



System Properties Guide

Author: UTEL Training Team
Email: training@utel.co.uk

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1 Introduction

This Guide assists the System Administrator on the parameters available to set up the System Properties

Select **System Properties** from the Menu bar.

2 System Properties

The System Properties that are available to set are:
General, Session Policy, Password Policy, Email Settings, Server Settings, Advanced Settings, Project Settings, Test Types, Equipment Types and Equipment Cost Estimate.

2.1 General

The screenshot shows the 'System Properties' configuration page with the 'General' tab selected. The page has a dark sidebar on the left with various navigation icons, including 'SP' (System Properties) which is highlighted in orange. The main content area is titled 'System Properties' and contains several sections:

- General:** A 'Set for system?' checkbox is present.
- Boundary Settings:** Includes 'Boundary enabled?' (checked), 'Boundary Country' (France NEW), and 'Region Simplify Up Limit' (2000).
- Table Settings:** Includes 'Rows Per Page' (25), 'Export Delimiter' (Tab), 'Colour Even Line', 'Colour Odd Line', and 'Text Colour'.
- Route Default Settings:** Includes 'Route Popup?' (unchecked), 'Route Type' (PON), and 'Route Test Type' (GENERIC_TEST).

At the bottom, there is a status bar with navigation links like 'All Tests', 'Scheduled Tests', 'My Tests', 'Faults', 'All Alarms', and 'All Live Alarms', along with a breadcrumb 'System Properties : General'.

Equipment Name Suggestion

Item Prefix Name:

Handhole Abbrev:

Boundary Box Abbrev:

Pole Abbrev:

Cabinet Abbrev:

Report

Auto Print?

Equipment Name?

Show Length?

Display Status on printouts:

Display Start/End on printouts:

End Points Per Page:

Test

Max Traces:

Default Event Strength:

Default To System for Testing:

System Properties : General

Default To System for Testing:

Tree

'E' Tree Filter by Folder:

'P' Tree Filter by Folder:

Show Parked Project Items?

Others

Master Switch Address:

Max Character Limit:

Max File Size (in Bytes):

Auto Select Tube?

Auto Select If Single option?

Default Name:

Client Validation Enabled?

New Equipment Notification?

Country Code:

Save

System Properties : General

Set for system? when ticked; the properties set will save to the whole system, but won't override each User Preferences that has been saved.

Boundary Settings:

Boundary enabled when ticked; the user will only be able to view the Country selected in the **Boundary Country** selection.

Each Country created in the System will be added to the drop down menu.

Region Simplify Up Limit sets the maximum number of points setting a boundary outline, the default set to 2000 [min 100, max 50000]

Table Settings:

Rows per page is a table row view preference, the default is set to 25 rows [Max 250].

Export Delimiter allows user to export in either Comma, Semi Colon or Tab format.

Colour odd or even line allows user to set up the table in order to ease the viewing of each item.

Text Colour change the color of the systems text, default is set to Black.

Route Default Settings:

Route Popup? allows the user to enter a name, rather the default switch name and the moment of saving connections.

Route Type select the default Route Type to be used when auto-creating route(s).

Route Test Type select the default Test Type to be used when auto-creating route(s).

Equipment Name Suggestion:

Item Prefix Name option to add a unique identifier to following equipment in order to easily identify a grouping.

Handhole Abbrev option to have a default abbreviated prefix as part of the item prefix name when creating handholes.

Boundary Box Abbrev option to have a default abbreviated prefix as part of the item prefix name when creating boundary boxes.

Pole Abbrev option to have a default abbreviated prefix as part of the item prefix name when creating poles.

Cabinet Abbrev option to have a default abbreviated prefix as part of the item prefix name when creating cabinets.

Report:

Auto Print? when ticked; the auto print functionality will be processed, bypassing the user input of setting up print area and labels.

Equipment Name? when ticked; will show equipment name on label, instead of item name.

Show Length? when ticked; will show length when applicable.

Display Status on printouts when ticked; allows the Network Status, and Operational Status, of the item to be included in the table on the printouts.

Display Start/End on printouts when ticked; allows the Start and End of the item to be included in the table on the printouts.

End Points Per Page The number of end points to print per page. *This is helpful for the SLD auto printouts.*

Test:

Max Traces is the maximum number of traces that a user can select to display on the same trace screen, default is set to 16 [Max is 128]

Default Event Strength Select the default filter on the events trace table.

Default To System for Testing when ticked; Testing (T) will always navigate to the System node, or Country node when boundary is enabled.

Tree:

'E' Tree filter by folder selects which items to be seen in the 'E' tree.

'P' Tree filter by folder selects which items to be seen in the 'P' tree.

Show Parked Project Items? parked items will be visible in the system.

Others:

Master Switch Address Logical address, of the Primary Switch, is configurable to company preference, default is set to 64 [Max 191]

Max Character Limit is the length allowed for pop-up titles in Map, the default is set to 100 [Max is 200].

Note:

'Display Name' fields have a character limit of 150 characters.

'Name Abbreviations' and 'Prefix' fields have a character limit of 12 characters.

'Abbreviation' field has a character limit of 32 characters, but 4 is advised.

'Notes' field has a character limit of 4000 characters.

Max File Size (in Bytes) is used to set to the size limit for an uploaded file. The max allowed is 5GB.

Auto Select Tube? when ticked; allows an automatic selection of the first available tube in each path when creating cables.

Auto Select if Single option? when ticked; allows an automatic selection of the only choice available.

Default Name when ticked; allows the system to automatically fill in names for items, using Abbreviation (or Type Name) from equipment table, or start and end points for cable.

Client Validation Enabled? when ticked; an initial check will be enabled by catching invalid data on the client-side, and the user is forced to fix it straight away.

New Equipment Notification? when ticked; allows the user to get a pop up when new equipment gets added via alarm receiver.

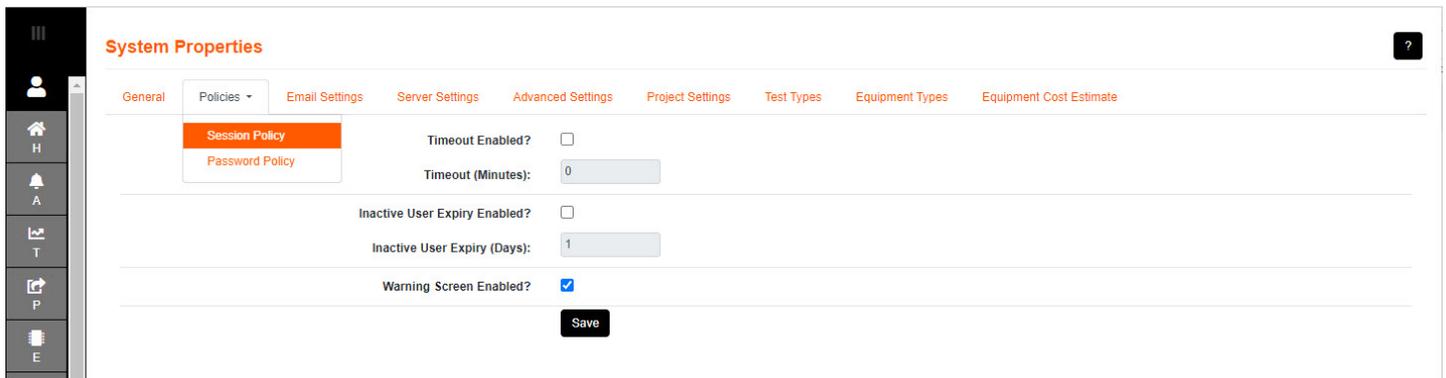
Country code needs to be set to the area the user will be receiving alarm notifications to, when SMS is supported.

Save sets new preferences.

2.2 Policies

There are two System Property policies that can be accessed: Session Policy and Password Policy.

2.2.1 Session



The screenshot shows the 'System Properties' configuration page. The 'Policies' tab is selected, and the 'Session Policy' sub-tab is active. The settings are as follows:

Setting	Value
Timeout Enabled?	<input type="checkbox"/>
Timeout (Minutes):	0
Inactive User Expiry Enabled?	<input type="checkbox"/>
Inactive User Expiry (Days):	1
Warning Screen Enabled?	<input checked="" type="checkbox"/>

A 'Save' button is located at the bottom right of the settings area.

Timeout Enabled? when ticked; it will enable the detection of inactive users (not touching the screen) and log them out.

Timeout (Minutes) controls the timeout to detect inactive users.

Inactive User Expiry Enabled? when ticked; it will enable the detection of logged out users and disable them.

Inactive User Expiry (Days) the number of days after which inactive users will be disabled.

Warning Screen Enabled? when ticked; agreement prompt will be enabled when a user signs in.

2.2.2 Password

The screenshot shows the 'System Properties' interface with the 'Policies' tab selected. The 'Password Policy' sub-tab is active. The configuration includes the following settings:

Setting	Value
Minimum Length	6
Minimum Numerical Characters Enabled?	<input type="checkbox"/>
Minimum Numerical Characters	0
Minimum Non Alphanumeric Characters Enabled?	<input type="checkbox"/>
Minimum Non Alphanumeric Characters	0
Minimum Upper Case Characters Enabled?	<input type="checkbox"/>
Minimum Upper Case Characters	0
Minimum Lower Case Characters Enabled?	<input type="checkbox"/>
Minimum Lower Case Characters	0
Repeating Character Type Limit Enabled?	<input type="checkbox"/>
Repeating Character Type Limit	0
Password Expiry Enabled?	<input type="checkbox"/>
Password Expiry (Days)	30
Maximum Failed Logins Enabled?	<input checked="" type="checkbox"/>
Maximum Failed Logins	10

A 'Save' button is located at the bottom right of the configuration area.

Minimum Length determines the minimum length of a password; defaults to 6 characters (minimum 1).

Minimum Numerical Characters Enabled? when ticked; controls whether a numeric character is required

Minimum Numerical Characters the minimum number of numerical characters required

Minimum Non-alphanumeric Characters Enabled? when ticked; control whether a character that is not a number or letter is required in a new password

Minimum Non-alphanumeric Characters the number of non-alphanumerical characters required

Minimum Upper Case Characters Enabled? when ticked; controls whether an upper case character is required

Minimum Upper Case Characters the number of upper case characters required

Minimum Lower Case Characters Enabled? when ticked; controls whether a lower case character is required.

Minimum Lower Case Characters the number of lower case characters required

Repeating Character Type Limit Enabled? when ticked; controls whether a repeating character is allowed

Repeating Character Type Limit the number of repeating characters allowed

Password Expiry Enabled? when ticked; the password will expire

Password Expiry (Days) sets the number of days before a password expires (default is set to 30)

Maximum Failed Logins Enabled? when ticked; the account will be locked after a number of failed login attempts

Maximum Failed Logins the number of failed login attempts before account is locked (default is 5)

An unspecified **minimum numerical characters**, **minimum non-alphanumeric characters**, **minimum upper case characters**, **minimum lower case characters** and **repeating character type limit** allows for the most basic level of password security.

2.3 Email Settings

System Properties

General Policies **Email Settings** Server Settings Advanced Settings Project Settings Test Types Equipment Types Equipment Cost Estimate

Primary Server Settings Enabled ?

Username:

Password:

Address:

Port:

Email Address:

Secondary Server Settings Enabled ?

Username:

Password:

Address:

Port:

Email Address:

Email Title:

Alarm Email Enabled ?

Alarm Email Title:

Alarm Email Recipient:

User Security Email Title:

User Security Email Recipient:

System Properties : email

The **Primary Server (SVR1)** must be set up for the Simple Mail Transfer Protocol (SMTP). The **Secondary Server (SVR2)** is optional as a backup.

Primary Server Settings Enabled? If ticked; the server is enabled

Username: The email account user name

Password: The email account password

Address: Outgoing mail server

Port: Outgoing SSL port

Email Address: Authenticated email address

Email Title: enter the desired title to be displayed with any emails sent out from the server

Alarm Email Enabled? when ticked; the email recipient(s) will receive emails when alarms have been raised.

Alarm Email Title: enter the desired wording for the subject of the alarm emails sent out from the server.

Alarm Email Recipient: the email address entered will receive all alarms flagged in the system.

User Security Email Title: enter the desired wording for the subject of the security emails sent out from the server.

User Security Email Recipient: the email address entered will receive all user security alarms flagged in the System.

2.4 Server Settings

The screenshot shows the 'System Properties' web interface with the 'Server Settings' tab selected. The configuration fields are as follows:

Field Name	Value
IP Address Callback	1.2.3.4
Map Tiles Path	https://(s).tile.utel.co.uk/map/overlay.png
Map Tiles Path Subdomain	abc
Map Tiles Path Secondary	https://mt(s).tile.utel.co.uk/map/secondary.png
Map Tiles Path Secondary Subdomain	0123
Auto Archive Common Log Enabled?	<input checked="" type="checkbox"/>
Auto Archive Common Log (Days)	14
Auto Archive Last Ran	2024-01-03T12:00:01.119
Enable Export of SOR File ?	<input checked="" type="checkbox"/>
Enable Export of SOR File for Scheduled Tests?	<input type="checkbox"/>

The **IP Address Callback** is used by Fastlight so the UTEL equipment can raise status reports and messages to the server.

The address is normally the public IP address of server.

These status reports are then turned into emails or north bound alarms.

Map Tiles Path points to where the OS accesses the Map Overlay, this is the source of the Fastlight Map.

Map Tiles Path Secondary points to where the OS accesses the Satellite Overlay, which is configurable to view [added feature].

Auto Archive Common Log Enabled? when ticked; auto deletes logs, and warnings, based on a set number of days. Security, and severe info, are always kept.

Auto Archive Common Log (Days): The number of days to keep in the logs. The default is 14 days.

Auto Archive Last Ran: the date the auto archive process last ran.

Enable Export of SOR File? when ticked; a SOR file will be exported, along with the standard UTEL trace format (UOD).

Enable Export of SOR File for Scheduled Tests? when ticked; a SOR file will be exported for each scheduled test route.

2.5 Advanced Settings

System Properties

General Policies Email Settings Server Settings **Advanced Settings** Project Settings Test Types Equipment Types Equipment Cost Estimate

Warranty Warning (in Days): 90

Warranty Critical (in Days): 30

Warranty Email Notification?

Warranty SMS Notification?

Warranty System Notification?

TRT Complete Test Only?

Cost Currency: £

Audit Email Resend?

Save

Warranty Warning (in Days): the number of days a warning notification will be sent before the equipment warranty expiration date. Default 90

Warranty Critical (in Days): the number of days a critical notification will be sent before the equipment warranty expiration date. Default 90

Warranty Email Notification: when ticked; a warning/critical email will be sent a number of days before the equipment Warranty date.

Warranty SMS Notification: when ticked; a warning/critical sms will be sent a number of days before the equipment Warranty date [added feature].

Warranty System Notification: when ticked; a warning/critical Fastlight notification will be sent a number of days before the equipment Warranty date.

TRT Complete Test Only? when ticked; the TRT 'List Test' table will only show finished tests (with status Faulty, Warning or Complete).

Cost Currency Enter the preferred currency symbol to be used when displaying cost. Default is '£'.

Audit Email Resend? when ticked; alarms and faulty test email notifications can be resent to the same user

2.6 Project Settings

System Properties

General Policies Email Settings Server Settings Advanced Settings **Project Settings** Test Types Equipment Types Equipment Cost Estimate

Email To Approver?

Email To Non Approver?

Show Closed Project?

Show Closed Project Task?

Show Installed Project Task?

Show Work Order Issued Project Only?

Save

Email To Approver? when ticked; all team Approvers will receive an email when a project goes into 'Seek Approval' stage.

Email To Non Approver? when ticked; all team members will receive an email when a project goes into 'Seek Approval' stage.

Show Closed Project? when ticked; closed projects will be visible in the tree

Show Closed Project Task? when ticked; closed project tasks will be visible in the tree

Show Installed Project Task? when ticked; installed project tasks will be visible in the tree

Show Work Order Issues Project Only? when ticked; only projects in works order issued phase will be visible in the tree

2.7 Test Types

Test Types can be created and modified, including the option to delete internally created Test Types.

System Properties

General Policies Email Settings Server Settings Advanced Settings Project Settings **Test Types** Equipment Types Equipment Cost Estimate

Create New Optical

<input type="checkbox"/>	Name	Is System	Is Restricted	Pulse width	Distance	Average time	Resolution	Amplifier channel	Event Detection Mode	Apd Gain
<input type="checkbox"/>	Ch4longline	✗	✗	20ns	80km	30 seconds	200cm (50MHz)	Short distance	Full	Auto
<input type="checkbox"/>	COMMISSION_TEST	✓	✗	10ns	500m	5 seconds	10cm (1000MHz)	Default	Full	Auto
<input type="checkbox"/>	CUSTOM_TEST	✓	✓	Auto	Auto	Auto	Auto	Default	Full	Auto
<input type="checkbox"/>	GENERIC_TEST	✓	✗	Auto	Auto	Auto	Auto	Default	Full	0 (no adjustment)
<input type="checkbox"/>	LONG_LINE_TEST	✓	✗	20us	200km	1.5 minutes	200cm (50MHz)	Long line	Long line	Auto
<input type="checkbox"/>	REFLECTOR_TEST	✗	✗	20ns	15km	15 seconds	20cm (500MHz)	Short distance	Quick	Auto
<input type="checkbox"/>	SYSTEM_QUICK_TEST	✓	✗	Auto	Auto	15 seconds	Auto	Default	Full	0 (no adjustment)
<input type="checkbox"/>	TONE_TEST	✗	✗	Auto	Auto	Auto	Auto	Default	Full	Auto

Selected Records: 0 Total Records: 8

Click on the required **Test** to view. The 'Is System' tests can be modified, but not deleted.

Create New test, set relevant settings and then click the **Add** button. **Cancel** to abort.

Once created; the Test Type can be **Reset** or **Deleted** by clicking on the relevant buttons.

Test Type

Name: This field is required

Pulse Width:

Distance:

Averaging Time:

Resolution:

Amplifier Channel:

Event Detection Mode:

Gain Adjustment:

Signal Compensation:

2.8 Equipment Types

System Properties

General Policies Email Settings Server Settings Advanced Settings Project Settings Test Types **Equipment Types** Equipment Cost Estimate

List of Equipment Types

Show Only Map Addable Show Only Map Displayable

Display Name	Host Class	Map Display Style	Addable	Displayable	Map Addable	Map Displayable	Map Display Type
FW3 Chamber	30229		✓	✓	✓	✓	POINT
Carriageway Box	30230		✓	✓	✓	✓	POINT
CW1 Chamber	30230		✓	✓	✓	✓	POINT

Total Records: 317

Equipment Types are all the items physically used by Fastlight. They can be modified by the customer to their preference.

The **Equipment Types** can also be set to a certain shape, and colour - including specifying new and existing.

2.9 Equipment Cost Estimate

System Properties

General Policies Email Settings Server Settings Advanced Settings Project Settings Test Types **Equipment Types** **Equipment Cost Estimate**

Add / Update Selected Cost: All

Equipment	Estimated Cost	Cost Currency	Notes	Action
<input type="checkbox"/> Extender Pole	35	£		<input type="button" value="Update"/>
<input type="checkbox"/> Light Pole	35	£		<input type="button" value="Update"/>
<input type="checkbox"/> Medium Pole	35	£		<input type="button" value="Update"/>
<input type="checkbox"/> Stout Pole	35	£		<input type="button" value="Update"/>
<input type="checkbox"/> 4 Way Closure	15	£		<input type="button" value="Update"/>
<input type="checkbox"/> 1 Port Generic ONT	4	£		<input type="button" value="Update"/>
<input type="checkbox"/> Calix 1 Port ONT	4	£		<input type="button" value="Update"/>
<input type="checkbox"/> 1:2 Generic Splitter	4	£		<input type="button" value="Update"/>
<input type="checkbox"/> 1:2 Splice Splitter	4	£		<input type="button" value="Update"/>
<input type="checkbox"/> 1:2 SC-UPC Splitter	4	£		<input type="button" value="Update"/>

Selected Records: 0 Total Records: 328

Equipment Cost Estimate allows the Planner to enter the cost of each Equipment Type in order for the Bill of Materials to print a CSV indicating how much a project is going to cost.



**UTEL Laboratories
Wolves Farm Lane
Hadleigh
Suffolk
IP7 6BH
United Kingdom**

**Tel: +44 (0)1473 828 909
Email: training@utel.co.uk**

www.utel.co.uk