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Introduction

This *Tech Note* explains setting up the Batch Events feature on a 2-node system. Node one has InBatch all in one installed. Node 2 is the GR node and only has the InBatch Events Feature installed.

Application Versions

- Microsoft SQL Server 2012
- InBatch 2012 R2

Important: ONLY MACHINE NAMES CAN BE USED for this feature. IP addresses are not supported.

For the Batch Server Node

- 1. Install SQL Server 2012 on the Batch Server machine.
- 2. After you have installed SQL Server 2012, install InBatch 2012.
- 3. Install all of the InBatch features *except for* the **InBatch Components for ArchestrA IDE/IEE**. This is because you have not installed System Platform 2012 R2 on the machine yet.

For this example, skip installing the Reporting Content. In most cases the InBatch reporting is done on a reporting node and not the Batch Server.

Wonderware InBatch 2012 R2 Installation	
Please select which features you would like installed, and specify the destination folder for the installed files.	Worderware
The following products and/or components will be installed.	Installs InBatch
InBatch Server InBatch History Server InBatch History Server InBatch Remote Development Client InBatch Remote Runtime Client InBatch Reporting Content InBatch Components for ArchestrA IDE/IEE InBatch Dog mentation	and PDFs
	This feature and any children use 17802 KB
Destination Folder C:\Program Files (x86)\Wonderware\InBatch	Browse
<u>V</u> iew Install Guide < <u>B</u> ack <u>N</u> e	ext > <u>C</u> ancel

FIGURE 1: DO NOT ENABLE INBATCH COMPONENTS FOR ARCHESTRA IDE/IEE

4. After the installation completes you need to configure InBatch 2012 R2 using the Configurator.

File Help Imatch Settings Imatch Server Enable InBatch Redundancy Support Imatch Remote Development Client Enable InBatch Redundancy Support Imatch History Server Enable InBatch Component Support	🛱 Configurator	
InBatch Settings InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client Enable InBatch Redundancy Support InBatch History Server Enable InBatch Component Support	File Help	
Configuration Messages System Configuration: Vindows Server 2008 R2 Service Pack 1 Microsoft. NET Framework: version 2.0.50727.5420 version 3.5.30729.5420 version 3.5.30729.5420 version 3.5.30729.5420 version 3.6.30729.5420 version 4.0.30319	File Help	Settings Enable InBatch Bedundancy Support Enable I/A Component Support Support System Configuration: Windows Server 2008 R2 Service Pack 1 Microsoft. NET Framework: version 3.030729.5420 version 4.0.30319

FIGURE 2: INBATCH CONFIGURATOR

5. When configuring the InBatch Server options, you will see a check box for Batch Events (Figure 3 below).

Leave this option unchecked, then return to it after you finish installing the System Platform 2012 R2 components and deploying a Platform. You need to have a Platform deployed before the Batch Events can be configured. Configuration occurs on the GR node

later in the Tech Note.

ľ	🖶 Configurator			_
	File Help			
	InBatch General InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client InBatch History Server	System Configuration InBatch History Server Node Name Information Server Node Name Share InBatch Folder	localhost localhost 🗸	
		Batch Events		
		GR Node Name		
		Galaxy Name		

FIGURE 3: INBATCH SERVER: DO NOT CHECK THE BATCH EVENTS OPTION

6. Configure the InBatch History Server.

📳 Configurator		_
File Help		
⊡ (1) InBatch 	System Configuration	localhost
InBatch Remote Development Clier InBatch Remote Runtime Client	In Batch History Database Name	BatchHistory
annbatch history Server	In Batch Archive Database Name	BatchArchive
	SQL Login Information	
	Windows Authentication SQL Server Authentication	
	User Name	WIN-11KF5UOO4N9\jimgo
	Password	
	Database Configuration	
	Use Existing InBatch History Database	
	Use Existing InBatch Archive Database	
	Configuration Messages	
	Checking for "\\\VIN-1IKF5UOO4N9\InBatch" "\\VIN-1IKF5UOO4N9\InBatch" folder is shar Validating shortcut items under Start menu Shortcut items are properly configured under Validating registry entries Registry entries were updated properly. Validating "Modeanure Middleurere Meet" or	'shared folder on Batch Server node red on Batch Server node. · Start menu.
	"Wonderware Middleware Host service is ru Validation of InBatch Server configuration is Starting InBatch History Server Prerequisite Internet Information Server (IIS) version cher	inning. complete. check check
I >	Valid Microsoft Internet Information Server (I Internet Information Server (IIS) version chec InBatch History Server Prerequisite check is	IIS) version id "7.5" is found on this ma ck is complete. completed.

FIGURE 4: INBATCH HISTORY SERVER

The InBatch History Server configuration completes with no errors (Figure 5 below).

🚰 Configurator		_
File Help		
InBatch General InBatch Server InBatch Server InBatch Remote Development Clier	System Configuration	localhost
InBatch Remote Runtime Client	InBatch History Database Name	BatchHistory
InBatch History Server	InBatch Archive Database Name	BatchArchive
	SQL Login Information	
	 Windows Authentication 	
	C SQL Server Authentication	
	User Name	WIN-11KF5UOO4N9\jimgo
	Password	
	Database Configuration	
	Use Existing InBatch History Database	
	Use Existing InBatch Archive Database	
	Configuration Messages	
	Configuration of "InBatchAppPool" application Configuration of "AdminWeb" virtual directory Assigning "InBatchAppPool" application pool Assignment of "InBatchAppPool" application p	n pool is complete. ris complete. to virtual directory pool to "AdminWeb" virtual directory is
	Starting addition of InBatch site name to Loca InBatch site name: [http://WIN-1IKF5UOO4N9 Intranet Trusted sites.	I Intranet Trusted sites)] successfully added to the Local
	Addition of InBatch site name to Local Intrane Starting creation of History Database Adminis Creation of History Database Administration	t Trusted sites is complete. stration Start menu item Start menu item is complete.

FIGURE 5: CONFIGURATION SUCCESSFUL

- 7. Install the System Platform 2012 R2 Runtime components and IDE on the InBatch Server node.
- 8. Click the **Product Based Selection** option.

Archestra System Platform 2012 R2 Installation	
Select the installation mode you would like to proceed with	i ú v, e ú e. a e.
Select installation type	
 Product Based Selection ArchestrA System Platform Computer Roles 	This option shows the selections corresponding to the individual products for installation.
View Install Guide	xt > Cancel

FIGURE 6: PRODUCT BASED SELECTION

9. Click the Application Server Runtime and the Application Server Development options.

ArchestrA System Platform 2012 R2 Installat	tion	
Select the option(s) you would like to install.		iņveņs∵⊐s
Select the product(s) to be Installed Wonderware InTouch 2012 R2 InTouch Development and Runtime InTouch Runtime Only Wonderware Application Server 2012 R2 Application Server Runtime Application Server Development Application Server Galaxy Repository PDF Documentation Historian 2012 R2 Historian Client 2012 R2 Wonderware Information Server 2012 R2		Install the components required to configure ArchestrA applications.
View Install Guide	< Back Next	t > Cancel

FIGURE 7: APPLICATION SERVER RUNTIME AND DEVELOPMENT COMPONENTS ON THE INBATCH SERVER NODE

10. Only the IDE and Boot Strap are installed (Figure 8 below).

ArchestrA System Platform 2012 R2 Installation	
The following Products will be installed on your machine. To change selection or destination, select "Customize Installation".	i ú v, er ú er a e.
The following products and/or components will be installed.	The Bootstrap is the base ArchestrA service and is required on all ArchestrA machines.The Bootstrap is a common component All features will use 65327 KB
Destination Folder C:\Program Files (x86)	
	Customize Installation
View Install Guide	

FIGURE 8: BOOTSTRAP AND IDE COMPONENTS

- 11. Install the InBatch Components for ArchestrA IDE/IEE by clicking Start.
- 12. Click the **Modify** option.



FIGURE 9: MODIFY THE INBATCH 2012 R2 INSTALLATION

13. Add the InBatch Components for ArchestrA IDE/IEE per the install.

Wonderware InBatch 2012 R2 Installation	
Please select which features you would like installed, and specify the destination folder for the installed files.	Wonderware
The following products and/or components will be installed. InBatch InBatch Server InBatch History Server InBatch Remote Development Client InBatch Remote Runtime Client InBatch Reporting Content InBatch Components for ArchestrA IDE/IEE InBatch Documentation	Installs InBatch Components for ArchestrA IDE/IEE.
Destination Folder C:\Program Files (x86)\Wonderware\InBatch	Browse,
View Install Guide < Back N	ext > Cancel

FIGURE 10: ADD THE INBATCH COMPONENTS FOR ARCHESTRA IDE/IEE

14. Go the GR node and install the InBatch Components for ArchestrA IDE/IEE.

Wonderware InBatch 2012 R2 Installation	
Please select which features you would like installed, and specify the destination folder for the installed files.	Worderware
The following products and/or components will be installed. InBatch InBatch Server InBatch History Server InBatch Remote Development Client InBatch Remote Runtime Client InBatch Reporting Content InBatch Components for ArchestrA IDE/IEE InBatch Documentation	Installs InBatch Components for ArchestrA IDE/IEE.
Destination Folder C:\Program Files (x86)\Wonderware\InBatch	Browse
View Install Guide < Back Ne	ext > Cancel

FIGURE 11: INSTALL INBATCH COMPONENTS ON THE GR NODE

Wonderware InBatch 2012 R2 Installation	
Ready to Install the Application	Worderwore
Installation is now prepared to complete installation of the product. Select Install to begin the installation.	
····· InBatch	
View Install Guide < Back	Install Cancel

FIGURE 12: READY TO INSTALL INBATCH COMPONENTS

15. Deploy a Platform to the Batch sever node.

🔀 ArchestrA IDE			
<u>G</u> alaxy <u>E</u> dit <u>V</u> iew <u>O</u> bject InBatch <u>W</u> indow	<u>H</u> elp		
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Second state Toolbox 🗸 🕈 🗙			
IB10DemoGR			
		Deploy	
		Deploying selected objects Validating connected galaxy	
✓ ✓ ✓		Checking whether objects being dep Sorting and Validating 1 object(s) st Deploying 1 Platform(s) starting with	oloyed require software upgrade arting from WinPlatform_001 hosted by platform WinPla n WinPlatform_001 hosted by IB10DemoGR
➡ Deployment ➡ ➡ × ■ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		6% completed	
			Cancel

FIGURE 13: DEPLOY PLATFORM TO INBATCH SERVER

16. Go to the Batch Server node and open the Configurator. Click InBatch Server.

f <mark>e Configurator</mark> File Help		
E InBatch General InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client InBatch History Server	System Configuration InBatch History Server Node Name Information Server Node Name Share InBatch Folder	10.2.128.58 10.2.128.58
	GR Node Name Galaxy Name	

FIGURE 14: ADD BATCH EVENTS TO THE GR AND GALAXY NODES

- 17. Click Batch Events and add the correct GR Node Name and Galaxy Name.
- 18. Click Configure. You will see the last message InBatch server feature configuration is complete.

🖶 Configurator			_ 🗆 X
File Help			
 InBatch General InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client InBatch History Server 	System Configuration InBatch <u>H</u> istory Server Node Name <u>I</u> nformation Server Node Name <u>S</u> hare InBatch Folder	WIN-1IKF5UOO4N9 WIN-1IKF5UOO4N9	
	GR Node Name Galaxy Name	WYOIOM-2008R2 IB10DemoGR	
	Configuration Managan		
	Configuration Messages Configuration of ArchestrA Alarms and Eve Starting configuration of InBatch ASB Even Instance of the service is created and assi InBatchEventService_WIN-11KF5UOO4N9 Instance of the service is deployed on the InBatchEventService_WIN-11KF5UOO4N9 Configuration of InBatch ASB Event Service Starting creation of Environment Display S Creation of Environment Display Start men Starting "Wonderware Middleware Host" ser "Wonderware Middleware Host" service "InBatch_HistQReader" service "InBatch_HistQReader" service started su	ents is complete. t Service gned to the Batch Server node: Batch Server node: e is complete. tart menu item u item is complete. ervice arted successfully. ccessfully.	•

FIGURE 15: "INBATCH SERVER FEATURE CONFIGURATION IS COMPLETE" MESSAGE

- When the InBatch Server Configuration is successful, proceed to Step 19 (below).
- When the InBatch Server Configuration is not successful, you will see an error message similar to Figure 16 (below). Proceed to

the Diagnostic Checkpoints section (below).

File Help		
InBatch General InBatch Server InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client InBatch History Server	System Configuration InBatch History Server Node Name Information Server Node Name Share InBatch Folder	WIN-1IKF5UOO4N9 WIN-1IKF5UOO4N9
	GR Node Name Galaxy Name	wyoiom-2008R2 IB10DemoGR
	Configuration Messages Windows Firewall is properly configured wit Validating existence of Config_A folder Config_A folder exists at C:\Program Files (Checking for "\\\VIN-11KF5UOO4N9\InBatch	th InBatch TCP/IP ports and applications.
	"\\WIN-1IKF5UOO4N9\InBatch" folder is sha Validating shortcut items under Start menu Shortcut items are properly configured under Validating InBatch ASB Event Service Failed to connect to Configuration Service of Validating registry entries Registry entries were updated properly. Validating "Wonderware Middleware Host" service is r Validation of InBatch Server configuration is	er Start menu. er Start menu. en node: wyoiom-2008R2 service status unning. a complete.

FIGURE 16: INBATCH SERVER FAILED TO CONNECT MESSAGE

Diagnostic Checkpoints

The node name in the error string should be the GR Node from which the Platform is deployed.

1. On the GR node open regedit and check the following.

• Make sure the node registration string key **EndPointLocalDiscovery** machine value is the GR node machine name. If not change it to the correct name.

• The String key ServiceRepositorynode matches the GR node machine name.



FIGURE 17: CLEAN UP THE REGISTRY

- 2. Start the IDE on the GR node and connect to the Galaxy.
- 3. On the main menu, click Galaxy/Configure/Service Discovery.

3	🕺 ArchestrA IDE															
1	<u>G</u> alaxy <u>E</u> dit <u>V</u> iew <u>O</u> bject InBat			<u>W</u> indow	<u>H</u> elp											
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	P	Save Ctrl+S														
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		Import •														
		Export •														
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	3	Galaxy St <u>a</u> tus		<u>V</u> iew Se	curity											
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	to D	eployment		Service	<u>D</u> iscovery											
	±	🚰 IB10DemoGR	۲	<u>A</u> rchest	rA Services											

FIGURE 18: IDE/SERVICE DISCOVERY

4. When you open the Service Discovery window you will see the Primary node has an IP address. This is not correct. We need to add the GR node machine name here.

Service Discovery Configuration	×
Local Galaxy Server	
Primary node:	
127.0.0.0	
Secondary node: (optional)	
Cross Galaxy Server	
Primary node:	
Secondary node: (optional)	
inis configuration must match all paired Galaxies	
OK Cancel	ו

FIGURE 19: LOCAL GALAXY SETTING

5. Type the machine name in the **Primary node** field and click **OK** (Figure 20 below).

Service Discovery Configuration	×
Local Galaxy Server	
Primary node:	
wyoiom-2008r2	
Secondary node: (optional)	
Cross Galaxy Server	
Primary node:	
Secondary node: (optional)	
This configuration must match all paired Galaxies	
OK Cancel	

FIGURE 20: REGISTERED/NETWORK SERVER NAME

6. Return to the InBatch Server and stop/restart the ArchestrA Watchdog Service.



FIGURE 21: STOP/START THE ARCHESTRA WATCHDOG SERVICE

7. After the Watchdog Service starts, restart the Configurator and Configure the InBatch Server (Figure 22 below).

and the second s					
File Help					
InBatch General InBatch Server InBatch Server InBatch Remote Development Clier InBatch Remote Runtime Client InBatch History Server	System Configuration InBatch History Server Node Name Information Server Node Name Share InBatch Folder	r Node Name WIN-11KF5UOO4N9 de Name WIN-11KF5UOO4N9			
	Batch Events				
	GR Node Name	wyoiom-2008R2			
	Galaxy Name	IB10DemoGR			
	Configuration Messages Configuration of ArchestrA Alarms and Ever	nts is complete.			
	Starting configuration of InBatch ASB Event Instance of the service is already created ai InBatchEventService_WIN-1IKF5UOO4N9 Instance of the service is already deployed InBatchEventService_WIN-1IKF5UOO4N9 Configuration of InBatch ASB Event Service Starting creation of Environment Display Start Creation of Environment Display Start menu Starting "Wonderware Middleware Host" ser "Wonderware Middleware Host" service sta Starting "InBatch_HistQReader" service "InBatch_HistQReader" service started suc	Its is complete. Service nd assigned to the Batch Server node: on the Batch Server node: is complete. art menu item item is complete. rvice rted successfully.			

FIGURE 22: INBATCH SERVER CONFIGURATION COMPLETE

Continue with the InBatch Event Services Configuration

19. On the GR, verify that the service was created on the GR node by clicking Galaxy\Configure\Archestra Services.

3	💥 ArchestrA IDE							
111	<u>G</u> ala	xy <u>E</u> dit <u>V</u> iew <u>O</u> bject InBat	ch <u>)</u>	<u>W</u> indow <u>H</u> elp				
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	Ø	Open Ctrl+0	-	₽ ×				
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		Close Ctrl+F4						
	7	<u>S</u> ave Ctrl+S	Ctrl+S					
		Save A <u>l</u> l						
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		<u>E</u> xport •						
		Con <u>fig</u> ure		Security				
	8	Galaxy St <u>a</u> tus		View Security				
	2	P <u>r</u> operties Alt+Enter		<u>T</u> ime Master				
	%	Change <u>G</u> alaxy		Communications Management				
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				Multi Gala <u>x</u> y				
]	te de la constante de la const	eployment		Service <u>D</u> iscovery				
	±	🚰 IB10DemoGR	0	ArchestrA Services				

FIGURE 23: CONFIGURE/ARCHESTRA SERVICES

20. Click **Event Service** to verify the InBatchEventService was created.

Configure ArchestrA Services									
🤞 🔚 🕺 🐼 🗙 🖬 🎒 🔤 🧐									
E PIB10DemoGR	InBatchEventService_WIN-1IKF5UOO4N9								
ASBGRBrowsingService ASBMxDataProviderService ASBAuthenticationService	Configuration Da	ta for the Event Service Instance							
EventService	TCP/IP Port:	3575							
	Event Buffer Size:	10000							
	▲ Assignments								
٩	■ WIN-11KF5U004N9	/0I0M-2008R2							
Services 👔 Nodes	Update Reset								
Connection successful.									

FIGURE 24: INBATCHEVENTSERVICE CREATED ON GR

Configure ArchestrA Services							
刘 🔚 刘 🐼 🗙 🖬 🎒 🎫 🧐							
🖃 🥩 IB10DemoGR	InBatchEventService_WIN-1IKF5UOO4N9						
ASBGRBrowsingService ASBMxDataProviderService ASBAuthenticationService	Configuration Data for the Event Service Instance						
EventService	TCP/IP Port: 3575						
InBatchEventService_WIN-1IKF5UOO4N9	Event Buffer Size: 10000						
	Assignments						
٩	₩ WIN-11KF5U004N9 WY0IOM-2008R2						
Services 👔 Nodes	Update Reset						
InBatchEventService_WIN-1IKF5UOO4N9:Service Instanc	InBatchEventService_WIN-1IKF5UOO4N9:Service Instance Is Currently In Deployed State;						

FIGURE 25: INBATCHEVENTSERVICE IS DEPLOYED

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