

# Routine Maintenance

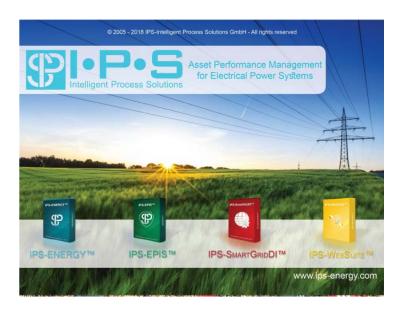
For Protection Devices in IPS

electranet.com.au



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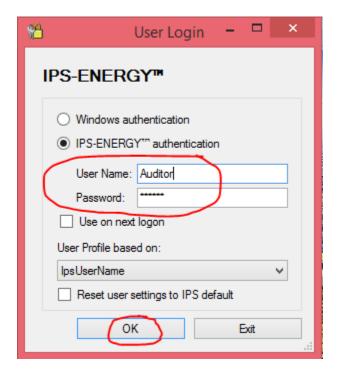


### Login as Auditor

- > Open IPS-Production via Citrix.
- > Use the following access

User Name: Auditor

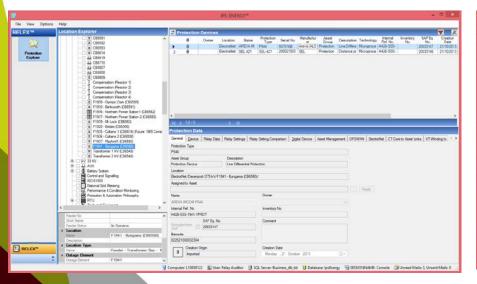
Password: xxxxxxx

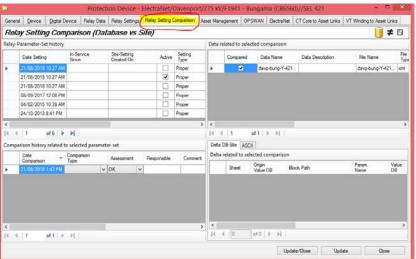




# Steps in IPS Comparison

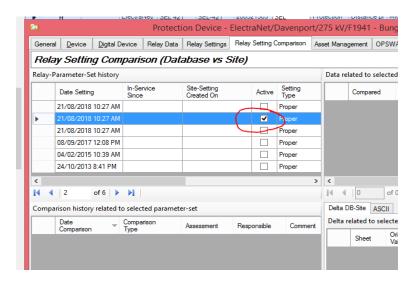
- 1.1 Select the location.
- 1.2 Select the protection device.
- 1.3 Double click device to enter edit mode.
- 1.4 In edit mode, select "Relay Setting Comparison Tab"



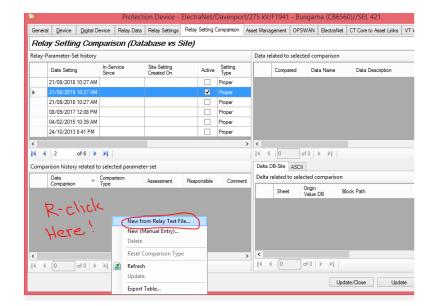




2.1 Under "Relay-Parameter-Set history" window select the "Active" Setting.

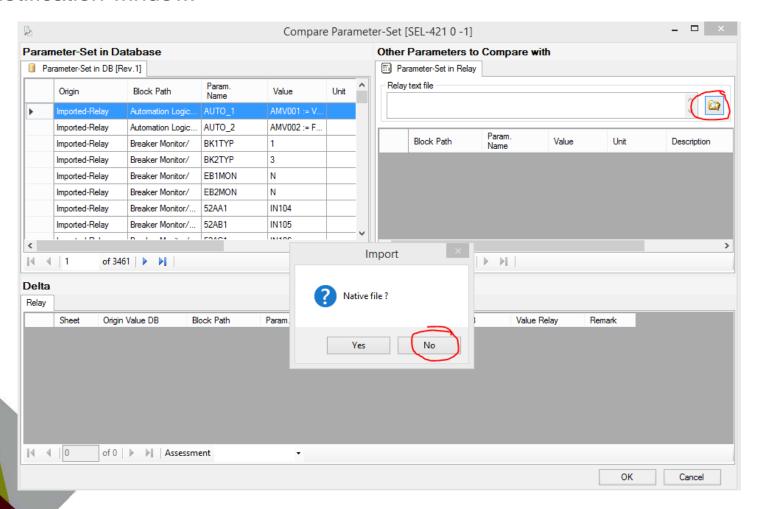


2.2 Right Click inside "Comparison history related to selected parameter-set" window and select "New from Relay Text File..."



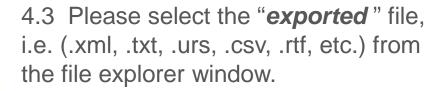


- 3.1 A new window pops up.
- 3.2 Select "File explorer" icon and click "NO" in the Import Native File notification window.

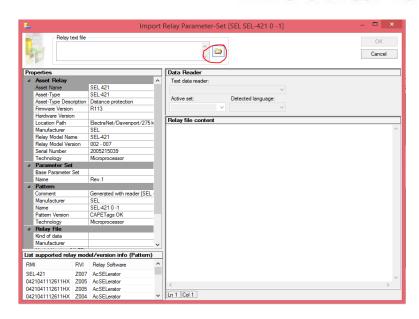


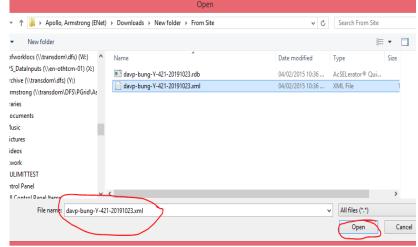


- 4.1 Another window pops up.
- 4.2 On it, select again the File Explorer icon.



Note: As found config file must be exported first to a file format that IPS pattern can read and recognise.



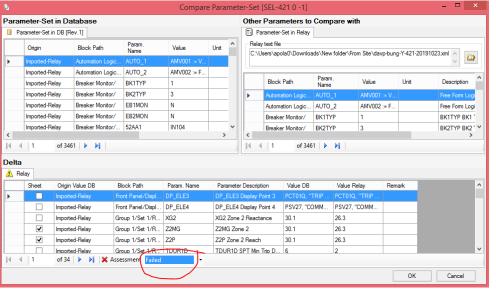




- 5.1 Click OK.
- 5.2 3<sup>rd</sup> window will disappear.
- 5.3 Setting comparison will commence.

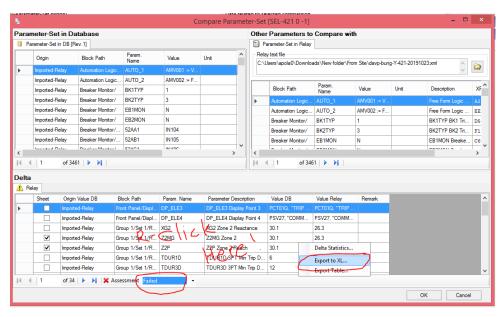
5.4 When done. Assessment below the "Delta" window will show "Failed" or "OK"

Import Relay Parameter-Set [SEL SEL-421 0 -1] Relay text file C:\Users\apola0\Downloads\New folder\From Site\davp-bung-Y-421-20191023.xml Cancel Data Reader Properties Text data reader SEI 421 SEL (XML) SEL-421 Active set Detected language Asset-Type Description ENU Location Path <?xml version="1.0" encoding="UTF-8"?> Manufacturer <?xml-stylesheet type="text/xs1" href="davp-bung-Y-421-20131023.xs1"
<Settings Name="" DateGenerated="February 04 2015 10:36:46 am" PartN</pre> Relay Model Version 002 - 007 <Group Name="Global"> Serial Numbe 2005215039 <Setting Hidden="0" CanPrint="1" ValidState="1"> Technology Microprocesso <Setting>SID</Setting> Parameter S <Description>Station Identifier (40 characters)</Description> <Range>Range = ASCII string with a maximum length of 40.</Rang <Value>Davenport F1941 to Bungama</Value> Pattern </Setting> Generated with reader [SEL <Setting Hidden="0" CanPrint="1" ValidState="1"> Manufacturer <Setting>RID</Setting> SEL-421 0 <Description>Relay Identifier (40 characters)</Description> Pattern Versi CAPETags OK <Range>Range = ASCII string with a maximum length of 40.</Rang</pre> Technolog Microprocesso <Value>BLOCKING SCHEME with CBF</Value> Relay File <Setting Hidden="0" CanPrint="1" ValidState="1"> SEL <Setting>NUMBK</Setting> <Description>Number of Breakers in Scheme</Description> <Range>Select: 1, 2</Range> AcSELerator </Setting> 0421041112611HX Z005 AcSELerator 0421041112611HX Z005 AcSELerator 0421041112611HX Z004 AcSELerator

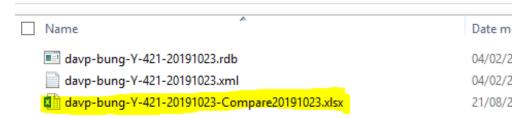




6.1 If assessment fails, right click inside Delta window and select "Export to XL.."



6.2 Rename excel comparison file for easy identification.





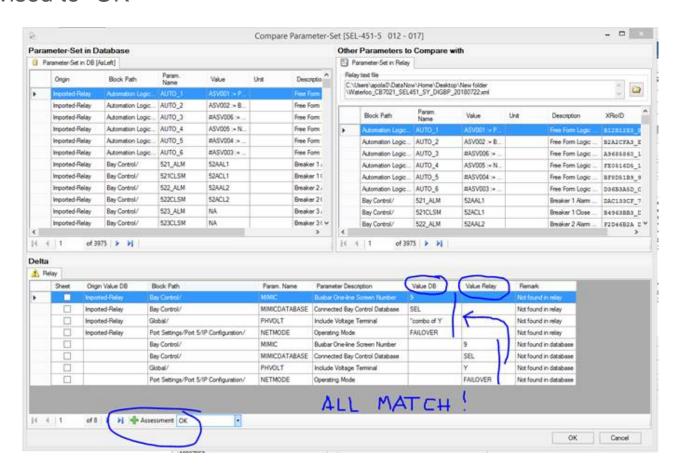
#### **REMARKS:**

Before concluding that there are changes, open the comparison excel file and review the compared values. There are instances that "blank spaces" at the end of "Param. Names" were added during the export process. IPS recognises these spaces as different fields. <u>These are not valid issues!</u>

C	D	E	/	F	G	Н
Block Path	Param. Name	Parameter Description		Value DB	Value	Remark
Bay Control/	MIMIC	Busbar One-line Screen Number	_	9	$\perp$	Not found in other Parameter-Set
Bay Control/	MIMICDATABASE	Connected Bay Control Database		SEL	ļ	Not found in other Parameter-Set
Global/Synchronized Phasor Measurement/	PHVOLT	Include Voltage Terminal		"combo of Y	1	Not found in other Parameter-Set
Group 1/Set 1/Relay Configuration/	E32	Directional Control		AUTO		Not found in other Parameter-Set
Group 1/Set 1/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine	Q,V,I)	QV		Not found in other Parameter-Set
Group 2/Set 2/Relay Configuration/	E32	Directional Control		AUTO		Not found in other Parameter-Set
Group 2/Set 2/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	2,V,I)	QV		Not found in other Parameter-Set
Group 3/Set 3/Relay Configuration/	E32	Directional Control		AUTO		Not found in other Parameter-Set
Group 3/Set 3/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine (	Q,V,I)	QV		Not found in other Parameter-Set
Group 4/Set 4/Relay Configuration/	E32	Directional Control		AUTO	<i> </i>	Not found in other Parameter-Se
Group 4/Set 4/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine C	Q,V,I)	QV		Not found in other Parameter-Set
Group 5/Set 5/Relay Configuration/	E32	Directional Control		AUTO		Not found in other Parameter-Set
Group 5/Set 5/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine (	Q,V,I)	QV	/	Not found in other Parameter-Se
Group 6/Set 6/Relay Configuration/	E32	Directional Control		AUTO	/	Not found in other Parameter-Se
Group 6/Set 6/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine	Q,V,I)	QV		Not found in other Parameter-Set
Port 5/SEL Protocol/	AUTO	Send Auto Messages to Port	\	Yes	/	Not found in other Parameter-Se
Port 5/SEL Protocol/	FASTOP	Enable Fast Operate Messages		No /	_	Not found in other Parameter-Se
Bay Control/	MIMIC	Busbar One-line Screen Number		//	9	Not found in database
Bay Control/	MIMICDATABASE	Connected Bay Control Database		/	SEL	Not found in database
Global/Synchronized Phasor Measurement/	PHVOLT	Include Voltage Terminal			Υ	Not found in database
Group 1/Set 1/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 1/Set 1/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)		QV	Not found in database
Group 2/Set 2/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 2/Set 2/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)		QV	Not found in database
Group 3/Set 3/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 3/Set 3/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)		QV	Not found in database
Group 4/Set 4/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 4/Set 4/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)		QV	Not found in database
Group 5/Set 5/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 5/Set 5/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)		QV	Not found in database
Group 6/Set 6/Relay Configuration/	E32	Directional Control			AUTO	Not found in database
Group 6/Set 6/Relay Configuration/Directional Control Element/	ORDER	Ground Dir. Element Priority (combine 0	Q,V,I)	\	QV	Not found in database
Port 5/SEL Protocol/	AUTO	Send Auto Messages to Port			Υ	Not found in database
Port 5/SEL Protocol/	FASTOP	Enable Fast Operate Messages			N	Not found in database



6.1 When confirmed that no valid changes were found, assessment shall be revised to "OK"



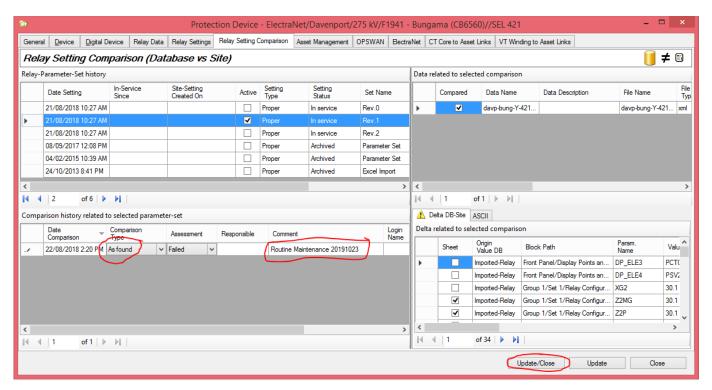
6.2 If changes are valid, just close window using "OK" button.



7.1 Complete the Comparison history window:

Comparison Type: As found

Comment: "Routine Maintenance yyyymmdd"



7.2 Click Update/Close



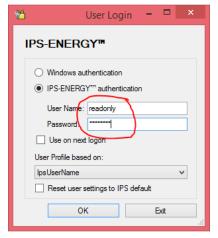
#### Noti Attachments:

- > For immediate references, the following files should be attached in the Notification when valid changes were found:
  - 1 **Original Config** file (as extracted from site)
  - 2 **Exported config** file (as converted from the original config file)
  - 3 Compare Excel file (as extracted from IPS)
  - 4 Comparison results using manufacturer's software (As required for further confirmation)



# For Other Types of IPS Logins

> Read only Access – for browsing all assets in IPS including extracting files.



- Windows Authentication for working with protection devices with RSRs (Relay Setting Request)
- Hands on training required

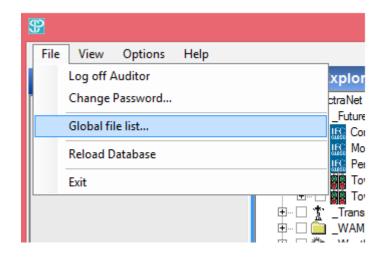


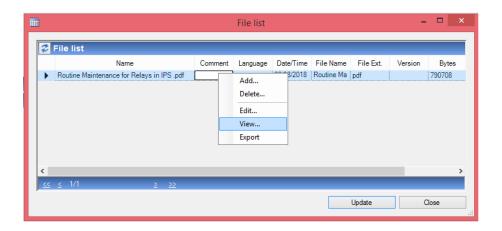


# Help Reference

> File >>> Global file list...

> Right Click then View or Export.







# Questions?

Please call or email the undersigned IPS Administrator.



# Thank you

Presenter's name: Armstrong Apollo

Phone: 08 84047516

Mobile: 0405538148

Email: Apollo.Armstrong@electranet.com.au