

IPS-Energy V1.92

RTU File Configuration Management System Process

Name: Armstrong Apollo
Position: Network Engineer

Presentation Outline

- > Introduction
- > Overview IPS-Energy V1.92
- > IPS Work Flows
- > Approval Process
- > Config File Conversion Tool
- > D20 RTU
- > C50 RTU
- > Siemens PAS
- > SEL 2240
- > HMIs – Siemens PASCC

Introduction – What's up?

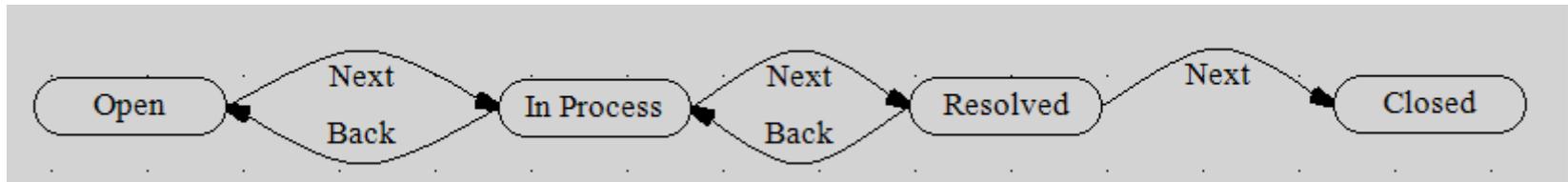
- > SPF to IPS-Energy
- > RTU files migration
- > Change approval process
- > Traceability

IPS-Energy Version 1.92 – What's new?

- > Filter/Search Profile
- > RELEX-RSR for Site Implementation
- > SWM RSR Overview
- > Setting Status
 - Being Prepared
 - Applied for Approval
 - Ready for Operation
 - In Service
 - Archived
- > More uploaded Data !

IPS Work Flows -

- > SCN – System Change Notification

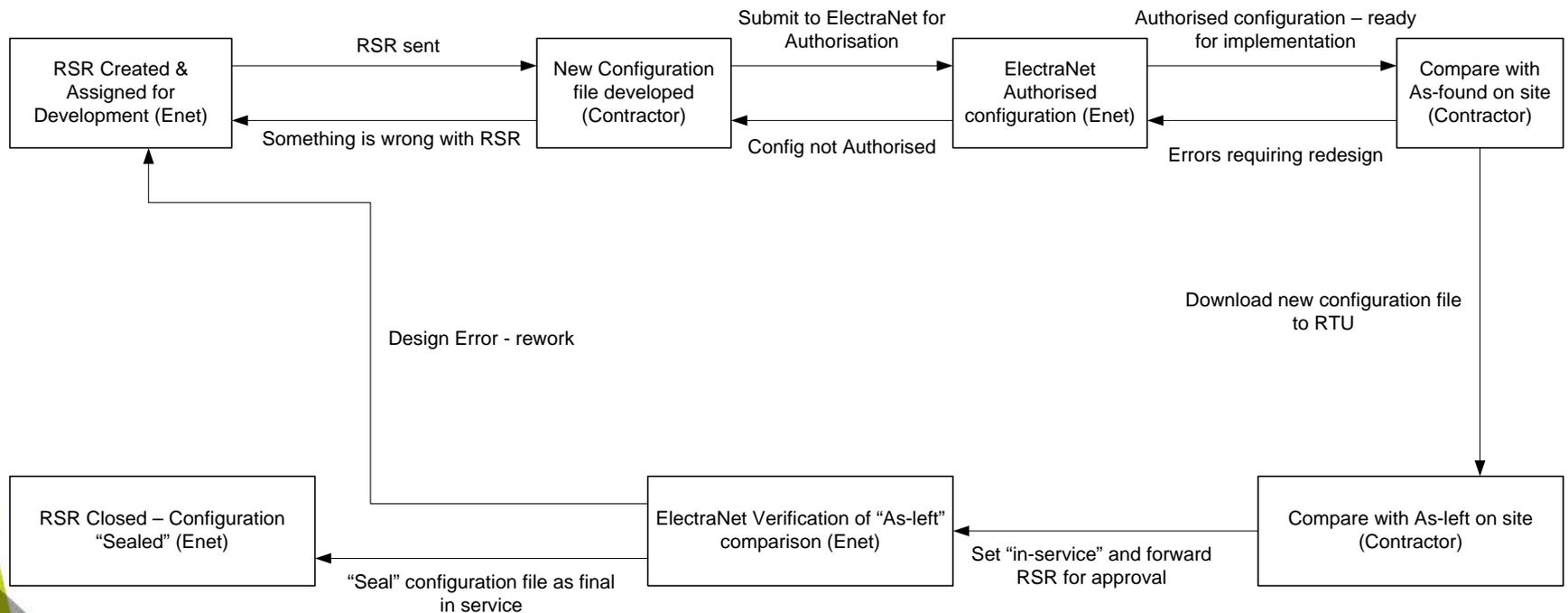


- > GSR – Global Settings Request

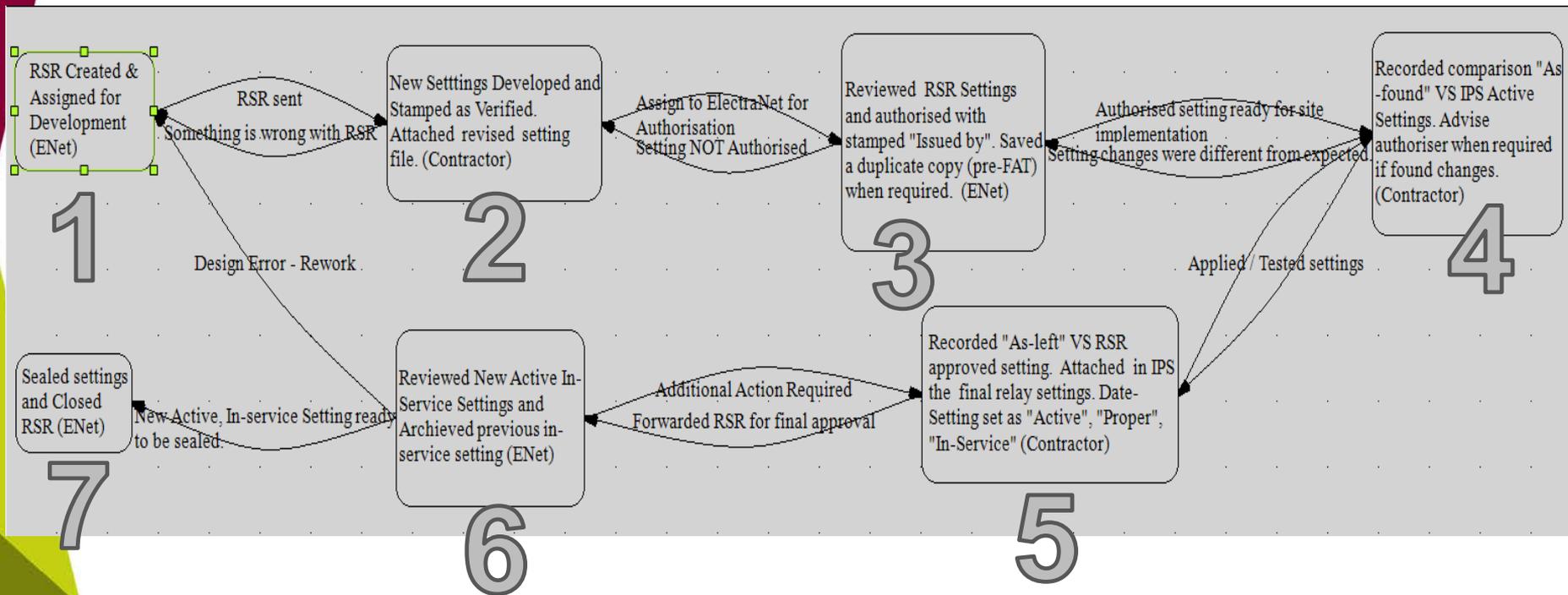


- > RSR – Relay/RTU Settings Request

RTU Work Flow Diagram (RSR)



RSR – Approval Process



RSR Details

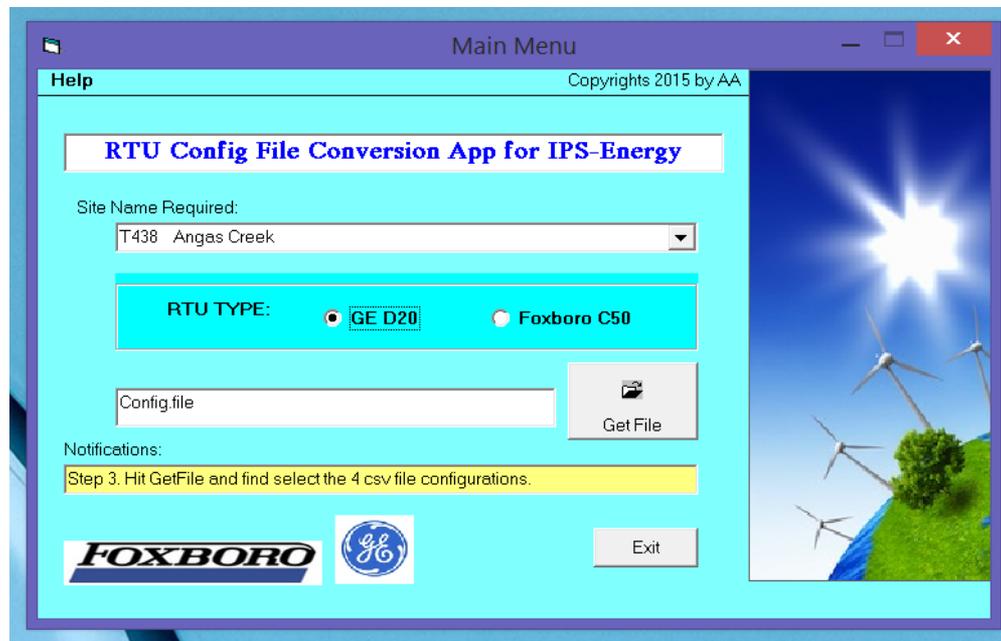
Work Flow	ElectraNet	Contractor	Setting Status
1	<ul style="list-style-type: none"> • Create new Setting-Date Revision • Attached original File Setting 		<ul style="list-style-type: none"> • <i>Provisory</i> • <i>Being Prepared</i>
1- 2		<ul style="list-style-type: none"> • Revise original Setting File • Upload revised Settings using converter • Attached revised Setting File in Settings Tab • Attached other reference documents in the General Tab • Stamp setting “Verified by” 	<ul style="list-style-type: none"> • Provisory • <i>Applied for Approval</i>
2 - 3	<ul style="list-style-type: none"> • Review submitted revised settings • If approved, stamp setting “Issued on” • If disapproved, make remarks under Memo tab of Setting and reset setting to previous status 		<ul style="list-style-type: none"> • Provisory • <i>Ready for Operation</i>
3 - 4		<ul style="list-style-type: none"> • Perform comparison of As-found VS Active Setting in IPS • If no changes – Proceed to Next Step • If changes found – Call ENet Authoriser and be advised how to proceed 	<ul style="list-style-type: none"> • Provisory • Ready for Operation

RSR Details ... continuation.

Work Flow	ElectraNet - Authoriser	Contractor	Setting Type/Status
4 - 5		<ul style="list-style-type: none"> • Apply or Revise-Apply new settings • Extract an “As-left” setting • Record in IPS: Compare “As-left” setting with “Approved” settings • Upload newly revised setting in IPS (if any) 	<ul style="list-style-type: none"> • Provisory • <i>In Service</i> • <i>Active</i>
5 - 6	<ul style="list-style-type: none"> • Review recorded Setting Comparisons • If approved, proceed to next stage. • If disapproved, close and seal RSR. Then, create a new RSR. (A new cycle begins) 		<ul style="list-style-type: none"> • <i>Proper</i> • In Service • Active
6-7	<ul style="list-style-type: none"> • Seal new Date-Setting • Close RSR 		<ul style="list-style-type: none"> • Proper • In Service • Active
<p>End of 1 RSR.</p>			

Conversion Tool

RTU_FileConverter2015.exe

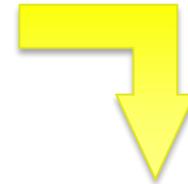


D20 RTU



▶ 438991_E.zip ▶ projects ▶ angck ▶ 438991_e ▶

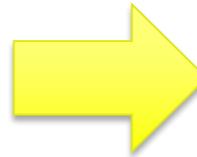
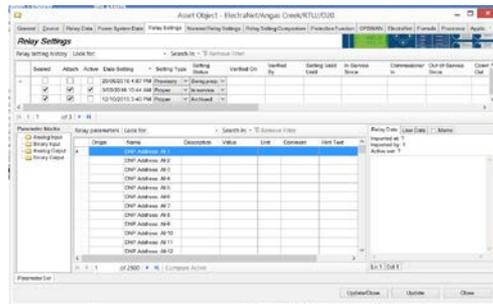
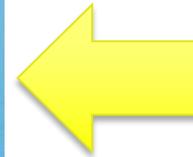
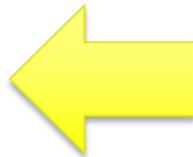
▶ b021.0



- b021mt01.csv
- b021mt02.csv
- b021mt04.csv
- b021mt05.csv



D20_ConvertedFile_Angas Creek.txt

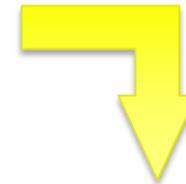
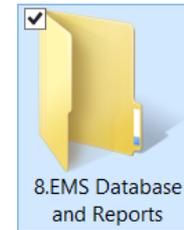


Attachment				
Name	C Language	File Last-Write-Time	File Name	File Ext.
▶ 438991_E		29/04/2016 2:04 PM	438991_E.zip	zip
350_438_DATABASE_Rev_L		29/04/2016 2:05 PM	350_438_DATABASE_Rev_L.mdb	mdb
D20_ConvertedFile_Angas Creek		3/05/2016 10:42 AM	D20_ConvertedFile_Angas Creek.bt	bt

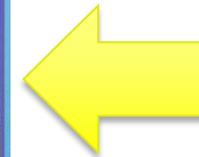
C50 RTU (Main)



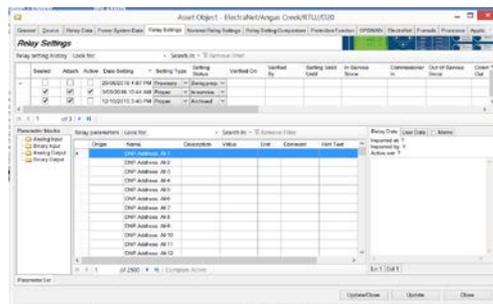
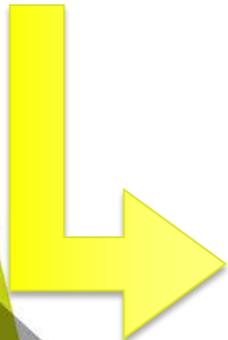
▶ 350_396_990_C50_Sys_Rev_H.zip ▶ 350_396_990_C50_Sys H



H396_EMS_20131106 Rev_H.MDB



H396_EMS_20131106 Rev_H.txt

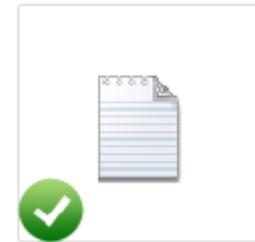
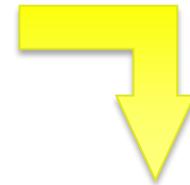


Attachment							
New...		Delete		View...		Export...	
Name	C	Language	File Last-Write-Time	File Name	File Ext.		
▶ 350_396_990_C50_Sys_Rev_H			12/06/2015 9:47 AM	350_396_99...	zip		
H396_EMS_20131106 Rev_H			6/11/2013 2:21 PM	H396_EMS_...	MDB		
H396_EMS_20131106 Rev_H			30/06/2015 10:58 AM	H396_EMS_...	txt		

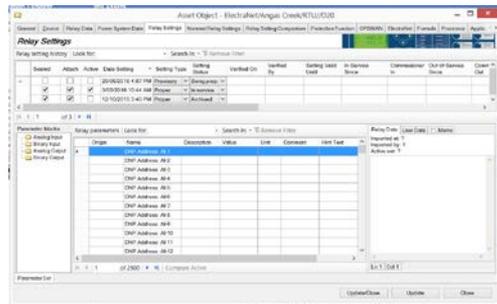
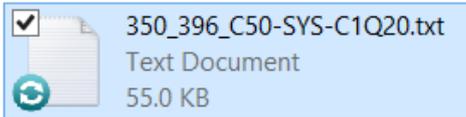
C50 (Bay RTUs)



▶ 350_396_990_C50_Sys H ▶ 2.C50 Files



C1Q20_H.CFG



Attachment				
Name	Language	File Last-Write-Time	File Name	File Ext.
350_396_C50-SYS-C1Q20		18/06/2015 11:32 AM	350_396_C50-SYS-C1Q20.bt	bt
C1Q20_H		7/11/2013 2:45 PM	C1Q20_H.CFG	CFG

Importing Converted File to IPS

Import Relay Parameter-Set [General Electric D20_ENet_V3.1]

Relay text file: \\Client\CS\Temp\D20_ConvertedFile_Templers.txt

Options:

 Import only Sheet-Parameters

 Overwrite Base-Parameters

Properties

- Asset Relay**
 - Asset Name: D20
 - Asset-Type: D20
 - Asset-Type Description: Remote I/O Module
 - Firmware Version:
 - Hardware Version:
 - Location Path: ElectraNet/Templers/RTU/
 - Manufacturer: GE
 - Relay Model Name: D20_ENet_RTU
 - Relay Model Version:
 - Serial Number:
 - Technology:
- Parameter Set**
 - Base Parameter Set:
 - Name: Parameter Set
- Pattern**
 - Comment: Generated with reader [SEL
 - Manufacturer: General Electric
 - Name: D20_ENet_V3.1
 - Pattern Version:
 - Technology: Digital
- Relay File**
 - Kind of data:
 - Manufacturer:
 - Model Number (MLFB):
 - Name:
 - R. Model Info (RMI):
 - R. Version Info (RVI):

Data Reader

Text data reader: SEL 5010 (Txt)

Active set: [] Detected language: ENU

Relay file content

Setting Scheme: Templers

RTU Brand: GE Type: D20

Date Saved: 16/09/2016 1:30:48 PM Saved by:

Group	Row	Setting Name	Setting
Binary Input	1	DNP Address: BI-1	(000001) DUM_159
Binary Input	2	DNP Address: BI-2	(000002) SCADA SET
Binary Input	3	DNP Address: BI-3	(000003) SCADA SET
Binary Input	4	DNP Address: BI-4	(000004) SCADA CO
Binary Input	5	DNP Address: BI-5	(000416) CONTROL
Binary Input	6	DNP Address: BI-6	(000006) SCADA C
Binary Input	7	DNP Address: BI-7	(000007) B_ZONE 2
Binary Input	8	DNP Address: BI-8	(000008) 33FEEDER
Binary Input	9	DNP Address: BI-9	(000009) BATTERY S
Binary Input	10	DNP Address: BI-10	(000010) BATTERY S
Binary Input	11	DNP Address: BI-11	(000011) CB4320 SE
Binary Input	12	DNP Address: BI-12	(000012) CB4320 SE
Binary Input	13	DNP Address: BI-13	(000013) CB4320 SE
Binary Input	14	DNP Address: BI-14	(000014) CB4320 SE
Binary Input	15	DNP Address: BI-15	(000015) CB4320 CC
Binary Input	16	DNP Address: BI-16	(000016) SCADA STA
Binary Input	17	DNP Address: BI-17	(000017) CB4322 SE
Binary Input	18	DNP Address: BI-18	(000018) CB4322 SE
Binary Input	19	DNP Address: BI-19	(000019) CB4322 SE
Binary Input	20	DNP Address: BI-20	(000020) CB4322 SE
Binary Input	21	DNP Address: BI-21	(000021) CB4322 CC
Binary Input	22	DNP Address: BI-22	(000022) BZONE1_2
Binary Input	23	DNP Address: BI-23	(000023) CB6032 SE
Binary Input	24	DNP Address: BI-24	(000024) CB6032 SE

Ln 1 Col 1

Take note for these selections.

Siemens PAS, SEL-2240

> Conversion Tool to be updated...

Asset Data

General | **Device** | Relay Data | Power System Data | Relay Settings | Nominal Relay Settings | Relay Setting Comparison | Protection Function | OPSWAN | ElectraNet | Formula

Relay Settings

Relay setting history | Look for: Search In: Remove Filter

Sealed	Attach	Active	Date Setting	Setting Type	Setting Status	Verified On	Verified By	Setting Valid Until	In-Service Since	Commissioner In	Out-of-Service Since	Commissioner Out	Issued On
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/05/2016 12:19 PM	Proper	In service								

1 of 1

Attachment

Name	Language	File Last-Write-Time	File Name	File Ext.	Version	Bytes	Login Name	Computer
350_581_PAS_SYS_001_Rev_J		2/05/2016 12:20 PM	350_581_PAS_SYS_001_Rev_J.zip	zip		27007081	TRANSDOM\hey0b0	NB10029396

Attachment

Name	Com	Language	File Last-Write-Time	File Name	File Ext.	Version	Bytes	Login Name	Computer
350_503_SELRTAC_A_SYS_001			6/05/2016 11:52 AM	350_503_SELRTAC_A_SYS_001.rar	rar		2934559	TRANSDOM\hey0b0	NB10027369

HMI: Siemens PASCC

> Conversion Tool to be updated...

Asset Data

Relay Settings

Relay setting history | Look for: Search In: Remove Filter

Sealed	Attach	Active	Date Setting	Setting Type	Setting Status	Verified On	Verified By	Setting Valid Until	In-Service Since	Commissioner In	Out-of-Service Since	Commissioner Out	Issued On
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/05/2016 12:19 PM	Proper	In service								

Attachment

Name	Cc	Language	File Last-Write-Time	File Name	File Ext.	Version	Bytes	Login Name	Computer
350_426_PASCC_SYS_001_REV_F			20/05/2016 11:44 AM	350_426_PASCC_SYS_001_REV_F.zip	zip		24828208	TRANSDOMhey0b0	EN-CITRIX-51

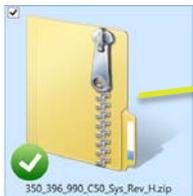
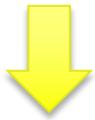
Barcode

Creation Origin: Created by User

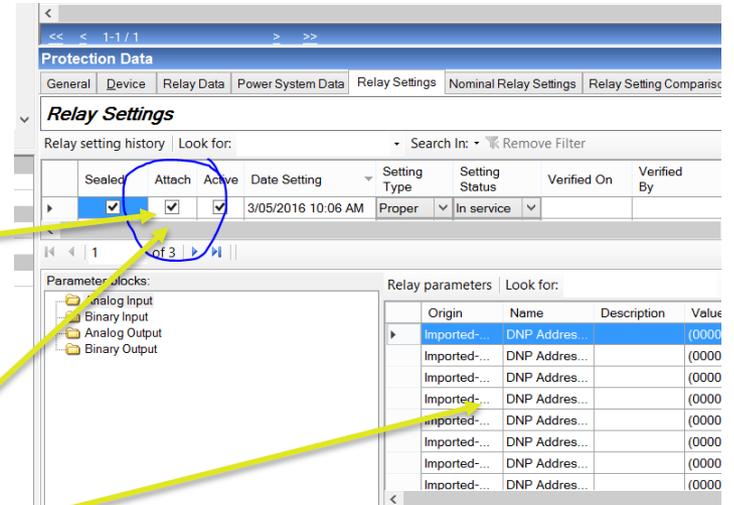
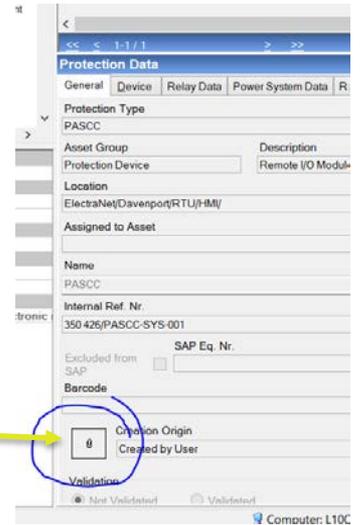
Creation Date: Thursday, 16 July 2015

Attachments: Davenport Siemens PASCC Project Revision Details - RevF.docx

Summary:



Documents



Questions?

Insert Photo Here

Thank you

Presenter's name

Phone:

Mobile:

Email: