOO	11-011		-					PON	GENERIC	TEST
	SW001:009								^		TON	CENERIC	21201
	SW001:010		SW00	11:012					×	×	PON	GENERIC	_TEST
			CW00	14.040	1						DOM	CENEDIC	TECT
		III	Routes	1 - 16							TAF OUT Conne	ctions View Ref Traces	Estate 🗸 🗸
Ĕ	Search	Q 🗢 🖸	Details	Test Log									
*	▼		OTH Port	No 🝷 Run Test 🔹 Create Ref				Schedule Selecte		Test Type 🔹			
H	Centre Soriegns		🗌 In Servi	ce Only 🗌 Show Schedule On 🗌 Re	f Only 🗌 Assign Events	only 🗌 Planni	ng Diagram Only					Show By Group	C 🕒 🕈
A	 ORLE-POP 01 - OF 	RLE		Name						10100-01000			
 ~₹	 UTEL Equipme 	nt		Th	Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	Network Type	Default Test Type	Alarm
т	 Testing Configu 	irations		SW001:001					×	×	PON	GENERIC TEST	
	 Routes SW001 			SW001:002	0				×	×	PON	GENERIC_TEST	
E	SW00	1:001		SW001:003	0				×	×	PON	GENERIC_TEST	
⊕ M	SW00	Connections		SW001:004					×	×	PON	GENERIC_TEST	
	SW00	Details		SW001:005					×	×	PON	GENERIC_TEST	
KML	SW00	Planning Diagram		SW001:006					×	×	PON	GENERIC_TEST	
•	SW00	Non		SW001:007					×	×	PON	GENERIC_TEST	
UGEO		мар		SW001:008					×	×	PON	GENERIC_TEST	
	Sw00	Set In Service		SW001:009					×	×	PON	GENERIC_TEST	
	SW00	Field Commissioning Tool		SW001:010					×	×	PON	GENERIC_TEST	
	SW00	Schedule Status		SW001:011					×	×	PON	GENERIC_TEST	
	SW00	1.012		SW001:012					×	×	PON	GENERIC_TEST	
SP	SW00	1:014		SW001:013					×	×	PON	GENERIC_TEST	
Ê	SW00	1:015		SW001:014					×	×	PON	GENERIC_TEST	
CAP	SW00	1:016		SW001:015					×	×	PON	GENERIC_TEST	
?	► SW002			SW001:016					×	×	PON	GENERIC_TEST	
Holp	► SW003												
rieip	SW004					~~	< 1 2	3 4 >	» 4 v	 International (1998) 			

8.2 Deleting Routes

If there is any need to delete the Routes created then the most straight forward way is to delete the Test Configuration that created them To Edit or Delete a Test Configuration 32

This however becomes trickier when routes have been *connected*, set to '*In Service*', and/or *tests have been run*.

All routes set to anything other than 'Available', need to be set to **Decommissioned** before the Delete is enabled.

u	tel "	Optical Route	SW001:009	Run Test Create	Reference Assign TAE OUT Connections	Events Tone Test	 RT Test Set In Service 2
	Search Q 🗘 🕽				TAT OUT CONNECTIONS		
*	▼	Route Details	Planning Diagram Map	Test Log Alarm History	Assign Distances	Scheduler Status	
н	▼ ► Centre	4				1	÷
	▼ ¥ Orleans - ORLE		* Optical Route Name:	SW001:009			
A	▼ ORLE-POP 01			A 10.25 (0.1613) (0.1613) (0.1			
2	 UTEL Equipment 		Network Type	PON	~		
т	 Testing Configurations 		Network Type.				
ret l	ORLE_TC		Default Test Type:	GENERIC_TEST	~		
P	▼ Routes		Network Status:	Decommissioned	~		
	▼ SW001						
E I	SW001:001		Operational Status:	Available	~		
	SW001:002		Route Type:	None	~		
	SW001:003						
M	SW001:004		Notes:				
	SW001:005						
KML	SW001:006						
Ŷ	SW001:007						
UGEO	SW001:008			Save Reset			
	SW001:009						
R	SW001:010						

If the Delete is not available then the route is possibly connected to a cable, ie: '*Route is in use*'. Navigate to the **TAF OUT Connection** screen (<u>POP TAF Out Connections</u>) [61] Disconnect the Route's TAF to the cable.

u		Optical Route SW001:002	Run Test Create Reference # Set Up Testing Schedule TAF OUT Connection	Assign Events Tone Test * . RT Test
С С С С С С С С С С С С С С С С С С С	Search Q ♥ 2 ♥ ⊕ France ^ ♥ Dentre	Route Details Planning Diagram Map Tr	est Log Alarm History Assign Distances	Scheduler Status
A A	 ▼ Orleans - ORLE ▼ ORLE-POP 01 	* Optical Route Name:	SW001:002	
₩ T	 UTEL Equipment Testing Configurations 	Network Type:	PON	~
P P	▼ Routes ▼ SW001	Default Test Type: Network Status:	Decommissioned	~
P.	SW001:002	Operational Status:	Available	v
⊕ M	SW001:004 SW001:005	Route Type: Notes:	NOR	
KML	SW001:006 SW001:007			
9 UGEO	SW001:008 SW001:009 SW001:010		Save Reset	

If tests have been run on the route then the tests need to be deleted before the Routes (and Test Configuration) can be deleted.

The easiest way to see which routes have had a test run (or is connected) is to navigate to the **Routes** folder.

The columns **Ref? (1)** will indicate tests run, and **Diag? (2)** will indicate if the route has a diagram ie: connected out from the TAF.

u	tel "	Roi	utes 1 - 68		TAF OU	JT Connec	tions	View Ref	Traces	Estate	~	•
A	Search Q 🗢 C	D	etails Test Log									
*	▼							rouge states				
н	▼ ► Centre	R						ыныны		aun test		
	Forleans - ORLE		n Service Only 🗌 Show Sche	edule On 🗌 Ref Only 🗌 Assign	Events Only 🗌 Planning Diagram Or	nly		Sho	w By Gro	up 🗧		٠
A	▼ ORLE-POP 01				Name						2	-
<u>₩</u>	 UTEL Equipment 		Location 1	Enclosure	t⊾	Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	
т	 Testing Configurations 											
C.	Routes		Orleans	ORLE-POP 01	SW001:001				Ref	×	•	÷.
Р	▼ SW001		Orleans	ORLE-POP 01	SW001:002					×	0	
	Ref SW001:001		Orleans	ORLE-POP 01	SW001:003					×	×	
E	SW001:002		Orleans		C14/004-004	-				~	~	
	SW001-004		Oneans	ORLE-POP 01	50001.004	-					^	
м	SW001:005		Orleans	ORLE-POP 01	SW001:005					×	×	
•	SW001:006		Orleans	ORLE-POP 01	SW001:006					×	×	
KML	SW001:007		Orleans	ORLE-POP 01	SW001:007					×	×	
Ŷ	SW001:008		Orleans	ORLE-POP 01	SW001:008					×	×	
UGEO	SW001:009		Orleans	ORLE-POP 01	SW001:009					×	×	
	SW001:010		Odeene		C14/001-010		-					
R	SW001:011		Oneans	ORLE-POP 01	50001.010	u				^	^	
	SW001:012		Orleans	ORLE-POP 01	SW001:011					×	×	
LL L	SW001:013		Orleans	ORLE-POP 01	SW001:012					×	×	
	SW001:014		Orleans	ORLE-POP 01	SW001:013					×	×	
SP	SW001:015		Orleans	ORLE-POP 01	SW001:014					×	×	
	SW001:016		Orleans	ORLE-POP 01	SW001:015					×	×	-
NOC	 SW002 SW003 	4	ondano	ONLES OF OT	011001.010						- F	
	 SW003 SW004 			« « «	1 2 3 > >> 25 ×	-						
TRT	► SW00M	Sele	ected Records: 0							Tota	Records:	68
	Other Equipment											
CAP	Racks											

Navigate to the routes **Test Log** and delete the tests from the table. The user will then be allowed to delete the route.

Set up Testing Schedule TAF OUT Connections Field Tool Deete Set In Service	?
O France Route Details Planning Diagram Map Test Details Trace Test Log Alarm History Assign Distances Scheduler Status	
H Centre 4	+
▲ View Send Email All ✓	B 🗘
A VORLE-POP 01	
► UTEL Equipment Status 11 Status 12 Status 14 Summary Test Type Create Time 12	Dura
T Testing Configurations	Contractores
Routes	0.40
	0.40
Ref \$\00101	- F
	December 4
Selected Records: 1	Records: 1

When all the routes are open for deletion; the Test Configuration can be deleted to clear them all.

9 Schedule

There are two Schedules available and they can be set at four tree node levels: **System, Country, POP** and **Route**.

Routes
 SW001
 SW001:001
 SW001:002
 SW001:003
 SW001:004
 SW001:005
 SW001:006
 SW001:007

SW001:008

The statuses set up will be indicated in the tree.

1. At **System level** the Schedule overrides all Country, POP and Route Schedules.

u	tel	Ш	System									Cr	eate Loc	et Up Testing Schedule
-	Search	Q 💠 🖸	System Alarms	Inventory Scheduler Sta	atus									
А н	 System Brazil 		Scheduler One	Scheduler Two										
	Cameroon													S 🗗 🕈
Ā	France		POP	Country	Route						S1 Override			
143	South Africa					51	0	S1 Schedule Level	S1 Interval	S1 lest lype	Interval	Overnide ST	Overnde ET	Override lest lype
T	Ounited Kingdom		ORLE-POP 01	France	SW001:001	×	×							

40



2. At **Country level** the Schedule overrides all POP and Route Schedules.

u	tel	Ш	Location	France									Create Locat	Set Up Testing Schedule
2	Search	Q 🗘 🕄	Details In	ventory	Scheduler Status									
т 💸	France France Centre		Scheduler One	Sche	duler Two									
														S 🖻 🕈
Ā			POP		Route	S1	0	S1 Schedule Level	S1 Interval	S1 Test Type	S1 Override	Override ST	Override ET	Override Test Type
Lee T			No records four	d							Interval			
								"	< > >	25 🗸				
Ē														Total Records: 0

3. At **POP level** the Schedule overrides all Route Schedules.

u	tel "	Central Office	ORLE-POP 01			3 Set Up Testing Schedu	le Equipment IN T/	F Connections T	EST IN TAF Connections	TAF OUT Connections
2	Search Q 🗢 🕃	Details Logs	Test Log Network Alarms	Equipment Alarms	Pop Route End Poin	t Route Scheduler Status	ODF Rack	Cables		
Ĥ ♠	▼ ■ Centre ▼ ■ Centre	Scheduler One Sch	cheduler Two							S 🖪 🕈
^ ⊷	ORLE-POP 01 - ORLE Network Locations Forleans Aeroport	Route	S1 O	S1 Schedule Level	S1 Interval	S1 Test Type	S1 Override Interval	Override ST	Override ET	Override Test Type
E		No records round			« «	> >> 25 v				Total Records: (

Set Up Testing So	chedules	× Set Up Testing So	hedules	×		
Schedule:	Schedule 1 v	Schedule:	Schedule 2 V			
Turn off all POP network schedules for scheduler 1 ?		Turn off all POP network schedules for scheduler 2 ?				
Schedule Active:		Schedule Active:				
Country Level:		Country Level:				
Interval:	O 1 hour	Interval:	● 24 hours			
	O 6 hours		O 1 week			
	12 hours		O 1 month			
Test Type:	SYSTEM_QUICK_TES V		O 3 months			
Test when Fault:		Test Type:	GENERIC_TEST V			
Rota:	Select/Deselect All	Test when Fault:	✓			
	✓ Monday		Save Close			
	🗹 Tuesday					
	✓ Wednesday					
	✓ Thursday					
	✓ Friday					
	Saturday					
	🗸 Sunday					
	Save Close					

Element Manager Data Build V1.2

9.1 Schedule Route

The fourth Schedule set up available is at Route level.

u	tel "	Routes *	I - 68							TAF OUT Con	Nections View Ref Traces	Estate V
2	Search Q 🗢 🗗	Details	TestLog									
К н	▼ S France ▼ M Centre	OTH Port	No • Run Test • Create Reference ce Only	ce 🔹 In Servi y 🗌 Assign Even	s Only	eration Status 2 ng Diagram Only	Schedule Selec	set Defau	It Test Type 🔹		🗸 Show By Group	0 B ¢
▲ ^	✓ ORLE-POP 01 - ORLE ✓ UTEL Equipment	•	Name 1⊪	Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	Network Type	Default Test Type	Alarm
T	resting Configurations Routes Other Equipment		SW001:001 SW001:002	0				×	×	PON	GENERIC_TEST GENERIC_TEST	
€ ₩	Racks ODFs CCI Closures		SW001:003 SW001:004					× ×	× ×	PON PON	GENERIC_TEST GENERIC_TEST	
¢ KML	Cables Network Locations		SW001:005 SW001:006					×	××	PON PON	GENERIC_TEST	
UGEO	 Crieans Aeroport 		SW001:007 SW001:008					× ×	× ×	PON	GENERIC_TEST	
	(1		SW001:009	D				×	×	PON	GENERIC_TEST	

- 1. Select the required **Route** to run a Schedule from the tree, clicking onto the route in the table, or ticking in the box.
- The Route can only be Scheduled if it is In Service. The option will not be available otherwise.
- 2. Select Schedule selected. A pop up allows you to choose the required Schedule to be performed.
- 3. Select from drop down which **Schedule** to set.
- 4. Tick the **Schedule Active** to turn it on.

et Up Testing So	hedule for selected route(s)	× Set Up Testing So	Set Up Testing Schedule for selected route(s)								
Schedule:	Schedule 1 v 3	Schedule:	Schedule 2 V								
Schedule Active:	☑ ◀	Schedule Active:									
POP Level:		POP Level:									
Override Schedule:		Interval:	24 hours								
Interval:	O 1 hour		O 1 week								
	O 6 hours		O 1 month								
	● 12 hours		O 3 months								
Test Type:	SYSTEM_QUICK_TES' ~	Test Type:	GENERIC_TEST V								
Test when Fault:		Test when Fault:									
Rota:	Select/Deselect All	2	Save Close								
	✓ Monday										
	🔽 Tuesday										
	✓ Wednesday										
	✓ Thursday										
	V Friday										
	Saturday										
	🗹 Sunday										
	Save Close										

- At route level there is an option to Override Schedule.
 - A Start Time and End Time can be set when to override, with a shorter interval of 15 minutes available.

Schedule:	Schedule 1 🗸	
Schedule Active:		
POP Level:		
Override Schedule:	☑ <5	
Override Interval:	⊙ 30 minutes	
	O 1 hour	
	O 6 hours	
Start Time:	00:00	
End Time:	00:00	
Override Test Type:	SYSTEM_QUICK_TES ~	
Test when Fault:	✓	
	Save	

- Once the scheduling is decided press Save.
 The status of the Schedule is indicated next to the Route in the table.

11		Routes 1 - 16							TA	F OUT Connections	View Ref Traces Estate	• ~
	Search Q *	OTH Port No 🔹	Run Test Create Re Show Schedule On	ference	in Serv	sign Event	Set Oper s Only [aton Status <mark>] Planning</mark>	• Sol J Diagram	edule Selected Set	Default Test Type 🔹	₿ \$
H A	▼ ■ Centre ▼ ■ Orleans		Name †≞	Sta?	Sch1?	Sch2?	Ref?	Evt?	Diag?	Network Type	Default Test Type	Alarm
А Т	 ▼ ORLE-POP 01 ▶ UTEL Equipment ▶ Testing Configurations 	SW001:001 SW001:002						×	×	PON	GENERIC_TEST	^
E	▼ Routes ▼ SW001	SW001:003						×	×	PON	GENERIC_TEST	
.м	SW001:001	SW001:006						×	×	PON PON PON	GENERIC_TEST GENERIC_TEST	
KML	SW001:004 SW001:005	SW001:008			© s	1 12 hours		×	× ×	PON	GENERIC_TEST	
R	SW001:007	SW001:010						×	×	PON	GENERIC_TEST	

Schedule Status tab navigating to the POP.

ut			Ш	Central Office	ORL	.E-P	<u>OP 01</u>	Set Up Testin	g Schedule Equipmen	t IN TAF Connection	IS TEST IN TAF (Connections •	TAF OUT Connections
-	Search	Q	\$	Details Logs	Test I	_og	Network Alarms E	quipment Alarms	Pop Route Er	nd Point Route	Scheduler Status	ODF Ra	ck
*	▼ @France		^	Scheduler One	Schedul	er Two							
Н	▼ PCentre			- 0									2 B 0
	 Forleans 			1991 - 1971	-								
Ă	ORLE-POP 01			Route	S1	0	S1 Schedule Level	S1 Interval	S1 Test Type	S1 Override	Override ST	Override ET	Override Test Type
100	 UTEL Equipment 									Interval			
T	 Testing Configurations 			SW001:009	~	×	SW001:009	12 hours	SYSTEM_QUICK_TEST				^
2010	▼ Routes							"	c 1 3 35	25 ×			Y
	▼ SW001												Total Booordou 4
	SW001-001												rotal Records: 1

The Schedule Status tab navigating to the Route.



The **Reports** also has details of Schedules that are set up.

Ш	Equipment Reports					
•	&	-				Co
H A	Component Events	Warranty Report	All OTDRs	All ROSCs	All ISMCs	All OLTs
A T	\$	~ *	2	#		*
E	All OLT Ports	All Cables	Cables Diagram	All Switches	All Switch Ports	All TASMs
M M	-		Ш	8		Ê
R	1 All ONTs	All NTs	Splice Information	Float Information	Cable End Points	Inventory Report
LL SP	Routes and Networks Rep	port				
? Help	مځ		20	A	=	
C) LO	All Routes	All Pre-Allocated Networks	All Scheduled Networks	Route Details	Duct Route Details	
i All Tes	ts 0 Scheduled Tests 0 My Te	ests 0 Faults 0 All Alarms 2				Repor

Select the Location that you would like to see details of the schedules set up.

			Select a Location:	Orleans			~]			
				Override On	ily						3 b
Network Display Name	Normal Interval	Scheduler Status	Test Type	Override Interval	Override Scheduler Status	Override Start	Override End	Override Test Type	Scheduler Number All V	Switch Port Name	POP Location
SW001:009	12 Hours	On	SYSTEM_QUICK_TE	15 Min	Off	00:00	00:00	SYSTEM_QUICK_TES	1	SW001 FS-16 Output 009	Orleans
SW001:009	24 Hours	Off	GENERIC_TEST						2	SW001 FS-16 Output 009	Orleans
					« · 1	> >> 25 ~					



To add the smaller elements of your Network can all be found within the *Network Locations* folder, in the tree located on the left hand side, as it appears automatically when you create your POP

Adding these items will automatically update in the Network Locations where the details can be accessed by exploring into each folder.

Network Locations are created via GIS Mapping or Projects, but details can also be modified via the Element Manager.

u	tel "	Network Locations
-	Search Q 🗢 C	Locations Physical Enclosures Active Optical Equipments Passive Optical Equipments Interconnects Network Route Miscellaneous Real Time Monitoring
Ан н	▼	2 Locations - 3
Â	▼ ORLE-POP 01 - ORLE	Deter 👍 🖸 Project Only 🗋 In Use 6 6 🖸 🕨 🗢
₩ T	UTEL Equipment Testing Configurations	Display Name 1. Equipment Type All Country Phase Status Country Network Status Country Network Interconnection Connect
P	Koules Other Equipment	No records found
e E	ODFs CCJ Closures	Salected Records: 0
⊕ M	Cables Network Locations	

- 1. Group Tab All items in Fastlight are grouped in Network Locations in order to find them easier.
- 2. Sub Tab These groups are then subdivided into the same item groups.
- 3. Drop Down The same item groups might have many variations of the same kind to filter further.
- 4. Filters ticking 'Projects Only' will display items in the table that are related to planning.
- 'In Use' displays items that are linked to other items and no longer available.
- 5. **Table** clicking on each item in the table will navigate the user to view it in the tree. This will allow you to return back to the Network Locations screen.
- Refresh Refresh allows real time loading of items created by other users.

Import/Export - Export all data or page in csv format in the desired location on the hard drive.

Advanced Table Settings - Select the informational columns you would like to view for the items by tick box on the drop down.

Items listed as presented:

Ne	twork Loo	ations									
	Locations	Physical	Enclosures	Active Optical Equipments	Passive Optical Equipments	Interconnects	Network Route	Miscellaneous	Real Time Monitoring		
	Locations -										
	Other	15	Only 🗌 In Use								<i>C</i> b ¢
	Zones		splay Name ↑⊾	Equipment Ty All	pe V	Enclosure	Net	work Status All V	Operational Status All	~	Location

Locations:

DP Locations - view all details specific to the DP locations's set up within the POP Location. **Zones** - view all details specific to the Zones set up within the POP Location.

Network Loc	ations														
Locations	Physical	Enclosures	Active Optic	al Equipments	Passive	Optical Equi	pments l	nterconnects	Network Ro	oute	Miscellaneous	R	eal Time Monitorin	g	
Boundaries	Cabinets	CBTs	Distribution Po	ints Duct C	ouplers	Manholes	Placehold	lers Poles	POPs	Prop	erties				
Delete	ection - C	Projec	ct Only 📋 In U	lse											C 🖪 🕈
	Disj	play Name 1		Equipment T All	ýpe V		Enclos	sure		Netv /	work Status		Operationa All	I Status	Location

Physical:

Boundaries - view all details specific to the boundaries set up in the POP Location.

Cabinets - view all details specific to the cabinets set up in the POP Location.

CBTs - view all details specific to the CBT's set up in the POP Location.

Distribution Points - view all details specific to the DP's set up in the POP Location.

Duct Couplers - view all details specific to the couplers used on the duct tubes set up within the POP Location.

Manholes - view all details specific to the manholes set up in the POP Location.

Placeholders - view all details specific to the placeholders set up within the POP Location.

Poles - view all details specific to the poles set up in the POP Location.

POPs - view all POP's set up specific to the POP Location.

Properties - view all details specific to the buildings placed in the POP Location

Network Locations

Locations Physica	al Enclosures /	Active Optical Equipme	nts Passive Op	otical Equipments	Interconnects Net	twork Route	Miscellaneous	Real Time Mor	nitoring	
Blanking Panels 🝷	Cable Joint Closures	CBT Closures	CCJ Closures	Chassis Fiber	Management - Gei	neric Panels 🝷	Patch Groups	Racks -	Shelves -	
Delete 💿 🗆 Proj	ect Only 🗌 In Use								All 3U Shelves	C 🖪 🕈
-	Display Name ↑⊾	Equipm All	ent Type	Encl	osure	Netwo	ork Status	Opera	1U Shelves 15U Shelves	Location
No records found									2U Shelves	
Selected Records: 0				« «	> >> 25	~				Total Records: 0

Enclosures:

Blanking Panels - view all details specific to the blanking panels used in the racks set up in the POP. Cable Joint Closures - view all details specific to the joint closures within the manholes set up in the POP Location.

CBT Closures - view all details specific to the CBT Closures set up within the POP Location. **CCJ Closures** - view all details specific to the CCJ Closures set up in the POP.

Chassis - view all details specific to the chassis used for the racks set up in the POP Location.

Fiber Management - view all details specific to the Fiber Management used in the racks set up in the POP.

Generic Panels - view all details specific to the generic panels used in the racks set up in the POP. **Patch Groups** - view all details specific to the patch groups within the cabinets set up in the POP Location.

Racks - view all details specific to the racks set up in the POP.

Shelves - view all details specific to the shelves used in the racks set up in the POP.

Network Locations

Locations	Physical Enclosures Active	Optical Equipments Passive	Optical Equipments Interconnects Netw	vork Route Miscellaneous	Real Time Monitoring	
Bus and Po	wer Extenders Fast Optical Switches	OLTS - ONTS Op	tical Time-Domain Reflectometers Remote O	ptical Switch Controllers Servi	ce Switches 👻	
Delete	📄 Project Only 📄 In Use 📄 Mi	All Generic Access Switches				<i>C</i> b ¢
•	Display Name †↓	All V	Enclosure	Network Status All V	Operational Status All V	Location
	N[001] OTDR 903:LA[001] FS-16	FS-16	ORLE-POP 01	In Service	Available	Orleans
	N[001] OTDR 903:LA[002] FS-16	FS-16	ORLE-POP 01	Available	Available	Orleans
	N[001] OTDR 903:LA[003] FS-16	FS-16	ORLE-POP 01	Available	Available	Orleans
	N[001] OTDR 903:LA[004] FS-16	FS-16	ORLE-POP 01	Available	Available	Orleans
	N[001] OTDR 903:LA[064] FS-16	FS-16	ORLE-POP 01	In Service	Available	Orleans
			24 4 1 X XX 2F			

Selected Records: 0

Active Optical Equipments:

Bus and Power Extenders - view all details specific to the Optical Power Trays used in the POP. **Fast Optical Switches** - view all details specific to the FS switches used in the POP.

OLTs - view all details specific to the OLTs used in the POP.

ONTs - view all details specific to the ONTs used in the POP Location.

Optical Time-Domain Reflectometers - view all details specific to the OTDRs used in the POP. **Remote Optical Switch Controllers** - view all details specific to the ROSCs used in the POP. **Service Switches** - view all details specific to the services switches used in the POP.

Network Locations									
Locations Physical	Enclosures Active C	Optical Equipments	Passive Optical Equipments	Interconnects	Network Route	Miscellaneous	Real Time Monitoring		
Caps Fiber Joints	Filters - Loaded Pat	ch Cassettes Mic	rowaves Network Terminal	tions ODFs §	Splitters 👻				
Delete 💿 🗖 Project	All								3 🖪 🗢
Di	Bypass Switches Terminal Filters	Equipment Ty; All	E	nclosure	Net	twork Status All V	Operational Statu All	s V	Location
No records found	Bypass Filters Test Access Filters		«	< > >>	25 🗸				
Selected Records: 0									Total Records: 0

Passive Optical Equipments:

Caps - view all details specific to the caps used on the duct tubes set up within the POP Location.

Fiber Joints - view all details specific to the joints used on the fibers in the cables created within the POP Location.

Filters - view all details specific to the WDMs, Bypass Switches, Terminal Filters, Bypass Filters and TAFs.

Loaded Patch Cassettes - view all details specific to the patch cassettes used in the POP Location. **Microwave** - view all details specific to the NT's used in the POP Location.

NTs - view all details specific to the NT's used in the POP Location.

ODFs - view all details specific to the Optical Distribution Frames set up in the POP.

Splitters - view all details specific to the splitters within the DP's or manholes set up in the POP Location.

Total Records: 5

Locations	Physical Enclosures Active	Optical Equipments Passive	Optical Equipments Interconnects Netwo	vork Route Miscellaneous	Real Time Monitoring	
Associates	Cables Ducts Fibers	Hydra Cables Patch Cables	Pigtails Trenches			
Delete	ection - Project Only In Use					S 🖪 🕈
-	Display Name ↑⊾	Equipment Type All 🗸	Enclosure	Network Status All V	Operational Status All V	Location
	AC BB01::LQ Building02 NT_F2	Drop Cable 2 (1tx2f)	Orleans	In Service	Available	Orleans
	BB01::BB04_F12_S001	Cable 12 Fiber (1tx12f)	Orleans	In Service	Available	Orleans
	BB01::BB04_F12_S002	Cable 12 Fiber (1tx12f)	Orleans	In Service	Available	Orleans
	BB01::BB04_F12_S003	Cable 12 Fiber (1tx12f)	Orleans	In Service	Available	Orleans
	BB02::BB03_F18	Cable 18 Fiber (1tx18f)	Orleans	In Build	Unavailable	Orleans
	BB02::BB03_F8	Cable 8 Fiber (1tx8f)	Orleans	In Build	Unavailable	Orleans
	BB03::BB04_F6	Cable 6 Fiber (1tx6f)	Orleans	In Build	Unavailable	Orleans
	BB04::BB08_F6	Cable 6 Fiber (1tx6f)	Orleans	In Service	Available	Orleans
	HH10::SC01_F72	External Cable 72 (6tx12f)	Orleans	In Service	Available	Orleans
	ORLE-POP 01::SC01_F24	External Cable 24 (2tx12f)	Orleans	Built	Unavailable	Orleans
	ORLE POP_HH10_F72	External Cable 72 (6tx12f)	Orleans	In Service	Available	Orleans
	SC01::BB01_F18	Cable 18 Fiber (1tx18f)	Orleans	In Service	Available	Orleans
			« < 1 > » 25	5 ~		

Selected Records: 0

Network Locations

Total Records: 12

Interconnects:

Associates - view all details specific to the associates within the POP Location.

Cables - view all details specific to the cables created in the POP Location.

Ducts - view all details specific to the ducts within the cables set up in the POP Location.

Fibers - view all details specific to each fiber in the cables set up in the POP Location.

Hydra Cables - view all details specific to the hydra cables created in the POP.

Patch Cables - view all details specific to the patch cables within the cabinets set up in the POP Location.

Pigtails - view all details specific to the pigtails created within the POP Location.

Trenches - view all details specific to the trenches in the POP Location.

Ne	twor	k Lo	catio	ns

tworks	•						
JI		nly 🔲 In Use					C 1
ssign E	vents	ay Name ↑⊾	Equipment Type		Network Status	Operational Status	
realloca	ited		Ali 🗸	Enclosure	All 🗸	All 🗸	Location
toutes		-01 Configuration	OLT Configuration	ORLE-POP 01	In Service	Available	Orleans
esting N	letworks		Testing Configuration	ORLE-POP 01	Available	Available	Orleans
esting C	onfigurations		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:002		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:003		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:004		PON	ORLE-POP 01	Available	Available	Orleans
_	SW001:005		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:006		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:007		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:008		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:009		PON	ORLE-POP 01	In Service	Available	Orleans
	SW001:010		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:011		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:012		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:013		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:014		PON	ORLE-POP 01	Available	Available	Orleans
	SW001:015		PON	ORLE-POP 01	Available	Available	Orleans
1	SW001:016		PON	ORLE-POP 01	Available	Available	Orleans

Selected Records: 0

Total Records: 70

Network Route:

Assign Events - view all assign events within the POP Location.

OLT Configuration - view all OLT Configurations within the POP Location.

Preallocated - view all preallocated routes within the POP Location.

Routes - view all routes within the POP Location.

Testing Networks - view all testing networks set up within the POP Location

Testing Configurations - view all Test Configurations set up within the POP Location.

Network Loo	cations									
Locations	Physical	Enclosures	Active Optical Equipments	Passive Optical Equipments	Interconnects	Network Route	Miscellaneous	Real Time Monitoring		
Miscellaneou	is Objects									
Delete 🛛 💿	Project	Only 🗌 In Use	Missing OCB Mapper							<i>C</i> b ¢
-	Dis	splay Name ↑≞.	Equipment Ty Site Alarm Input Dev	pe ice 🗸	nclosure	Net	twork Status All V	Operational State	us V	Location

Miscellaneous:

Maturals I a settience

Miscellaneous Objects - view all details specific to the Site Alarm Input Device in the POP Location.

	cations									
Locations	Physical	Enclosures	Active Optical Equipments	Passive Optical Equipmen	ts Interconnects	Network Route	Miscellaneous	Real Time Monitoring		
Real Time M	onitor Objects	•								
All		nly 🗌 In Use	e 🗌 Missing OCB Mapper							C 🖪 🕈
Deves Ove	alu Liaita	olay Name 🗈	Equipment 1	ype	825 8)	Ne	twork Status	Operational Status		8 N
Power Sup	piy Units		All	~	Enclosure		All 🗸	All	· •	Location
No recordo roun	vilig Fallels		P							
				<	< > »	25 🗸				
Selected Record	s: 0									Total Records: 0

Selected Records: 0

Real Time Monitoring:

C3s - view all C3s units added to the POP.

Power Supply Units - view all PSUs added to the POP.

Shelf Blanking Panels - view all blanking panels available for the shelving within the POP.

11 **Create Racks**

- 1. In the Tree, select the POP Site that you wish to add the Rack information to.
- 2. Click the Create Rack button.
- 3. A drop-down menu will appear with all the Rack options available in your Network. Select the one you require. For this example; we will add an 42U Rack 19 Inch.

Create Racks

u	tel "	Central Office ORLE-POP 01 Set Up Testing Schedule Stack Equipment IN TAF Connections TEST IN TAF Connections • TAF OUT Connections
-	Search Q C	Details Logs Test Log Network Alarms Equipment Alarms Pop Route End Point Route Scheduler Status ODF Rack Connection Cables
е н	▼	2 Create Rack -
Å	Criteans - ORLE ORLE-POP 01	Date Only In Use 420 Rack 19 Inch 470 Rack 19 Inch 470 Rack 19 Inch
₩ T	 UTEL Equipment Testing Configurations 	ID 11 Location ID Location System Name Display Name 1L Host Aubreviation Node ID 11 Equipin 11 Au
P	Routes Other Equipment	No records found
e E	4 Racks ODFs	<< < > >> 30
Ф м	Cables	Selected Records: 0 Total Records: 0
	Preallocated Networks	

4. Alternately, you can navigate to Rack, in the tree, and add one from the drop down.

u	tel "	Racks				Create Rack -
-	Search Q C	Racks - Shelves -				42U Rack 19 Inch 47U Rack 19 Inch
м н	▼ [®] France ▼ [™] Centre	Delete 💿 🗌 Project Only 🗌 In	n Use			C b ¢ ?
Å	 Forleans - ORLE ORLE-POP 01 	■ ID †↓ Location ID 	System Name	Display Name 1⊾ Host	Abbreviation Node ID	t↓ Equipment Type ID Equipm
<u>ы</u> т	 UTEL Equipment Testing Configurations 	No records found				All
C P	Routes Other Equipment	٠.	······································	< > >> 30 ~		Þ
E	Radks ODFs	Selected Records: 0				Total Records: 0
Ф м	Cables					
•	retwork Locations Preallocated Networks					

- 1. Enter the **Display Name** as you would like it to be displayed in the Tree.
- 2. Add any **Notes** if required.
- 3. Choose the Rack Position in the room scenario, either by drop down or box selection.
- 4. Once completed, to save this entry click Add. You will now see it displayed in the Tree. To move away from this page without saving, select **Cancel**.

U	tel "	Racks 19 Inch : 42U Rack 19 inch				
• * =	Search Q ♥ ♥ ♥ ♥ France ♥ ♥ Centre ♥ ♥ Orleans - ORLE	1 • Display Name: Equipment Type: 2 Notes:	42U Rack 19 inch 42U Rack 19 inch			
▲ ⊻ ⊤ €	ORLE-POP 01 UTEL Equipment Testing Configurations Routes	3 Rack Position:	None		v	
P	Umer Equipment ▼ Racks ▼ Racks 19 Inch 42U Rack 19 Inch					-
ф м	ODFs CCJ Closures	3 1	2	3	4	
KML	Cables Network Locations	5	6	7	8	~
UGEO	Preallocated Networks F Orleans Aeroport - AERO	4	Add Cancel			

- 5. Choose the **Equipment** you would like to add to the Rack
- Select the slot you would like to place the Equipment in. In this example we will place the OTDR in the 14th 'U' slot.

Create Racks



The ODTR is now added to the rack, and this can be moved at any time - space providing.

U	tel "	Rack 1 42U Rack 19 inch	Auto Clear Print
2	Search Q 🗘 🕄		+ Add / Remove Equipment
А Н	▼ S France ▼ M Centre	Rack Position:	Filter Equipment: 24 host class selected
Å	✓ ◆ Orleans - ORLE ✓ ORLE-POP 01	Equipment: -	Select Equipment:
₩ T	 UTEL Equipment Testing Configurations 	42U Rack 19 inch	LA(004) FS-16 (N(001) OTDR 903) LA(004) FS-16 (N(001) OTDR 903)
C P	Routes Other Equipment	1 2 BPE 0PT-01	LA(005) FS-16 (N(001) OTDR 903) LA(005 FS-16 (N(001) OTDR 903) LA(007) FS-16 (N(001) OTDR 903) LA(007) FS-16 (N(001) OTDR 903)
E	▼ Racks ▼ Racks 19 Inch 42U Rack 19 inch	3 4 N[001] OTDR 903	LA(003) FS-16 (N(001) OTDR 903) LA(0101) FS-16 (N(001) OTDR 903) LA(011) FS-16 (N(001) OTDR 903)
⊕ M	ODFs	5 LA[064] FS-16	LA[012] FS-16 (N[001] 01DR 903) LA[013] FS-16 (N[001] 0TDR 903) LA[014] FS-16 (N[001] 0TDR 903)
K MI	Cables	6 LA[001] FS-16 7 LA[002] FS-16	LA[015] FS-16 (N[001] OTDR 903)
	 Network Locations Preallocated Networks 	8	

11.1 Add or Edit additional Equipment

- 1. Expand the Add/Remove Equipment Panel view
- 2. Add any Blanking Panels, Generic Panels and Shelves that are available in the Equipment list.

u	tel "	Rack 1 42U Rack 19 inch				Auto Clear Print
	Search Q C		1 — Add / Reme	ove Equipment		
н	Centre	Blanking Panels	2 Add	Blanking Panels	~	Remove
A	▼ I Orleans - ORLE	Blanking Panels		Conorio Banolo		
А	▼ ORLE-POP 01	Blanking Panel 1U 19 Inch	Add	Generic Parlets	•	
141	UTEL Equipment	Blanking Panel 20 19 Inch Blanking Panel 3U 19 Inch	Add	Shelves	~	
Т	Testing Configurations	Blanking Panel 4U 19 Inch				
	Routes	Blanking Panel 5U 19 Inch Blanking Panel 6U 19 Inch				
	Other Equipment	Rack Fosition. 2		Filter Equipment:	24 host class selected	~
	▼ Racks	Equipment: -	<u>^</u>	Salast Equipment	Disease Calent	~ □
	▼ Racks 19 Inch			Select Equipment.	Please Select	• •
E	42U Rack 19 inch	/1911 Rock 10	inch			
•	ODEs	420 Hack 19				
м	CCI Closures	1				
•	Cables	2 BPE OPT-0	1			

1. Add the Equipment with the required Name.

Create Racks

U	tel			, i	Auto Clear Print
-	Search Q 🗘	Please enter Blanking Panel	1U 19 Inch Name: name	<u>^</u>	
А Н	▼	* Blanking Panel 1U 19 Inch Name:	Blanking Panel for PSU		- Decrement
A A	▼ FOrleans - ORLE ▼ ORLE-POP 01	1	Add Cancel		Remove
1.7	UTEL Equipment	Shelves	Add	Shelves	Remove

- 1. After adding the equipment they will then become available in the **Select Equipment** drop down.
- 2. You can add multiple items at once by ticking **Multi Selection** box Select the items in the drop down, in order of their placement.
- 3. The equipment will **slot** into the Rack if adequate space is available.
- 4. Shelves will be added to the tree as further equipment can be added to them with vertical slots, in this example there will be 1x 1U opening available.
- 5. Pressing Auto Clear will clear the whole rack and all the equipment will be added to the Select Equipment drop down to reassign.

At this point the equipment added from this screen can be removed from their respective drop downs.

u	tel "	Rack 1 42U Rack 19 inch	Auto Clear Print
-	Search Q 🗘 🕄	— Add	d / Remove Equipment
A	✓ ● France ✓ ■ Centre ✓ ▲ Orleans - ORLE ✓ ORLE-POP 01 ✓ UTEL Equipment	Blanking Panel 1U 19 Inch Add Generic Panels Add 1U Shelf 2S Y Add	Blanking Panels Romove Generic Panels
T P	Testing Configurations Routes Other Equipment Racks	Rack Position: 2 Equipment: 1U Shelf 2S Rack1	Filter Equipment: 24 host class selected Select Equipment: 1U Shelr 2S Rack1
E M	Racks 19 Inch 42U Rack 19 Inch 1U Shelf 2S Rack1 5 ODFs	42U Rack 19 inch	Please Select 10 Shelf 25 Reakt Blanking Panel for PSU LA[004] F5-16 (N[001] OTDR 903) LA[004] F5-16 (N[001] OTDR 903) LA[004] F5-16 (N[001] OTDR 903)
KML P UGEO	CCJ Closures Cables ► Network Locations Preallocated Networks	2 BPE 0PT-01 3 N[001] 0TDR 903	LA(003) F5-16 (N(001) (DTR 903) LA(007) F5-16 (N(001) OTR 903) LA(007) F5-16 (N(001) OTR 903) LA(008) F5-16 (N(001) OTR 903) LA(001) F5-16 (N(001) OTR 903) LA(0101) F5-16 (N(001) OTR 903)
R	 Porteans Aeroport - AERO 	CA[064] FS-16 6 LA[001] FS-16 7 LA[002] FS-16 8 6	LA(012) FS-16 (N(001) OTDR 903) LA(013) FS-16 (N(001) OTDR 903) LA(014) FS-16 (N(001) OTDR 903) LA(015) FS-16 (N(001) OTDR 903)

- 1. To see details of the shelf click on the number of the shelf on the rack and a **pop up** will be presented.
- 2. To edit the placement of the equipment click on the equipment on the rack and an **x** will become visible.
- 3. Click on the x and the equipment will be removed from rack, and added back to the drop down.
- 4. The shelf will be added under the rack, in the tree, that it has been placed in.

U	tel	Auto Clear Print
-	Search Q 2	
H H	 ♥ France ♥ ■ Centre 	2 74 host class selected
A A	GRLE-POP 01	nt: Piease Select 🗸 🔍 🌖
K.ª ⊤	UTEL Equipment Testing Configurations	ок
C P	Routes Other Equipment	
E	Racks Racks 19 Inch 4211 Rack 19 Inch	20 10 Shelf 2S Rack1 2 X
⊕ 	1U Shelf 2S Rack1	

To **add** equipment into the shelf - select the shelf in the tree. The process will be the same.

As soon as you have created a cable from the POP then you can complete the set up of the route within the POP.

Note: Cables can be created without the Map, in Network Locations, if by any chance Map/Project is not enabled.

Cables can be easily created via the GIS Mapping function which will be covered in GIS Mapping Data Build Guide.

Click on an item on the map from which you wish to start creating your cable from. Click on the **Create Cable** button.



Select End Item, option will be presented if an existing joint closure exists.



Some cables can be created without the need of a duct, but due to the fact that the cable is not known at this point the option is presented.

Select Yes to use the Physical Duct, and No if not.

In this example we are using a duct.



Click on the **Green Target** on the correct path, as there might be multiple paths to the point seelcted. If there is a *Microduct* or *Multiduct* within a *Singleduct* path, then all items will be presented to select. For this example we are using the Multiduct.



The option to choose the **tube** that the cable is to lay in is then presented.

Select the Tube required to use, any crossed through means that the tube is already used. The tube selected will be displayed on the highlighted section chosen as the cable path.

With a cable along multiple ducts, the Advanced Settings 'Auto Select Next Tube' will select the ripple down the same tube selected in the first instance;

On allows each click of the path to use the same tube, without presenting the tube pop up after the first selection.

Off allows you to choose the tube you need to use; if they are not the same throughout each section of duct.



Having chosen the tubes, the user is prompted to **Edit** to navigate to the cable form, **Edit Tube**, or **Cancel**.



Selecting Edit Tube will allow the user to edit any tubes selected along the path. 'Cancel' to exit cable creation all together. When creating cable via the button, rather than from the toolbar, the user needs to select the cable type in the form.

If you have the 'Default Name' enabled in your user account a suggested Cable Name will be filled in for you, once you have filled in the desired options.

Any field with a * before the name means it is a compulsory field and you must input something here e.g. **Cable Name*.

When you enter text here, this will then turn the red marker line at the start of the field to green.

Only when all the lines are green will the Add button appear orange allowing you to press and save your entry.

Create a Cable Name according to your <u>Naming Convention</u> জে. Select a Cable Type from the drop-down menu.

u	tel "	Cable	\$ ؟
2	Search Q 2	* Cable Name:	ORL101::ORL101-PDP-FW10-01_2
*	▼	* Cable Type:	Please Select Cat: 🛩 🗌 Order By Name
н	▼ ⊨ Centre		Cable 18 Fiber (1tx18f)
	Orleans - ORLE	Cable A-END	External Cable 24 (2tx12f)
A	ORLE-POP 01		Micro Cable 24 Fiber (2tx12f) Micro Cable 24 Fiber (1tx24f)
<u>10</u>	 Network Locations 	* Option Type:	Cable 36 Fiber (1tx36f)
Т	▼ Cabinets	* Type:	Micro Cable 36 Fiber (3tx12f) Cable 48 Fiber (1tx48f)
C	ORL101		External Cable 48 Fiber (4tx12f)
Р	SCD01	* Location:	Retractable Cable 48 (24bx2f)
	Manholes	Enclosure 2:	Micro Cable 48 Fiber (4tx12f) Cable 60 Fiber (1tx60f)
E	 Zones Cablea 	* Enclosure 1:	Cable 72 Fiber (1tx72f)
۲	Produces		Micro Cable 72 Fiber (6tx12f)
м		1	Cable 96 Fiber (1tx96f) Micro Cable 96 Fiber (8tx12f)
	Oneans Aeropon - AERO	Cable B-END	Cable 108 Fiber (1tx108f)
KML		GUDIO D'END	Cable 120 Fiber (11X120f)
P UGEO		* Option Type:	Joint Closure
-		* Location:	Orleans
R		* Zone:	None
LL		* Manhole / Pole:	ORL101-PDP-FW10-01
۶P		Joint Closure Option:	Existing Joint Closure
5		* Enclosure 2:	JC_ORL101-PDP-FW10-01_ORL101::ORL101-PDP-FW10-01
NOC			
9		Network Status:	Available
		Operational Status:	Available 🗸
CAP		Predicted Length (m):	Decimal
?		Actual Length (m):	16.10
Help		Cable Notes:	
C +			
LO			
			Duct Tube
			Add Add and Create Next Section Cancel

The 'A END' of the cable is the start of the cable, building from the Central Office out towards the Customer.

The B END is the end of the cable.

The details will automatically be filled in from the point you chose to create the cable from.

If the cable starts or ends at a Cabinet or POP, then the type defaults to Patch Panel/Cassette, and can be easily modified to the following options in the drop down.

Cable A-END			Cable A-END		
	* A END Option Type:	Patch Panel / Cassette		* A END Option Type:	Patch Panel / Cassette
	* A END Type:	24 Way LC-APC Pigtail Patch Cassette		* A END Type:	24 Way LC-APC Pigtail Patch Cassette
	* A END Location:	Please Select A END Type 12 Way SC-APC Pigtail Patch Cassette		* A END Location:	Orleans
	A END Enclosure 2:	24 Way LC-APC Pigtail Patch Cassette		A END Enclosure 2:	SC01
	* A END Enclosure 1:	48 Way LC-APC Pigtail Patch Cassette		* A END Enclosure 1:	72 Way Patch Group 🗸
					Please Select A END Enclosure 1 72 Way Patch Group
able B-END			Cable B-END		144 Way Patch Group 216 Way Patch Group 288 Way Patch Group

The default is to a New Joint Closure if Manhole/Pole was selected, or Existing if you chose to use an existing Joint Closure in the Manhole/Pole.

B END Joint Closure Option:	New Joint Closure	
* B END Enclosure 2:	4 way Closure	~
	Please Select B END Enclosure 2 4 way Closure	
Network Status	Dome Closure 12F	
Network Status.	Generic Closure	
Operational Status:	Available	~

Choose the appropriate **Network Status** and **Operational Status** of the Cable using the drop-down menus provided.

The default being Available if created directly from the Map function.

If created from Projects; the status will be Planning and Unavailable.

There are two more optional fields to complete: *Predicted Length* and *Notes*.

There is an option to **create multiple cables** if intermediate Manholes/Poles are on the duct route, that the cable is getting laid into.

Selecting this option automatically creates Joint Closures, including their splices, and individual cables between these points.

	Duct Tube	
Create Multiple Cables:		
* Multiple Cable Enclosure 2:	4 way Closure	*
	Add Cancel	

Select **Duct Tube** to see list of tubes selected - this helps if the cable is laying in multiple ducts.

AL	ORL101::ORL101-PDP-F	W10-01_3 Duct Tubes		
EO. Preall	Duct Name †↓	Duct Tube ID †↓	C Duct Equipment †↓ All ✓	Close
► = Orlear	ORL101 - ORL101-PDP-FW10-01 2	Tube In 03	12/10mm Multiduct 4 Way	
		« « »	>> 30 ~	Total Records: 0
P			Duct Tube	Section Cancel

To save the cable, select the Add button. The Add and Create Next Section button will present you with another form to enter details for the next section of cable.

FastLight will build this cable into your Network which may take a couple of seconds. The Cable will show in the Tree, along with the Joint Closures created in the relevant Manholes.

Cables can edit their tubes at any time by navigating to **Details** (either via Map, Tree or Element), and select Duct Tube 'Change'.

u	tel	III ORL1	01::ORL101-PDP-FW10-0	01_2	Split Cable Analysis Slack Back
.	Search Q	Detai	ls Cable Fibres Cable	Route	
А Н	▼ S France ▼ Centre		* Cable Name:	ORL101::ORL101-PDP-FW10-01_2	
A	Image: A contract of the second se		Network Status:	Available 🗸	•
A	ORLE-POP 01 Network Locations		Operational Status:	Available 🗸	•
T	▼ Cabinets		Predicted Length (m):	Decimal	
Ċ	ORL101 SCD01		Actual Length (m):	16.10 Measure	
P	Manholes		Cable Notes:		
	Zones				
E	▼ Cables				
•	Access Cables				
M	ORL101::ORL101-PDP-FW10	-01	Start:	ORL101	
•	ORL101::ORL101-PDP-	FW10-01		San Chego (1993)	
KML	ORL101::ORL101-PDP	-FW10-01 2	End:	ORL101-PDP-FW10-01	
₽ UGEO	☑ ORLE101-SDP-BB-01-02:: BB-01-01_F4	Details	End Joint:	JC_ORL101-PDP-FW10-01_ORL101::ORL101	-PDP-FW10-01
	Preallocated Networks	Fit In Map	Enclosure Mapper:	Orleans	
R	Orleans Aeroport - AERO		Cable Type:	Cable 12 Fiber (1tx12f)	
			Cable Sheath Colour:	red Change	
۶P			Duct Tubes:	Change Save Save & Back Reset	

Duct Tube drop down shows the options to choose another tube.

The ducts that have been auto selected will be highlighted, with the options not including a duct that has already been selected (and occupied).

~	P ORLE-	POPUI		Ausilabla	**
₩ T	▼ Netwi ▼ C	ORL101::ORL101-PDP-F	W10-01_2 [Cable 12 Fiber (1t	x12f) Duct Tubes	
P P				Auto-Select Duct Tube ? 🗹	Close
E E	► M ► Z	Duct Name 1↓	Duct Tube ID ↑↓	Duct Equipment ↑↓ All ~	Action
Ф м	• •	ORL101 - ORL101-PDP-FW10-01 2	Tube In 02 V Please select tube	12/10mm Multiduct 4 Way	Change - 🕤
♥ KML			Tube In 01 Tube In 02 Tube In 03		
P UGEO			Tube In 04		
R R	Prealle F 🖛 Orlean				
پ SP					
			« < 1 > »	30 ~	Total Records: 1
F TRT					
Ê					

All the details displayed in the summary can be directly edited on this screen. The tubes can be modified at any point. Select from the drop down, and then 'Validate'.

If the Duct is not big enough, then select 'Change' to select a bigger option.

₩ T	▼ Netwo ▼ C	ORL101::ORL101-PDP-F	W10-01_2 [Cable 12 Fiber	(1tx12f) Duct Tubes	
P P				Auto-Select Duct Tube ?	Close
E E	► M ► Z	Duct Name †↓	Duct Tube ID 1↓	Duct Equipment 1	Action
⊕ M	• 0	ORL101 - ORL101-PDP-FW10-01 2	Tube In 02 V	12/10mm Multiduct 4 Way	Change - O
KML				12/8mm Multiduct 12/8mm Multiduct	: 7 Way : 8 Way
P UGEO				12/8mm Multiduct 12/8mm Multiduct	12 Way 19 Way
R	Preall			12/8mm Multiduct 12/10mm Multiduc	: 26 Way ct 2 Way
	1.14			12/10mm Multiduo	ct 3 Way

Should you make any changes, the Save button will highlight orange to remind you to save.

A cables information can be viewed at any time. Clicking on a cable presents a **pop up**. Hovering over the orange name will present a **table** (similar to Google map).



If any **help** is required to understand the rules around creating with different types of cables - the *Help button on the top right of the form* when creating a cable will present a helpful pop up.

There is also help for all items on the map; select the ? or press h on your keyboard.



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12.1 POP TAF Out Connections

The routes path needs to be manually set between the TAF and the cables' Patch Cassette.

Select the POP of the required route in the tree.

1. Select the TAF Out Connections button, or right click on the POP in the tree,



- 2. Click on Save once you have finished connecting up the paths you require.
- Auto Create will connect all available one-to-one paths (if no connections have been made), and Auto Clear will clear all free connections.
- 4. Any **ports** that are *green* indicates that those routes are already *In Service* and no connections can be made.
- 5. It is able to delete links made by clicking the red cross. To access this just hover over the patch cord.



When a route is already *In Service* the user will need to *Suspend* the route to modify it. The option is presented in the Connection Screens for ease of use.

- 1. Adding (or removing) connection to a network connected to a route In Service
- 2. Select **Save** and a message is presented indicating the route is *In Service*
- 3. A 'Suspend' button is presented. Select it and then Save the connection.
- That same button will have 'Set In Service' to reset it.



1. A helpful guide to *Connection Screen* colouring is found via the ? button. 2. The **tabs** have both Connection and Ports to view.



12.2 Connecting Cables

Within a Cabinet, Manhole Joint Closure/CBT, Pole Joint Closure/CBT, Distribution Point, Network Termination or a POP where cables are connected, you can draw in the connections between the cable ends to show how it's been spliced or connected together.

From the tree navigate to the name of the Network Location you wish to modify/view.

Click the **Connections** button in the top right-hand corner of the screen.

There is also an option to hyperlink to the **Connections** screen (and Details) upon right clicking on the name in the tree.

U	tel "	Street Cabinet ORL101		Slack Connections
-	Search Q 2	Details Cables		
м н	 ♥ France ♥ ■ Centre 	* Display Name:	ORL101	
A A	Criteans - ORLE ORLE-POP 01	Category Equipment Type:	Cabinets	
₩ т	 ▼ Network Locations ▼ Cabinets 	* Network Status:	Available	
P P	F Connections 01_	* Operational Status:	Available	
e E	p Details 01_ 3 course	Notes:		
е м	PGRP_ORL101::ORL101-PDP-FW10-01 A-END			
KML	SCD01 Manholes	Geo Data:	Change	
P UGEO	 Zones Cables Poles 		Save Delete Reset	

Click on the left-hand cable and drag across to the right-hand side to create a connecting cable.

Search Q <th>ate Auto Clear Save</th>	ate Auto Clear Save
Image: Splitter s Add Splitter s Remove Image: Splitter s Add Preallocated Networks Remove Image: Splitter s Add Image: Splitter s Remove	
H Y ⊯ Centre ▲ Y Orleans - ORLE ▲ > ORLE-POP 01 ▶ ORLE-POP 01 ▶ Preallocated Networks Y Vetwork Locations T Y Cabinets Y ORLINE	
▲ ▼ ¥ Orleans - ORLE Splitters Add Splitters Remo ▲ ▶ ORLE,POP 01 Preallocated Networks Add Preallocated Networks Remo ▼ Network Locations Add Terminal Filters Add Remo ▼ ▼ Cabinets Terminal Filters Add Terminal Filters Remo	
A ► ORLE-POP 01 Image: T ▼ Network Locations T ▼ Cabinets ▼ ORL:01	
✓ Network Locations Terminal Filters Add T ✓ Cabinets Terminal Filters Remote C* ✓ ORL 101 Compared to the second to	
T Cabinets Cabinets V Add Terminal Filters V Add Terminal Filters V Remot	
	AC .
P Pokr_Oklion.oklion.PDP+PWI0-01_	
E 3A-END	
All Gener Faller All Const Faller All	~
A-END A-END	
PGRP_ORLE-POP 01::ORL101_F24 B-E	
UGEO 7 7 101-F03 F03 1 101-F03 F03	
Zonies For Out T01-F04 F04 Out T01-F04 F04	
P Caulty FOS Out 701-FOS O	
Poiss Poiss Pione	
Free incase vieworks	
■ F09 Out T01-F09 Out T01-F09 F09 ■	
PA_ORLEPOPERIORLIGI_FZAB In T01-F13 F13	
NOC Dut T01-F01 Dut T01-F01 D	
Fi2 Out 701-F02 In T01-F15 F15	
F05 Out T01-F05 0 0 1 T01-F18 F18	
CAP 60 Out T01-F08 0 10 101-F19 F19	
2 F07 Out T01-F07 Out T01-F07	
Help FUG OUT 101-F05 FUG OUT 1	
F10 OutT01-F10	
LO In T01-F24 F24	

You can add Splitters by selecting the size of the Splitter from the minimized menu, naming it and clicking on Add Splitter.

Splitters	~	
Splitters		
1:16 LC-APC Pigtail Splitter		
1:16 LC-UPC Pigtail Splitter		
1:32 LC-APC Pigtail Splitter		
1:32 LC-UPC Pigtail Splitter		
:4 LC-APC Pigtail Splitter		
1:64 LC-APC Pigtail Splitter		
1:8 LC-UPC Pigtail Splitter		

Then drag the Splitter to the correct place in the diagram, and drag and drop to draw in the connections. When you have finished drawing, select **Save**.



There is the option on every Connection Screen to **double click** on the cables A-END or B-END to go to next or previous Connection Screen.

12.3 Cable Slack

Within a Cabinet, Manhole and Cables, you can add slack at each of the cable ends.

From the tree navigate to the name of the Network Location you wish to modify/view. Click the **Slack** button in the top right-hand corner of the screen.

Search Q Details Cables	
★ ♥ € France H ♥ ▷ Centre ORL101 ORL101	
Image: Control of the second secon	
✓ Network Locations Equipment Type: Street Cabinet ▼ ✓ Cabinets * Network Status: Available	
P Connections D1_	
E Details D1_	
PGRP_ORL101::ORL101:PDP-FW10-01 A-END	
SCD01 Geo Data: Change	
Cables UGEO Dutation	

Click on the **right-hand pen symbol** to modify the Slack Distance.

Enter the slack required, in meters, in the editable column.

Click on the orange tick when modified.

Close when done. The slack can be edited at any time.

A	P URLE-PU	PUI			
₩ T	▼ Network ▼ Cabi	Slacks			
P P	▼ [0				Close 💠
E		Point Name 1↓	Cable Name 1‰	Slack Dist (m)	
Ф м		ORL101	ORL101::ORL101-PDP-FW10-01	10	0
♥ KML		ORL101	ORL101::ORL101-PDP-FW10-01_2	5	 ×
Ŷ		ORL101	ORL101::ORL101-PDP-FW10-01_3		× ×
UGEO	S ► Mani	ORL101	ORLE-POP 01::ORL101_F12	0	l
R	► Zone ► Cabl	ORL101	ORLE-POP 01::ORL101_F24	0	0
E	► Pole:				
199	Prealloca				

12.4 To Edit or Delete a Cable

In Element Manager, select the cable name from the Tree.

u		SC01::BB09_S08	Increment Cable Name Delete Split Cable Analysis Stack
_	Search Q 🗢 C	Details Cable Fibers Cable Route	There are mappers stopping deletion
М Н	▼	* Cable Name: SC01::BB09_S08	
	Forleans - ORLE	Network Status: Available	~
A	 ORLE-POP 01 	Operational Status: Available	~
I~ [™]	 Network Locations 		
т	DP Locations	Predicted Length (m):	
Ċ	Distribution PointsCabinets	Actual Length (m): 🥓 Measure	
200 1	Manholes	Cable Notes:	
	▼ Cables		
E	ORLE-POP 01::SC01		
۲	SC01::BB06_F12		
м	▼ SC01::BB09	Start: BB07	
•	SC01::BB09_S01		
KML	SC01::BB09_S02	Start Joint: JC_BB07_SC01::BB09	
0	SC01::BB09_S03	End: BB08	
UGEO	SC01::BB09_S04	End Jointy IC DE00 CO1-DE00	
_	SC01::BB09_S05	End 30int: 30_BB08_3001.BB09	
R	SC01::BB09_S06	Enclosure Mapper: Orleans	
	SC01::BB09_S07	Cable Type: Cable 18 Eiber (1tv18f)	
=	SC01::BB09_S08		
LL	SC01::BB09_S09	Cable Sheath Colour: red Change	
×	Poles	Duct Tubes: Change	

To delete this cable, select the **Delete** button in the top right-hand corner, and confirm in the pop-up that you wish to delete.

If the delete is unavailable, the user can select the name to see what is connected (circled in green). Hyperlink (orange text) to any of those items, and disconnect them, before the delete can be available.

						Close	* B
Display Name †↓	Host Name	Equipment Type	Enclosure	Network	Route	Interconnection	Connected
SC01::BB09_S09 Out T01- F01	SC01::BB09_S08	Out T01-F01	JC_BB08_SC01::BB09			SC01::BB09_S09 Out T01- F01 Through Fiber In [1]	true
SC01::BB09_S09 Out T01- F02	SC01::BB09_S08	Out T01-F02	JC_BB08_SC01::BB09			SC01::BB09_S09 Out T01- F02 Through Fiber In [1]	true
			« < 1 > »	25 🗸			Total Records: 2

To change the Duct Tubes of this cable, select the Change button.

To split this cable, select the **Split Cable** button in the top right-hand corner. Note: You will need to make sure that the Manhole you are about to use has been connected to the corresponding duct path in the **GIS Mapping** section.

A pop-up will request whether you would like to Loop or Splice the cable.

The new cable will be the second section of the cable you selected to modify.

Please enter split cable details		×
Action Type Option	Loop	
	Splice	
* New Cable Name:	ORLE SC1_HH1 F72	The name is not unique
* Joint Manhole / Pole	Please Select Manhole / Pole	•
Joint Closure Option	New Joint Closure	
	Existing Joint Closure	
* Joint Closure Type	Please Select Closure Type	•
	Loop/Split Cancel	

If you **Splice** the cable then a full new Joint Closure will be created in the Manhole you selected, with patch cords automatically joining each new section with Splice Joints.

If you **Loop** the cable then a full new Joint Closure will be created in the Manhole you selected, with patch cords automatically joining each new section with Loop Joints.

	×
Loop	
Splice	
ORLE SC1_HH1 F72_S2	
HH02	
New Joint Closure	
Existing Joint Closure	
Generic Closure	
Loop/Split Cancel	
	 Loop Splice ORLE SC1_HH1 F72_S2 HH02 New Joint Closure Existing Joint Closure Generic Closure Cancel

13 Run a Test

Before a Test is allowed to proceed, the Route to be tested must be In Service.

- 1. When you select your route, the **Route Details** is viewed on a tab for each route.
- 2. When you are ready to run a test then click on the Run Test button.
- Select the Test you would like to run, or just Run the Test and the default set up on the Route Details tab will be selected.
- If the test is the first one run on a particular Test Type the default is that a Reference Test is run.
- 4. Select **Confirm** and the test will run.
- 5. If you want to create another Reference Trace then select **Create reference** and choose the type of test you require as above.



If this is the first test on the route, it will come back with a Reference Trace.

This is the model trace of the network and will be compared with future traces to detect changes. When the Test has completed a screen will open up on the **Test Log**. Each route allows more than one test to be run, which is added to the **Routes** test list in the Elements Manager and also the **Testing** tab.

Search Q 0 C Planning Diagram Map Test Log Alarm History Assign Distances Scheduler Status	
★ T ⊕ France Didels Offer Cend Email All	C 🕒 🕈
H V Centre Create Time	and the second
T T Criteans D to Ref Network Salas & Summary Ref 1 D tration	User 🗢
A VORLE-POP 01 - ORLE	
> UTEL Equipment 08/3 Image: ORLE 90001009 OOMPLETE Reference tace: There are no assigned events in your reference. GENERO_TEST 15/3-1000 10.2241 1 mins, 30 acc.	databuilder
T Testing Configurations	
T Routes Calenda Bacanter 0	Total Records: 1
SW001 SW001	Iotal Records. 1
E □ \$W001.001	
⊕ □ \$\mathbf{SW01302}	
M SW01003	
SW001004	
KILL I SW001005	
- Swoot doe	

Refer to the *Testing Guide* for further details, including assigning events.

14 Quick Guide: Naming Conventions

We know each customer is unique. Your Network is structured in a way that works for you and FastLight has been designed to work WITH your system, not AGAINST it.

Agreeing on a format for naming components in your Network should take place as part of the Network Planning stage BEFORE installation has even taken place. From the country as a whole all the way down to individual fibers within cables, everything needs to be clearly identified. Having this in place from Day 1 means it can be used from the outset in its correct form, and there will be no last minute rushed decisions which may cause problems further down the line.

FastLight can discover a fault in your system and pin point where it is if the architecture is done correctly.

We recommend naming your Location and Sub-Locations in full for complete clarity. For example, England rather than 'Eng.'

It is only once you get to POP level and beyond that abbreviations may be helpful to keep your names short and simple, yet easy to identify.

14.1 Abbreviations and Numbering

For all our naming conventions we recommend beginning with a 3 or 4 letter abbreviation. This should be a shortened version of where the POP Site is found. For example, if the POP-Location Westminster, then this could be abbreviated to WMST or WSTM.

This 4-letter abbreviation will then form the basis for all component names within it, such as the OTDR, OLT and Network names, helping you to identify any component within that POP-Location.

To allow for the maximum deployment, we suggest all numbers use at least two digits, preceding a single digit number with a zero if necessary. For example, eight would be 08.

The following sections outline UTEL's recommendations for naming components for ease of identification. This can be adapted and discussed with the customer at the pre-installation stage, but has proven to be a method that works.

14.2 UTEL Recommendations

Naming the POP XXXX POP XXXX-POP WMST POP WMST-POP Naming the OTDR XXXX OTDR XX XXXX-OTDR-XX WMST OTDR WMST-OTDR-01 01 Naming the Master Switch XXXXX -FSXX 00M XXXX-FSXX-00M **FS04** WMST-FS04-00M WMST-FS08-00M **FS08** FS16 WMST-FS16-00M WMST 00M FS32 WMST-FS32-00M FS64 WMST-FS64-00M FS128 WMST-FS128-00M Naming the Slave Switches XXXX FSXX XXXX-FSXX-XX ΧХ **FS04** WMST-FS04-01 FS08 WMST-FS08-01 FS16 WMST-FS16-01 WMST 01 FS32 WMST-FS32-01 FS64 WMST-FS64-01 FS128 WMST-FS128-01 Naming The OLT XXXX OLT XX XXXX-OLT-XX WMST-OLT-01 WMST OLT 01 Naming Test Configuration XXXX - Test - Config - XX XXXX-Test-Config-XX WMST - Test - Config - 01 WMST-Test-Config-01

UTEL's Recommended Naming Conventions

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