# Tech Note 925 Configuring Alarm Hot Backup Using Galaxy Provider

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### Introduction

Alarm Hot Backup Manager can use InTouch, Galaxy, or Galaxy\_ as alarm providers when configuring an alarm Hot Backup Pair.

This Tech Note guides you through the procedure for configuring alarm hot backup using Galaxy and Galaxy\_ as the provider.

### **Application Versions**

• ArchestrA System Platform 2012 R2.

The Hot Backup provides a single name (Hot Backup Pair name) that points to two alarm providers: The Primary and the Backup. The two machines are the Hot Backup Pair. The InTouch HMI alarm consumers can reference this single hot backup pair name and retrieve alarms from either the primary or the backup alarm provider.

When both provider nodes are operating normally, the alarm consumer receives alarm data from the primary provider. If the primary provider fails, however, the alarm consumer receives alarm data from the backup instead. The Hot Backup Manager synchronizes alarm acknowledgements between the primary and backup providers. If an alarm is acknowledged on the primary provider, the same alarm is acknowledged simultaneously on the backup provider.

To specify a Galaxy or Galaxy\_<GalaxyName> alarm provider, you must configure AppEngine redundancy in the IDE.

Note: The system does not support hot backup pairs for alarms generated from two different Galaxies.

### Configuring Redundancy for Using GALAXY in the Alarm Hot Backup

**Note:** The following configuration is just an example. Other supported OSs listed in the ReadMe file can be used for the GR, Primary, and Secondary nodes. Similarly, any other IP address may also be assigned for the nodes.

### System Configuration

#### GR Node: 10.13.1.56

• OS: Windows Server 2008 R2 Standard

- SQL Server: SQL Server 2008
- No. of Network cards: 1

### Primary Machine / Secondary Machine

- OS: Windows Server 2003 R2 Standard
- SQL Server: SQL Server 2008
- No. of Network cards: 2

Primary Machine: 10.13.9.141

Secondary Machine: 10.13.9.143

Complete the following steps on the Primary machine, after it is created from your VM:

- 1. Go to Network Connections.
- 2. Rename the network cards: VMware Accelerated AMD PCNet Adapter to Primary and VMware Accelerated AMD PCNet Adapter #2 to RMC.

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Туре	Status	Device Name
LAN or High-Speed Inter	Connected	VMware Accelerated AMD PCNet Adapter
LAN or High-Speed Inter	Connected	VMware Accelerated AMD PCNet Adapter #2
Wizard		
	ools Advanced Help Type LAN or High-Speed Inter LAN or High-Speed Inter	iools Advanced Help th Polders Polder Type Status LAN or High-Speed Inter Connected LAN or High-Speed Inter Connected Wizard

FIGURE 1: RENAME THE NETWORK DEVICE NAMES (CARDS)

Setwork Connections					
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Name	Туре	Status	Device Name		
LAN or High-Speed Internet					
	LAN or High-Speed Inter LAN or High-Speed Inter	Connected Connected	VMware Accelerated AMD PCNet Adapter VMware Accelerated AMD PCNet Adapter #2		

FIGURE 2: PRIMARY AND SECONDARY NETWORK CONNECTIONS

- 3. Change RMC Static IP Address to **192.168.101.101**.
- 4. Under Advanced Settings -> DNS, un-check Register this connection's addresses in DNS check box.

		Advanced TCP/IP Settings
		IP Settings DNS WINS Options
	Internet Protocol (TCP/IP) Properties	DNS server addresses, in order of use:
An tool from all too	General	t
Network Lonnections	You can get ID settings assigned automatically if your petwork supports	3
Hie Eait View Favorites Loois Advanced Help	this capability. Otherwise, you need to ask your network administrator	
G Back	for the appropriate IP settings.	Add Edit Remove
Address & Network Connections	C Obtain an IP address automatically	The following three settings are applied to all connections with TCP/IP enabled. For resolution of unqualified names:
LAN or High-5	• Use the following IP address:	O Append primary and connection specific DNS suffixes
General Authentication Advanced	IP address: 192 . 168 . 101 . 101	✓ Append parent suffixes of the primary DNS suffix
Connect using:	Subnet mask: 255 . 255 . 255 . 0	O Append these DNS suffixes (in order):
WWware Accelerated AMD PCNet Ad Configure	Default gateway:	t
Wizard		
New Connecti	C Obtain DNS server address automatically	
Client for Microsoft Networks	• Use the following DNS server addresses:	A <u>d</u> d Edi <u>t</u> Re <u>m</u> ove
Network Load Balancing Sector Provide A State And State A St	Preferred DNS server:	DNS suffix for this connection:
Internet Protocol (TCP/IP)	Alternate DNS server:	Register this connection's addresses in DNS
I <u>n</u> stall <u>U</u> ninstall P <u>r</u> operties	Advanced	
Description		OK Cancel
Transmission Control Protocol/Internet Protocol. The default	OK Cancel	
across diverse interconnected networks.		
Chamican is notification and when compared		
<ul> <li>Snuw icon in nouncation area when connected</li> <li>Notify me when this connection has limited or no connectivity</li> </ul>		
Close Cancel		

FIGURE 3: RMC > PROPERTIES > IP ADDRESS > ADVANCED > DNS

- 5. After the IP Address is setup, in Network Connections go to Advanced > Advanced Settings panel.
- 6. In the Adapter Bindings tab, move the Primary connection to first in the list, and RMC to the second postion.



#### FIGURE 4: Advanced Connection Settings

- 7. Click **OK** and restart the computer.
- 8. Complete all the above steps for the **Secondary** machine except for Step 3. Configure that IP Address as **192.168.101.102**.

		Advanced TCP/IP Settings
		IP Settings DNS WINS Options
		DNS server addresses, in order of use:
Network Connections	Internet Protocol (TCP/IP) Properties	<u>A</u> dd <u>E</u> dit Remo <u>v</u> e
File Edit View Favorites Tools Advanced Help	General	The following three settings are applied to all connections with TCP/IP enabled. For resolution of upqualified pares:
G Back - O - 😥 🔎 Search 🌔 Folders 🛛 🕼 🏵 🗙 🏹 🛄	You can get IP settings assigned automatically if your network supp	Append primary and connection specific DNS suffixes
Address S Network Connections	this capability. Otherwise, you need to ask your network administra	Append parent suffixes of the primary DNS suffix
Name Type Status	for the appropriate 14 settings.	C Append these DNS suffixes (in order):
LAN or High-Speed Internet	C Obtain an IP address automatically	
LAN or High-Speed Inter Connected, Fire	Use the following IP address:	
LAN or High-Speed Inter Connected, Fire	IP address: 192 . 168 . 101 . 102	
Wizari	Subnet mask: 255 , 255 , 255 , 0	Add Edi <u>t</u> Re <u>m</u> ove
General Authentication Advanced	Default gateway:	DNS suffix for this connection
Connect using:		Register this connection's addresses in DNS
Wware Accelerated AMD PCNet Ad Configure	C Obtain DNS server address automatically	Use this connection's DNS suffix in DNS registration
	• Use the following DNS server addresses:	
This connection uses the following items:	Preferred DNS server:	OK Car
Client for Microsoft Networks	Alternate DNS server:	
Retwork Load Balancing     Retwork Load Printer Sharing for Microsoft Networks		
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Description		
wide area network protocol/internet Protocol. The derault		
across diverse interconnected networks.		
Show icon in notification area when connected		
Notify me when this connection has limited or no connectivity		

### FIGURE 5: RMC PROPERTIES > GENERAL > ADVANCED DNS

9. Make sure that both the primary and backup machines are communicating by pinging each other using static IP addresses

(192.168.101.101 and 192.168.101.102).

## Configure the Galaxy

The following product installations are required for proper configuration of Alarm Hot Backup.

### GRNode

• AppServer: Full installation

### Primary Machine / Backup Machine

• AppServer: Bootstrap

Complete the following steps on the GR Node to configure the Galaxy and set up an example Alarm object.

- 1. Create a galaxy called **AlarmHB**.
- 2. Create instances as shown:
  - GR
  - Primary (Platform)
    - AppEngine\_001
      - Area\_001
  - Sec (Platform)
- 3. Configure the **GR** object by doing the following:
  - Under the General tab, provide the Network address as the GR Node machine name, or an IP address (Figure 6 below).

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AlarmHB     Application	General Engine Alarms Platform History Sc	heduler History   Engine History	Object Info
	Network address:	10.13.1.56	
\$Area \$Area \$InTouchViewAnn	History store forward directory:		6
WinPlatform	Minimum RAM:	1024 MB	ſ
	Statistics average period:	10000 ms	- f 🔍
	-InTouch alarm provider 🚇		
	Enable InTouch alarm provider		ſ
	Register using "Galaxy_ <galaxy nar<="" p=""></galaxy>	me>" instead of "Galaxy"	63
	Alarm areas (blank for all):		62
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	Redundancy primary channel port:	30000	6
erre 🔩 Primary	Store forward redundancy port:	32568	ſ
👯 Area_001	Message Exchange		

FIGURE 6: CONFIGURING THE GR OBJECT

- 4. Configure the **Primary** Object by doing the following:
  - In the General tab, provide Network address with the Primary machine's name or IP address.
  - Check Enable Intouch alarm provider
  - Provide Redundancy message channel IP address as the primary machine's static IP Address (Figure 7 below).

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AlarmHB     AlarmHB     Application     Device Integration	General Engine Alarms Platform History Sch	eduler History 🛛 Engine History	Object Inform
⇒ System	Network address: 10.13.9.141		
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	—InTouch alarm provider 🕮		
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	Redundancy (A)		
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	Store forward redundancy port:	32568	ſ
	-Message Exchange 49		

FIGURE 7: PRIMARY COMMUNICATION CHANNEL SETTINGS

- 5. Configure the Sec (Secondary) object by doing the following:
  - In the General tab, provide Network Address with the Secondary machine name or IP address.
  - Provide the Redundancy message channel IP address with secondary machine's static IP Address.

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	Alarm areas (blank for all):	A ¥	62
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	Redundancy message channel IP address:	192.168.101.102	
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🛅 Unassigned Host 📢 GR	Redundancy primary channel port:	30000	ſ
erre 🛃 Primary	Store forward redundancy port:	32568	ſ
Sec	Message Exchange 🚇		

FIGURE 8: SECONDARY COMMUNICATION SETTINGS

- 6. Configure **AppEngine\_001** by doing the following.
  - In the Redundancy tab, check the Enable Redundancy option.
  - Save and Close the editor.

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AlarmHB Application Control Device Integration System System System System System System System	General Redundancy R/W Interrupts Alarms Scheduler Histor	y   Engine History   Object Information   Scripts
InTouchViewApp \$ViewEngine	Forced failover timeout:	90000 ms 💚
🔤 \$WinPlatform	Maximum checkpoint deltas buffered:	0
	Maximum alarm state changes buffered:	0
	Standby engine heartbeat period:	1000 ms 🕔
	Active engine heartbeat period:	1000 ms 💚
	Maximum consecutive heartbeats missed from Active engine:	5
	Maximum consecutive heartbeats missed from Standby engine:	5
🔰 🔛 🗾 🖉 <u>T</u> emplate Toolbox	Maximum time to maintain good quality after failure:	15000 ms 💔
oDeployment → 쿠 ×	Maximum time to discover partner:	15000 ms 💚
AlarmHB     AlarmHB     GR     GR     Primary     AppEngine_001     Area_001	Force failover command:	Ŵ

FIGURE 9: ENABLE REDUNDANCY FOR THE APPENGINE

7. A new AppEngine called AppEngine\_001 (Backup) is created under Unassigned Host.

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FIGURE 10: APPENGINE...(BACKUP)

- 8. Assign AppEngine\_001 (Backup) to Secondary.
- 9. Create a new \$UserDefined template called **\$Alarm**.
- 10. Create a UDA called  $\ensuremath{\textbf{Alarm}}$  with a Boolean data type.

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Err AlarmHB	Field Attributes Object Information Scripts UDAs Extensions Graphics
Application	UDA name: Alarm
	UDAs:
Spoolean     Spoolean     Spoolean	Name  Data type: Boolean
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string \$Switch	
sUserDefined	
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61 \$Area	
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AlarmHB	
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Area_001	
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FIGURE 11: ALARM TEMPLATE AND BOOLEAN ALARM UDA

11. In the Extensions tab of \$Alarm, check the Alarm extension option.

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Application			Attribute name: Alarm
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\$DiscreteDevice	Name	IO I O A H	B Source: no to the source for the s
😫 \$Double	😸 Alarm	X	Output destination differs from input source
SFieldReference	AlarmInhibit		Destination:
🥥 \$Integer	🝈 AlarmModeCmd		Input extension
sSequencer			Source:
source string	InAlarm		
🧿 \$5witch			Destination
SuserDefined			
s \$AppEngine			✓ Alarm extension
航 \$Area			Category: Discrete 🔄 🖆 🖤 Priority: 500
T I			Alarm message: me.ShortDesc
💟 Template Toolbox 🧭 Graphic Toolbox			Active alarm state: True 🗾 🖆
	1		History extension
			Force storage period: ms 😰 🍞
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Area_001			Trend low:
E Sec			Description:
🖶 AppEngine_001 (Backup)			Takawalakina Turan
			Interpolation Type:

### FIGURE 12: ALARM EXTENSION

12. Create an instance of \$Alarm and place it under Area\_001.



FIGURE 13: ALARM OBJECT INSTANCE IN AREA

13. Deploy all objects. Redundancy setup is ready for Alarm\_001.

FIGURE 14: ALARM REDUNDANCY IS READY

You will notice all three platforms running successfully in the System Management Console (SMC).

🖉 SMC - [ArchestrA System Manageme	nt Console (PK_W2	2K8R2SP1)\Platform M	lanager\AlarmH	lB[DefaultUser]]	
File Action View Help					
🧭 ArchestrA System Management Console (	Platform Name	Node Name	Platform ID	Platform Status	Operation Stat
🛨 🔜 Galaxy Database Manager	🖫 Primary	10.13.9.141	2	Running On Scan	
🕀 🚘 DAServer Manager	🕄 Sec	10.13.9.143	4	Running On Scan	
🛨 🛄 Log Viewer	🖲 GR	PK_W2K8R2SP1	1	Running On Scan	
🖃 📃 Platform Manager	_				
🖃 💓 AlarmHB[DefaultUser]					
📑 Primary					
🕄 Sec					
🥫 GR					

FIGURE 15: OBJECTS RUNNING SUCCESSFULLY

# Configuring InTouch for Alarm Hot Backup Using Galaxy

• Create a new \$InTouchView Application from the IDE and name it **\$TestAlarmHB**.



file:///C|/inetpub/wwwroot/t002740/t002740.htm[3/8/2013 8:55:15 AM]

### FIGURE 16: **\$TESTALARMHB VIEW APPLICATION**

**Note:** Configuring the Alarm Hot Backup Pair must be done on a client machine that is not the Primary or Backup node.

- 1. Open the InTouchViewApp/\$TestAlarmHB in InTouch WindowMaker.
- 2. Click **Tools** and expand **Applications**.
- 3. Double-click Alarm Hot Backup Manager.



FIGURE 17: OPEN ALARM HOT BACKUP MANAGER

(	Alarm Hot Ba	ackup Manage	r		_ 🗆 🗙
F	ile Help				
		V	letete ere d'és		
	<b>f</b>	You can add, o HotBackup Pa using this dialo	elete, modify irs to your application g box		
	Name		PrimaryNode:Provider	BackupNod	e:Provider
	•				<b>▶</b>
	INI File Path :				
	JNPK_W2K8R2	SP1 \AlarmHB-\$`	l estAlarmHB\Provacc.ini		
	New Pair	Modify Pair.	. Delete Pair	Set Key Fields	Map Alarms

FIGURE 18: ALARM HOT BACKUP MANAGER

4. Click File/Open.

۷	👌 Alarm Ho	ot Backup Manager	
E	jie <u>H</u> elp		
	<u>O</u> pen	$\leftarrow$	
	<u>S</u> ave	You can add, delete, modify	
	<u>E</u> xit	HotBackup Pairs to your application	
		dailing this dialog box	
	Name	PrimaryNode:Provider	_
	INI File Path	h:	
	c:\docume	nts and settings\all users\application data\wo	nd
	( <u>N</u> ew Pair	<u>D</u> elete Pair	

FIGURE 19: FILE/OPEN

5. Select the **Provacc.ini** file and click **OK**.

Alarm Hot Backup Manager			
<u>Eile H</u> elp	Open		<u>? ×</u>
You can add, delete, moc	Look in: 🗀 SR43610770	• •	) 🖻 🔜 🕯
HotBackup Pairs to your - using this dialog box	Symbols		
Name PrimaryN			
	File <u>n</u> ame: Provacc.ini		<u>O</u> pen
	Files of type: Provacc.ini	•	Cancel
INI File Path :	☑ Open as read-on	y	1.
C: voocuments and settings vali users vapplic	ation data wonderware untoden applie	Man Alarma	

FIGURE 20: PROVACC.INI

By default, the Alarm Hot Backup Manager checks for the **Provacc.ini** file in the last opened InTouch application folder. You should use the **Provacc.ini** file located in the InTouch application's folder.

Otherwise, you can create a copy of the Provacc.ini file in another specified folder location and then select it for use with Hot Backup Manager.

6. Click New Pair. The Add New Pair dialog box appears.

Add New	Pair				>
⊢ Hot Ba	ackup Pa	ir Name —			-
Primar,	y Node				٦
Name	e:				
Provi	der: InT	ouch		•	
Group	. <b>–</b>				
				-	
Backu	ip Node				٦
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Group	): [				
	1				
		OK	1	Cancel	ı.
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FIGURE 21: ADD NEW PAIR

7. In the Hot Backup Pair Name box, type a unique name for the new backup pair.

A pair name can be up to 32 alphanumeric characters long. You can use the dollar sign (\$), pound sign (#), and underscore (\_) character in a pair name.

For the **Primary Node**, do the following:

- 8. In the **Name** box, type the node name of the computer running the primary provider application. The node name must be unique to Hot Backup Manager. An error message appears if you provide a non-existent node name, or if the node name is used in another hot backup pair.
- 9. In the **Provider** field, select the Galaxy alarm provider from the drop-down list. The default is **InTouch**.
- 10. In the **Group** field, type the name of the alarm group that queries alarms from the primary provider. In this example it is **Area\_001**.
- 11. In the **Backup Node** area, do the following:

• In the **Name** box, type the node name of the computer running the **Backup** provider application. This can be the same node that is running the Hot Backup Manager.

• In the **Provider** box, select **Galaxy** as backup provider.

• In the **Group** box, type the name of the alarm group that queries alarms from the backup provider. If you specified **Galaxy** or **Galaxy\_<GalaxyName>** alarm providers, the backup node group must be the same as the primary node group, and cannot be edited.

Configure Hot Backup Pair	×
Hot Backup Pair Name	_
JualaxyPair	
Primary Node	
Name : Piriya03Prim	
Provider : Galaxy	3
Group : Area_001	
-Backup Node	=
Name : Piriya03Sec	
Provider : Galaxy	]
Group : Area_001	

FIGURE 22: HOT BACKUP PAIR CONFIGURATION

- 12. Click OK.
- 13. On the File menu, click Save.
- 14. Restart WindowMaker.

## Configuring Alarm Hot Backup Using GALAXY\_

When you specify Galaxy\_<GalaxyName>, the Galaxy name must be the same for both the primary and the backup node. When you specify Galaxy or Galaxy\_<GalaxyName> as the alarm provider, the provider of the backup node can be Galaxy or Galaxy\_<GalaxyName>.

The alarm group of the backup node must be the same as that of primary node.

1. In the IDE, open the **Primary** Platform and check the **Register using Galaxy\_<Galaxy Name> instead of Galaxy** option.

💓 ArchestrA IDE			
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🕲 Template Toolbox 🛛 🗸 🔻 🗙	🜀 Primary *		
<ul> <li>\$Boolean</li> <li>\$DiscreteDevice</li> <li>\$Double</li> <li>\$FieldReference</li> <li>\$Float</li> <li>\$Integer</li> <li>\$Sequencer</li> <li>\$SQLData</li> <li>\$String</li> <li>\$Switch</li> <li>\$UserDefined</li> <li>\$UserDefined</li> <li>Device Integration</li> <li>\$ystem</li> <li>\$AppEngine</li> <li>\$Area</li> <li>\$InTouchViewApp</li> <li>\$TestAlarmHB</li> <li>\$ViewEngine</li> </ul>	General       Engine       Alarms       Platform History       Sch         Network address:       .         History store forward directory:       .         Minimum RAM:       .         Statistics average period:       .         InTouch alarm provider       .         InTouch alarm provider       .         Image:       .         Alarm areas (blank for all):       .	eduler History Engine History	Object In ] ]     
Sector Stress	Redundancy 🚇 Redundancy message channel IP address: Redundancy message channel port: Redundancy primary channel port: Store forward redundancy port:	192.168.101.101 30001 30000 32568	] ] 6 ] 6
Alarm_001 Alarm_002 Alarm_003 ViewEngine_001 StarkAlarmHB_001	Message Exchange		

FIGURE 23: REGISTER USING "GALAXY..." OPTION

2. Modify the Alarm Hot Backup Pair in Window Maker to use **Galaxy\_AlarmHB** instead of Galaxy.

You ca HotBa using t	an add, delete, modify ckup Pairs to your application his dialog box		Hot Backup Pair GalaxyPair
Name GalaxyPair	PrimaryNode:Provider Piriya03Prim:Galaxy	BackupNode:Provider Piriya03Sec:Galaxy	Primary Node Name : Piriya03Prim Provider : Galaxy_AlarmHB Group : Area_001
INI File Path : NPK_W2K8R2SP1 \Ala New Pair	armHB-\$TestAlarmHB\Provacc.ini dify Pair Delete Pair	Set Key Fields Map Alarms	Backup Node Name : Piriya03Sec Provider : Galaxy_AlarmHB  _ Group : Area_001

FIGURE 24: MODIFY THE ALARM BACKUP PAIR

3. Restart WindowMaker.

#### P. Karthikeyan

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