Tech Note 798

Installing and Configuring Wonderware Information Server (WIS) Series: Installing WIS 2012 To a Non-System Drive on Windows 7 and 2008 (32- or 64- Bit)

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Introduction

Installing WIS on a non-system drive can be necessary in certain cases. However, WIS has several dependencies that must be configured when installing on a drive other than the system drive. In most cases the system drive will be C. This Tech Note outlines the configuration process to ensure a correct installation.

Note: Be sure to read the Known Issues section at the end of this Tech Note. This tech Notes assumes the all the System Platform 2012 is installing in the same Machine, but setup can be configured for individual products like WIS 2012.

Application Versions

- Wonderware Information Server 2012
- Microsoft SQL Server 2008 SP1 (32-bit only)
- Microsoft Office 2007
- Microsoft SharePoint Services 3.0 SP2

Note: SharePoint Services 3.0 is required for the 32-bit OS simply to leverage the Multiviews feature in Information Server (SharePoint Services 2.0 is no longer supported in WIS 2012). Multiviews Functionality is disabled for the 64-Bit OS.

Installation Overview

This installation scenario requires:

- · Ensure IIS is installed on the Default drive.
- Install product files.

Preparation

- Ensure that a compatible version of Historian is already installed and properly running. The Historian can be on the same machine, or on another network machine.
- Ensure that SQL Server 2008 is configured for SQL Server and Windows Authentication mode.
- Ensure IIS is installed on the Default Drive and then moving it to non-system drive.

Ensure IIS is Installed on the Default Drive

Use the WIS Mover utility to ensure IIS is installed on the default Drive and to move it to the non-system drive.

1. Download and extract Move_IIS_Final.zip to your local hard drive.

- 2. Run Move_IIS_Final.exe.
- 3. Type the target IIS root directory and click the Move button (Figure 1 below).

WED HOVE	<u>- 🗆 ×</u>
File Actions Help	
Current IIS Root C:Ninetpub	
Target IIS Root e:\inetpub	
Status	<u></u>
key: Software \Microsoft \InetStp value: MajorVersion baseKey is not null Condition: (value != string.Empty && registryKey != null) is true.	
	~

Note: This utility only works with a default installation of IIS and SharePoint. If you have any other application like Information Server installed the **Move** button will be diabled and you can't use the Utility to move the IIS to other drives. Please contact Wonderware Tech support for more details.

Verify that the operation was successful by reading the Status panel. At this point you have a chance to revert the changes if you like (Figure 2 below):

WIS Mover			_0>
File Actions Help			
Current IIS Root	e:\inetpub		
Target IIS Root	C:\inetpub		
Status			
Key: Software Wild baseKey is not null Condition: (value != Enter SetSystemPa Enter StopIIS()Stop Copy IIS Inetpub Enter MoveAppPoi Enter MoveLogFile Enter ConfigHistoy Enter UpdateBool Enter StartIIS()Star IIS has moved and	estring.Empty && registryKey != null) is true. th()Enter SetWISPortalPath()Start to backup IIS IIS ollsolationDir()Move AppPool isolation directory Directories()Move logfile directories cocations()Move config history location SETERect()Make sure Service Pack and Hotfix Installers know IIS started!	Ν	
Microsoft Wind	ows 7 Enterprise - 32 bit	Exit	Revert

FIGURE 2: TECH SUPPORT IIS MOVER UTILITY INTERFACE

In case you decide to revert the changes, you may get the message that Inetpub directory already exists (Figure 3 below):



FIGURE 3: TECH SUPPORT IIS MOVER UTILITY ERROR MESSAGE

The Target directory shouldn't exit for this operation to complete properly.

However, you might not be able to delete that directory because you are not the owner of some of the files in that directory, and need to take ownership. When you try to delete the file you see an error message. Figure 4 (below) shows the message and the actual file (AdminScripts).



FIGURE 4: ERROR ON DELETING THE INETPUB DIRECTORY

• Click Cancel.

To Fix This Issue

- 1. Locate and right-click the problem directory and click Properties.
- 2. Click the Security tab and click the Advanced button.
- 3. Click the **Owner** tab and then click **Edit**.
- 4. Check the Replace owner on subcontainers and objects option, then click the Other users or groups button.
- 5. Select the current user name, and then click Check names (Figure 5 below). The current user should have local Administrator permissions.

ou can take or assign owner	Select User or Group	?
	Select this object type:	
bject name: C:\inetpub'	User, Group, or Built-in security principal	Object Types
urrent owner:	From this location:	
TrustedInstaller	HPVMWIN732	Locations
hange owner to:	Enter the object name to select (examples):	
Name	HPVMWIN732\Administrator	Check Names
Administrator (HPVMWI) Administrators (HPVMWI)		
	Advanced	Cancel
-		
Other users or groups		

FIGURE 5: TAKING THE OWNERSHIP OF THE INETPUB DIRECTORY.

6. Click Apply. You might see a Windows Security message (Figure 6 below):

Advanced Security Settings for Admir	1Scripts
Dwner	
You can take or assign ownership of this obj Object name: C:\inetpub\AdminScripts	ect if you have the required permissions or privileges.
Current owner:	indows Security
TrustedInstaller Change owner to: Name Administrator (HPVMWIN732\Admin Administrators (HPVMWIN732\Admin	If you have just taken ownership of this object, you will need to dose and reopen this object's properties before you can view or change permissions.
Other users or groups	
 Heplace owner on subcontainers and ob Leam about object ownership 	jects
	OK Cancel Apply

FIGURE 6: APPLY THE NEW OWNERSHIP TO THE INETPUB DIRECTORY

7. Click OK, then OK.

You might also have to change the Default permission for the current user:

- 1. Right-click on the directory that generated the message and click Properties.
- 2. Click the Security tab, then click Advanced.
- 3. Click the Permissions tab and then Change Permissions (Figure 7 below):

Dbject name: C:\inetpub\custerr Group or user names: & CREATOR OWNER & SYSTEM	To view de Object nan Permission	etails of a permission entry, dou ne: C:\inetpub\custerr entries:	ble-click the entry. To	o modify permissions, cli	ck Change Permissions.
& Administrators (HPVMWIN732\Administrators)	Туре	Name	Permission	Inherited From	Apply To
Set Licens (HPVMWIN732\Licens)	Allow	Users (HPVMWIN732\U	Special	<not inherited=""></not>	This folder only
	Allow	Administrators (HPVMWI	Special	<not inherited=""></not>	This folder only
o change permissions, click Edit. Edit	Allow	STATEM	Special	<not inherited=""></not>	This folder only
ermissions for CREATOR	Allow	Trustedinstaller	Full control	C:\inetpub\	This folder, subfolders an
WNER Allow Deny	Allow	SYSTEM	Full control	C:\inetpub\	This folder, subfolders an
Full control	Allow	Administrators (HPVMWI	Full control	C:\inetpub\	This folder, subfolders an
Modify	Allow	Users (HPVMWIN732\U	Read & execute	C:\inetpub\	This folder, subfolders an
Read & execute	Allow	CREATOR OWNER	Special	C:\inetpub\	Subfolders and files only
List folder contents					
Read					
Wite	Change	Permissions			
or special permissions or advanced settings. Advanced eam about access control and permissions	Managing	e inheritable permissions from th permission entries	iis object's parent		

FIGURE 7: CHANGE THE PERMISSIONS FOR THE CURRENT USER

- 4. Select the current user, then click the Edit button.
- 5. Click the Full Control option for the current user. This setting allows the changes to propagate to child objects (Figure 8 below):



FIGURE 8: CHANGE THE PERMISSIONS FOR THE CURRENT USER

Make sure you can browse the following files before proceeding to the next task.

- http://localhost/Reports/Pages/Folder.aspx
- http://localhost/ReportServer
- http://localhost

Installing WIS 2012

Installing WIS 2012 on an alternate drive is a three-step process.

Begin installing ArchestrA System Platform 2012 by double-clicking the Setup file on the DVD root.

Note: The ArchestrA System Platform DVD contains the entire System platform product range. For this *Tech Note* it is assumed that all the Wonderware System Platform products are being installed on the same system, but there are other options available. You can View complete Install Guide by clicking the **View Install Guide** button (Figure 9 below).

1. Click the ArchestrA System Platform Computer Roles option and click Next.



FIGURE 9: ARCHESTRA SYSTEM PLATFORM COMPUTER ROLES

2. Click the All-in-one Node option and click Next.

Install all the ArchestrA System Platform components required to host, develop, run, visualize, analyze	4
and report applications.	
	applications.

FIGURE 10: ALL-IN-ONE NODE OPTION

3. Notice C:\Program Files installation location is selected by Default. Check the Customize Installation option and then click Next (Figure 11 below).

Application Server The Box Bootstrap IDE Galaxy Repository Archest	otstrap is
Application Server Documentation machine - PDF Documentation Bootstr - BootStrap Documents - - IDE Documents - - GR Documents - - R Docum	and is d on all trA es. The ap is a n component ures will use kB
Destination Folder	1

FIGURE 11: CUSTOMIZE INSTALLATION

4. Click **Browse** and change the Destination Folder to your location. In this example it is **E:\Program Files**. You might have to create the destination directory manually.

n Server		귀	-
Event		101	
ration Tools		151	
n Runtime		1	×
Dev			
ouch Development		-1	
Documencation			
	in Server Event iration Tools h Runtime h Dev ouch Development h Documentation	in Server Event iration Tools h Runtime h Dev ouch Development h Documentation	In Server

file:///C|/inetpub/wwwroot/t002582/t002582.htm[1/11/2012 10:33:32 AM]

FIGURE 12: PROVIDE ALTERNATE DESTINATION DIRECTORY

- 5. Click Next.
- 6. Follow the Installation Wizard to the end and click Configure.



FIGURE 13: COMPLETE THE INSTALLATION

7. Click **Reboot Now** to reboot the computer. Reboot in order to install the ActiveFactory Language Packs. If you don't reboot now you cannot use the language packs later.



FIGURE 14: REBOOT TO COMPLETE THE INSTALLATION

8. Ensure Active Factory Language Packs are installed by opening Start > Control Panel > Add/Remove Programs.



FIGURE 15: LANGUAGE PACKS IN CONTROL PANEL

9. Open Configurator by clicking Start > Wonderware > Common > Configurator. You can customize the following items.

• For Historian Server you can designate the Database/data paths.

e <u>H</u> elp		
Wonderware Information Server Information Server ActiveFactory Reporting ArchestrA Reporting MultiViews Sample Content Wonderware Historian Historian Server	Database Information Database Path: E:\Program Files\Microsof Data Path: E:\Historian\Data Historian Database	SQL ServerVMSSQL10.MSSQLSERV
	Service Configuration Replication TCP Port: 32568 Auto Start Historian SQL Login Information SQL Login Information SQL Server Authentication User Name: Password:	Start Applications Launch InTouch Tag Importer Launch License Manager <u>Cognect</u>
	Configuration Messages System Configuration: Microsoft Windows Server 2003 Standard Edition Service Pack 2 Microsoft .NET Framework: Version 1.1.4322 Version 1.2.30729 Version 3.2.30729 Version 3.5.30729.01 Historian prerequisite check is started Pre-Requisite:SQLServer is met Historian prerequisite check is completed Starting SQLSERVER service Successfully Connected the SQL Server	

FIGURE 16: CONFIGURATOR OPTIONS: HISTORIAN DATA PATHS

• For Information Server you can designate the Virtual Folder Name.

Wonderware Information Server		
ActiveFactory Reporting ActiveFactory Reporting	Web Configuration	····
-(1) MultiViews	Database Configuration -	
Sample Content	Server	HP2K3IIS_NOSQL
Historian Server	Authentication Mode	
	<u>U</u> ser Name	HP2K3IIS_NOSQL\Administrator
	Personal	
	Application Account	
	User <u>N</u> ame	HP2K3IIS_NOSQL\Administrator
	Password	20
	Confirm Password	KK .
	Licerse Status	
	Server License	LINKNOWN License Manager
	Write Enable License	UNKNOWN
	End RunHistorianCfg Lonfiguration is competed suc End Configure System Configuration: Microsoft Windows Server 20 Standard Edition Service Pack 2 Microsoft .NET Framework: version 2.2.30729 version 3.2.30729 version 3.2.30729 version 3.2.30729 version 3.2.30729 version 3.2.30729 version 3.2.30729	ccesstully 103 e check has started. e check is complete.

FIGURE 17: VIRTUAL FOLDER NAME FOR INFORMATION SERVER

• For ActiveFactory Reporting you can designate the Virtual Folder Name.

e <u>H</u> elp			
Wonderware Informa Wonderware Information Information Serve ActiveFactory Re ActiveFactory Re	tion Server er sporting <u>V</u> irtual F	nfiguration older Name	AF
MultiViews Sample Content Wonderware Historian Historian Server	n <u>S</u> elect D	n Data Source Data Source Dr	 Define <u>N</u> ew Historian Data Source
	Historiar S <u>e</u> rver SQL Ad SQL Ad	n Configuration min User Name min User <u>P</u> assword	sa
New Historian	New Historian DataSource	Form	
	Data Source Details Data Source Name	Historian1	
	Database <u>S</u> erver Name	HP2K3IIS_NOS	GQL
	Database <u>N</u> ame	Runtime	
	Integrated Security	E	
	Historian <u>U</u> ser Name :	sa	
	Historian User Password :	1	
	Connection <u>Timeout</u>	0	
	Query Timeout	0	
	Provider	SQLNCLI10	
		-	
Refresh /	Has HTTP mode	- Andrewski - A	D D

FIGURE 18: ACTIVEFACTORY REPORTING WEBSITE VIRTUAL FOLDER NAME AND SECURITY

Known Issues

This section provides a list of Known Issues and their workarounds.

Information Server-Related Services Are Not installed Due to Nested Directory Chosen for Inetpub

If you are using a nested Directory for your Inetpub directory like E:\pub\inetpub\ Configurator fails to install the WIS-related Services.

You will see the following error in the Configurator when setting up the Information Server portion (Figure 19 below):

	Configurator		
	File Help		
	Wonderware Information Server Wonderware Information Server ActiveFactory Reporting ArchestrA Reporting MultiViews	Web Configuration	ww
	Sample Content Wonderware Historian Historian Server	Server Authentication Mode	HPVMWIN732 Windows C SQL
Message Detail Date:	View 11/21/2011 Time: 11:07:00 AM	User Name Password	HPVMWIN732\Administrator
User Name: Product Name: Feature Name: Action:	Administrator Wonderware Information Server Information Server	Application Account User Name Password Confirm Password	HPVMWIN732\JAS
Message:	"rdbhandler.exe" service not found in the specified location "e:\app \Scripts\FSWebSvr\RDB\rdbhandler.exe".	Ucense Status Server License Write Enable License	FAILED License Manager
Message Details:	service not found to register in SCM.	Configuration Messages	
		Configuration Messages Configuring RDBHandler Service not response of the service not configuring awinroot access Configuring MIME types on w Configuring ArchestrA graphic Configuring LMX Publisher Configuring WCF Service	vice lound in the specified location IB robhandler exe s control eb server cs database

FIGURE 19: FILE NOT FOUND IN NESTED HIERARCHY

In this case the Information Server services fail to install due to a bug in Configurator, which is planned for fixing in the next major release of Wonderware Information Server.

The Workaround is to use the Move_IIS_Final.exe Utility to manually install the Services.

1. Click Actions/Install WIS Services.



FIGURE 20: MOVE_IIS UTILITY ACTION MENU

2. Verify the Information Server-related Services are properly installed and started (Figure 21 below).

Services (Local)						
and a second second	Services (Local)					
	Wonderware Historian	Name -	Description	Status	Startup Type	Log On A: +
	SystemDriver	S Wonderware Historian MDASServer	Manages d	Started	Manual	Local Syst
		G Wonderware Historian Replication	Replicates	Started	Manual	Local Syst
	Stop the service	🖓 Wonderware Historian Retrieval	Manages d	Started	Manual	Local Syst
	restort ofe service	G Wonderware Historian SCM	Tracks runt	Started	Automatic	Local Syst
	- 1912	🖓 Wonderware Historian Storage	Processes	Started	Manual	Local Syst
	Description:	Culture demonstration Cystem Delver	C	Charles	Manual	Local Syst
	stores the results in system tags.	Wonderware License Manager		Started	Automatic	Local Syst
		Wonderware NetDDE Helper			Manual	Local Syst
		Sk Wonderware RunTime DB Handler		Started	Automatic	Local Syst
		Wonderware SuiteLink		Started	Automatic	Local Syst
		Wonderware SuiteVoyager Alarm Consumer	1	Started	Automatic	Local Syst -
		4				1.

FIGURE 21: INFORMATION SERVER-RELATED SERVICES

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