Date: January 2015



'South Australia's electricity transmission specialist'

Workflow Process

Part 1 - Creation of SCN, GSR & RSR

Name: Armstrong Apollo Position: Network Engineer

electranet.com.au



Tasks 1, 2 and 3

- > To be done locally in ElectraNet by anyone with read/write access.
- > Task 1 Creation of SCN (System Change Notification)
 - could be created per project or per type of activity
- > Task 2 Creation of GSR (Global Setting Request)
 - could be created per ENet Authoriser
- > Task 3 Creation of RSR (Relay Setting Request)

- <u>1 RSR per relay</u>



Task1 – SCN Creation

1.01 Go to SWM Module/System Change Notifications/SCN List

IPS-ENERGY™	
File View Options Help	
SWM™	SCN List Workflow View
5	System Change Notifications
System Change Notifications	
1 E	
Workflow Definition	Right -1: L.V
5	I YANN CIICK I
Document Template Definition	K < 12//2 2 2
5	GSR Lut Workflow View
RSR Overview	Global Setting Requests Global Setting Requests Global Setting Requests Global Setting Requests State State State Time Code State Type Date Comment Date Comment Date Comment Date Comment Global Setter Setter Comm Sup Description
5	20.11.2014 Initial Open GSR 2011/2014 S New GSR apola0 apola0 heggg0
Project Manager	2 19.11.2013 Initial Open GSR 1911/2013 🧭 New GSR heggg0 Pixr Usr apola0 west0 heggg0
5	
Site Configuration	
	<u>« < 1/2 } > >></u>
	RSR Litt. Workflow View RSR Status Statistics
	Relay Setting Requests
	O Record SRI CIRI Description Status State State Time Cation Manufactur Asset Type Asset Object Commissio State Time Created 1 Name Name Name Name Name Name Name N
Asset Management	
RELEX*	
PSM"	
SWM"	
Galculation Studio	
🙀 Topology Manager"	
Administration	· · · · · · · · · · · · · · · · · · ·
»	<u>55 2 22</u>
	💡 Computer: N810027369 👔 User: apola0 📋 SQL Server: EN-ADLPD8-13 🔋 Database: IpsEnergy 🏐 SSSSIONNAME: Console 🌐 Unread Mails: 0, Unsent Mails: 0

1.02 Right Click inside area and select "SCN Creation Wizard..."



Task 1 – SCN Creation

SCN Creation W	izard		X
Step 1			
Step 1 Add SCN			
Description			9
Created By	User: apola0 (Armstrong Apollo)		
Comment			
📃 Workflow Typ			
Workflow State			
Description			>
	Reset		
Workflow Hi Created at			
<u><< <</u> 0/0	2 22		
			Next >>
		Add	Cancel

1.03 Fill out "Description" - The purpose of setting revision...

1.04 Select Workflow Type: - New SCN

1.05 Click Next>>



<< Prev

Add

Next >:

Cancel

_ 🗆 X

Task 1 – SCN Creation

1.06 Skip Steps 2 & 3

SCN Creation Wizard					2 SCN Creation Wizard
Step 2					Step 3
Step 2 Assigning SCN Typ	e and coresponding Documentation				Step 3 Assign Projects
Туре			▼ Documents		Projects
Settings Information	on Documents		• •		Project Stage Project Nr. Stage Nr. Name Name Project Nr. Stage Nr.
		Last Update			
Index - Ival	ine inte Size Comment	Jpdate			
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<u><< <</u> 0/0	2 22				<u><< < 0/0 > >></u>
		<< Prev	Next >>		
		Add	Cancel		

1.07 Click Next>> then Next>>



Task 1 – SCN Creation

1.08 Fill out Assigned to : **EXTERNAL CONTRACTOR**

SCN Creation V	Wizard				
'	SCN and send e-mail				
Assigned to			6	Assign	History
Text Message		Database has been upd			
					<< Prev
				Add	Cancel

1.09 Click Add, then OK to save new SCN.



Task 1 – SCN Creation

1.10 Fill Work Flow Type: STANDARD WORKFLOW1.11 Revised Status from "OPEN" to "In-Process"

🛃 System Change	Notification				- • ×
Main Workflow					
Data Projects		Status	Open		Proceed
Description	asdf Ø		Reset Status		
Created By	User: apola0 (Amstrong Apollo)	Processed At	-		
Created At	16/01/2015 9:35 AM	Resolved At	-		
Comment		Closed At	-		
Туре	Documents				
Assigned to	Assign History				
Text Message					
SCN ID	201501/0001				
Workflow Ty					
	ormation Documents				
Index	Name File Size Comment Last Update				*
		Mail and Messag	_	Subject User	
		Sent * 1	From To	Subject User	Name is Mail
<u><< <</u> 0/0	2 >>	<			F.
		<u><< <</u> 0/0	ک	22	
		Update and Create GSR		Update	Close

1 12 Click "Update and Create GSR..."



2.01 Fill out Work Flow Type by clicking button and selecting: **New GSR** 2.02 ... then select ... **Default Time({DD},{MM}, {YYYY}, {MM},...)**

GSR Creation Wiza	d	
Select Workflow Typ	•	
Workflow Type	New GSR	
		Next >>
		OK Cancel



2.04 Change Setter to: External Contractor from the User List

SR Creation Wizard	
GSR Data	
Global SRI	
16.01.2015.10.36.14	Change
Required Target Date	
Friday , 16 January 2015	
Comment	
Estimated Target Date Import Fiday .16 January 2015	
Comment	
Setter User: apolaŭ (Amstrong Apolio)	Change
	<< Prev Next >>
	OK Cancel

SSR Creation Wizard				<u></u>		ha (ENet)		1 64	161
		<u>8</u> Se	elect l	Jser		_	_		X
GSR Data			sers						
Global SRI			sers						
16.01.2015 10.36.14	Change	1	Jser	list					
Required Target		4		User	User	User			*
Date				Name Adminsprt0	Description	Primary Rol			
				agboe0	Enyo Agbo				
Frida Setter				antal0	Laurence A				
Comment				apola0	Armstrong				
Setter User: apola0 (Amstrong Apollo)	Reset		5	calas0	Steve Cala				
			6	Democon	External C				
Estimated Ta			7	DemoPUse	Demo Pow				E
Date	Cancel		8	Demoro	Demo Rea				
Friday			9	Epis01	EPIS Enter				
			10	heggg0	Graeme H				
Comment			11	mecijv	Victor Meci				
				monagg	Geoff Mon				
					Arthur Calv				
Setter User: apola0 (Amstrong Apollo)	Change				Anthony Fr				
					Nasir Ahm				
					George Be				
				New-BM	Matthew B				
				New-CB	Ben Carwa				
				New-CD	Dale Cavie				
					Shamir Chi				
	Prev Next >>			New-DB	David Boyc				-
	INCAL >>				John Hore		_	_	
	OK Cancel		<u> </u>	<u><</u> 1/31		2 22			
							ОК	Cano	xel

2.05 Click "Next >>"



ĺ	1	GSR	Creat	ion Wi	zard					l	_ 0	23
		GSR	List									
		Glo	bal	Settin	ig Reques	ts						*
				уре		Req.Target Comment	Est.Target Date	Est.Target Comment	GSR Status	Create time	Assigned (User)	
l		•		GSR	Dale	Comment	Date	Comment		16/01/2015		
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2.06 Click "OK



Task 2 – GSR Creation (End)

🚱 Global Setting Request	and Joseph Reputh Approxity	
General Workflow Projects		
Workflow Type New GSR	Mail and Message List	*
Description	Sent - From To Subject User Name	Is Mail To Use
•		
Global SRI		
16.01.2015.10.36.14 Change		
Required Target	<	+
Date	<u><< < 0/0 > >></u>	
Friday , 16 January 2015		
Comment	Workflow State	
	Description Open GSR	>
Estimated Target	Reset	
Date		
Friday , 16 January 2015	Created Litear Source Description	
Comment	at Transition	
	▶ 16/01/2015 apola0 > Open GSR	
Setter User: apola0 (Amstrong Apollo) Change		
Comm.Supervisor Change		
Commissioner Change		
Setting Request Creation Instruction		
Location Management		
Path Location Type		
	<u> </u>	
<u> </u>		
	Update and Create RSR Update	Close

- Setter <u>External Contractor (Company)</u>
- Comm Supervisor <u>PROJECT MANAGER</u>
- Commissioner <u>ENet Authoriser !</u>

٠

- Setter Supervisor <u>ENet Authoriser</u>
- Assigned to <u>Ext. Contractor (Person)</u>

Click > in Workflow State then select : "Develop Setting Drafts thru RSRs"

2.07 Click "Update and Create RSR..."



RSR Creation Wizard		
Step 1		
		1
Step 1 Select creation mode		
With asset		
No asset		
0		
		Next >>
		Close

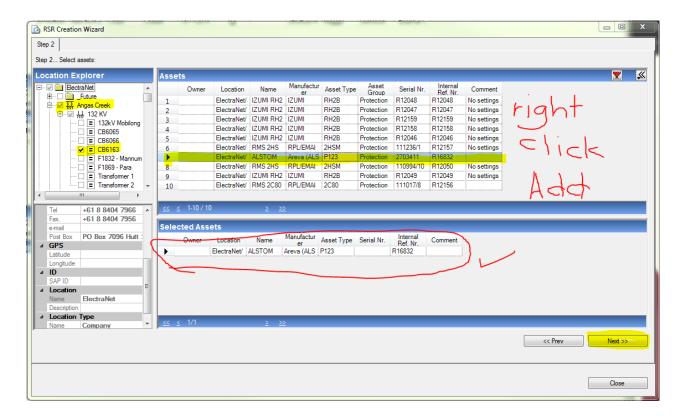
3.01 Select "With Asset" then Click "Next".



Before proceeding, please ensure the following are already done:

- 1. The relay location and relay assets are already in IPS.
- 2. New setting Tags are "Provisory" and "Being Prepared"
- 3. "Parameter" is renamed to "Version 0".
- 4. Config file and the exported file are attached.





3.02 Select location... select Asset ... Right click on Asset ... click "ADD"3.03 Add 1 asset only. Then... Click "Next>>"



RSR Creation Wizard	the loss the losses	Committe Print 1			
Step 3					
Step 3 Review of Relay Nominal Setting					
Assets					
Owner Location Name	Manufactur er Asset Type Serial Nr. Internal Ref. Nr.	Comment			
ElectraNet/ ALSTOM	Areva (ALS P123 R16832	<u> </u>			
<u> « < 1/1</u> <u>></u>	<u>≫</u>				
Nom. Setting					
Nominal Relay Settings					
Nominal relay-setting history Look for:	 Search In: ▼ T Remo 	ove Filter			
Sealed Selected Date Setting	Name Responsible Issued C	On Issued By	Approved On	Approved By Co	mment Use F Prim-:
I III III 0 of 0 ▶ ▶					
Relay parameters Look for:	 Search In: ▼ Remove Filter 				
Origin Block Path	Name Description	Nominal Prim. Unit	Nominal Sec. Unit	PVT Name Cor	mment Hint T
i4 4 0 of 0 ▶ ▶					
					<< Prev Next >>
					Close
			1		

3.04 Skip Step 3... Click "Next>>"



C RSR Creation Wizard	RSR Creation Wizard	
Sep 4	Step 4	
Step 4 Assign or create Settings		U Select Setting ElectraNet/Angas Creek/132 KV/CB6163//ALSTOM MICOM P123
Assets		
Owner Location Name Manufactur Asset Type Serial M. Internal Comment Bed Nr. Bed Nr. B	Assets	Relay Settings
	Owner Loca	Relay setting history Look for: • Search In: • Kernove Filter
right click	Electro	Sealed Attach Active Date Setting v Setting Status Verfied On Verfied By Setting Vald Until In-Service Since In
		Image: Constraint of the service Image: Constraintof the service Image: Constraintof the
Iss 5 1/1 2 22 Selected Assets and Settings Internal Connext Seting Seting Owner Location Name Mandectar Asset Type Setial Nr. Internal Connext Seting Seting <td< th=""><th>≤≤ ≤ 1/1 Selected Assets a</th><th>right click?</th></td<>	≤≤ ≤ 1/1 Selected Assets a	right click?
	Owner Loca	(m ((1 of1 ▷ ▷)
		Parameter blocks: Relay parameters Look for: Search In: Remove Filter Memo
		C OP PARAMETERS
		CONFIGURATION Configure Con
		PROTECTION G2 Imported Belay 0505 Software Version 51 Imported by: IPS-ENERGY
<u>cc ś 00 2 22</u>		HOLD AUTOMAT.CTRL Monocorted-Relay 104104 Frequency 50 Solution of the second se
<pre><< Prev head >></pre>		<pre>%RelayType: MODBUS %ModelNumber: P123B %ModelNumber: P123B</pre>
		•Firmware:
Gose		\$SerialNumber: \$IncludeReadOnly: 1
	<u><< <</u> 0/0	IncludeHidden: 1
		I of 3 b J Compare Active
		V Parameter Set
		OK Cancel

3.05 Right Click ... then

3.06 Right Click ... then select the setting with provisory and being prepared tags previously done in RELEX before RSR creation.



	al <u>D</u> evice	Relay Da	ta Po	wer System Data	Relay Set	ings (Nominal Relay	Settings	Relay Settin	g Compariso	n Elec	traNet Form				
Rela	ay Settir	ngs									40	5.8	$\overline{\mathbf{a}}$	H B B	Powell I Powell I Powell I	
elay s	etting histo	ry Look f	or:		✓ Se	arch In:	• 🐺 Remo	ove Filter								
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				Old name:												
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3.07 Ensure that it is Rev. 0 otherwise Right Click "Parameter Set" and rename to "Version 0 – Original Setting"
3.08 Click Ok.



ieneral	Device	Relay Data	Power System Dat	a Rela	y Settings	Nominal Relay	Settings F	Relay Setting	Comparison	Electra	aNet For	nula			
Rela	y Settin	gs								403			IN IN	Pade 1 Pade 1 Dicale	
elay se	tting histor	y Look for	:		- Search In	: • 🐺 Remov	/e Filter								
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ersion										/	·	_			

3.09 Ensure that attachment is checked.3.10 Ensure that attachments are correct.3.11 Click Update/Close



🕜 RSR Creation Wizard	- 0	23
Step 4		
Step 4 Assign or create Settings		
Assets		
Owner Location Name Manufactur er Asset Type Serial Nr. Internal Ref. Nr. Comment		
<u>≤≤ ≤ 0/0 ≥ ≥≥</u>		
Selected Assets and Settings		
Owner Location Name Manufactur Asset Type Serial Nr. Internal Comment Setting Setting Setting status er ElectraNet/ ALSTOM Areva (ALS IP123) R16830 160/1/2015 Provisory Being prep		
IPS-ENERGY™ 88		
≤≤ ≤ 1/1 ≥ ≥> OD Database has been updated successfully		
<< Prev	Next >>	
	Close	

3.09 Review and hit "Next" then... "OK" ... then "Close"



子 R	elay Setting Requ	est - ElectraNet/Angas Creek/132 KV/CB6065/ALS	TOM MICOM P123
Data	Message List	Relay Setting Relay Setting Comparison Workflow	Projects Dependency
SR	16.01.2015.10.3	6.14150116120902 Change	Setter Olser: apola0 (Amstrong Apollo) Change
۲	Asset		Comm.Supervisor
	Location	ElectraNet/Angas Creek/132 KV/CB6065/	Commissioner Change
	Manufacturer	Areva (ALSTOM)	
	Asset Type	P123	Workflow Type New RSR
	Name	ALSTOM MICOM P123	Workflow State
		Select Asset View Asset Reset Asset Edit Asset	Description RSR Created & Assigned for Development (ENet) !
	Setting	16/01/2015 11:34 AM	
		Select Reset	Workflow History
	Location		Created - User Source at User Transition Description
			▶ 16/01/2015 apola0 > RSR Creat
	Object Name		
De	escription		
T	уре	•	
_w	ork Order		
		Attach	
	-		
6	3		
Not	implement setting b	efore	
	Friday , 16 J	lanuary 2015	
Imp	lement setting until		
-	Friday , 16 J	lanuary 2015	
V	Ready For Site Impl	ementation	<u>« < 1/1 > >></u>
\sim	/		
-			
			Update

3.10 Review and hit "Update"...3.11 Click "Message List" Tab on top!

Fill out the following:

- Ready for Site Implementation:
- Setter: Ext. Contractor
- Comm. Supervisor **Project Manager** (or ENet Authoriser)
- Commissioner External Contractor
- Workflow Type: Select "NEW RSR"
- Workflow State: "RSR Created & Assigned for Development (ENet)"



子 Rela	y Setting Requ	uest - ElectraN	let/Anga	s Creek/132 KV	//CB6065/A	LSTOM M	COM P123		- 0	23
Data	Message List	Relay Setting	Relay S	etting Comparison	n Workflow	Projects	Dependency			
Mail	and Messa	ige List								*
	Sent 🔻	From	То	Subject Us	er Name	ls Mail	To User	To Group		
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p						_				
							Update		Close	

	lequest - ElectraNet/Angas Creek/132 KV/CB6065/ALSTOM MICOM P123
Data Message L	ist Relay Setting Relay Setting Comparison Workflow Projects Dependency
Mail and Mar	Send Mercane
Sent Sent	Send Message
	Mail
	Select Template Create Template
	From info@ips-energy.com
	To To
	Subject
	Mail Server
	10.64.96.230(Port: 25)
<u><< <</u> 0/0	Send Email Save Cance
Ľ	Update Close
	opuare close

3.12 Click "Select Template..."

3.13 Select: "When on RSR is checked "Ready for site implementation"". 3.14 Click "OK"



Relay Setting Request - ElectraNet/Angas Creek/132 KV/CB6065/ALSTOM MICOM P123	🕼 Relay Setting Request - ElectraNet/Angas Creek/132 KV/CB6065/ALSTOM MICOM P123
Data Message List Relay Setting Relay Setting Comparison Workflow Projects Dependency	Data Message List Relay Setting Relay Setting Comparison Workflow Projects Dependency
Mail and Macesson Lint	Mail and Message Mail Send Message Mail Select Template Create Template
Subject Newly Created RSR	Email
Greetings! New Relay Setting Request (RSR) has been uploaded to IPS-Energy by apola0. Please open IPS-Energy/SWM/RSR overview/Relay Settings Requests to review and update relay settings. Details are as follows: SI No: St 10.12015.10.36.14150116120902 Assert Location: ElectraNet/Angas Creek/128/UKOE0065/ Assert Name: ALSTOM MICOM P123 Assigned Setter: apola0 Assigned Setter: apola0 Mail Generer (GSR_SETTERSUPERVISOR) / (GSR_SUPERVISOR) Good day:	Image: Second State Mail Con. Kevin@electranet.com.au Vight Image: Second State Image: Second State Image: Second State Vight Image: Second State Image: Second State Image: Second State Image: Second State Vight Image: Second State Image: Seco

3.15 Click "..." button to add addressee.

3.16 Right click Edit Recipients window and select "Add"

3.17 Select Ext. Contractor Username and click "OK", "OK", "Send Email"

3.18 Finally, click "Update"... "OK"... then "Close".



Task 3 – RSR Creation (End)

ile View Options Hel	P
WM™	SKN Bel, Workflow View
5	System Change Notifications
System Change	G SCNID Description Status State State Time State Condeine Type Created by Assigned to Assign
Notifications	2 201311/00 Test SCN In Process 12/11/2013 west0
<u> </u>	3 2014/09100 Itest SCN 2 Closed 13/11/2014 🚱 229/92/014 Hoggg0 Democon "External C
Workflow Definition	
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Document Template Definition	GSR Lut Workforv New
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Asset Management	
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Topology Manager"	
Administration	
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	Computer: NBL0027369 📓 User: apolo 🝵 SQL Server: EN-ADLPD8-13 😈 Database: [psEnergy 🟐 SESSIONNAME: Concole 🥥 Unread Mails: 0, Unitert Mails: 0

Here is the final SWM window should look like."



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Questions?



ElectraNet

'South Australia's electricity transmission specialist'



Thank you

Presenter's name: Phone:

Mobile:

Email: