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Introduction

This Tech Note explains the procedure for setting up Galaxy Alarm Hot Backup pair for the following InTouch controls:

- Alarm Printer
- Alarm DB Logger Manager
- Alarm DB Viewer Control
- Alarm Viewer Control
- Alarm Client Control

The Hot Backup pair is configured using the Alarm Hot Backup Manager application. The Alarm Hot Backup Manager is located under the **Tools** panel in Intouch WindowMaker.

You create the Hot Backup pair from two host nodes running Alarm provider applications.

Refer to Tech Note 925 Configuring Alarm Hot Backup Using Galaxy Provider. That Tech Note explains using a Galaxy Provider for configuring Alarm Hot Backup in the IDE, and from InTouch using Galaxy as the provider.

The Hot Backup pair name used in the folliwing graphic is **GalaxyPair**. The Hot Backup pair name can be anything.

Tip: Some content in this *Tech Note* can appear more clearly using the browser's 150% zoom level.

Application Versions

Using Galaxy as the Alarm Provider in Hot Backup is introduced in 2012 R2.

• InTouch 2012 R2 (10.6) and later.

Note: The Hot Backup pair name is NOT case sensitive when used in the Controls.

Configuring Alarm Printer to use Alarm Hot Backup Pair

1. In the WindowMaker Tools panel, expand **Applications**, then double-click **Alarm Printer**.

Application	Alarm Printer - Untitled	
	File View Configure Query	Output Help
Data Change QuickFunctions	1260 2 91 3	
ActiveX Event	Printer Port or Name:	<none></none>
	Alarm Log File:	<none></none>
	Number of Historical Alarms	0
	Process ID:	2788
Tools 🔹	Alarm State:	All
💆 TemplateMaker 📃	Priority:	1 - 999
GQL Access Manager GQL Access Manager Galactions	Statistics:	
- Publisher		
Alarm Printer		
Alarm DB Logger Manager		
Alarm DB Restore		
Alarm Hot Rackup Mapago		

FIGURE 1: START ALARM PRINTER

2. Click **Configure** on the main menu, and type the Hot Backup name in the **Alarm Query** field. This example uses **GalaxyPair**.

Configuration Settings	X
Query Message File Logging Printing	
Query Properties:	
From Priority: 1 📫 To Priority: 999 📫	
Alarm State All	
Alarm Query: GalaxyPair	
Record alarms generated after query starts.	
OK Cancel Apply Help	

FIGURE 2: PROVIDE THE HOTBACKUP NAME

3. Click the **File Logging** tab and provide a path to a local folder on your C: \ drive.

Configuration Settings	×
Query Message File Logging Printing	
Enable Alarm File Logging	
Directory: C:\TestPrinter	
Number of Hours to Cycle Filename: 🛛 🔁	
Starting at Hour (0-23): 🔋 🚍	
Keep Log Files for: Days (0 = forever).	
Log File Name Extension: ALG	
Remove Trailing Spaces in Log Entries	
Field Separator Character:	
Original Column Ordering	
OK Cancel Apply Help	

FIGURE 3: PROVIDE A FILE LOGGING LOCATION

4. Click the **Printing** tab and click the desired printer.

Configuration Settings
Query Message File Logging Printing
Print To: O None
O LPT1 O LPT2 O LPT3
C COM1 C COM2 C COM3 C COM4 Port Configuration
Printer Microsoft XPS Document Writer Browse
✓ Remove Trailing Spaces in Printout □ Enable Printing □ Disable Realtime Alarm Printing □ Enable initialize printer codes: ▲ Alternate Color Printing □ Enable alternate color printing for alarm priority range. □ Change text for alarms from priority 1 ■ Printer codes: ▲ Alternate color: ■ Normal color:
OK Cancel Apply Help



- 5. Click **Apply** and then **OK**.
- 6. Save the **Configuration** by clicking **File/Save**.
- 7. Start Alarm Printing by clicking on Query then Start.
- 8. Printer Port and Alarm Log File appears in the Alarm Printer window.
 - Statistics is 100% for both Primary and Secondary. (Both Primary and Secondary are Running On Scan)
 - the ALG file is generated in the specified location. In this example, the Configuration File is saved in C:\TestPrinter.

Alarm Printer - C:\TestPrinter\PrinterConfig.alc File View Configure Query Output Help						
Printer Port or Name: Microsoft XPS Document Alarm Log File: C:\TestPrinter\12112308.	Witer ALG					
Number of Historical Alarms 4 Process ID: 4576						
Alarm State: All Priority: 1 - 999 Statistics:	C:\TestPrinter	 Local Disk (C:) → TestPrinter 		🕶 🔂 Se	arch TestPrinter	
100 \\Piriya03Prim\GalaxylArea_001 100 \\Piriya03Sec\GalaxylArea_001 100 GalaxyPair!	File Edit View Tools H Organize ▼ Include in libra	lelp ary ▼ Share with ▼ New I	Alarm Log File generate	ed		:==
	🚖 Favorites	Name 🔶	Date modified	Туре	Size	
	🧮 Desktop	12112308.ALG	11/23/2012 1:25 PM	ALG File	2 KB	
,						
	Downloads	PrinterConfig.alc	11/23/2012 1:25 PM	ALC File	1 KB	

FIGURE 5: ALARM PRINTER (IN RUNTIME) AND OUTPUT LOCATION

9. Open the ALG file using Notepad.

📒 12112308.ALG - Notepad	_ 🗆
File Edit Format View Help	
 Wonderware Alarm Printer 10.6 query: group: (GalaxyPair), state: (All), priority: (1-999) time is LoCAL Nov 2012,11:46:43.808,UNACK,DSC,DSC,500,Alarm_001.Alarm,Area_001,\\Piriya03Prim\Galaxy,true,true,,,The UserDefined,0.000000,0.000000, Nov 2012,11:47:51.232,UNACK,DSC,DSC,500,Alarm_002.Alarm,Area_001,\\Piriya03Prim\Galaxy,true,true,,,The UserDefined,0.000000,0.000000, Nov 2012,12:53:17.437,,EVENT,OPR,999,Alarm_001.Alarm,Area_001,\\Piriya03Prim\Galaxy,0,0,IOMLKF31279L,DefaultUser,Write success -,0.000000,0.000000,0.000000,0.000000,0.000000	000000

FIGURE 6: ALG FILE IN NOTEPAD

Note: Normally Alarm Printer is configured to print to an actual printer in a production environment. This Tech Note shows writing to a file. This file can be later printed to maintain paper records of the alarms.

Configuring Alarm DB Logger Manager to use Alarm Hot Backup Pair

The AlarmDBLoggerManager should be run on a machine that is neither the primary nor the backup node. The client machine that runs AlarmDBLoggerManager should use the Hot Backup pair name as the alarm query. This ensures that the alarms from one of the alarm hot backup pair nodes will be logged correctly.

- 1. In WindowMaker, expand Applications and double-click Alarm DB Logger Manager in the Tools panel.
- 2. Provide the information shown in Figure 7 (below) and click Test Connection.
- 3. When the Success notification appears, click OK, then Next.



FIGURE 7: CONNECT ALARM DB LOGGER MANAGER

4. Type the Hot Backup name (GalaxyPair) in the Alarm Query field and click Next (Figure 7 below).

Alarm DB Logger M	anager - Query Selec	tion		×
Query Detail	s			
Alarm State	All	From Priority	1 .	
Query Type	Historical	To Priority	999 •	
Alarm Query	_			
GalaxyPair			<u>^</u>	
			*	
<u> </u>			Þ	
	< Back	Nevt > 0	ancel H	eln

FIGURE 8: PROVIDE THE HOT BACKUP NAME

5. For this example, leave the default settings and click Finish (Figure 8 below).

C Windows Service		Miscellaneous	
Performance Tuning Log Alarms Every 100	m sec		

FIGURE 9: FINISH THE CONFIGURATION

6. When the Alarm DB Logger Manager window appears, click Start, then close the Alarm DB Logger Manager window (Figure 9 below).



FIGURE 10: START AND CLOSE THE ALARM DB LOGGER MANAGER

Configuring Alarm DB View Control to use Alarm Hot Backup Pair

- 1. Open WindowMaker and create a new window called Test_ AlarmDBView.
- 2. Place the **Alarm DB View** control in the window. Provide the Database details shown in step ##.
- 3. Click Apply, then OK.

			· · · · · · · · · · · · · ·					
	Time	State	Class	Туре	Priority			
	11/23/2012 01:4	UNACK_ALM	Value	HIHI	1			
1	11/23/2012 01:4	UNACK_ALM	Value	Alm DbViewCtel1	Droperties	•		×
:	11/23/2012 01:4	ACK_ALM	Value	AIIIDDHEWCCIII	riopercies			<u>^</u>
	11/23/2012 01:4	ACK ALM	Value	Selection	Time/Sort	Query	Filter Pro	operties Events
	11/23/2012 01:4	ACK RTN	Dev	Control Name	e 1	General	Color	Database
	11/23/2012 01:4	ACK RTN	Dev					
	11/23/2012 01:4	UNACK RTN	ROC					
	11/25/2012 01:4	UNACK PTN	ROC	Server Name:	(local)	-	
	11/25/2012 01:4	UNACK_RIN	ROC					
	11/23/2012 01:4	UNACK_RIN	EVENT	Database Name	e WWA	\lmDb		
	11/23/2012 01:4	UNACK_RTN	EVENT		_			
				User	sa			
	-1	-						
	•			Password:	•••	•••••		
	- WWAlmDb							
			<mark></mark>	🛛 🗹 Auto Conne	ct .	Fest Connec	tion	
•			· · · · · · · · · · · ·					
1								•
1								
					-			. [] [
					UK	Cance	App	ply Help
۰.								

FIGURE 11: ALARM DB VIEW CONTROL

4. Switch to WindowViewer.

• In this example, the window shows both the Primary and Secondary Platforms running. The Primary Platform Provider is **Piriya03Prim\Galaxy** (Figure 11 below).

2	/InTouch - WindowViewer - \\PK_W2K8R2SP1\ALARMHB-\$TESTALARMHB														
File	e Logic Special 🎻 5MC - [ArchestrA System Management Console (PK_W2K8R2SP1)\Platform Manager\AlarmHB[Defaul 💶 🗙														
1	Test_AlarmDBVie	w					File Action View Help								
				_											
	Time 🔺	State	Provider	Name	Туре	Class	Pric	Andradus Custon Marcana Carada (al a c	[
	11/23/2012 01:5	ACK_RTN	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC	500	Archestra System Management Console (E Calaxy Database Manager	Platform Name	Node Name	Platform ID	Platform Status			
	11/23/2012 01:5		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVENT	999	E DAServer Manager	R Primary	10.13.9.141	2	Running On Scan			
	11/23/2012 01:5		Piriya03Prim)Galaxy	Alarm_002.Alarm	OPR	EVENT	999	🕀 🛄 Log Viewer	🕃 Sec	10.13.9.143	4	Running On Scan			
	11/23/2012 01:5	UNACK_RTN	Piriya03Prim\Galaxy	Alarm_002.Alarm	DSC	DSC	500	E 🛃 Platform Manager							
	11/23/2012 01:5	UNACK_ALM	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC	500	🖃 💓 AlarmHb[DeraukUser]							
	11/23/2012 01:5		PinyaU3Pnm\Galaxy	Alarm_001.Alarm	OPR	EVENT	999	🕞 Primary							
								🔋 Sec							
	•														
	(local) - WWAhmDh		Displaying 1 t	o h of h records		Connected									
	(wear) - www.Hillioo		p phaying 1	o o or o records.		oonneered									

FIGURE 12: PRIMARY AND SECONDARY PLATFORMS WITH A COMMON GALAXY PROVIDER

- When the Primary Platform is Shutdown, the provider is the Secondary Platform: **Piriya03Sec\Galaxy** (Figure 12 below).
- Notice that originally there were 6 records, and now there are 12 records. The alarms are now logged under Secondary Platform.

🐶 I	InTouch - WindowViewer - \\PK_W2K8R25P1\ALARMHB-\$TE5TALARMHB													
File	Logic Special													
	Test AlarmDBYiew						🌠 SML – LArchestrA System Manageme	nt Console (PK_W)	2K8R25P1)\Platform M	lanager\Alarmi	IB[Defaul] _ 🗆 🗙			
							File Action View Help							
							🗢 🔿 🙎 🔐 📑 👘							
	Time 🛆	State	Provider	Name	Туре	Class	ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status			
	11/23/2012 01:54:56 PM	ACK_RTN	Piriya03Sec\Galaxy	Alarm_001.Alarm	DSC	DSC	🗄 📃 Galaxy Database Manager	GR	PK W2K8R25P1	1	Running On Scan			
	11/23/2012 01:54:56 PM	ACK_RTN	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC	🕀 🛃 DAServer Manager	🕄 Primary	10.13.9.141	2	Shutdown			
	11/23/2012 01:54:56 PM		Piriya03Sec\Galaxy	Alarm_001.Alarm	OPR	EVENT	🛨 📴 Log Viewer	🕄 Sec	10.13.9.143	4	Running On Scan			
	11/23/2012 01:54:56 PM		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVENT	🖃 🖳 Platform Manager							
	11/23/2012 01:55:49 PM		Piriya03Prim\Galaxy	Alarm_002.Alarm	OPR	EVENT	- 💓 AlarmHB[DefaultUser]							
	11/23/2012 01:55:49 PM	UNACK_RTN	Piriya03Prim\Galaxy	Alarm_002.Alarm	DSC	DSC	erimary							
	11/23/2012 01:55:49 PM		Piriya03Sec\Galaxy	Alarm_002.Alarm	OPR	EVENT	R Sec							
	11/23/2012 01:55:49 PM	UNACK_RTN	Piriya03Sec\Galaxy	Alarm_002.Alarm	DSC	DSC	U							
	11/23/2012 01:55:56 PM	UNACK_ALM	Piriya03Sec\Galaxy	Alarm_001.Alarm	DSC	DSC								
	11/23/2012 01:55:56 PM	UNACK_ALM	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC								
	11/23/2012 01:55:56 PM		Piriya03Sec\Galaxy	Alarm_001.Alarm	OPR	EVENT								
	11/23/2012 01:55:56 PM		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVENT								
	(local) - WWAlmDb		Displaying 1 to 12 o	of 12 records.		Connected								

FIGURE 13: PRIMARY PROVIDER IS SHUTDOWN

• Start the Primary Platform On Scan. The Provider switches back to **Primary** (Figure 13 below).

🐶 Iı	nTouch - Window¥iewer	- \\ PK_W2K8R2 5	5P1\ALARMHB-\$TESTAL	.armhb							
File	Logic Special					🧖 SMC - Eurchestrů System Manageme	nt Console (PK - W2)	(802501)\Platform M	lanager\AlarmH	IR[Defaul	
	Test_AlarmDB¥iew					File Action View Help	ne console (r k_rrei		unuger (marmin		
	Time	C	Duranidan	N	T						
	11002/2012 01 64 67 DM	State	Pit oog val			CI455	🌈 ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status
	11/25/2012 01:54:56 PM		Pinyauoseciioalaxy	Alarm_001.Alarm	OPR	LVLI	🕀 🖳 Galaxy Database Manager	🕄 GR	PK_W2K8R2SP1	1	Running On Scan
	11/23/2012 01:54:56 PM		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVEI	🕀 🛃 DAServer Manager	🖪 Primary	10.13.9.141	2	Running On Scan
	11/23/2012 01:55:49 PM		Piriya03Sec\Galaxy	Alarm_002.Alarm	OPR	EVE!	🕀 📴 Log Viewer	🕄 Sec	10.13.9.143	4	Running On Scan
	11/23/2012 01:55:49 PM		Piriya03Prim\Galaxy	Alarm_002.Alarm	OPR	EVE)	🖃 🖳 Platform Manager				
	11/23/2012 01:55:49 PM	UNACK_RTN	Piriya03Prim\Galaxy	Alarm_002.Alarm	DSC	DSC	🖃 💇 AlarmHB[DefaultUser]				
	11/23/2012 01:55:49 PM	UNACK_RTN	Piriya03Prim\Galaxy	Alarm_002.Alarm	DSC	DSC	g GR				
	11/23/2012 01:55:49 PM	UNACK_RTN	Piriya03Sec\Galaxy	Alarm_002.Alarm	DSC	DSC	😈 Primary				
	11/23/2012 01:55:56 PM	UNACK_ALM	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC	🗓 Sec				
	11/23/2012 01:55:56 PM	UNACK_ALM	Piriya03Sec\Galaxy	Alarm_001.Alarm	DSC	DSC					
	11/23/2012 01:55:56 PM	UNACK_ALM	Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	DSC					
	11/23/2012 01:55:56 PM		Piriya03Sec\Galaxy	Alarm_001.Alarm	OPR	EVE)					
	11/23/2012 01:55:56 PM		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVE)					
	11/23/2012 02:00:15 PM		Piriya03Prim\Galaxy	Alarm_001.Alarm	OPR	EVE)					
	11/23/2012 02:00:15 PM		Piriya03Sec\Galaxy	Alarm_001.Alarm	OPR	EVE)					
	•										
	(local) - WWAlmDb		Displaying 1 to 16 o	f 16 records.	Connected						

FIGURE 14: PRIMARY RESTARTED

Configuring Alarm Viewer Control to use Alarm Hot Backup Pair

- 1. In WindowMaker, create new Window called Test_AlarmViewer.
- 2. Place the **AlarmViewer** control in the window.
- 3. Configure the Alarm Viewer Control to use the Alarm Hot Backup by providing **Galaxypair** for the alarm query.

Cime 🛆	State	Provider	Name	Class	Type
11/23/2012 10:34:35 AM	UNACK	Provider	Alarml	Value	HIHI
11/23/2012 10:34:35 AM	UNACK	Provider	Alarm2	Value	HI
11/23/2012 10:34:35 AM	UNACK	Provider	Alarm3	Value	LO
11/23/2012 10:34:35 AM	UNACK	Provider	Alarm4	Value	LOLO
11/23/2012 10:34:35 AM	ACK	Provider	AlarmS	Dev	Minor
11/23/2012 10:34:35 AM	ACK	Provider	Alarmó	Dev	Major
11/23/2012 10:34:35 AM	ACK.	Provider	Alarm7	ROC	1
11/23/2012 10:34:35 AM	ACK	Provider	Alarm8	Custom	1
	Con Fro	ntrol Name General m Priority: 1	Color Time Form To Pri	at Query Properti ority: 999	ies Events
	Con Fro Ala	ntrol Name General m Priority: 1 rm State: All	Color Time Form To Pri Query	at Query Properti ority: 999 Type: Summary	es Events
∢∣	Con Fro Alar Alar	ntrol Name General m Priority: 1 rm State: All rm Query: Galaxypa	Color Time Form To Pri Query	at Query Properti ority: 999 Type: Summary	es Events
▲	Con Fro Ala Ala	ntrol Name General m Priority: 1 rm State: All rm Query: Galaxypa ery Favorites File:	Color Time Form To Pri Query sir	at Query Properti ority: 999 Type: Summary Edit Que	es Events
	Con Fro Ala Ala Que	trol Name General m Priority: 1 rm State: All rm Query: Galaxypa ery Favorites File: 1 t Column: Time	Color Time Form To Pri Query sir	at Query Properti ority: 999 Type: Summary Edit Que	es Events
	Con Fro Ala Ala Que Sor	trol Name General m Priority: 1 m State: All m Query: Galaxypa ery Favorites File: 1 t Column: Time condary Sort Column:	Color Time Form To Pri Query air	at Query Properti ority: 999 Type: Summary Edit Que	ery Favourites
	Con Fro Ala Ala Que Sor Sor Sor	trol Name General m Priority: 1 m State: All m Query: Galaxypa ery Favorites File: t Column: Time condary Sort Column: t Direction: © Asce	Color Time Form To Pri Query air	at Query Properti ority: 999 Type: Summary Edit Que Auto Scroll to New	es Events

FIGURE 15: GALAXYPAIR FOR ALARMVIEWER CONTROL

- 4. Switch to WindowViewer and note the following:
 - The provider is **\\Piriya03Prim\Galaxy**. The Primary node is providing the alarms.
- 5. Right-click on the AlarmViewer control and select Stats.
 - The Hot Backup pair GalaxyPair is querying 100%.
 - Notice that alarms are being pulled from both primary and secondary at 100% since both are available.
 - Use the SMC to verify that the Primary and Secondary Platforms are Running On Scan.

1	VInTouch - WindowViewer - \\PK_W2K8R2SP1\ALARMHB-\$TESTALARMHB											
F	File Logic Special											
	Test_AlarmViewer					×						
						💋 SMC - [ArchestrA System Manageme	ent Console (PK_W	2K8R25P1)\Platform M	1anager\AlarmH	IB[Defaul 💶 🗵 🗙		
						File Action View Help						
	Time 🛆	State	Provider	Name	Class Typ	🗢 🏟 🙎 🖬 🔒 👔 🖬						
	11/23/2012 11:46:43 AM 11/23/2012 11:47:51 AM Alarm Statistics for th Percent of Alarms Retrie 100 Galaxypair! 100 \\Piriya03Prim\G 100 \\Piriya03Sec\G	UNACK UNACK e display "AlarmVi ved in Query: ialaxylArea_001 alaxylArea_001	WPiriya03Prim\Galaxy WPiriya03Prim\Galaxy iewerCtrl1"	Alarm_001 Alarm Alarm_002 Alarm X K jate	DSC DSC	 ArchestrA System Management Console (Galaxy Database Manager DAServer Manager Doy Viewer Platform Manager AlarmHB[DefaultUser] GR Primary Sec 	Platform Name GR Primary Sec	Node Name PK W2K8R25P1 10.13.9.141 10.13.9.143	Platform ID 1 2 4	Platform Status Running On Scan Running On Scan Running On Scan		
	🔅 Displaying 1 to 2	of 2 alarms.	Default Query	100	% Complete							

FIGURE 16: ALARMVIEWERCTRL IN RUNTIME

6. Stop the Primary Platform using the SMC. Then click the **Update** button in the **Alarm Statistics** window.

V	SunTouch - WindowViewer - \\PK_W2K8R2SP1\ALARMHB-\$TESTALARMHB										
Fi	ile Logic Special										
I	Test_AlarmViewer										
						🖉 SMC - [ArchestrA System Manageme	nt Console (PK_W2	K8R25P1)\Platform N	1anager\Alarmi	HB[Defaul 💶 🗙	
						File Action View Help					
	Time 🛆	State	Provider	Name	Class Type	(= =) 🖄 🖬 🔒 🛛 🖬 🔳	2 💋				
	11/23/2012 11:46:43 AM	UNACK	WPiriya03Prim)Galaxy	Alarm_001.Alarm	DSC DSC	🂋 ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status	
	Alarm Statistics for th	ne display "Aları	mViewerCtrl1"	X	200 200	 Galaxy Database Manager DAServer Manager Log Viewer Platform Manager 	GR C Primary C Sec	PK_W2K8R25P1 10.13.9.141 10.13.9.143	1 2 4	Runnin Stop Platfor Runnin Set Platfor Runnin Launch Obj	irm m Off Scan iject Viewer
	Percent of Alarms Retrie	eved in Query: Galaxy!Area_001 Galaxy!Area_001	Up	IK date		☐ 🚀 AlarmHB[DefaultUser] 당 GR 당 Primary डि Sec				Help	

FIGURE 17: UPDATE ALARMVIEWERCTRL AFTER STOPPING THE PRIMARY PLATFORM

- 7. Note the following:
 - The provider is now \\PiriyaO3Sec\Galaxy. The Secondary node is now providing the alarms.
- 8. Right click on the AlarmViewer control and select stats.
 - The Hot Backup pair GalaxyPair is querying 100%.
 - The Primary Platform is querying 0% since it is shutdown.
 - The Secondary Platform is querying 100%.

In SMC, note that the Primary Platform is Shutdown and Secondary Platform is Running On Scan.

						🌈 SMC - [ArchestrA System Manageme	nt Console (PK_W2K	3R2SP1)\Platform Ma	nager\AlarmH	IB[Defaul 💶 🗖 🗙
						File Action View Help				
ie A		State	Provider	Name	Class Type	🗢 🔿 🙋 🚾 🗟 🔽 🖛				
23/20 23/20 Ala	12 11:46:43 AM 12 11:47:51 AM m Statistics for the ercent of Alarms Retriev UU Galaxypar! 0 \\Piriya03Prim\Ga 100 \\Piriya03Sec\G	UNACK UNACK e display "Alarm¥id ved in Query: laxylArea_001 alaxylArea_001	WPinya03Sec\Galaxy WPinya03Sec\Galaxy ewerCtrl1"	Alarm_001.Alarm Alarm_002.Alarm OK odate	DSC DSC	Image: Second Secon	Platform Name GR Primary Sec	Node Name PK_W2K8R25P1 10.13.9.141 10.13.9.143	Platform ID 1 2 4	Platform Status Running On Scan Shutdown Running On Scan
	Displaying 1 to 2	of 2 alarms.	Default Query	100	% Complete					

FIGURE 18: PRIMARY PLATFORM IS SHUTDOWN

Note: If the Secondary Platform is shutdown and the Primary is running on scan, the overall percentage of Alarms Retrieved in Query is at 100%, however the query is 0% for Secondary platform.

Test_Alarm¥iewer							🌈 SMC - [ArchestrA System Management Console (PK_W2K8R2SP1)\Platform Manager\AlarmHB[Defaul 💶 🗖					
						File Action View Help						
							(≠ 🔿 🖄 🖬 🛃 🖬					
Time \triangle		State	Provider	Name	Class	1	ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status	
11/23/201	2 11:46:43 AM	UNACK	\\Piriya03Prim\Galaxy	Alarm_001.Alarm	DSC	Ð	🖳 Galaxy Database Manager	🕄 GR	PK_W2K8R2SP1	1	Running On Scan	
11/23/201	2 11:47:51 AM	UNACK	WPiriya03Prim)Galaxy	Alarm_002.Alarm	DSC	ŧ	🛃 DAServer Manager	🔋 Primary	10.13.9.141	2	Running On Scan	
							Log Viewer	🗓 Sec	10.13.9.143	4	Shutdown	
						1-	🔜 Platronn Manager					
	Alarm Statistic	s for the display "A	larm¥iewerCtrl1"	×		L	🕒 👷 Hamino(Deradicoser)					
	D . (4)					L	🐧 Primary					
	Percent of Alarr	ns Hetrieved in Query:				L	🕞 Sec					
	100 Galaxypair		OK			L						
	100 \\Piriya 0 \\Piriya0	J3Prim\Galaxy!Area_U 3Sec\GalaxulArea_001	1			L						
	0 11 liyuu	0000 10 000,000_001	Upda	ite 🛛		L						
						L						
						L						
						L						
						L						
						L						
	1					L						
						L						
<u>)</u>	Displaying 1 to 2	of 2 alarms.	Default Query	100 % Comple	te							

FIGURE 19: QUERY PERCENTAGES FOR BOTH PLATFORMS

9. When the Provider is Secondary Platform, acknowledge Alarm_001.

Test_Alarm¥iewer					
Time 🛆	State	Provider	Name	Class	Тур
11/23/2012 11:47:51 AM	UNACK	\\Piriya03Sec\Galaxy	Alarm_002.Alarm	DSC	DSC
11/23/2012 12:53:17 PM	ACK	\\Piriya03Sec\Galaxy	Alarm_001.Alarm	DSC	DSC
Percent of Alarm 100 Galaxypair! 0 \\Piriya03 100 \\Piriya0	IS Retrieved in Quer Prim\Galaxy!Area_1 I3Sec\Galaxy!Area_	ıy: _001 _001	OK Update		
<u> </u>					

FIGURE 20: ACK THE ALARM

- 10. Start the Primary Platform using the SMC and click **Update**.
- 11. Note the following:
 - The Provider reverts to **\\Piriya03Prim\Galaxy**.
 - The Alarm_001 Acknowledged state is duplicated from the Secondary to the Primary Platform.
 - The query for GalaxyPair, Primary and Secondary is 100%.
 - The SMC shows the Primary and Secondary Platforms are Running On Scan.

Test_AlarmViewer				🖉 SMC - [ArchestrA System Manageme	nt Console (PK_W2K	8R2SP1)\Platform Ma	anager\AlarmH	IB[Defaul 💶 🗖 🗙	
				File Action View Help					
Time 🛆 State Provider 🗇	Name	Class	Туре	🧭 ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status	
11/23/2012 11:47:51 AM UNACK \\Piniya03Prim\Galaxy .	Alarm_002.Alarm	DSC	DSC	🕀 🖳 Galaxy Database Manager	🖉 GR	PK_W2K8R25P1	1	Running On Scan	
11/23/2012 12:53:17 PM ACK \\Piniya03Prim\Galaxy .	Alarm_001.Alarm	DSC	DSC	🕀 🛃 DAServer Manager	🖫 Primary	10.13.9.141	2	Running On Scan	
				🛨 📴 Log viewer	🖫 Sec	10.13.9.143	4	Running On Scan	
				🗉 🚰 Hactorin Manager					
				di GR					
Alarm Statistics for the display "AlarmViewerCtrl1"	X			🔋 Primary					
				🐚 Sec					
Percent of Alarms Hetrieved in Query:									
100 Galaxypair!	OK								
100 \\Piriya03Prim\GalaxyIArea_001 100 \\Piriya03Sec\GalaxyIArea_001									
	Update								
🔅 🛛 Displaying 1 to 2 of 2 alarms. Default Query	100 %	% Complete							

FIGURE 21: ACK IS DUPLICATED TO PRIMARY PLATFORM

Configuring the Alarm Client Control to use Alarm Hot Backup Pair

- 1. In the IDE, go to Graphic Toolbox.
- 2. Create a new Symbol and rename it to AlarmClient1.
- 3. Open AlarmClient1 using the Archestra Graphic Editor.
- 4. Place an Alarm Client Control into the graphic from the Tools pane in Archestra Graphics Editor.
- 5. Right-click on the Alarm Client Control and click Edit Animations.
- 6. Configure the Alarm Client Control as shown in Figure 22 (below).



FIGURE 22: EDIT THE ALARM CLIENT CONTROL

- 7. In WindowViewer, create a new Window called Test_AlarmClient.
- 8. Place the Alarm Client Control on the window.
- 9. Switch to WindowViewer.
 - The Provider is \\Piriya03Prim\Galaxy. The Primary node is providing the alarms.
- 10. Right-click the AlarmClient control and click Statistics.
 - The Hot Backup pair GalaxyPair is querying 100%.
 - Alarms are pulled from both primary and secondary at 100% since both are available.
 - The SMC shows Primary and Secondary Platforms are Running On Scan.

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	est_AlarmClient							ne console (FK_MZ	Kowser Dynanonin	ianayer (Marini	
							File Action View Help				
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				0	-		🌈 ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status
эLС	T v	Name	Provider	Node	State	Туре	🕀 🖳 Galaxy Database Manager	🗟 GR	PK_W2K8R2SP1	1	Running On Scan
3/20	12 1:55:56 PM	Alarm 001.Alarm	Galaxv	Piriva03Prim	UNACK	DSC	🕀 🛃 DAServer Manager	Rimary	10.13.9.141	2	Running On Scan
3/20	12 1:55:49 PM	Alarm 002 Alarm	Galaw	Piriva03Prim	LINACK	DSC	🛨 📴 Log viewer	🗓 Sec	10.13.9.143	4	Running On Scan
	12 1.00.101 m	Alam_002.Alam	olalayy	r myddor mm	014/1014		E 🖉 AlarmHB[DefaultUser]				
	Alarm Statistics			×			🕄 GR				
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_				1.		Þ					
-	Displaying 1 to 2 (of 2 alarms Default 100%	Complete Pacil	ic Time (US Canada)							

FIGURE 23: GALAXYPAIR STATISTICS

- 11. Stop the **Primary** Platform in the SMC, then click the **Update** button in the Alarm Statistics window.
- 12. Note the following:
 - The provider is **\\Piriya03Sec\Galaxy**. The Secondary node is providing the alarms.
- 13. Right-click on the AlarmViewer control and click Statistics.
 - The Hot Backup pair GalaxyPair is querying 100%.
 - Primary Platform is querying 0% since it is shutdown.
 - The Secondary Platform is querying 100%.
 - In the SMC, the Primary Platform is Shutdown and the Secondary Platform is Running On Scan.

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nClient						File Action View Help				
						🗢 🔿 🙍 🖬 🔒 🚺 🖬 🕨	Ø			
						🧭 ArchestrA System Management Console (Platform Name	Node Name	Platform ID	Platform Status
E	Name	Provider	Node	State	Type	🕀 🖳 Galaxy Database Manager	🛃 GR	PK_W2K8R2SP1	1	Running On Scan
:56 PM	Alarm 001.Alarm	Galaxy	Piriva03Sec	UNACK	DSC	🕀 🔜 DAServer Manager	Primary 🔤	10.13.9.141	2	Shutdown
29 PM	Alarm 002 Alarm	Galaw	Piriva03Sec		DSC	🛨 📴 Log viewer	🕔 Sec	10.13.9.143	4	Running On Scan
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🔡 Alarn	n Statistics			×		🔄 Sec				
Percent	of alarms retrieved in query:									
			04							
Per	cent Source									
) [GalaxyPair]		Update							
	0 \\Piriya03Prim\Ga	laxy!Area_001	· · · ·							
	100 \\Piriya03Sec\Gal	axy!Area_001								
			•							
					Ð					
				1						

FIGURE 24: PRIMARY PLATFORM SHUTDOWN

14. Acknowledge Alarm_001.

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					1		🌈 ArchestrA System Management Console (Platform Name	Node Name	Platfor	Platform Status
eL(CT ∆	Provider	Node	Name	State	Type C-	🕀 🖳 Galaxy Database Manager	🕄 GR	PK_W2K8R2SP1	1	Running On Scan
3/2	012 1	Galaxy	Piriva03Sec	Alarm 002 Alarm	UNACK	DSC E	🕀 🚉 DAServer Manager	🗓 Primary	10.13.9.141	2	Shutdown
8/2	012 1	Galaw	Diriva03Soc	Alarm 001 Alarm	ACK		E Log Viewer	🗓 Sec	10.13.9.143	4	Running On Scan
512	012 1	OdidAy	T myddoodec	Aldim_001.Aldim	AON	DOC L	🖃 🔜 Placionin Manager				
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			Percent	Source		ОК					
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				\\Piriua03Sec\Galaxul4	Area_001 Area_001						
			100	ni iliyaddoddo ladalay.							

FIGURE 25: ACK THE ALARM PROVIDED BY THE SECONDARY PROVIDER PLATFORM

- 15. Start the **Primary** Platform using the SMC and click **Update** in the Alarm Statistics window.
 - The provider reverts to **\\Piriya03Prim\Galaxy**.
 - Alarm_001 is acknowledged.
 - The query for GalaxyPair, Primary and Secondary is 100%
 - The Primary and Secondary are Running On Scan.

The Logic D	pecial					_	/// SMC - [ArchestrA System Management Console (PK_W2K8R2SP1)\Platform Manager\AlarmHB[DefaultUs
I. Test_Ala	armClient						File Action View Help
≱LCT 3/2012 1. 3/2012 1.	 △ Provider Galaxy Galaxy 	Node Piriya03Prim Piriya03Prim	Name Alarm 002.Alarm Alarm 001.Alarm	State UNACK ACK	Type DSC DSC	-) [[Image: Section of the section of th
		Percent of ala Percent of ala Percent	tistics arms retrieved in query: Source GalaxyPair!		OK	×	AlarmHB[DefaultUser] GR I Primary I Sec
			\\Piriya03Prim\Galaxyl/ \\Piriya03Sec\Galaxyl/	Area_001 Area_001	Update		

FIGURE 26: BOTH PROVIDERS RUNNING ON SCAN

Note that the behavior of Alarm Client Control in Historical mode is similar to Alarm DB View Control.

P. Karthikeyan

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