MAMERICAN INNOVATIONS

PCS Axis[®] v1.6 Client/Server New Installation (without Replication)

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 PCS Axis in a client/server network (Figure 1). The information is intended for the IT System Administrator, Database Administrator, and PCS Axis Administrator.

NOTE: Instructions for installing PCS Axis with replication (synchronization) in a client/server network are available in the document entitled *PCS Axis v1.6 Client Server New Install with Replication*.

Topics in this document include those in the following list:

- PCS Axis Best Practices (page 2)
- Installation Overview (page 9)
- Installation Requirements (page 10)
- Adding the Local Domain User Group Axis_Users (page 13)
- Restoring the PCS Axis Database and Setting Permission Roles (page 14)
- Installing PCS Axis Job Service (page 16)
- Starting PCS Axis Job Service (page 19)
- Installing the PCS Axis Application on a Local Client Computer (page 22)
- Setting Up Users in PCS Axis (page 27)
- PCS Axis Installation Checklist (page 28)
- Product Support and Training (page 29)

If you have questions or need assistance with the installation, contact <u>PCS Technical Services</u> using the contact information on page 29.



Figure 1. PCS Axis Client/Server Installation



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 2).
- 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.

E Computer Management							X		
File Action View Help									
🗢 🔿 🖄 📰 🖾 🔒	◆ ◆ Ź C C C B C → E C >								
Computer Management (Local	Services	Acti							
System Tools	PCS Axis Job Service 1.6	Name	Description	Status	Startup Type ^	Services	•		
A B Services and Applications		Office Software Protection Platform	Enables the download, installatio		Manual	More Actions	•		
🕞 💐 Internet Information Set	Start the service	🔍 Offline Files	The Offline Files service performs		Disabled	PCS Avir Job Service 1.6			
Services		Revenue Controls	This service is a stub for Window		Manual	respective and	-		
🚔 WMI Control	Description:	RCS Axis Job Service 1.6	Monitors the PCS Axis job queue,		Automatic	More Actions	,		
SQL Server Configuratic	initiating jobs as they become	Peer Name Resolution Protocol	Enables serverless peer name res		Manual				
	available.	Reer Networking Grouping	Enables multi-party communicat		Manual				
		Reer Networking Identity Manager	Provides identity services for the		Manual				
		Performance Logs & Alerts	Performance Logs and Alerts Col		Manual				
		C Dr.D. X ID Dr.s. Commenter	Enables a computer to recognize	started	Automatic				
		PhP-X IP Bus Enumerator	The PhP-X bus enumerator servi		Manual				
		Prixe Machine Name Publication Service Prixe Prixe Provide Construction	This service publishes a machine		Manual				
		Pontable Device Enumerator Service	Manager power policy and power	Started	Automatic				
		Print Spooler	Loads files to memory for later pr	Started	Automatic				
		Problem Reports and Solutions Control	This service provides support for	Junca	Manual				
		Program Compatibility Assistant Service	This service provides support for	Started	Manual E				
		Protected Storage	Provides protected storage for se-	otorico	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				
		🔍 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				
		Security Accounts Manager	The startup of this service signals	Started	Automatic				
		Constant Contra	The WSCSVC Allindour Security	Started	Automatic //				
+ m +	Extended (Standard /								

Figure 2. 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 3).
- 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 3. 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 4).
- 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 - PcsApp	oDev					
Select a page	Script 💌 🖪 Hel	n				
General		P				
Files						
Cotions	Database name:		PcsAppDev			
Change Tracking	Owner:		sa			
Permissions	Distant and the second		ĸ			
Extended Properties	Use full-text index	ung				
	Database files:					
	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	•					•
					Add	Pomouro
					Auu	
						OK Cancel

Figure 4. Database Owner

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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 5).

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 5. 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 6).
 - **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	×
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 6. 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 7).
- 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.

🌆 Computer Management							- 0 <mark>- ×</mark>
File Action View Help							
(+ +) 2 🖬 🖹 🖉 🖥							
Ecomputer Management (Local)	Services	_					Actions
Bystem Tools	SQL Server (MSSQLSERVER)	Name	Description	Status	Startup Type	^	Services 🖌
Storage Services and Applications		Software Protection	Enables the downloa		Automatic (D.		More Actions
Services and Applications	Stop the service	SPP Notification Service	Provides Software Lic		Manual		
Services	Pause the service	SQL Active Directory Helper Service	Enables integration w		Automatic		SQL Server (MSSQLSERVER)
WMI Control		SQL Server (MSSQLSERVER)	Provides storage, pro	Started	Manual		More Actions
SQL Server Configuration Ma		SQL Server (SQLEXPRESS)	Provides storage, pro	Started	Automatic		
	Provides storage processing and	SQL Server Agent (MSSQLSERVER)	Executes jobs, monito	Started	Automatic		
	controlled access of data, and rapid	🔍 SQL Server Agent (SQLEXPRESS)	Executes jobs, monito		Automatic		
	transaction processing.	SQL Server Browser	Provides SQL Server c	Started	Automatic		
		SQL Server VSS Writer	Provides the interface	Started	Automatic		
		SSDP Discovery	Discovers networked	Started	Manual		
		Storage Service	Enforces group policy		Manual		
		Superfetch	Maintains and impro	Started	Automatic		
		Symantec Endpoint Protection	Provides virus-scanni	Started	Automatic		
		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		
		Tablet BC legat Service	Final State Control State Cont	started	Automatic		
		Tablet PC Input Service	Enables Tablet PC pe	Started	Automatic		
		C TCP/IP NatPIOS Helper	Provider runnort for t	Started	Automatic		
		Crienhony	Provides Telephony A	Juneu	Manual	8	
		Chemes	Provides user experie	Started	Automatic		
		Chread Ordering Server	Provides ordered exec		Manual	-	
		C TPM Base Services	Enables access to the		Manual		
		Q UPnP Device Host	Allows UPnP devices		Manual		
		Q User Profile Service	This service is respon	Started	Automatic		
		🔍 Virtual Disk	Provides managemen		Manual		
		🔍 Volume Shadow Copy	Manages and implem		Manual		
		🔍 Web Management Service	The Web Manageme		Manual	-	
		÷	1		F		
×	Extended / Standard /					-	

Figure 7. Computer Management Console

3 Right-click **SQL Server (MSSQLSERVER)** and select **Properties** in the shortcut menu to open the *Properties* dialog box (Figure 8).



Figure 8. SQL Server (MSSQLSERVER) Properties

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- 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 Overview

Installation tasks covered in this document include those identified in the following list. The term *central database server* is used in this document to refer to a network server or host computer.

IT System Administrator Tasks

• Run *Windows Computer Management* on the central database server to create a local domain user group named *Axis_Users*. Add all PCS Axis users in the *Axis_Users* group with appropriate permissions to access the central database server. See *Adding the Local Domain User Group Axis_Users* (page 13).

Note: Remaining IT System Administrator tasks are completed when Database Administrator tasks are completed.

- Install the PCS Axis Job Service on the same server as the PCS Axis database or on a separate network server. See Installing PCS Axis Job Service (page 16).
- Start PCS Axis Job Service (see page 19).
- Install the PCS Axis application on the local computer of the PCS Axis Administrator and all other users. Use *Connection Manager* during the installation to set the server and database connection to the PCS Axis database on the central database server. See *Installing the PCS Axis Application on a Local Client Computer* (page 22).

Database Administrator Task

- Restore the PCS Axis database on the central database server using the database backup file provided by PCS Technical Services. See *Restoring the PCS Axis Database and Setting Permission Roles* (page 14).
- Create a new login for the PCS Axis database labeled *Axis_Users*. Set permission roles for the *Axis_Users* login to allow PCS Axis users access to the PCS Axis database. See *Restoring the PCS Axis Database and Setting Permission Roles* (page 14).

PCS Axis Administrator Task

Run the PCS Axis application to add all PCS Axis users in *User Management*. See *Setting Up Users in PCS Axis*, page 27.



Installation Requirements

Before installing PCS Axis, verify the following items are available and the client and server computers meet the system requirements identified in Table 1 (page 11) and Table 2 (page 12).

- *PCS Axis License File*: The installation process 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.

- *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 server and client computers meet the system requirements identified in Table 1 (page 11) and Table 2 (page 12).



Properties	Minimum	Recommended
Processor	Intel Itanium or faster	Intel Itanium or faster
Processor Speed	1.4 GHz or faster	2.0 GHz or faster
RAM	16 GB	32 GB (see note)
Operating System	Windows Server 2008 R2	Windows Server 2008 R2
Relational Database Software	SQL Server 2008 R2	SQL Server 2008 R2
Available Disk Space	200 GB (see note)	400 GB (see note)
Resolution	1280x1024	1920x1080

Table 1. Central Database Server Requirements (Client/Server Network)

NOTES:

- Larger databases may require more RAM for optimum performance.
- Consult with your company's IT personnel or DBA to determine where database backups will be created.
- The PCS Axis database installs on the central database server. If selected in *Setup Wizard* during the installation, the PCS Axis application and job service can also install on the central database server. For client computer requirements, see Table 2 (page 12).



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	4 GB	8 GB
Operating System	Windows 7 32-bit or 64-bit, Service Pack 1 (SP1)	Windows 7 32-bit or 64-bit, Service Pack 1 (SP1)
Available Disk Space	10 GB	100 GB
Resolution	1280x1024	1920x1080
Microsoft .NET Framework	Version 4.0 (see note)	Version 4.0 (see note)

Table 2. Client Computer Requirements (Client/Server Network)

NOTES:

- 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.
- Only the PCS Axis application installs on client computers. See Table 1 (page 11) for information about the PCS Axis database and job service installation on the central database server.



Adding the Local Domain User Group Axis_Users

Information in this section explains how to add a local domain user group on the central database server labeled *Axis_Users*. By adding the *Axis_Users* group, all PCS Axis users will have access to the server. The following information is intended for the IT System Administrator.

Complete the following steps on the central database server:

- **1** Open Computer Management. Click Start > Administrative Tools > Computer Management.
- 2 Click to expand System Tools and then Local Users and Groups in the navigation tree.
- **3** To add the local domain user group labeled *Axis_Users*, follow these steps:
 - **a** Right-click **Groups** and select **New Group** in the shortcut menu to open the *New Group* dialog box (Figure 9).
 - **b** Type **Axis_Users** in the *Group name* field and a description for the user group in the *Description* field.
 - c Click Add > Advanced > Find Now to view a list of user names. Add all PCS Axis users in the *Axis_Users* group.
 - d Click Create and then click Close to close the dialog box.
- 4 After the Database Administrator has restored the PCS Axis database on the central database server (see page 14), continue the installation with the section titled *Installing PCS Axis Job Service* (page 16).

New Group		? ×
Group name:	Axis_Users	
Description:	Axis local and remote users	
Members:		
Add	Remove	
		-
Help	Create Close	

Figure 9. Axis_Users Local Domain User Group



Restoring the PCS Axis Database and Setting Permission Roles

Information in this section is intended for the Database Administrator. The information explains how to:

- Restore the backup file of the PCS Axis database on the central database server.
- Create a new login for the PCS Axis database labeled Axis_Users. Then set permission roles for the new login labeled Axis_Users.

Complete the following steps on the central database server:

- **1** Using the database backup file provided by PCS Technical Services, restore the PCS Axis database.
- **2** Start SQL Server Management Studio (SSMS). Connect to the central database server and then switch to the PCS Axis database.
- **3** Click to expand **Security**, then **Logins** in the navigation tree of *Object Explorer*. Right-click **Logins** and select **New Login** in the shortcut menu to open the *Login-New* dialog box (Figure 10).

🚪 Login - New				
Select a page	<u>S</u> Script 👻 🚺 Help			
General Server Roles	Login name:			Search
Securables	Windows authentication	,		
🚰 Status	C SQL Server authentication			
	Password:			
	Confirm password:			
	Specify old password			
	Old password:			
	Enforce password polic			
	Enforce password expire	ation		
	🗹 User must change pass	word at next login		
	C Mapped to certificate			-
	C Mapped to asymmetric key			7
	Map to Credential			Add
Connection	Mapped Credentials	Credential	Provider	
Server: (local)				
Connection:				
View connection properties				
Progress				Remove
Ready	Default database:	master		•
Vega V	Default language:	<default></default>		•
			04	



- 4 Set the following properties in the *General* page:
 - **a** Type **Axis_Users** in the *Login name* field. If the group name *Axis_Users* does not appear in the selection list, complete the following steps:
 - (1) Select Find People in the selection list to open the Select Users or Groups dialog box.
 - (2) Click **Object Types** to open the *Object Types* dialog box.



- (3) Click the **Group** check box, then click **OK** to return to the *File Sharing* dialog box.
- (4) Select Axis_Users in the selection list, then click Add.
- **b** Enable the option **Windows authentication** if it is not enabled.
- c Select the **PCS Axis database** in the *Default database* field.
- 5 Click Server Roles in *Select a page* and enable the **public** check box.
- 6 Click **User Mapping** in *Select a page* and enable the following properties:
 - **a** In the group box **Users mapped to this login**, enable the *PCS Axis database*.
 - **b** In the group box **Database role membership for**, enable the following properties:
 - Axis_Users
 - o db_datareader
 - o db_datawriter
 - o db_ddladmin
 - o public
 - c Click **OK** to save settings and close the *Login-New* dialog box.

Tasks performed by the Database Administrator are now complete



Installing PCS Axis Job Service

The following information is intended for the IT System Administrator. It explains how to install *PCS Axis Job Service* on a network server. You can install the service either on the same server as the PCS Axis database or on a separate network server.

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 11).

授 PCS Axis	Setup	
SAX SAX	PCS Axis	
	Ins	tall Close

Figure 11. PCS Axis Installation

- 3 Click Install in the PCS Axis dialog box to open Setup Wizard (Figure 12, page 17).
- 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 MERICAN INNOVATIONS
	Back Next Cancel

Figure 12. Setup Wizard

- **5** Click **Next** to display *Custom Setup* (Figure 13).
- By default the PCS Axis Job Service is not selected for installation. To install the service on the server, click the down arrow in PCS Axis Job Service and select the option Entire feature will be installed on local hard drive.
- 8 Click **Next** and then click **Install** to begin the installation.



Figure 13. Custom Setup



When the installation completes and after a short delay, *Connection Manager* opens automatically on top of *Setup Wizard* (Figure 14).

- **9** Complete the following steps in *Connection Manager* to set *Server* and *Database* settings:
 - **a** Type the name of the central database server in the **Server** field. Or click **Select** in the *Server* field to select the server in the *Select Server* dialog box.
 - **b** Type the name of the PCS Axis database in the **Database** field. Or click **Select** in the *Database* field to select the database in the *Select Database* dialog box.
 - c Click 📀 **Test** to verify the connection to the server and database. When the message *Connection successful displays*, click **V OK** to close the message.
 - **d** Click **P** Save and Close to exit Connection Manager.
- **10** Click **Finish** in *Setup Wizard* and then click **Close** in the PCS Axis dialog box to close the PCS Axis installation file (setup.exe).
- **11** Installation of the *PCS Axis Job Service* is now complete. Continue with the next section to start the service (page 19).

Pcs Axis Connection Manager		enterterterterterterterter	
Pcs Axis Connection Manager		🔐 Save and Close 🛛 🔛 Sa	ve 🛛 🔀 Close
Connections 🚳	Default	🏫 Make Default	🗙 Delete
C Default (Primary)	<u>.</u>		
	🖌 Primary	🛷 Activate 🙆 Test 🌚 Crea	te / Upgrade
	Server	DB_SERVER	Select
	Database	DB_INITIAL_CATALOG	🐻 Select
	Connection String	Data Source=DB_SERVER;Initial Catalog=DB_INITIAL_CATALOG;Integrated Security=True	
			Correct
	🛷 Subscription	🛷 Activate 🎯 Tes	t 🖉 🛷 Clear
	Server		Select
	Database		🎆 Select
	Connection String		
			St Correct

Figure 14. Connection Manager



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*. The information is intended for the IT System Administrator.

Complete the following steps:

- 1 If the PCS Axis database and *PCS Axis Job Service* are installed on two different network servers, complete the following steps to set up a user account to log on as a service. The user account must have access to the central database server and PCS Axis database.
 - a Click the Windows **Start** button (3) and navigate to *Computer*. Right-click **Computer** and select **Manage** in the shortcut menu to open the *Computer Management* console (Figure 15).
 - **b** 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.

Action Viev	v Help					
	🛛 🖬 🛛 📰 🕨 🖬 🖬 🖉					
vices (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	🔍 Offline Files	The Offline Files service perform		Disabled	Local System
		Real Controls	This service is a stub for Window		Manual	Local Service
	Description:	RCS 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.	Peer Networking Identity Manager	Provides identity services for the		Manual	Local Service
		Reformance Logs & Alerts	Performance Logs and Alerts Col		Manual	Local Service
		Rlug and Play	Enables a computer to recognize	Started	Automatic	Local System
		PnP-X IP Bus Enumerator	The PnP-X bus enumerator servi		Manual	Local System
		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
		A Power	Manages power policy and powe	Started	Automatic	Local System
		🔍 Print Spooler	Loads files to memory for later p	Started	Automatic	Local System
		Problem Reports and Solutions Control	This service provides support for		Manual	Local System
		Program Compatibility Assistant Service	This service provides support for	Started	Manual	Local System
		🛸 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
		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 Logon	Enables starting processes under		Manual	Local System

Figure 15. Computer Management Console

- c Right-click **PCS Axis Job Service 1.6** (Figure 15) and select **Properties** in the shortcut menu to open the *Properties* dialog box (Figure 16, page 20).
- **d** Click the **Log On** tab and select the option **This account**. To set up a user account to log on as a service, type the user name and password in the appropriate fields. You can view a list of appropriate user accounts by clicking *Browse* > *Advanced* > *Find Now*.

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



e Click **Apply** and then **OK** to close the *Properties* dialog box and return to the *Computer Management* console.

PCS Axis Job Service 1.6 P	roperties (Local Computer)	×				
General Log On Recovery Dependencies						
Log on as:						
Local System account Allow service to interact with desktop						
This account:	Network Service	Browse				
Password:						
Confirm password:						
Help me configure user a	account log on options.					
	OK Cancel	Apply				

Figure 16. PCS Axis Job Service 1.6 Properties

- 2 Complete the following steps in the *Computer Management* console to start *PCS Axis Job Service*:
 - a Select PCS Axis Job Service 1.6 and then click Start (Figure 17).
 - **b** Click **File** > **Exit** to close the *Computer Management* console.

tion View	нер				
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es (Local)	Services (Local)				
	PCS Axis Job Service 1.6	Name	Description	Status	Startup T
		G Office Software Protection Platform	Enables the download, installation, and enforce		Manual
	Start the service	G. Offline Files	The Offline Files service performs maintenance		Disabled
	4	Parental Controls	This service is a stub for Windows Parental Cont		Manual
	Description:	RCS Axis Job Service 1.6	Monitors the PCS Axis job queue, initiating jobs		Automa
	Monitors the PCS Axis job queue,	Peer Name Resolution Protocol	Enables serverless peer name resolution over the		Manual
	initiating jobs as they become	🖏 Peer Networking Grouping	Enables multi-party communication using Peer		Manual
	available.	Peer Networking Identity Manager	Provides identity services for the Peer Name Res		Manual
		Reformance Logs & Alerts	Performance Logs and Alerts Collects performa		Manual
		Relug and Play	Enables a computer to recognize and adapt to h	Started	Automa
		R PnP-X IP Bus Enumerator	The PnP-X bus enumerator service manages the		Manual
		Review Power 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
		Q. Power	Manages power policy and power policy notific	Started	Automa
		Spooler	Loads files to memory for later printing	Started	Automa
		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
		Revealed Storage	Provides protected storage for sensitive data, su		Manual
		Quality Windows Audio Video Experience	Quality Windows Audio Video Experience (qWav		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 Desktop Configuration	Remote Desktop Configuration service (RDCS) is		Manual
		Remote Desktop Services	Allows users to connect interactively to a remot		Manual
		Remote Desktop Services UserMode Por	Allows the redirection of Printers/Drives/Ports fo		Manual
		Remote Procedure Call (RPC)	The RPCSS service is the Service Control Manag	Started	Automa
		Remote Procedure Call (RPC) Locator	In Windows 2003 and earlier versions of Window		Manual
		Remote Registry	Enables remote users to modify registry settings		Manual
		Routing and Remote Access	Offers routing services to businesses in local are		Disabled
		RPC Endpoint Mapper	Resolves RPC interfaces identifiers to transport e	Started	Automa
		Secondary Logon	Enables 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	Automa
		Security Center	The WSCSVC (Windows Security Center) service	Started	Automa
		4			

Figure 17. Computer Management Console

PCS Axis v1.6 Client/Server New Installation (without Replication) pcstechservices@aiworldwide.com



c In PCS Axis, click **Tools** > **Job Service Viewer**. Verify the message *Running* displays in the *Status* field (Figure 18).

Starting *PCS Axis Job Service* is now complete. Continue with the next section to install the PCS Axis application on local client computers (page 22).

Î	PCS Axis	term in	aller fan Mart	-	- 3 8-	M *			_ • ×
F	ile Module	s Data Entry	Reports / Graphs To	ools Field Computer	Help 🔅 PC	5 Axis	Welco	me John Smith	🐵 🛛 🔀 Log Out
F	Job Service C	Console ×							
	Job Type	All	*						
L	Job Servic	e Status							
L	Status	Running							
L	Status Tim	e 3/6/2014 9:5	8:02 AM						
L	License	Not Valid	Activate Br	idge Import License					
	Queue						Reindex Database	Current Jobs	Job History
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Figure 18. Job Service Console



Installing the PCS Axis Application on a Local Client Computer

Information in this section is intended for the IT System Administrator. It explains how to install only the PCS Axis application on the computer of local client users.

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 19).

PCS Axis	Setup	
S A X A X A X	PCS Axis	
		Install Close

Figure 19. PCS Axis Installation

- 3 Click Install in the PCS Axis dialog box to open Setup Wizard (Figure 20, page 23).
- 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
[₿] AXIS	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 INNOVATIONS
	Back Next Cancel

Figure 20. Setup Wizard

- 5 Click Next to display *Custom Setup* (Figure 21).
- 6 By default the **■** PCS Axis application is selected for installation. The **×** PCS Axis Job Service **should not** be selected for installation. Verify selections in *Custom Setup* match those in the following figure (Figure 21).
- 7 Click **Next** and then click **Install** to begin the installation.



Figure 21. Custom Setup



When the installation completes and after a short delay, *Connection Manager* opens automatically on top of *Setup Wizard* (Figure 22).

- **8** Use *Connection Manager* to establish a connection to the PCS Axis database on the central database server as follows:
 - **a** Type the name of the central database server in the **Server** field. Or click **Select** in the *Server* field to select the server in the *Select Server* dialog box.
 - **b** Type the name of the PCS Axis database in the **Database** field. Or click **Select** in the *Database* field to select the database in the *Select Database* dialog box.
 - c Click ③ **Test** to verify the connection to the server and database. When the message *Connection successful* displays, click **《 OK** to close the message. Click **P Save and Close** to exit *Connection Manager*.
- **9** Click **Finish** in *Setup Wizard* and then click **Close** in the PCS Axis dialog box to close the PCS Axis installation file (setup.exe).

Pcs Axis Connection Manager	and a state of the	and and a stand and a state of the	
Pcs Axis Connection Manager		💾 Save and Close 📔 Save	ve 🛛 🔀 Close
Connections 🚯	Default	🏠 Make Default	🔀 Delete
습 Default (Primary)			
	🖌 Primary	🗸 Activate 🔕 Test 🎡 Crea	te / Upgrade
	Server	DB_SERVER	5 Select
	Database	DB_INITIAL_CATALOG	🎆 Select
	Connection String	Data Source=DB_SERVER;Initial Catalog=DB_INITIAL_CATALOG;Integrated Security=True	
			Correct
	🛷 Subscription	🖉 Activate 🛞 Tes	st 🛛 🛷 Clear
	Server		🔯 Select
	Database		🔯 Select
	Connection String		
			St Correct

Figure 22. Connection Manager

- 10 Start PCS Axis on the client computer. Click the Windows 😵 Start button, then All Programs > PCS Axis 1.6.
- **11** When the Activation Key message opens, click **V OK** and then locate and select your PCS Axis activation key (Figure 23, page 25).
- **12** When the *License Agreement* window opens, click **V I** Agree.



ctivation Key	×
Your user accoun	t does not have an active license. In order to activate this user
file, please conta	need to select a ".lic license file. If you have not received this ct support.

Figure 23. Activation Key

- **13** If your company purchased the optional Bridge import add-on, complete the following steps to activate the feature for operation:
 - a Click Tools > Job Service Viewer to open the Job Service Console (Figure 24).
 - **b** 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* displays in the *License* field. If *Not Valid* displays instead, contact PCS Technical Services for assistance using the contact information on page 29.

File Medules Data Entry Reports / Graphs Tools Filed Computer Help Image: Computer File Computer<	1	PCS Axis	aller have been	-)H(-			- • ×
Job Service Console x Job Service Status Status Running Status Time 3/6/2014 9:58:02 AM License Not Valid Activate Bridge Import License Queue Reindex Database Current Jobs Job History Job Type Direction State Last Update	F	ile Modules Data Entry	Reports / Graphs To	ols Field Computer	Help 🔅 PC	6 Axis	Welco	me John Smith	😢 🛛 🔀 Log Out
Job Type All Job Service Status Status Running Status Time 3/6/2014 9:58:02 AM License Not Valid Activate Bridge Import License Queue Reindex Database Current Jobs Job History Job Type Direction State Last Update	Γ	Job Service Console 🗙							
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License Not Valid Activate Bringe Import License Queue Reindex Database Current Jobs Job History Job Type Direction State Last Update		Status Time 3/6/2014 9:5	8:02 AM						
Cueve Reindex Database Current Jobs Job History		License Not Valid	Activate Bri	idge Import License					
Iob Type Direction State Last Update		Queue					Reindex Database	Current Jobs	Job History
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Figure 24. Job Service Console

14 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 25, page 26).



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.



Figure 25. About PCS Axis

15 Repeat the steps in this section (pages 22-26) to install the PCS Axis application on all other local client computers.

The local client installation is complete after installing the PCS Axis application on all local client computers. Continue with the next section to set up users in PCS Axis (page 27).



Setting Up Users in PCS Axis

Information in this section explains how to add users in *User Management* of PCS Axis. The information is intended for the PCS Axis Administrator.

Complete the following steps:

- **1** Start the PCS Axis application and then click **Tools** > **User Management** >
- 2 Type the user's Windows domain user name in the **User Name** field and then press **Tab**. PCS Axis automatically adds the user's email address. Verify **Active** is enabled.
- 3 Update other information as needed, such as a user **Role** selection.
- 4 Click **Save** and then repeat step 2 for each user you want to add. If needed, click the
 help button in *User Management* to view related information.



PCS Axis Installation Checklist

IT System Administrator Tasks

□ Create a local domain user group labeled *Axis_Users* on the central database server. Add PCS Axis users to the *Axis_Users* group who are listed in Windows Active Directory.

Note: Remaining IT tasks are completed when Database Administrator tasks are completed.

- □ Install PCS Axis Job Service on the same server as the PCS Axis database or on a separate network server. Then use Windows Services to start *PCS Axis Job Service*.
- □ Install the PCS Axis application on the local computer of the PCS Axis Administrator and all other users. Use PCS Axis Connection Manager during the installation to set the server and database connection.

Database Administrator Tasks

- □ Restore the PCS Axis database on the central database server.
- Create a new login for the PCS Axis database labeled *Axis_Users*.
- Set the following permission roles for the new login *Axis_Users*:
 - □ Axis_Users
 - □ db_datareader
 - □ db_datawriter
 - □ db_ddladmin
 - 🗌 public

PCS Axis Administrator Task

□ Run PCS Axis and add users in *User Management*.



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