MAMERICAN INNOVATIONS

PCS Axis[®] v1.6 Single User New Installation (Non-Client/Server)

June 2014

Introduction

American Innovations (AI) is pleased to announce version 1.6 of our Pipeline Compliance System Axis[®] software (PCS Axis[®]). This document explains how to install the following items on a user's local computer running in a non-client/server environment:

- Microsoft[®] SQL Server[®] Express 2008 R2 SP2 with Tools
- PCS Axis software, job service, and database
- PCS Axis Connection Manager

Topics in this document include those in the following list:

- PCS Axis Best Practices (page 2)
- Installation Requirements (page 9)
- Identifying Your Version of Windows 7 (page 11)
- Downloading and Installing SQL Server Express 2008 R2 SP2 with Tools (page 12)
- Installing PCS Axis (page 13)
- Activating Your PCS Axis License (page 20)
- Activating Your Bridge Import License (page 21)
- Starting PCS Axis Job Service (page 22)
- Product Support and Training (page 25)

If you have questions or need assistance with the installation, contact <u>PCS Technical Services</u> using the contact information on page 25.



PCS Axis Best Practices

PCS Axis Best Practices is a series of topics demonstrating best practices for setting up the PCS Axis[®] database and related services on a network server running Microsoft[®] SQL Server[®] 2008 R2. Topics include those in the following list:

- PCS Axis Job Service
- PCS Axis Database (page 4)
- SQL Server (MSSQLServer) Service (page 7)

PCS Axis Job Service

Run the *PCS Axis Job Service* under a domain account or a SQL Server account with access to the server and PCS Axis database. To set up *PCS Axis Job Service*, follow these steps:

- Click the Windows Start button and navigate to Computer. Right-click Computer and select
 Manage in the shortcut menu to open the Computer Management console (Figure 1).
- 2 Double-click **Services and Applications** in the left pane of the console. Then click **Services** to display a list of services in the middle pane.

Tomputer Management							x
File Action View Help							
◆ → 2 🔽 😳 G 🕞	2 🗊 🕨 🖩 🖬 🕨						
Computer Management (Local	() Services					Actions	
System Fools	PCS Axis Job Service 1.6	Name	Description	Status	Startup Type ^	Services	-
A B Services and Applications	Charles the second second	Office Software Protection Platform	Enables the download, installatio		Manual	More Actions	•
b Statement Information See	2001 the service	G Offline Files	The Offline Files service performs		Disabled	DCS Juir Job Service 1.6	
🔐 Services		Sa Parental Controls	This service is a stub for Window		Manual		
WMI Control	Description:	PCS Axis Job Service 1.6	Monitors the PCS Axis job queue,		Automatic	More Actions	· '
SQL Server Configuratic	initiation jobs as they become	Peer Name Resolution Protocol	Enables serverless peer name res		Manual		
	available.	Peer Networking Grouping	Enables multi-party communicat		Manual		
		Peer Networking Identity Manager	Provides identity services for the		Manual		
		Reformance Logs & Alerts	Performance Logs and Alerts Col		Manual		
		🖓 Plug and Play	Enables a computer to recognize	Started	Automatic		
		Operation Property Provide American Structure Control of Contro	The PnP-X bus enumerator servi		Manual		
		PNRP Machine Name Publication Service	This service publishes a machine		Manual		
		Portable Device Enumerator Service	Enforces group policy for remov		Manual		
		G Power	Manages power policy and powe	Started	Automatic		
		Rint Spooler	Loads files to memory for later pr	Started	Automatic		
		Problem Reports and Solutions Control	This service provides support for		Manual		
		Program Compatibility Assistant Service	This service provides support for	Started	Manual **		
		Reprotected Storage	Provides protected storage for se		Manual		
		Quality Windows Audio Video Experience	Quality Windows Audio Video Ex		Manual 🔄		
		Remote Access Auto Connection Mana	Creates a connection to a remote		Manual		
		Remote Access Connection Manager	Manages dial-up and virtual priv		Manual		
		Remote Desktop Configuration	Remote Desktop Configuration s		Manual		
		Remote Desktop Services	Allows users to connect interacti		Manual		
		Remote Desktop Services UserMode Por	Allows the redirection of Printers		Manual		
		Remote Procedure Call (RPC)	The RPCSS service is the Service	Started	Automatic		
		Remote Procedure Call (RPC) Locator	In Windows 2003 and earlier versi		Manual		
		Remote Registry	Enables remote users to modify r		Manual		
		Routing and Remote Access	Offers routing services to busines		Disabled		
		C RPC Endpoint Mapper	Resolves RPC interfaces identifier	Started	Automatic		
		Secondary Logon	Enables starting processes under		Manual		
		Secure Socket Tunneling Protocol Service	Provides support for the Secure S		Manual		
	1	Security Accounts Manager	The startup of this service signals	Started	Automatic		
		Country Prates	The WOYSW AWadowe Security	Chadad	A downshie H		
<	Extended Standard						
	(

Figure 1. Computer Management Console



- **3** Right-click **PCS Axis Job Service 1.6** and select **Properties** in the shortcut menu to open the *Properties* dialog box (Figure 2).
- 4 Click the **Log On** tab and select the option **This account**.
- 5 Set up PCS Axis Job Service with a user account to log on as a service using a domain account or a SQL Server account with access to the server and PCS Axis database. Type the user name and password in the appropriate fields (*This account, Password, Confirm Password*). You can also view a list of appropriate user account by clicking *Browse > Advanced > Find Now*.

NOTE: The user account must be a member of the *Axis_Users* group and have access to the database server and PCS Axis database.

- 6 Click **Apply** and then **OK** to close the *Properties* dialog box and return to the *Computer Management* console.
- 7 Click File > Exit to close the Computer Management console.



Figure 2. PCS Axis Job Service 1.6 Properties



PCS Axis Database

Information in this section covers best practices for managing the PCS Axis database using Microsoft[®] SQL Server[®] Management Studio (SSMS). Topics include those in the following list:

- Setting the Database Owner
- Recommended Autogrowth Setting (page 5)

Setting the Database Owner

To prevent errors from occurring when migrating or restoring the PCS Axis database, or when establishing a connection, set the "Owner" of the database using the "sa" account. To set the database "Owner" follow these steps:

- Start SQL Server Management Studio (SSMS). Click Start > Microsoft SQL Server 2008 R2 > SQL Server Management Studio.
- 2 Double-click the **Databases** folder in *Object Explorer* to open the folder.
- **3** Right-click the **PCS Axis database** and select **Properties** in the shortcut menu to open the *Database Properties* dialog box (Figure 3).
- 4 Select **Files** in the *Select a page* navigation panel.
- 5 Type sa in the Owner field. Then click **OK** to save changes and close the dialog box.

间 Database Properties - PcsAp	pDev					
Select a page	🔄 Script 🔻 🛐 He	þ				
Files Filegroups	Database name:		PcsAppDev			
Change Tracking	Owner:		sa			
Extended Properties	Database files:	ang				
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth	Path
	PcsAppDev_dat	Rows Data	PRIMARY	83	By 10 percent unrest	c:\Program Files\Micro
	PcsAppDev log	Log	Not Applicable	43	By 10 percent, restric	c:\Program Files\Micro
Connection						
Server: SERVERNAME\SQLEXPRES						
Connection: DOMAINname\user name						
View connection properties						
Progress						
Ready	•	III			Add	Remove
						OK Cancel

Figure 3. Database Owner



Recommended Autogrowth Setting

Information in this section applies to the PCS Axis database and log file. If you are running PCS Axis in a client/server network with synchronization, the information also applies to the publication and subscription databases.

Autogrowth indicates how much additional space is allocated when the PCS Axis database and log file require more space. Setting *Autogrowth* properties allow the PCS Axis database and log file to resize automatically based on a predetermined percentage. Because the database resizing process is a significant drain on computer resources, it is recommended that you set properties in a manner that does not allow the database to constantly resize itself.

NOTE: When using PCS Axis with synchronization, set *Autogrowth* properties after you create the publication and subscription databases.

To set *Autogrowth* properties for the database (*dat*) and log (*log*) files, follow these steps:

- 1 Start SSMS. Click Start > Microsoft SQL Server 2008 R2 > SQL Server Management Studio.
- 2 Double-click **Databases** in *Object Explorer*.
- **3** Right-click the PCS Axis database and select **Properties** in the shortcut menu to open the *Database Properties* dialog box.
- 4 Click Files in the Select a page navigation panel (Figure 4).

间 Database Properties - PcsApp	Dev					
Select a page	🔄 Script 🔻 🛐 He	lp				
Filegroups	Database name:		PcsAppDev			
Change Tracking Permissions	Owner: √ Use full-text index	king				
Extended Properties	Database files:					
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth	Path
Database _dat file -	PcsAppDev_dat	Rows Data	PRIMARY	83	By 10 percent, unrestricted growth	c:\Program Files\Microso
Database _log file _	PcsAppDev_log	Log	Not Applicable	43	By 10 percent, restricted growth t	c:\Program Files\Microso
Connection Server: SERVERNAME\SQLEXPRES Connection: DOMAINname\user name I View connection properties						
Progress						
Ready	•				Add	Remove
					(OK Cancel

Figure 4. Files - Database Properties



- **5** Complete the following steps to set *Autogrowth* properties for the database (*dat*) and log (*log*) files:
 - **a** Click the ... ellipsis button in the *Autogrowth* column of the database _*dat* file to open the *Change Autogrowth* dialog box (Figure 5).
 - **b** Click the **Enable Autogrowth** check box to place a check mark inside the check box.
 - **c** For the *File Growth* property setting, select the option **In Percent** and then type **10** in the adjacent field. This property setting automatically allocates 10% additional space when the database requires more space.
 - d Click **OK** to close the *Change Autogrowth* dialog box.
 - e Repeat step 5 for the database _log file.
 - f Click **OK** to close the *Database Properties* dialog box. Then click **File** > **Exit** to exit SSMS.

Change Autogrowth for PcsAppD	ev_dat	X
Enable Autogrowth		
File Growth		
 In Percent 		10 🜩
🔘 In Megabytes		10
Maximum File Size		
Restricted File Growth (MB)		100 🚖
Our Unrestricted File Growth		
	ОК	Cancel

Figure 5. Change Autogrowth



SQL Server (MSSQLServer) Service

Run the Windows *SQL Server (MSSQLSERVER)* service under a domain account with access to the PCS Axis database. To set up the service, follow these steps:

- 1 Click the Windows **Start** button 🚱 and navigate to *Computer*. Right-click **Computer** and select **Manage** in the shortcut menu to open the *Computer Management* console (Figure 6).
- 2 Double-click **Services and Applications** in the left pane of the console. Then click **Services** to display a list of services in the middle pane.

Tomputer Management								x
File Action View Help								
(* *) 2 🗊 🗉 🌚 🖬								
E Computer Management (Local)	 Services 						Actions	
System Tools	SOL Server (MSSOLSERVER)	Name	Description	Status	Startup Type		Services	
Storage	Second insidestitute	(3) Eathurs Destaction	Eachles the doubles		Automatic /D		More Actions	
A By Services and Applications	Stop the service	SPR Notification Service	Provider Software Lic		Manual Manual		more eccords	
Septimer Information Services	Pause the service	SOI Active Directory Helper Service	Enables integration w.		Automatic		SQL Server (MSSQLSERVER)	
di WMI Control	Kestart the service	SOL Server (MSSOLSERVER)	Provides storage pro-	Started	Manual		More Actions	
SOL Server Configuration Ma		SOL Server (SOLEXPRESS)	Provides storage, pro-	Started	Automatic			
, a second	Description	SOL Server Agent (MSSOLSERVER)	Executes jobs, monito	Started	Automatic			
	Provides storage, processing and	SOL Server Agent (SOLEXPRESS)	Executes jobs, monito		Automatic			
	transaction processing.	SOL Server Browser	Provides SOL Server c	Started	Automatic			
		SOL Server VSS Writer	Provides the interface	Started	Automatic			
		C SSDP Discovery	Discovers networked	Started	Manual			
		C Storage Service	Enforces group policy		Manual			
		C Superfetch	Maintains and impro	Started	Automatic			
		Symantec Endpoint Protection	Provides virus-scanni	Started	Automatic			
		Q Symantec Event Manager	Event propagation an	Started	Automatic			
		Symantec Management Client	Provides communica	Started	Automatic			
		Symantec Network Access Control	Checks that the com		Disabled			
		Symantec Settings Manager	Settings storage and	Started	Automatic			
		System Event Notification Service	Monitors system eve	Started	Automatic			
		Carlot PC Input Service	Enables Tablet PC pe		Manual	ni.		
		😪 Task Scheduler	Enables a user to conf	Started	Automatic			
		TCP/IP NetBIOS Helper	Provides support for t	Started	Automatic			
		🔍 Telephony	Provides Telephony A		Manual			
		🔍 Themes	Provides user experie	Started	Automatic			
		Charles Contering Server	Provides ordered exec		Manual			
		Control Con	Enables access to the		Manual			
		C UPnP Device Host	Allows UPnP devices		Manual			
		S User Profile Service	This service is respon	Started	Automatic			
		G Virtual Disk	Provides managemen		Manual			
		C Volume Shadow Copy	Manages and implem		Manual			
		Web Management Service	The Web Manageme		Manual	*		
		¥.(•			
(m) →	Extended Standard /						I	_

Figure 6. Computer Management Console

3 Right-click **SQL Server (MSSQLSERVER)** and select **Properties** in the shortcut menu to open the *Properties* dialog box (Figure 7).



Figure 7. SQL Server (MSSQLSERVER) Properties



- 4 Click the **Log On** tab and select the option **This account**.
- 5 Set up SQL Server (MSSQLSERVER) with a user account to log on as a service using a domain account with access to the PCS Axis database. Type the user name and password in the appropriate fields (*This account, Password, Confirm Password*). You can also view a list of appropriate user account by clicking *Browse > Advanced > Find Now*.
- 6 Click **Apply** and then **OK** to close the *Properties* dialog box and return to the *Computer Management* console.
- 7 Click **File** > **Exit** to close the *Computer Management* console.



Installation Requirements

Before installing PCS Axis, verify the following items are available and the computer meets the system requirements identified in Table 1 (page 10):

- PCS Axis License File: The installation prompts you for the PCS Axis license file provided by AI.
- Bridge Import License File: If your company purchased the optional Bridge add-on to import data from a third-party application, activating Bridge import for operation requires the license file provided by AI.

NOTE: A Bridge license file is not required to import data from Bullhorn® Asset Tracker (BAT[™]) or export data from PCS Axis. You can maintain all PCS Axis licenses for your organization in the same shared folder location. PCS Axis will request the file and location the first time each user opens the PCS Axis application. The Bridge activation key is assigned only once for the PCS Axis database; once it is assigned it functions for all users.

- Microsoft[®] SQL Server[®] 2008 R2 SP2 Express with Tools: Before installing PCS Axis on a remote client computer, download and install SQL Server Express 2008 R2 SP2 from the Microsoft website. The installation provides the database engine required to run PCS Axis as well as database management tools, such as SQL Server Management Studio (SSMS). See page 12 for download and installation instructions.
- *PCS Axis Installation File*: Install PCS Axis using either the installation DVD provided by AI or the installation file downloaded from a location identified in an email from PCS Technical Services.
- System Requirements: Verify the computer meets the system requirements identified in Table 1 (page 10).



Table 1. System Requirements

Properties	Minimum	Recommended
Processor	Intel Core i5 or faster	Intel Core i7 or faster
Processor Speed	1.4 GHz or faster	2.0 GHz or faster
RAM	8 GB	16 GB (see note)
Operating System	Windows 7 32-bit or 64-bit, Service Pack 1 (SP1)	Windows 7 32-bit or 64-bit, Service Pack 1 (SP1)
Relational Database Software	SQL Server Express 2008 R2 SP2	SQL Server Express 2008 R2 SP2
Available Disk Space	10 GB	100 GB
Resolution	1280x1024	1920x1080
Microsoft .NET Framework	Version 4 (see note)	Version 4 (see note)

NOTES:

- Larger databases may require more RAM for optimum performance.
- If the target computer does not have Microsoft[®] .NET Framework v4.0 installed, the PCS Axis installation automatically installs it. This feature requires an active Internet connection to complete the installation of .NET Framework v4.0.
- The installation installs the PCS Axis application, database, and job service on the local computer of a single user in a non-client/server network.



Identifying Your Version of Windows 7

Information in this section explains how to determine if your computer is running the 32-bit or 64-bit version of the Windows 7 operating system. Knowing this information will help you choose the correct Microsoft SQL Server Express 2008 R2 SP2 installation file for the PCS Axis installation.

To determine which version of Windows 7 is running on your computer:

 Click the Windows Start button and then right-click Computer. Select Properties in the shortcut menu to open the System information window (Figure 8).

Information in the *System type* field identifies which version of the Windows 7 operating system is running on your computer.



Figure 8. Windows System Information



Downloading and Installing SQL Server Express 2008 R2 SP2 with Tools

Complete the following steps to download and install SQL Server Express 2008 R2 SP2 with Tools:

- 1 Visit the Microsoft Download Center at <u>http://www.microsoft.com/download/</u>.
- 2 Type SQL Server 2008 R2 SP2 Express Edition in the search bar and then click the \mathcal{P} search button.
- 3 Click the link Microsoft® SQL Server® 2008 R2 SP2 Express Edition to open the product download page.

Note: Information related to the installation is available when clicking the \oplus expand button for any of the following items: *Details, System Requirements, Install Instructions,* and *Related Resources*.

- 4 Click **Download** to open a page with a list of files available for download.
- **5** If your computer is running the 32-bit version of Windows 7, complete the following steps to download and install the installation file labeled *SQLEXPRWT_x86_ENU.exe*:
 - a Click the check box for the installation file labeled **SQLEXPRWT_x86_ENU.exe**. Then click **Next** to begin the download.
 - **b** To install, double-click the **SQLEXPRWT_x86_ENU.exe** installation file and follow on-screen prompts. PCS Axis functions normally with a default installation set up with all default options.
- **6** If your computer is running the 64-bit version of Windows 7, complete the following steps to download and install the installation file labeled *SQLEXPRWT_x64_ENU.exe*:
 - a Click the check box for the installation file labeled **SQLEXPRWT_x64_ENU.exe**. Then click **Next** to begin the download.
 - **b** To install, double-click the **SQLEXPRWT_x64_ENU.exe** installation file and follow on-screen prompts. PCS Axis functions normally with a default installation set up with all default options.



Installing PCS Axis

Information in this section explains how to install PCS Axis on the local computer of a single user in a nonclient/server network. Tasks include those in the following list:

- Install the PCS Axis software and job service.
- Use Connection Manager to connect to an instance of SQL server.
- Use Connection Manager to install a blank database or select the test database provided with PCS Axis.

Note: Connection Manager is a utility software provided with PCS Axis. You can use the utility to install a blank database, upgrade an existing database, and create entries for connection settings to other PCS Axis databases.

Complete the following steps:

1 If you are using the installation DVD to install PCS Axis, insert the DVD in the DVD/CD-ROM drive of the computer. Open Windows Explorer to view the contents of the installation DVD.

If you previously downloaded the installation file using a link in an email from PCS Technical Services, navigate to the location of the installation file.

Note: A single installation file labeled *setup.exe* is used to install PCS Axis on a 32-bit and 64-bit computer. If the target computer does not have Microsoft .NET Framework v4.0 installed, the PCS Axis installation automatically installs it. This feature requires an active Internet connection to complete the installation of .NET Framework v4.0.

2 Double-click the **setup.exe** installation file to open the PCS Axis dialog box (Figure 9).



Figure 9. PCS Axis Installation

3 Click Install in the PCS Axis dialog box (Figure 9) to open Setup Wizard (Figure 10, page 14).



4 Click **Next** to read the *End-User License Agreement*. To accept the license agreement, click the check box **I accept the terms in the License Agreement** to place a check mark inside the check box.

PCS Axis (32 bit) 1.6 Setup	
	Welcome to the PCS Axis (32 bit) 1.6 Setup Wizard
	The Setup Wizard will install PCS Axis (32 bit) 1.6 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	A M E R I C A N I N N O VATION 5
	Back Next Cancel

Figure 10. Setup Wizard

- **5** Click **Next** to display *Custom Setup* (Figure 11).
- By default the provide the provided and select the option of the provided and select the option of the provided and the provided and the select the option of the provided and the provided and the select the option of the provided and t
- 7 Click **Next** and then click **Install** to begin the installation.



Figure 11. Custom Setup



When the installation completes and after a short delay, *Connection Manager* opens automatically on top of *Setup Wizard* (Figure 12).

es sous connection manager		Internation Law Int	
Axis Connection Manager	_	🕒 Save and Close 🗄	Save 🛛 🔀 Clos
Connections	Default	会 Make Defa	ult 🔀 Delete
Default (Primary)	_ ^		
	V Primary	🛷 Activate 🙆 Test 🎯	Create / Upgrade
	Secur	DB_SERVER	Select
	Database	DB_INITIAL_CATALOG	Select
	Connection String	Data Source=DB_SERVER:Initial Catalog=DB_INITIAL_CATALOG;Integrated Security=True	1
			智 Corre
	Subscription	√ Activate (◎)	Test 🥔 Clea
	Server		Selec
	Database		Selec
	Connection String		
			Sector 1

Figure 12. Connection Manager

- **8** Complete step "a" or "b" in the *Primary* group box of *Connection Manager* to connect to the SQL server instance (Figure 12):
 - **a** Type the name of the SQL server instance in the **Server** field. When entering the name, also include the name of the local computer. Use the following format when entering information in the *Server* field:

LocalComputerName\LocalSQLServerInstanceName

– or –

Click Select in the Server field to open the Select Server dialog box (Figure 13, page 16).
 Select the SQL server instance and then click Close to close the dialog box and return to Connection Manager.

Note: The *SQL Server Express 2008 R2* installation automatically creates a default server instance. The default server instance is identified in the *Select Server* dialog box with a period and also as .*SqlExpress*. See the next figure for an example (Figure 13, page 16).

9 Continue either with step 10 to create and connect to a new empty PCS Axis database or step 11 (page 18) to connect to the test database provided with PCS Axis.



Select Server			• X
Server	Instance	Version	
MyComputerName	SQLEXPRESS	10.50.4000.0	
	SqlExpress		
	1		L
			Close

Figure 13. Select Server

- **10** Complete the following steps in the *Primary* group box of *Connection Manager* to create and connect to a new empty PCS Axis database. If needed, you can also use these same steps to create a new empty database for training purposes.
 - a Type a name for the new database in the Database field and then click Create/Upgrade.
 When a message displays asking if you want to create the database, click Yes to begin the process. The Create Or Update Database window opens displaying status information during the process (Figure 14, page 17).
 - **b** When the message *Update Completed* displays at the bottom of the *Create Or Update Database* window, click **Close** to close the window and return to *Connection Manager*.



Create Or Update Database	
Using connection string: Data Source=JohnSmithNBW7\SQLEXPRESS;Initial	Catalog=MyNewDatabase_Integ
Checking for existing database 'MyNewDatabase'.	
Waiting for database 'MyNewDatabase' to be created.	
Waiting for database 'MyNewDatabase' to be created.	
Waiting for database 'MyNewDatabase' to be created.	
Created new database 'MyNewDatabase'.	
Executing initial schema.	
Database is currently at version 0.0.0.0	
Executing Scripts.UpdateRelease.001.000.000.0_version_update.sql.	
Executing Scripts.UpdateRelease.001.001.000.0_version_update.sql.	
Executing Scripts.UpdateRelease.001.002.008.0_version_update.sql.	
Executing Scripts.UpdateRelease.001.003.012.0_version_update.sql.	
Executing Scripts.UpdateRelease.001.004.015.0_version_update.sql.	
Executing Scripts.UpdateRelease.001.005.020.0_version_update.sql.	
Database is currently at version 1.6.14.0	
Database created. Please wait	
Database audit starting	
Running hierarchy validation.	
Validating root node.	
Adding new root node.	
Validating orphans.	
Validating folders above level count.	
Validating top level folders.	
Validating duplicate leaf nodes.	
Validating missing leaf nodes.	
Validating folder names.	
Validating non-folder names.	
Validating missing folders.	
Validating empty folders.	
Running fix for soft delete orphans.	
Running fix for missing base information records.	
Found 0 missing base Pipeline Information records.	
Checking all facilities for missing information.	
Fixed O micrino have Facility Information records	
	🖸 Clos

Figure 14. Create Or Update Database

c Click 🕑 **Test** in *Connection Manager* to verify the connection to the server and database. When the message *Connection successful* displays, click $\sqrt[4]{OK}$ to close the message.

If the connection to the server and database failed, verify the name of the SQL server instance is correct (previously set up in step 8, page 16) and the Windows service labeled *SQL Server* (*SQLEXPRESS*) is running. To verify the service is running, follow these steps:

- (1) Click the Windows 🚱 Start button and then right-click Computer. Select Manage in the shortcut menu to open the *Windows Computer Management* console.
- (2) Open Services and Applications and then click Services.
- (3) Navigate to *SQL Server (SQLEXPRESS)* and verify *Started* displays in the *Status* column. If the service is not running, select the service and then click **Start** in the upper left-hand area of the window (Figure 15, page 18).
- (4) Click File > Exit to close Windows Computer Management.



The Computer Management							×
File Action View Help							
🗢 🔿 🙇 🖬 🖾 😂 📓							
Computer Management (Local)	Q ₁ Services					Actions	
System Loois	SQL Server (SQLEXPRESS)	Name	Description	Status	*	Services	•
Services and Applications	Start the service	Software Protection	Enables the download, installation and enforcemen			More Actions	۲
Internet Information Service	6	SPP Notification Service	Provides Software Licensing activation and notifica Enabler integration with Active Directories			SQL Server (SQLEXPRESS)	
WMI Control	Description:	SOL Server (MSSOLSERVER)	Provides storage, processing and controlled access	Started		More Actions	•
SQL Server Configuration M	Provides storage, processing and	Q SQL Server (SQLEXPRESS)	Provides storage, processing and controlled access				
	concurso a costa o casa, en reput transaction processing.	SQL Server Agent (MSSQLSERVER) SQL Server Agent (SQLSERVERS) SQL Server Agent (SQLESVERESS) SQL Server Stower SQL Server Stower SQL Server Stower SQL Server Stower SQL Server Manager Symantec Endpoint Protection Symantec Server Manager Symantec Network Access Control Symantec Network Access Control Symantec Settings Manager Symantec Network Access Control Symantec Settings Manager Symantec Settings Manager Symantec NetWork Access Control Symantec Settings Manager Symantec NetWork Access Control Symantec NetWork Access Control Symantec NetWork Access Control Symantec NetWork Access TorAP NetWISO Helper TorAP NetWISO Helper Thread Ordering Server Thread Ordering Server Symantec NetWise Host WPP Device Host	Executes jobs, monitons SQL Server, fires alters, and. Executes jobs, monitons SQL Server, fires alters, and. Provides SQL Server connection information to clie Provides SQL Server connection information to clie Provides the interface to backup/restore Microsoft Discovers networked devices and services that use Lu- Amatians and improves system performance over Provides virus-scenning for Symamtec Endpoint Pr Event propagation and longing service Provides computer compilers with the define Settings storage and management service Monitors system events and notifies subscribers to Enables Tablet PC pen and ink functionality Enables a user to configure and schedule automate Provides user cognience and cotting subscribers to Provides user cognience and schedule automate Provides user cognience devices for the VERBOS over TCP/IP Devi Provides user cognience devices for the provides user cound for the VERBOS event TCP/IP Devi Provides user cognience tentime management. Provides user cognience tentime management. Enables access to the Trusted Platform Module (TP Ellows UPm) devices to be host cont	Started Started Started Started Started Started Started Started Started Started Started	E		
· •	Extended / Standard /	Cose Profile Service Virtual Disk Virtual Disk Volume Shadow Copy Web Management Service	This service is responsible for loading and unloadin Provides management services for disk, volumes, Manages and implements Volume Shadow Copies The Web Management Service enables remote and	Started ,	•		

Figure 15. SQL Server (SQLEXPRESS) Service

- **d** In *Connection Manager*, click **(2) Test** to verify the connection to the server and database. If a connection cannot be established, contact PCS Technical Services using the contact information on page 25.
- e Click P Save and Close to exit Connection Manager.
- **f** Click **Finish** in *Setup Wizard* and then click **Close** in the PCS Axis dialog box to close the PCS Axis installation file (Figure 9, page 13).
- g Continue with the next section Activating Your PCS Axis License (page 20).
- **11** Complete either step "a" or "b" in the *Primary* group box of *Connection Manager* (Figure 12, page 15) to connect to the test database provided with the PCS Axis software:
 - **a** Type **pcsappdev** in the *Database* field. This field is not case sensitive. Then continue with step "c" (page 19).

- or -

b Click Select in the Database field to open the Select Database dialog box (Figure 16, page 19). Select PcsAppDev and then click Close to return to Connection Manager. Continue with step "c" (page 19).



ľ	Select Database		Ŋ
F	DataboundTestsDatabaseTest	*	
Ľ	master		
Ľ	model		
	nsdb		
	PcsAppDev		
ŀ	tempdb		
1			
		v	
	Clo	se	

Figure 16. Select Database

c Click 📀 **Test** in *Connection Manager* to verify the connection to the server and database. When the message *Connection successful* displays, click **V OK** to close the message.

If the connection to the server and database failed, verify the name of the SQL server instance is correct (previously set up in step 8, page 16) and the Windows service labeled *SQL Server* (*SQLEXPRESS*) is running. To verify the service is running, follow these steps:

- (1) Click the Windows 🚱 Start button and then right-click Computer. Select Manage in the shortcut menu to open the Windows Computer Management console.
- (2) Open Services and Applications and then click Services.
- (3) Navigate to the *SQL Server (SQLEXPRESS)* service and verify *Started* displays in the *Status* column. If the service is not running, select the service and then click **Start** in the upper left-hand area of the window (Figure 15, page 18).
- (4) Click File > Exit to close Windows Computer Management.
- (5) In *Connection Manager*, click O **Test** to verify the connection to the server. If a server connection cannot be established, contact PCS Technical Services using the contact information on page 25.
- **d** Click **P** Save and Close to exit *Connection Manager*.
- e Click **Finish** in *Setup Wizard* and then click **Close** in the PCS Axis dialog box to close the PCS Axis installation file (Figure 9, page 13).
- f Continue with the next section Activating Your PCS Axis License (page 20).



Activating Your PCS Axis License

Activating the PCS Axis software for operation requires the license file provided by AI at the time you purchased the PCS Axis software. If you are unable to locate your license file, contact PCS Technical Services for assistance. See the contact information on page 25.

To activate the PCS Axis software for operation, follow these steps:

- 1 Click the Windows Start button and navigate to the program folder labeled *PCS Axis 1.6*. Click to open the program folder and then click **PCS Axis 1.6** to launch the software.
- 2 When the Activation Key message opens, click **V** OK and then locate and select your PCS Axis activation key (Figure 17).

Acti	vation Key
	Your user account does not have an active license. In order to activate this user account, you will need to select a *.lic license file. If you have not received this file, please contact support.
	🗹 OK 🛛 🚳 Cancel

Figure 17. Activation Key

- **3** When the *License Agreement* window opens, click **V I** Agree.
- 4 Continue the installation with one of the following steps:
 - **a** If your company purchased the optional Bridge add-on, continue with the next section entitled *Activating Your Bridge Import License* (page 21).

-or-

b If your company did not purchase the optional Bridge add-on, continue with the section entitled *Starting PCS Axis Job Service* (page 22).



Activating Your Bridge Import License

If your company purchased the optional Bridge import add-on, running a Bridge import for the first time requires you to activate Bridge using the license file provided by AI.

NOTE: A Bridge license is required only for those operations that use the *Basic Bridge* function to import data. Operations using the *Bullhorn Bridge* function to import data do not require a Bridge import license. Likewise, using Bridge to export data from PCS Axis also does not require a Bridge license.

To activate Bridge import for operation, follow these steps:

- 1 If PCS Axis is not running, click **Start** > **PCS Axis** to launch the software. Or, click the desktop shortcut **PCS Axis** if one is available.
- 2 Click Tools > Job Service Viewer to open the Job Service Console window (Figure 18).
- 3 Click Activate Bridge Import License. When the *Activation Key* dialog box opens, navigate to the license file and select it. Then click **Open** to close the dialog box and return to the *Job Service Console*.

The message *Valid* now displays in the *License* field. If *Not Valid* is displaying instead, contact PCS Technical Services for assistance using the contact information on page 25.

For information about how to set up and use Bridge, click **Tools** > **Bridge** and then click the **(B)** help button to open a help topic.

4 Continue the installation with the next section entitled Starting PCS Axis Job Service (page 22)



Figure 18. Job Service Console

PCS Axis v1.6 Single User New Installation (Non-Client/Server) pcstechservices@aiworldwide.com



Starting PCS Axis Job Service

The purpose of *PCS Axis Job Service* is to monitor the PCS Axis job queue, initiating jobs as they become available. The following procedure explains how to use Windows Services to start *PCS Axis Job Service*.

Complete the following steps:

- Click the Windows Start button and navigate to Computer. Right-click Computer and select
 Manage in the shortcut menu to open the Computer Management console (Figure 19).
- 2 Double-click **Services and Applications** in the left pane of the console. Then click **Services** to display a list of services in the middle pane.

ile Action View	v Help					
• • 💼 🖬	a 🕞 🖬 📰 🕨 🖩 🗛 👘					
Services (Local)	Services (Local)					
	PCS Axis Job Service 1.6	Name	Description	Status	Startup Type	Log On As
		Office Software Protection Platform	Enables the download, installatio		Manual	Network Service
	Start the service	G Offline Files	The Offline Files service perform		Disabled	Local System
		Revental Controls	This service is a stub for Window		Manual	Local Service
	Description:	C PCS Axis Job Service 1.6	Monitors the PCS Axis job queue		Automatic	Network Service
	Monitors the PCS Axis job queue,	Peer Name Resolution Protocol	Enables serverless peer name res		Manual	Local Service
	initiating jobs as they become	Peer Networking Grouping	Enables multi-party communicat		Manual	Local Service
	available.	Reer Networking Identity Manager	Provides identity services for the		Manual	Local Service
		Reformance Logs & Alerts	Performance Logs and Alerts Col		Manual	Local Service
		Relig and Play	Enables a computer to recognize	Started	Automatic	Local System
		R PnP-X IP Bus Enumerator	The PnP-X bus enumerator servi		Manual	Local System
		R PNRP Machine Name Publication Service	This service publishes a machine		Manual	Local Service
		Portable Device Enumerator Service	Enforces group policy for remov		Manual	Local System
		Q Power	Manages power policy and powe	Started	Automatic	Local System
		Print Spooler	Loads files to memory for later p	Started	Automatic	Local System
		Reports and Solutions Control	This service provides support for		Manual	Local System
		Reprogram Compatibility Assistant Service	This service provides support for	Started	Manual	Local System
		C Protected Storage	Provides protected storage for se		Manual	Local System
		Quality Windows Audio Video Experience	Quality Windows Audio Video Ex		Manual	Local Service
		Remote Access Auto Connection Mana	Creates a connection to a remot		Manual	Local System
		Remote Access Connection Manager	Manages dial-up and virtual priv		Manual	Local System
		Remote Desktop Configuration	Remote Desktop Configuration s		Manual	Local System
		Remote Desktop Services	Allows users to connect interacti		Manual	Network Service
		Remote Desktop Services UserMode Por	Allows the redirection of Printers		Manual	Local System
		Remote Procedure Call (RPC)	The RPCSS service is the Service	Started	Automatic	Network Service
		Remote Procedure Call (RPC) Locator	In Windows 2003 and earlier versi		Manual	Network Service
		a Remote Registry	Enables remote users to modify r		Manual	Local Service
		Routing and Remote Access	Offers routing services to busine		Disabled	Local System
		RPC Endpoint Mapper	Resolves RPC interfaces identifier	Started	Automatic	Network Service
		Secondary Lonon	Enables starting processes under		Manual	Local System

Figure 19. Computer Management Console

- **3** Right-click **PCS Axis Job Service 1.6** (Figure 19) and select **Properties** in the shortcut menu to open the *Properties* dialog box (Figure 20, page 23).
- 4 Click the Log On tab and select the option Local System account. Then click the check box Allow service to interact with desktop.
- **5** Click **Apply** and then **OK** to close the *Properties* dialog box and return to the *Computer Management* console.



CS Axis Job Service 1.6 P	roperties (Local Computer)
General Log On Recov	very Dependencies
Log on as:	
Local System account Allow service to information of the service of the servic	t teract with desktop
This account:	Browse
Password:	
Confirm password:	
Help me configure user a	ccount log on options.
1	
	OK Cancel Apply

Figure 20. PCS Axis Job Service 1.6 Properties

- 6 Select PCS Axis Job Service 1.6 and then click Start (Figure 21).
- 7 Click File > Exit to close the Computer Management console.

le Action View	Help				
Services (Local)	O Senices (Local)				
	Services (Local)	1	Developing	C 1.1	C
	PLS Axis Job Service 1.6	Name	Description	status	startup i
	Start the renside	G Office Software Protection Platform	Enables the download, installation, and enforce		Manual
	- N	G Offline Files	The Offline Files service performs maintenance		Disabled
	100	Reparental Controls	This service is a stub for Windows Parental Cont		Manual
	Description:	PCS Axis Job Service 1.6	Monitors the PCS Axis job queue, initiating jobs		Automat
	Monitors the PCS Axis job queue,	Peer Name Resolution Protocol	Enables serverless peer name resolution over the		Manual
	available.	Reer Networking Grouping	Enables multi-party communication using Peer		Manual
		Peer Networking Identity Manager	Provides identity services for the Peer Name Res		Manual
		🔅 Performance Logs & Alerts	Performance Logs and Alerts Collects performa		Manual
		🧠 Plug and Play	Enables a computer to recognize and adapt to h	Started	Automa
		端 PnP-X IP Bus Enumerator	The PnP-X bus enumerator service manages the		Manual
		PNRP Machine Name Publication Service	This service publishes a machine name using th		Manual
		Portable Device Enumerator Service	Enforces group policy for removable mass-stora		Manual
		Rower 2	Manages power policy and power policy notific	Started	Automa
		A Print Spooler	Loads files to memory for later printing	Started	Automat
		Reports and Solutions Control	This service provides support for viewing, sendi		Manual
		Reprogram Compatibility Assistant Service	This service provides support for the Program C	Started	Manual
		C Protected Storage	Provides protected storage for sensitive data, su		Manual
		Quality Windows Audio Video Experience	Quality Windows Audio Video Experience (gWay		Manual
		Remote Access Auto Connection Mana	Creates a connection to a remote network when		Manual
		Remote Access Connection Manager	Manages dial-up and virtual private network (VP		Manual
		Remote Deckton Configuration	Remote Deckton Configuration service (RDCS) is		Manual
		Remote Desiton Services	Allows users to connect interactively to a remot		Manual
		Remote Desiton Services UserMode Por	Allows the redirection of Printers/Drives/Ports fo		Manual
		C Remote Procedure Call (PDC)	The PDCSS service is the Service Control Manag	Started	Automat
		Remote Procedure Call (RPC) Locator	In Windows 2002 and anties versions of Window	Junea	Manual
		C Para ata Panista :	Eachier company to use to me Company of Annabura.		Manual
		Rentice and Remote Access	Characteristics to moving registry settings		Dirabled
		PDC Federal Menore	Brockers PDC interferences to businesses in local are	State 4	Disabled
		Consider Lange	Resolves RPC interfaces identifiers to transport e	started	Automat
		vig secondary Logon	Lnaples starting processes under alternate crede		manual
		Secure Socket Tunneling Protocol Service	Provides support for the Secure Socket Tunnelin		Manual
		Security Accounts Manager	The startup of this service signals other services	Started	Automat
		Security Center	The WSCSVC (Windows Security Center) service	Started	Automat

Figure 21. Computer Management Console

8 Start PCS Axis and then click **Tools** > **Job Service Viewer**. Verify the message *Running* displays in the *Status* field (Figure 22, page 24).

The PCS Axis v1.6 installation is now complete. For information about how to set up and use PCS Axis, click the ^(G) help button in any window when running the software. Or click **Help** in the main menu of PCS Axis.



1	PCS Axis									×
F	ile Modules	Data Entry	Reports / Graphs	Tools Field Computer	Help 🚫 P	CS Axis	Welco	ome John Smith	0 🛛	Log Out
1	lob Service Co	nsole ×								
	Job Type A	I	*							
	Job Service	Status								
	Status	Running								
	Status Time License	3/30/2014 7 Valid	:05:01 PM							
	Queue						Reindex Database	Current Jobs	Job His	tory
	Job Ty	pe	Direction	State	Last Update					_
								(TH)	Pow Court	
									tow codm	

Figure 22. Job Service Console

9 Open the *About* window in PCS Axis to view information about the software and database version.
 Click Help > About PCS Axis to open the *About* window (Figure 23).

NOTE: Clicking *Copy To Clipboard* in the *About* window copies the following information to the Windows clipboard: database connection; software application version; and build information (date and time). After copying information to the clipboard, you can then paste it in an email or other type of document, such as Microsoft Word. Use this feature when contacting PCS Technical Services for support with PCS Axis.

The PCS Axis v1.6 installation is now complete. For information about how to set up and use PCS Axis, click the ⁽³⁾ help button in any window when running the software. Or click **Help** in the main menu of PCS Axis.



Figure 23. About PCS Axis



Product Support and Training

If you have a suggestion, question, feature request, or a bug to report-your feedback would be appreciated. Also if you have a training need for your organization or would like to know more about upcoming PCS Axis training classes, please use any of the following contact information to reach PCS Technical Services:

Support E-mail:	pcstechservices@aiworldwide.com
Support Telephone:	1-800-229-3404 (select 1, then press 2)
American Innovations:	http://www.aiworldwide.com