AxiomXa™ Security System

2 Automatic Road, Suite 108
Brampton, Ontario
Canada L6S 6K8

Number: 107 AxiomXa™ Enterprise Version Installation

PC Requirements 2
  Server 2
  Client 2
AxiomXa™ Enterprise Version Server Installation 3
  1. SQLServer 3
  2. AxiomXa™ Database Installation 4
  3. AxiomXA™ Data Server Installation 11
  4. AxiomXa™ Communication Server Installation 18
  5. AxiomXa™ Client Installation 22
  6. Upgrading system to latest version 27
  Ports used by AxiomXa™ installation 28

PC Requirements

Before you install AxiomXa™, make sure that your computer's configuration meets the following **minimum** requirements:

Server

Requirement	**Description**
Operating system[1]	Microsoft Windows10, Server 2016 and higher
Microprocessor	Intel Core i7 3.4 GHz
Memory	16GB (minimum), 32GB (recommended)
Hard disk space	500Gb free space to run

Client

Requirement	**Description**
Operating system[1]	Microsoft Windows10, Server 2016 and higher
Microprocessor	Intel Core i7 3.4 GHz
Memory	8GB (minimum), 16GB (recommended)
Hard disk space	500Gb free space

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[1] Only 64 bit operating systems are supported, 'Home' versions of operating systems are not supported and all operating systems should be up to date with windows updates.

AxiomXa™ Enterprise Version Server Installation

1. SQLServer

SQL Server 2017 or 2019 should be already installed to proceed with AxiomXaTM Enterprise installation

SQL server should be installed in Mixed mode with user *sa* enabled

Make sure that:

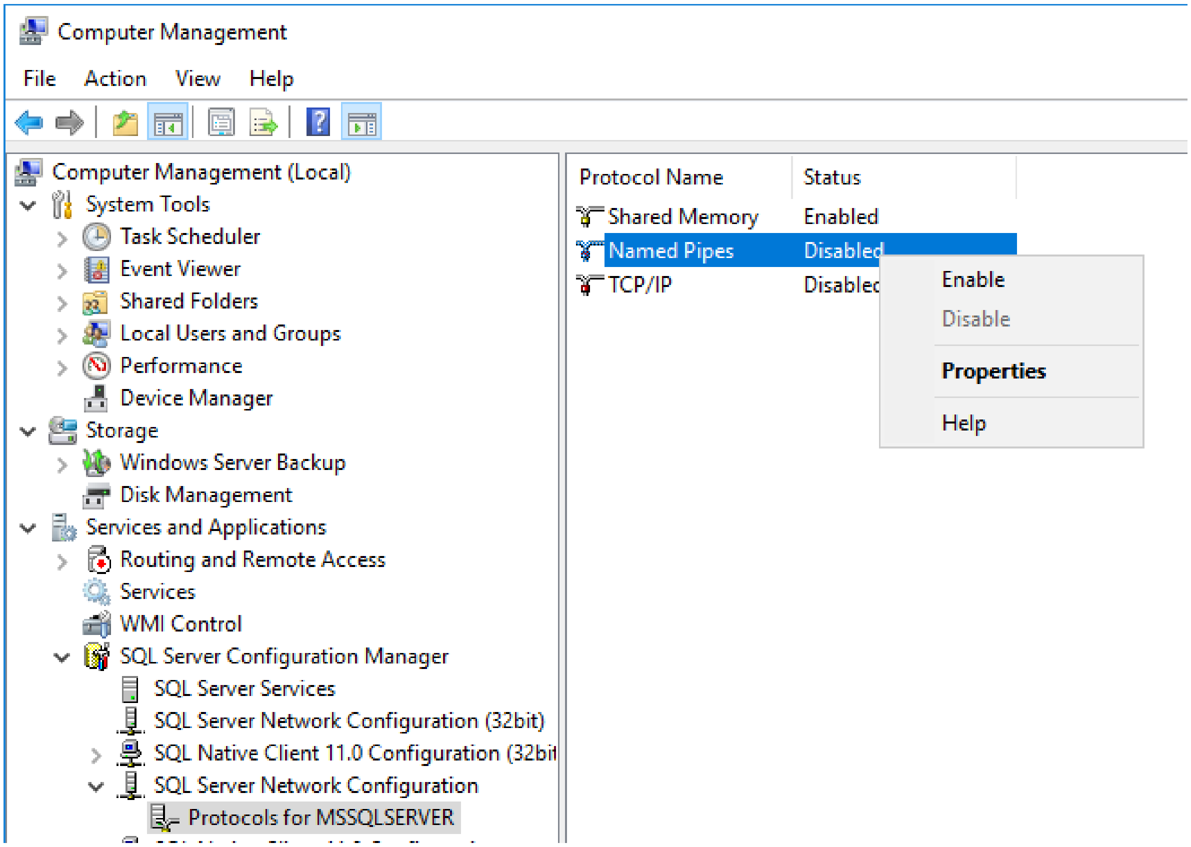
I. Windows operating system is compatible with the version of SQL server being installed

II. In SQL Server Configuration Manager, for the Protocols for MSSQLSERVER or instance being used for installation, Named pipe and TCP/IP should be enabled.

III. If named instance is used instead of default instance the following firewall rule must be added. RBHSystem is instance name in the example here and MSSQL14 is SQL server 2017, use MSSQL15 for SQL server 2019

   a. PATH = ProgramFilesFolder + "\Microsoft SQL Server\MSSQL14.RBHSYSTEM\MSSQL\Binn";

   b. Netsh advfirewall firewall add rule name=SQLServr dir=in action=allow program= PATH \sqlservr.exe


Computer Management
File
Action
View
Help
Computer Management (Local)
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Routing and Remote Access
Services
WMI Control
SQL Server Configuration Manager
SQL Server Services
SQL Server Network Configuration (32bit)
SQL Native Client 11.0 Configuration (32bi
SQL Server Network Configuration
Protocols for MSSQLSERVER
Enable
Disable
Properties
Help

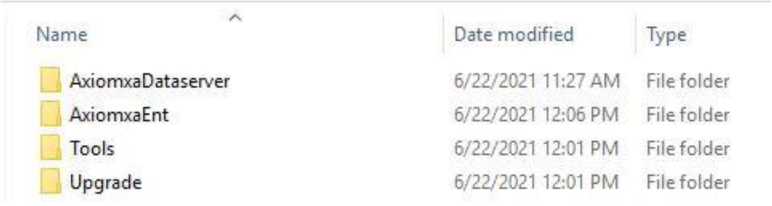
Protocol Name	Status
Shared Memory	Enabled
Named Pipes	Disabled
TCP/IP	Disabled

2. AxiomXa^{TM} Database Installation

AxiomXa Databases need to be installed on the same machine where SQL server is installed.

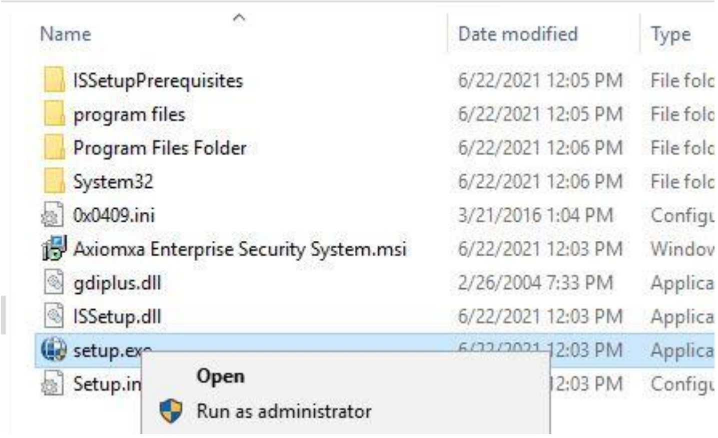
It is optional to install AxiomXa™ Servers (Data Service, Communication Server) on the same machine where AxiomXa databases and SQL server are installed or can install servers on separate machines depending upon the requirements of the system.

Open the *AxiomxaEnt* folder on your CD.



Name	Date modified	Type
AxiomxaDataserver	6/22/2021 11:27 AM	File folder
AxiomxaEnt	6/22/2021 12:06 PM	File folder
Tools	6/22/2021 12:01 PM	File folder
Upgrade	6/22/2021 12:01 PM	File folder

Select *Setup.exe* and *Run* the installation *as Administrator.*

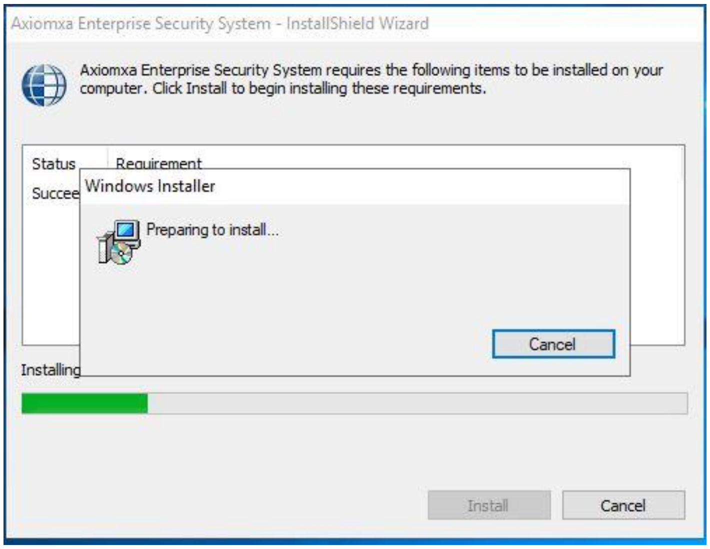


Name	Date modified	Type
ISSetupPrerequisites	6/22/2021 12:05 PM	File folc
program files	6/22/2021 12:05 PM	File folc
Program Files Folder	6/22/2021 12:06 PM	File folc
System32	6/22/2021 12:06 PM	File folc
0x0409.ini	3/21/2016 1:04 PM	Configu
Axiomxa Enterprise Security System.msi	6/22/2021 12:03 PM	Windov
gdiplus.dll	2/26/2004 7:33 PM	Applica
ISSetup.dll	6/22/2021 12:03 PM	Applica
setup.ex	12:03 PM	Applica
Setup.in	2:03 PM	Configu

Depending upon the operating system of the machine, the installation window would show the list of pending programs required (prerequisite) to install AxiomXa^{TM} Security System

It would require a reboot of the machine after installing .net framework 4.7, and after reboot will continue installation will continue

Follow on screen instructions to continue installing AxiomXa System

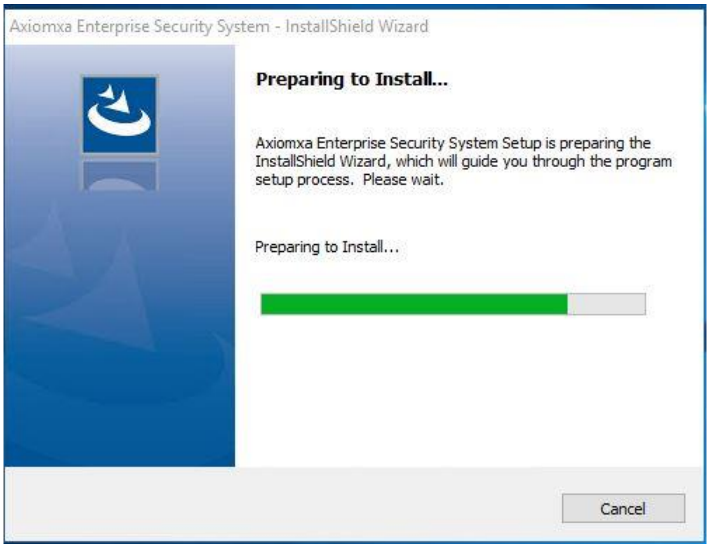

Axiomxa Enterprise Security System - InstallShield Wizard

Axiomxa Enterprise Security System requires the following items to be installed on your computer. Click Install to begin installing these requirements.

Windows Installer

Preparing to install...

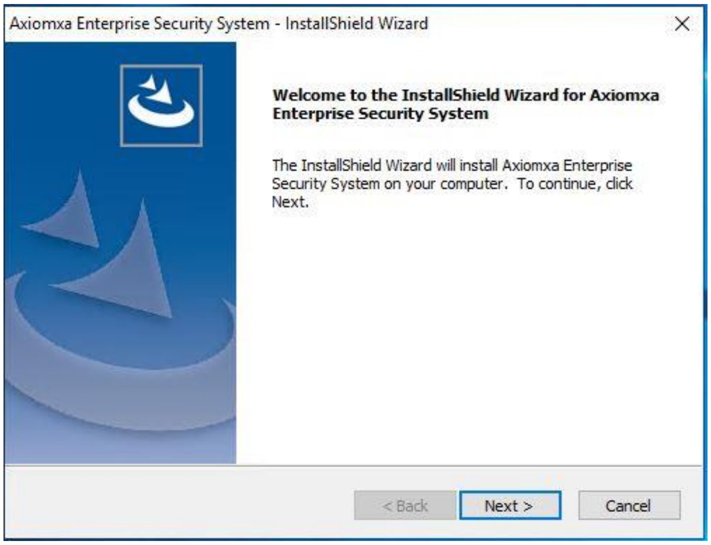
Clicking on *Finish* button will continue with rest of the *AxiomXa*^{TM} installation


Axiomxa Enterprise Security System - InstallShield Wizard

Preparing to Install...

Axiomxa Enterprise Security System Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.

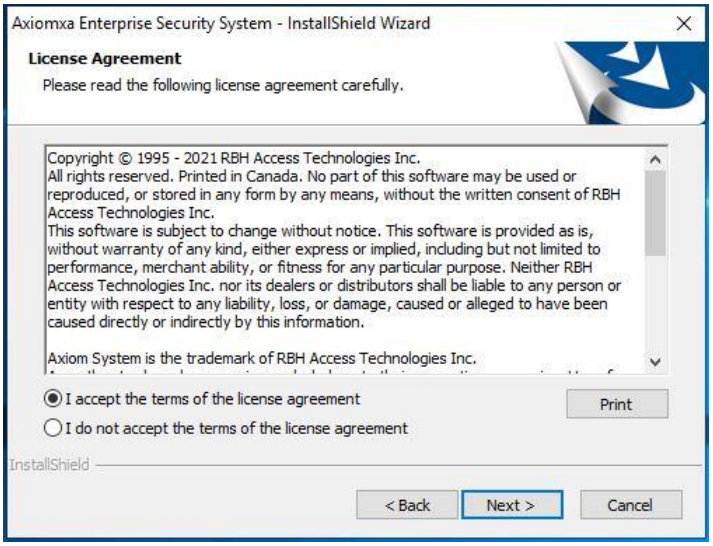
Preparing to Install...


Axiomxa Enterprise Security System - InstallShield Wizard

Welcome to the InstallShield Wizard for Axiomxa Enterprise Security System

The InstallShield Wizard will install Axiomxa Enterprise Security System on your computer. To continue, click Next.

Click *Next* and follow on screen instructions to continue installing AxiomXa databases.


Axiomxa Enterprise Security System - InstallShield Wizard

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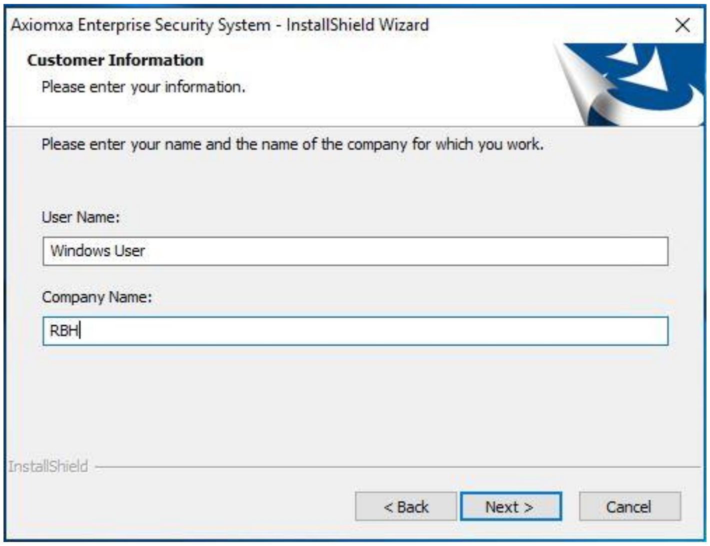
○ I do not accept the terms of the license agreement


Axiomxa Enterprise Security System - InstallShield Wizard

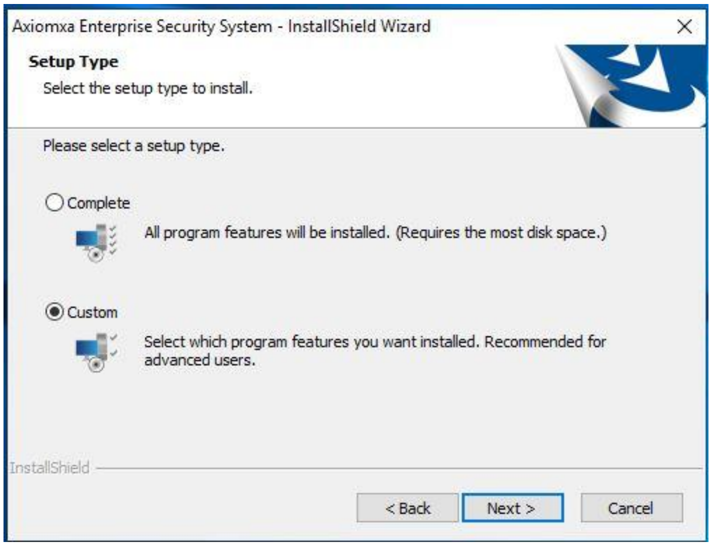
Customer Information

Please enter your information.

Please enter your name and the name of the company for which you work.

User Name: Windows User

Company Name: RBH


Axiomxa Enterprise Security System - InstallShield Wizard

Setup Type

Select the setup type to install.

Please select a setup type.

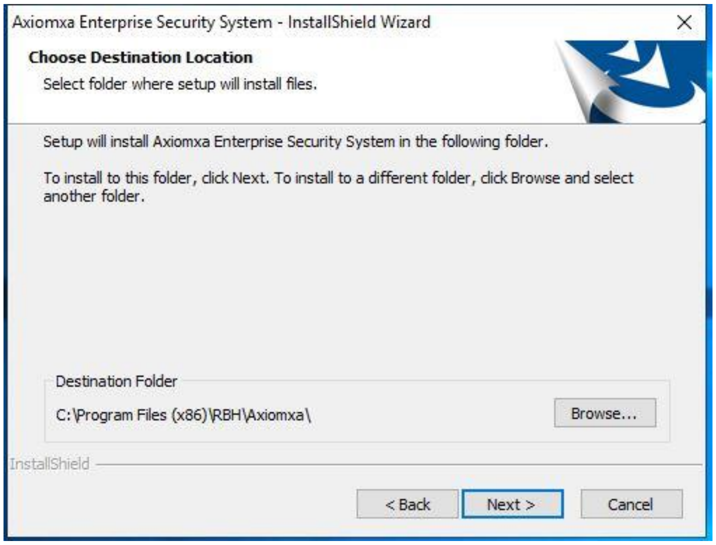
○ Complete

All program features will be installed. (Requires the most disk space.)

● Custom

Select which program features you want installed. Recommended for advanced users.

Select *Custom* option to install various components of installation on separate machines.



Axiomxa Enterprise Security System - InstallShield Wizard

Choose Destination Location

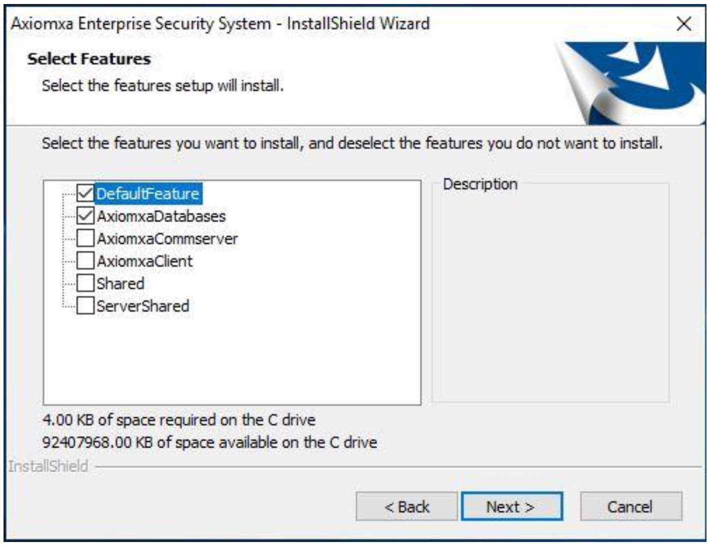
Select folder where setup will install files.

Setup will install Axiomxa Enterprise Security System in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder

C:\Program Files (x86)\RBH\Axiomxa\



Axiomxa Enterprise Security System - InstallShield Wizard

Select Features

Select the features setup will install.

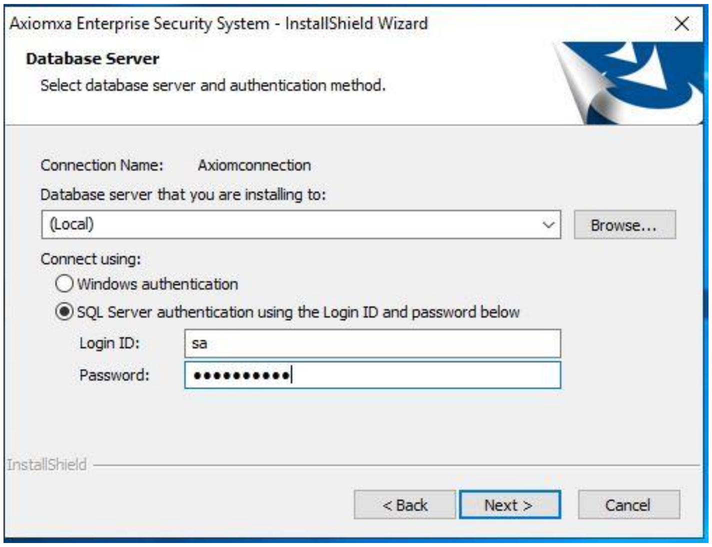
Select the features you want to install, and deselect the features you do not want to install.

- ☑ DefaultFeature
- ☑ AxiomxaDatabases
- ☐ AxiomxaCommserver
- ☐ AxiomxaClient
- ☐ Shared
- ☐ ServerShared

Description

4.00 KB of space required on the C drive
92407968.00 KB of space available on the C drive

Check in the components to install (above screenshot for installing AxiomXa databases only in this machine.) Database doesn’t need any other features on the list.



Axiomxa Enterprise Security System - InstallShield Wizard

Database Server

Select database server and authentication method.

Connection Name: Axiomconnection

Database server that you are installing to: (Local)

Connect using:

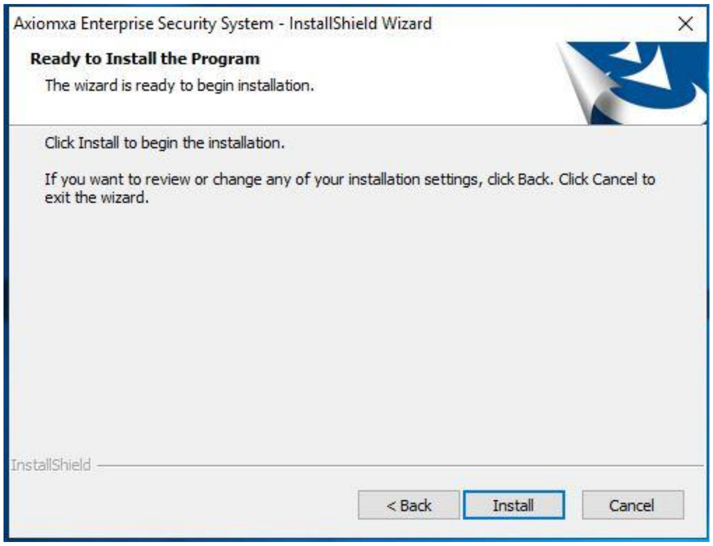
○ Windows authentication

● SQL Server authentication using the Login ID and password below

Login ID: sa

Password: ••••••••••

Fill in SQL connection information, SQL user ID and password for *Mixed* mode and click, *Next.*



Axiomxa Enterprise Security System - InstallShield Wizard

Ready to Install the Program

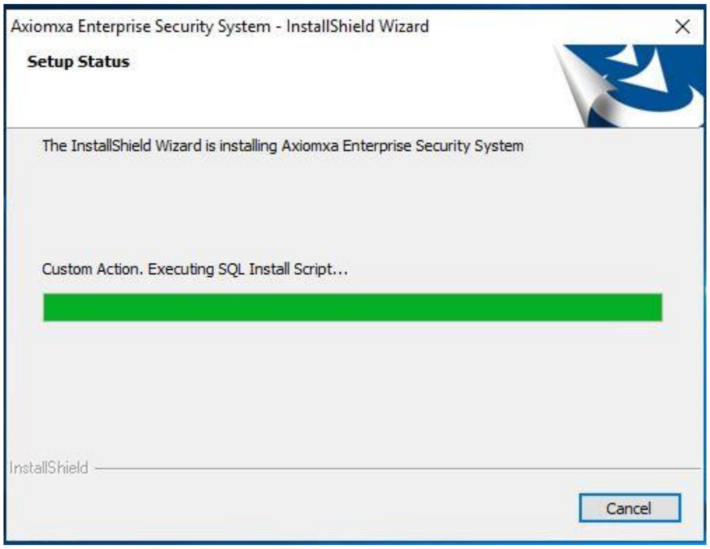
The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Click on Install to install databases

It may take over 5 minutes to create the databases, don’t cancel the installation.

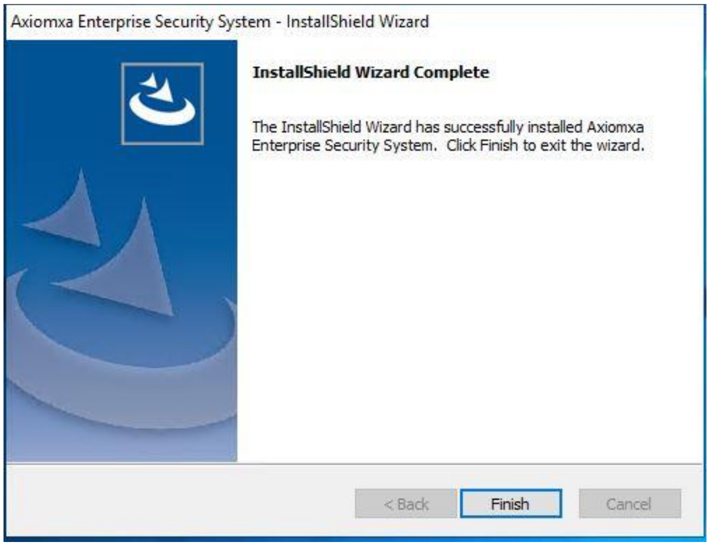


Axiomxa Enterprise Security System - InstallShield Wizard

Setup Status

The InstallShield Wizard is installing Axiomxa Enterprise Security System

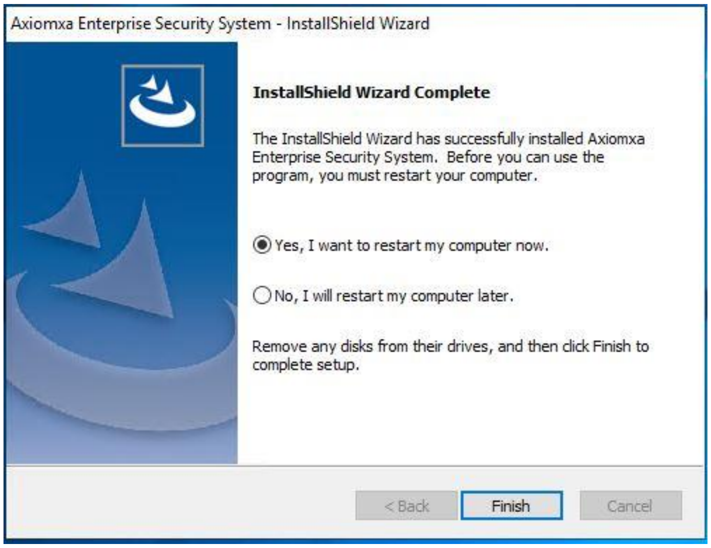
Custom Action. Executing SQL Install Script...



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Click Finish to exit the wizard.



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Before you can use the program, you must restart your computer.

● Yes, I want to restart my computer now.

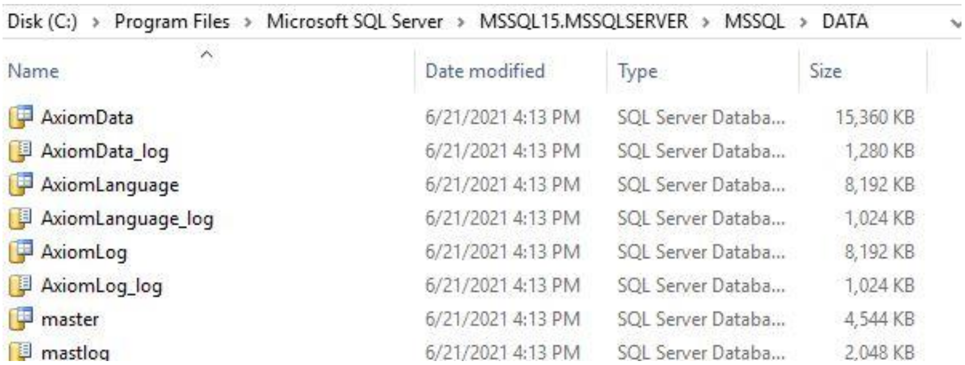
○ No, I will restart my computer later.

Remove any disks from their drives, and then click Finish to complete setup.

Click *Finish* to reboot machine.

☞ Databases are installed in the Data folder of the SQL installation.

Path is C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA, if SQL 2019 is installed.

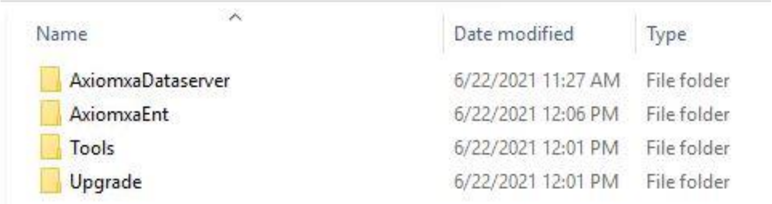


Disk (C:) › Program Files › Microsoft SQL Server › MSSQL15.MSSQLSERVER › MSSQL › DATA

Name	Date modified	Type	Size
AxiomData	6/21/2021 4:13 PM	SQL Server Databa...	15,360 KB
AxiomData_log	6/21/2021 4:13 PM	SQL Server Databa...	1,280 KB
AxiomLanguage	6/21/2021 4:13 PM	SQL Server Databa...	8,192 KB
AxiomLanguage_log	6/21/2021 4:13 PM	SQL Server Databa...	1,024 KB
AxiomLog	6/21/2021 4:13 PM	SQL Server Databa...	8,192 KB
AxiomLog_log	6/21/2021 4:13 PM	SQL Server Databa...	1,024 KB
master	6/21/2021 4:13 PM	SQL Server Databa...	4,544 KB
mastlog	6/21/2021 4:13 PM	SQL Server Databa...	2,048 KB

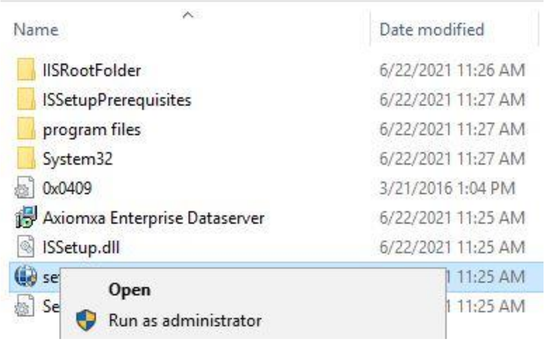
3. AxiomXA™ Data Server Installation

Open the AxiomXaDataserver Folder on CD



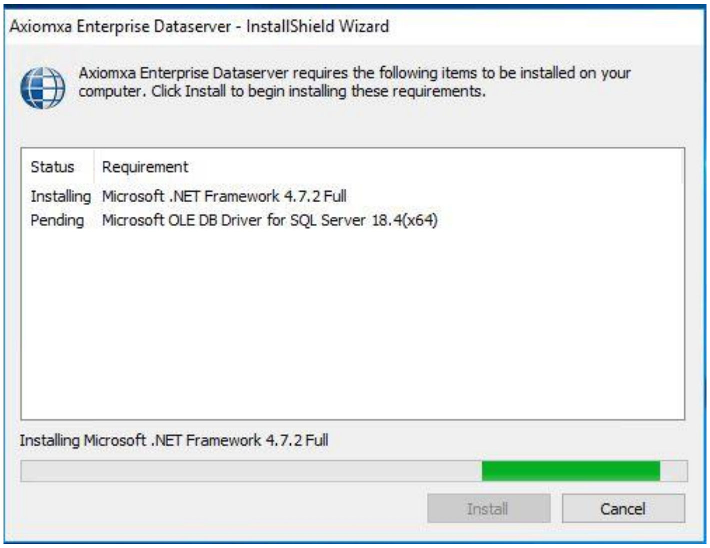
Name	Date modified	Type
AxiomxaDataserver	6/22/2021 11:27 AM	File folder
AxiomxaEnt	6/22/2021 12:06 PM	File folder
Tools	6/22/2021 12:01 PM	File folder
Upgrade	6/22/2021 12:01 PM	File folder

Click on *Setup.exe* and *Run as administrator*



Name	Date modified
IISRootFolder	6/22/2021 11:26 AM
ISSetupPrerequisites	6/22/2021 11:27 AM
program files	6/22/2021 11:27 AM
System32	6/22/2021 11:27 AM
0x0409	3/21/2016 1:04 PM
Axiomxa Enterprise Dataserver	6/22/2021 11:25 AM
ISSetup.dll	6/22/2021 11:25 AM
se	1 11:25 AM
Se	1 11:25 AM

Click *Install* to start installing prequisite of AxiomXa Enterprise Dataserver

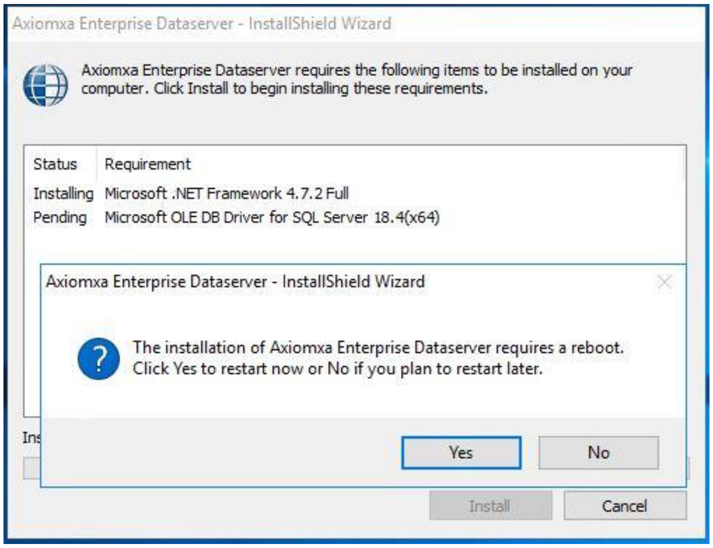


Axiomxa Enterprise Dataserver - InstallShield Wizard

Axiomxa Enterprise Dataserver requires the following items to be installed on your computer. Click Install to begin installing these requirements.

Status	Requirement
Installing	Microsoft .NET Framework 4.7.2 Full
Pending	Microsoft OLE DB Driver for SQL Server 18.4(x64)

Installing Microsoft .NET Framework 4.7.2 Full



Axiomxa Enterprise Dataserver - InstallShield Wizard

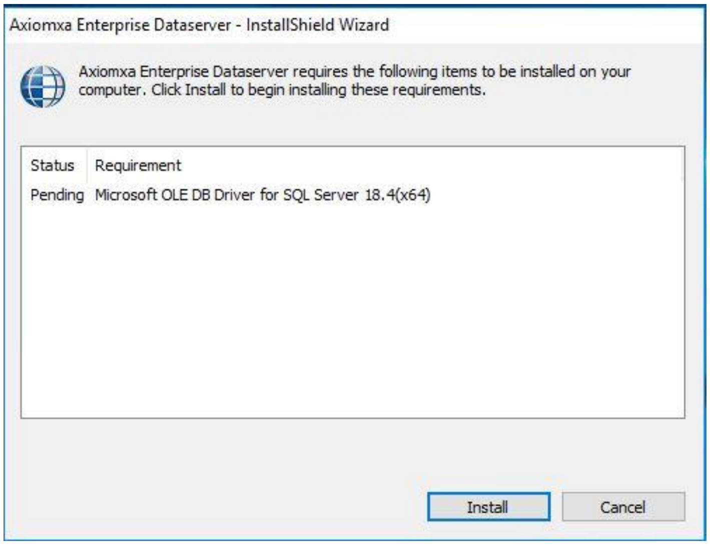
Axiomxa Enterprise Dataserver requires the following items to be installed on your computer. Click Install to begin installing these requirements.

Status	Requirement
Installing	Microsoft .NET Framework 4.7.2 Full
Pending	Microsoft OLE DB Driver for SQL Server 18.4(x64)

Axiomxa Enterprise Dataserver - InstallShield Wizard

The installation of Axiomxa Enterprise Dataserver requires a reboot. Click Yes to restart now or No if you plan to restart later.

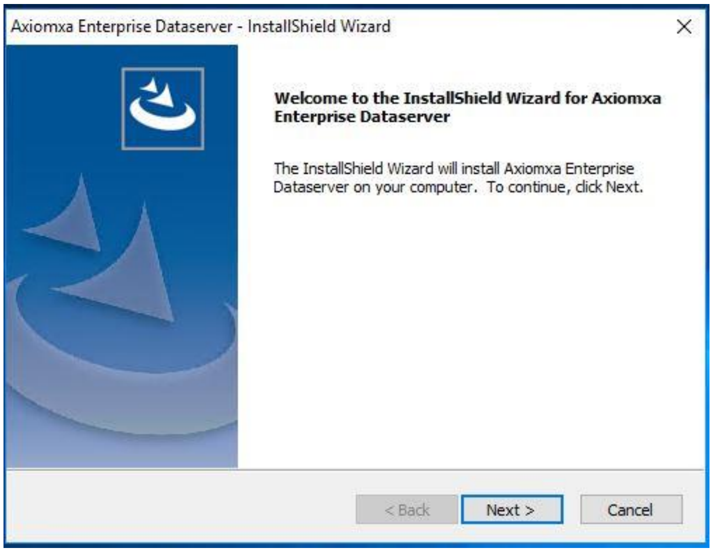
Follow on screen instructions:



Axiomxa Enterprise Dataserver - InstallShield Wizard

Axiomxa Enterprise Dataserver requires the following items to be installed on your computer. Click Install to begin installing these requirements.

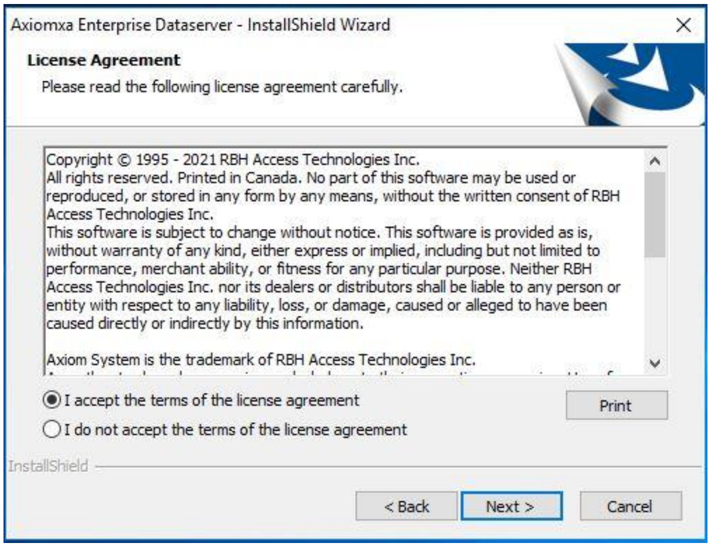
Status	Requirement
Pending	Microsoft OLE DB Driver for SQL Server 18.4(x64)



Axiomxa Enterprise Dataserver - InstallShield Wizard

Welcome to the InstallShield Wizard for Axiomxa Enterprise Dataserver

The InstallShield Wizard will install Axiomxa Enterprise Dataserver on your computer. To continue, click Next.



Axiomxa Enterprise Dataserver - InstallShield Wizard

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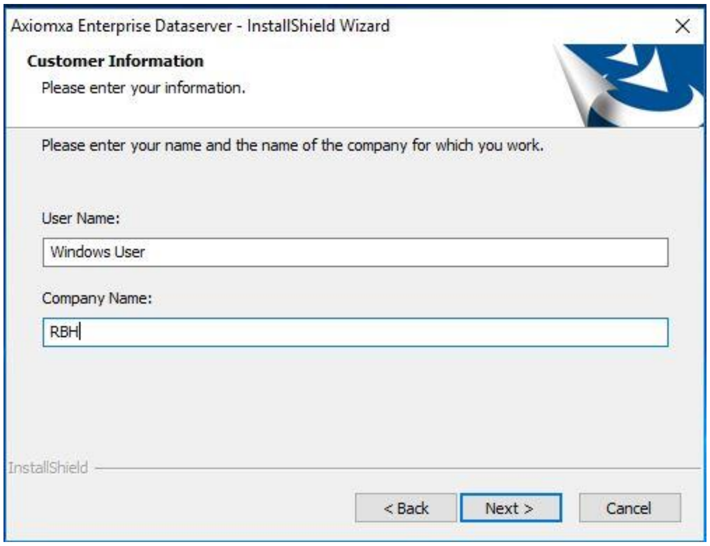


Axiomxa Enterprise Dataserver - InstallShield Wizard

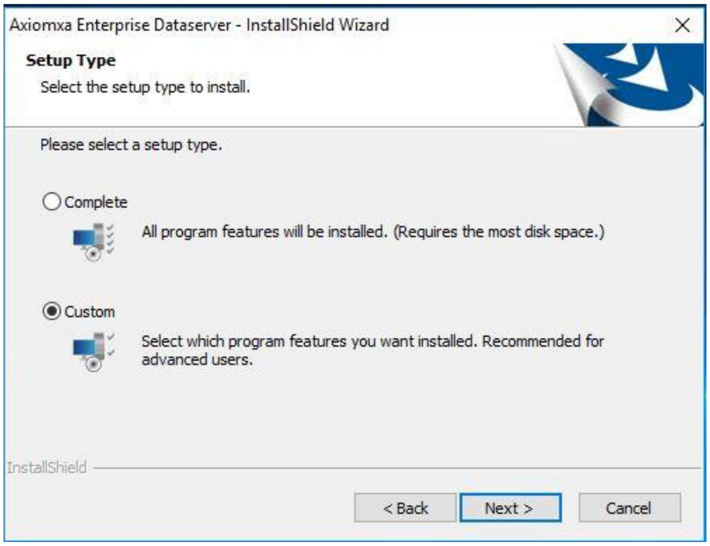
Customer Information

Please enter your information.

Please enter your name and the name of the company for which you work.

User Name: Windows User

Company Name: RBH


Axiomxa Enterprise Dataserver - InstallShield Wizard

Setup Type

Select the setup type to install.

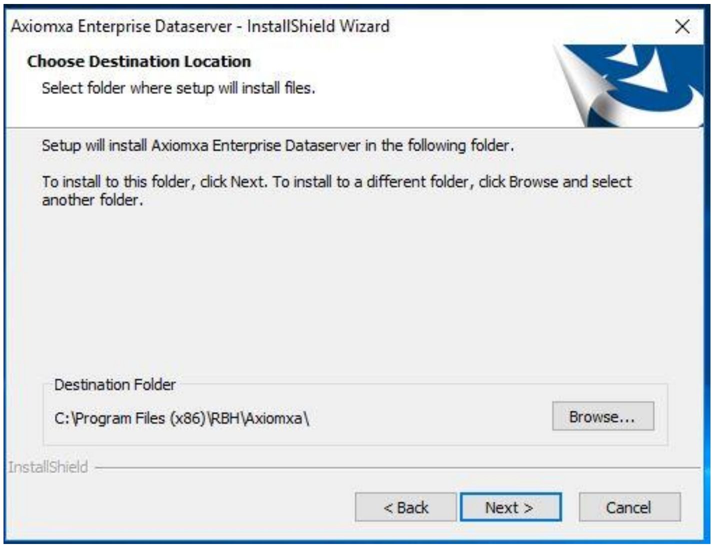
Please select a setup type.

○ Complete

All program features will be installed. (Requires the most disk space.)

● Custom

Select which program features you want installed. Recommended for advanced users.


Axiomxa Enterprise Dataserver - InstallShield Wizard

Choose Destination Location

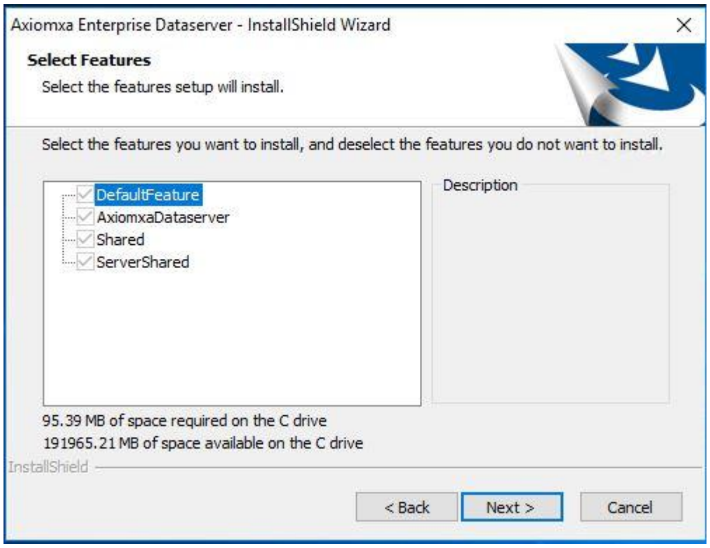
Select folder where setup will install files.

Setup will install Axiomxa Enterprise Dataserver in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder

C:\Program Files (x86)\RBH\Axiomxa\


Axiomxa Enterprise Dataserver - InstallShield Wizard

Select Features

Select the features setup will install.

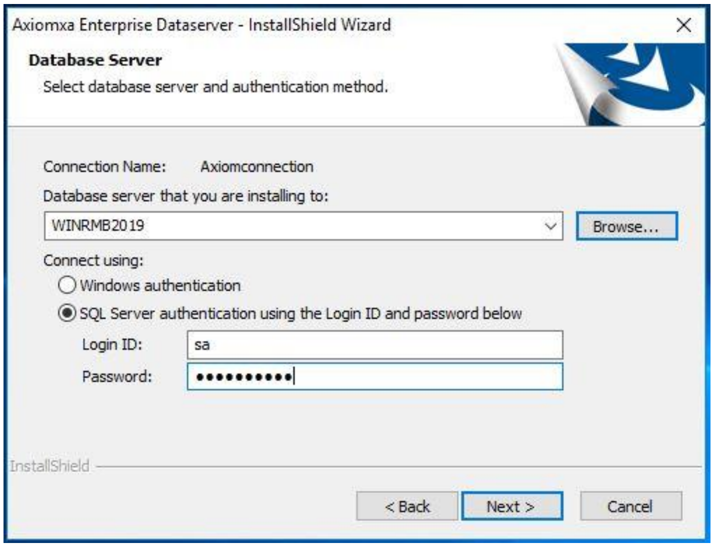
Select the features you want to install, and deselect the features you do not want to install.

- ☑ DefaultFeature
- ☑ AxiomxaDataserver
- ☑ Shared
- ☑ ServerShared

Description

95.39 MB of space required on the C drive

191965.21 MB of space available on the C drive


Axiomxa Enterprise Dataserver - InstallShield Wizard

Database Server

Select database server and authentication method.

Connection Name: Axiomconnection

Database server that you are installing to: WINRMB2019

Connect using:

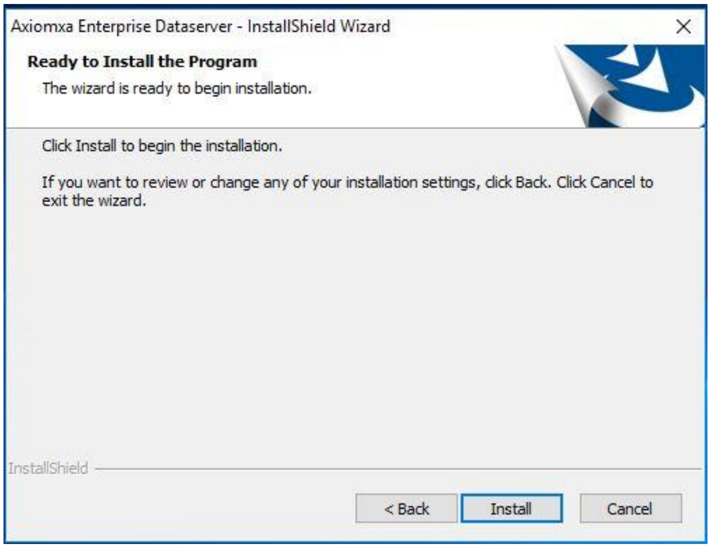
○ Windows authentication

● SQL Server authentication using the Login ID and password below

Login ID: sa

Password: ●●●●●●●●●●●

Clicking on Browse button, select the SQL server where AxiomXa Databases are installed and fill in user ID and password and click *Next*


Axiomxa Enterprise Dataserver - InstallShield Wizard

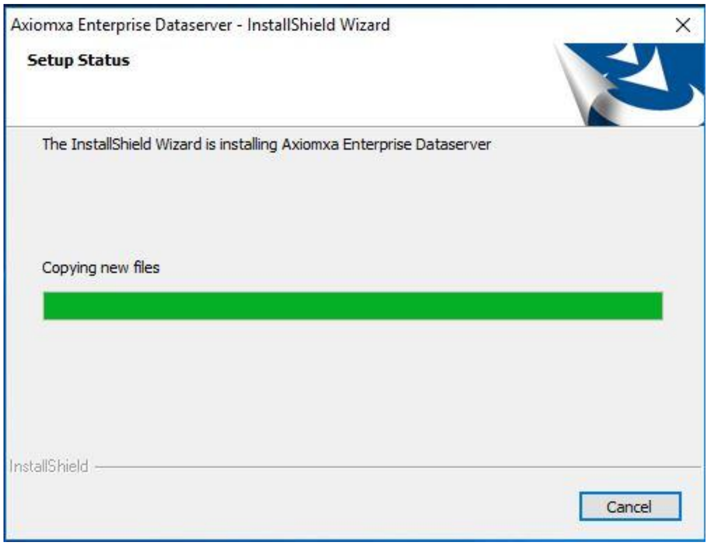
Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

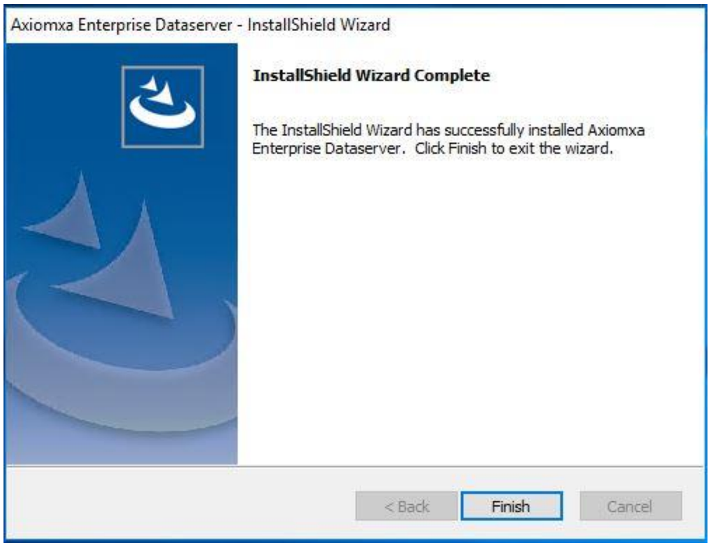
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

Click *Install* to continue installation of AxiomXa™ dataserver.


Axiomxa Enterprise Dataserver - InstallShield Wizard
Setup Status
InstallShield
Cancel

The InstallShield Wizard is installing Axiomxa Enterprise Dataserver

Copying new files

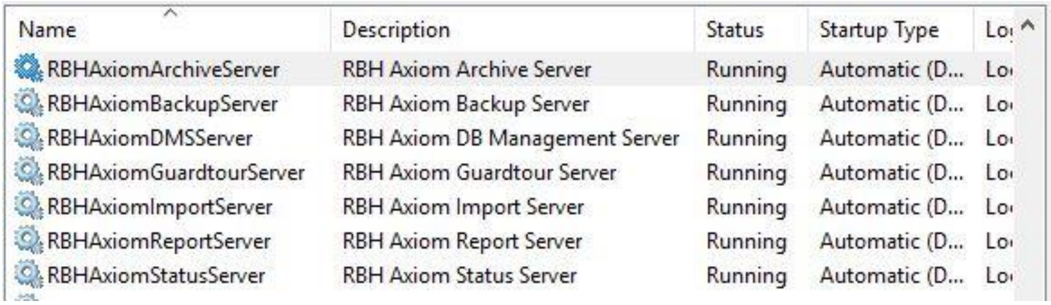

Axiomxa Enterprise Dataserver - InstallShield Wizard
< Back
Finish
Cancel

InstallShield Wizard Complete

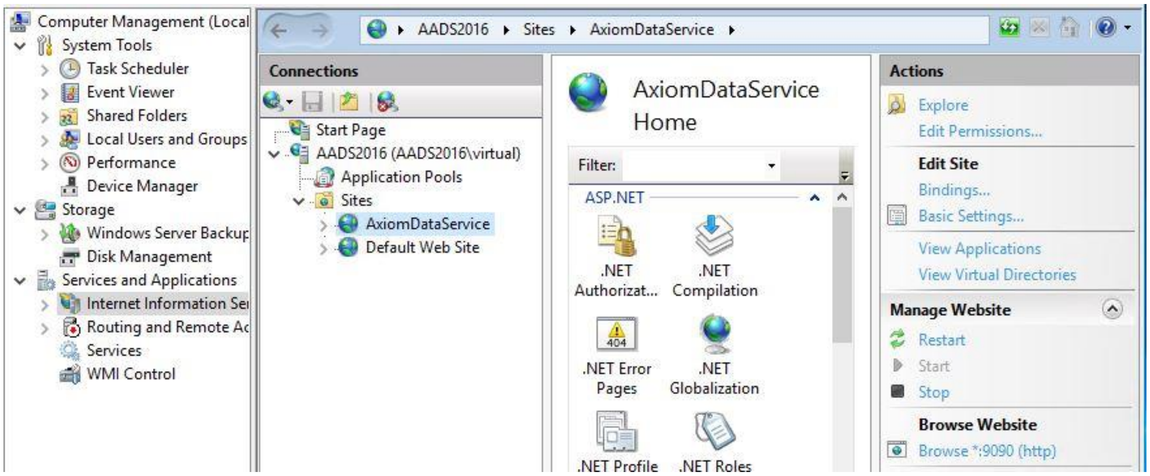
The InstallShield Wizard has successfully installed Axiomxa Enterprise Dataserver. Click Finish to exit the wizard.

Click on *Finish* to get the screen to reboot machine and click *Finish* again to initiate process of rebooting machine.

Following services are installed and AxiomDataService site is created under IIS in AxiomXa™ DataServer installation.



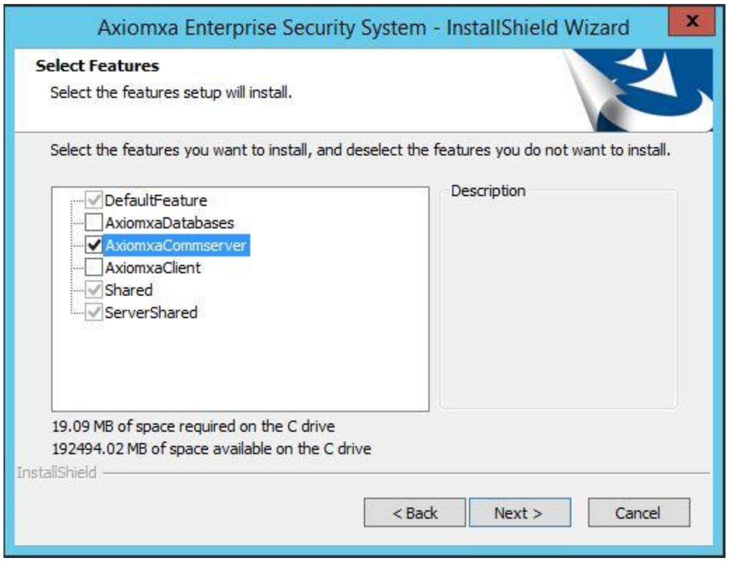
Name	Description	Status	Startup Type	Lo
RBHAxiomArchiveServer	RBH Axiom Archive Server	Running	Automatic (D...	Lo
RBHAxiomBackupServer	RBH Axiom Backup Server	Running	Automatic (D...	Lo
RBHAxiomDMSServer	RBH Axiom DB Management Server	Running	Automatic (D...	Lo
RBHAxiomGuardtourServer	RBH Axiom Guardtour Server	Running	Automatic (D...	Lo
RBHAxiomImportServer	RBH Axiom Import Server	Running	Automatic (D...	Lo
RBHAxiomReportServer	RBH Axiom Report Server	Running	Automatic (D...	Lo
RBHAxiomStatusServer	RBH Axiom Status Server	Running	Automatic (D...	Lo


Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Internet Information Se
Routing and Remote Ac
Services
WMI Control
AADS2016
Sites
AxiomDataService
Connections
Start Page
AADS2016 (AADS2016\virtual)
Application Pools
Sites
AxiomDataService
Default Web Site
AxiomDataService Home
Filter:
ASP.NET
.NET Authorizat...
.NET Compilation
404
.NET Error Pages
.NET Globalization
.NET Profile
.NET Roles
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
Browse *:9090 (http)

4. AxiomXa™ Communication Server Installation

Open *AxiomXaEnt* folder on CD and Click on *Setup.exe* and *Run as administrator*.

Follow on screen instructions, select setup type custom and continue until feature screen is reached and select *AxiomXaCommServer*



Axiomxa Enterprise Security System - InstallShield Wizard

Select Features

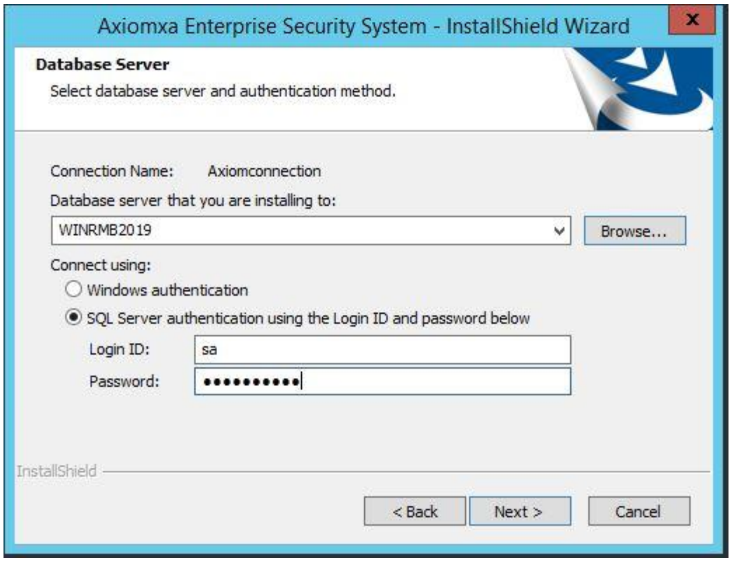
Select the features setup will install.

Select the features you want to install, and deselect the features you do not want to install.

- ☑ DefaultFeature
- ☐ AxiomxaDatabases
- ☑ AxiomxaCommserver
- ☐ AxiomxaClient
- ☑ Shared
- ☑ ServerShared

19.09 MB of space required on the C drive
192494.02 MB of space available on the C drive

Follow on screen instructions to continue.



Axiomxa Enterprise Security System - InstallShield Wizard

Database Server

Select database server and authentication method.

Connection Name: Axiomconnection

Database server that you are installing to: WINRMB2019

Connect using:

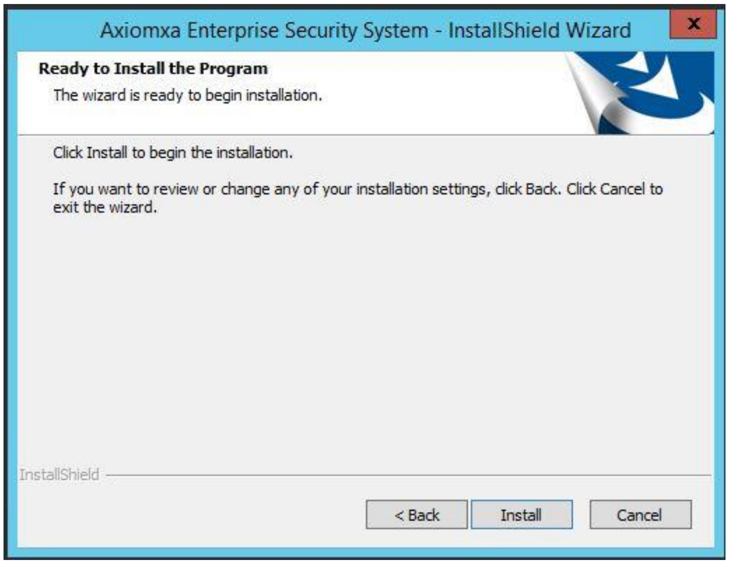
○ Windows authentication

● SQL Server authentication using the Login ID and password below

Login ID: sa

Password: •••••••••••

Fill in SQL server name, login ID and password used for AxiomXa database installation, and click *Next*

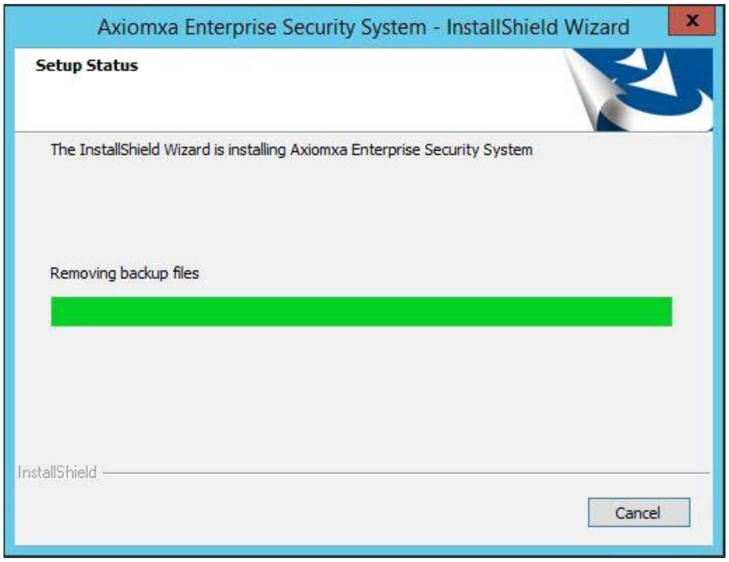

Axiomxa Enterprise Security System - InstallShield Wizard
InstallShield
< Back
Install
Cancel

Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

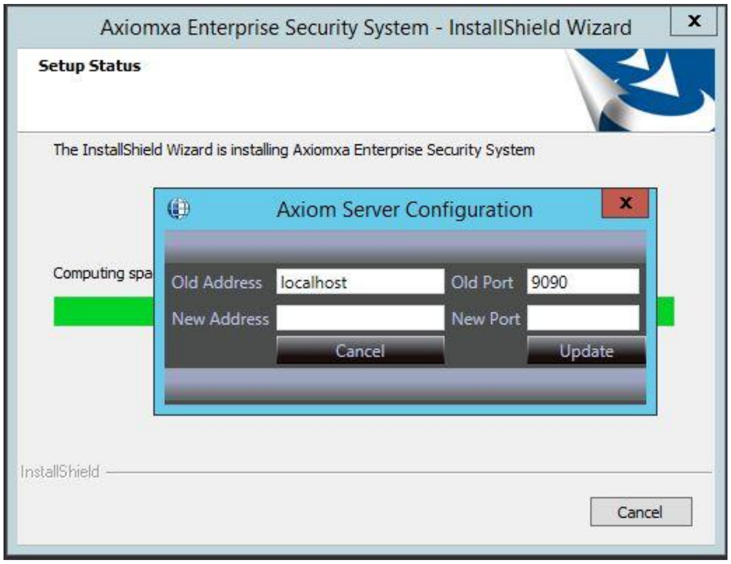
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.


Axiomxa Enterprise Security System - InstallShield Wizard
InstallShield
Cancel

Setup Status

The InstallShield Wizard is installing Axiomxa Enterprise Security System

Removing backup files


Axiomxa Enterprise Security System - InstallShield Wizard
Axiom Server Configuration
Cancel
Update
InstallShield
Cancel

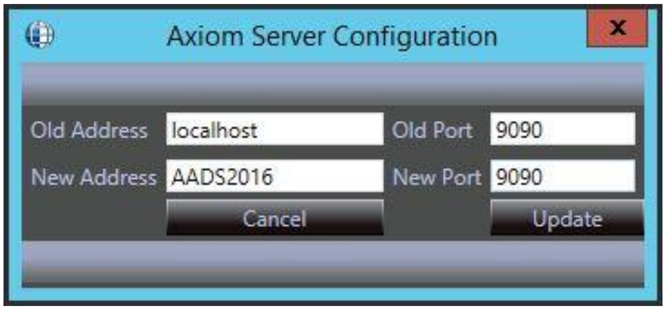
Setup Status

The InstallShield Wizard is installing Axiomxa Enterprise Security System

Computing spa

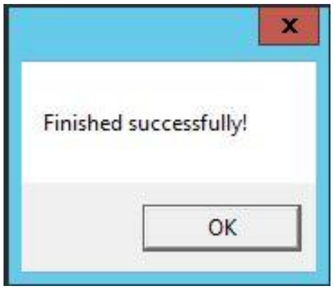
Old Address: localhost
Old Port: 9090
New Address:
New Port:

Type AxiomXa^{TM} Dataserver's machine name or IP address and port used (default 9090) in *New Address* and *New Port* field and click *Update.*

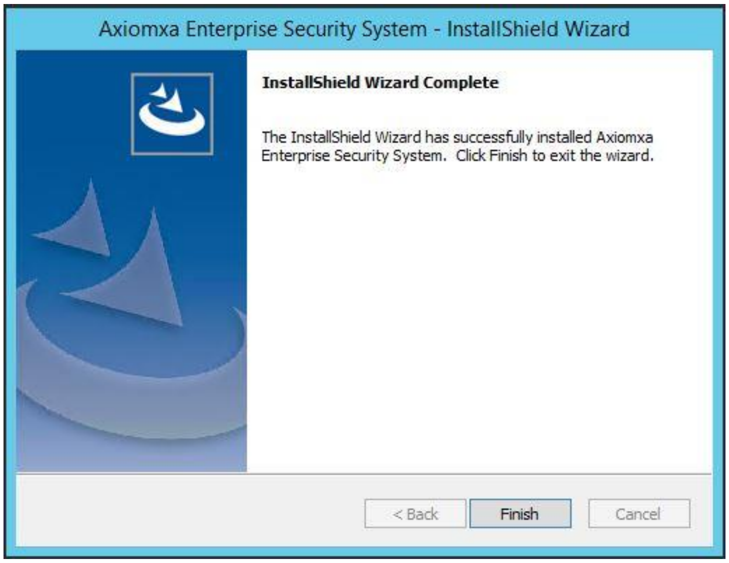


Axiom Server Configuration

Old Address: localhost
Old Port: 9090
New Address: AADS2016
New Port: 9090



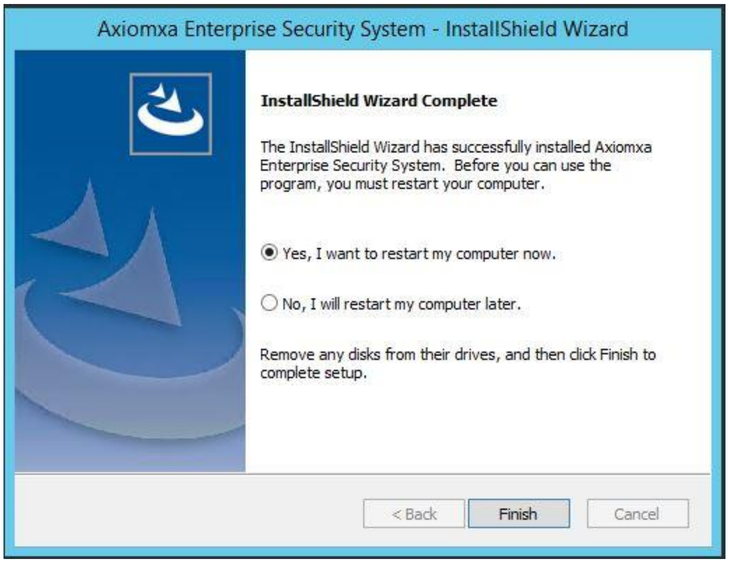
Finished successfully!



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Click Finish to exit the wizard.



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Before you can use the program, you must restart your computer.

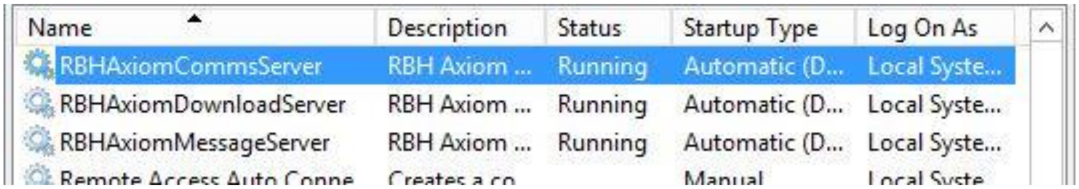
● Yes, I want to restart my computer now.

○ No, I will restart my computer later.

Remove any disks from their drives, and then click Finish to complete setup.

Click on Finish to reboot the machine.

AxiomXa^{TM} Communication Server installs following services:

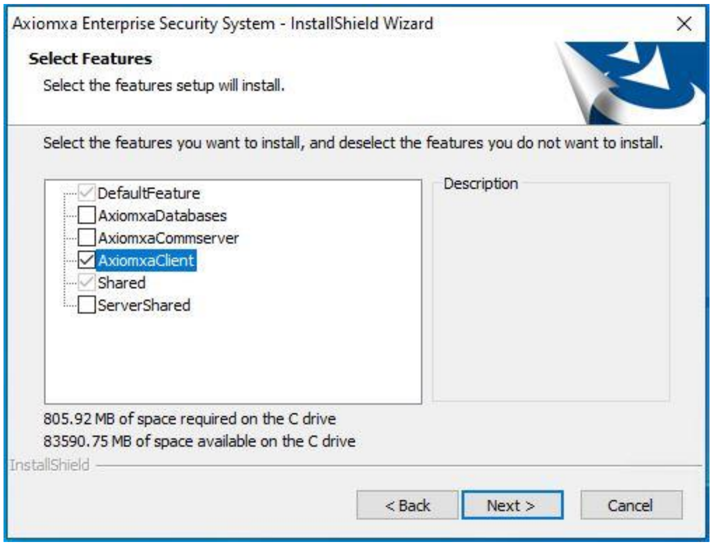


Name	Description	Status	Startup Type	Log On As
RBHAxiomCommsServer	RBH Axiom ...	Running	Automatic (D...	Local Syste...
RBHAxiomDownloadServer	RBH Axiom ...	Running	Automatic (D...	Local Syste...
RBHAxiomMessageServer	RBH Axiom ...	Running	Automatic (D...	Local Syste...
Remote Access Auto Conne	Creates a co		Manual	Local Syste

5. AxiomXa™ Client Installation

Go Back to *AxiomXaEnt* folder on CD and Click on *Setup.exe* and *Run as administrator*.

Follow on screen instructions, select setup type custom and continue until feature screen is reached and select *AxiomXaClient.*



Axiomxa Enterprise Security System - InstallShield Wizard

Select Features

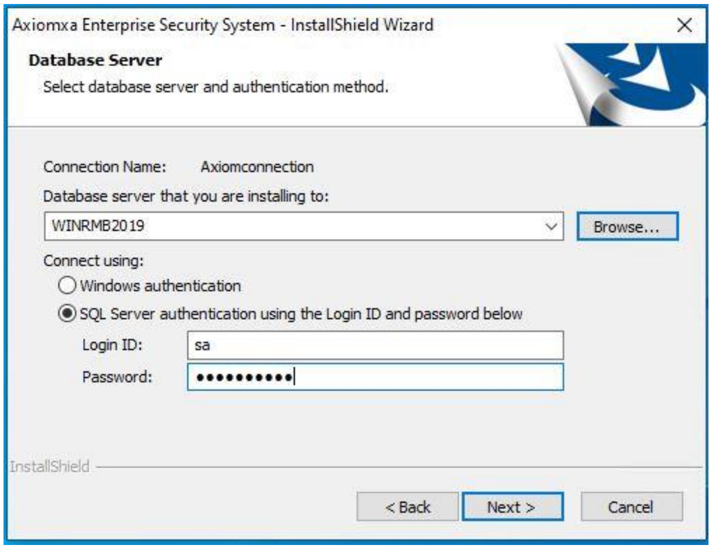
Select the features setup will install.

Select the features you want to install, and deselect the features you do not want to install.

- ☑ DefaultFeature
- ☐ AxiomxaDatabases
- ☐ AxiomxaCommserver
- ☑ AxiomxaClient
- ☑ Shared
- ☐ ServerShared

805.92 MB of space required on the C drive
83590.75 MB of space available on the C drive

Fill in SQL server name, login ID and password used for AxiomXa database installation, and click *Next*



Axiomxa Enterprise Security System - InstallShield Wizard

Database Server

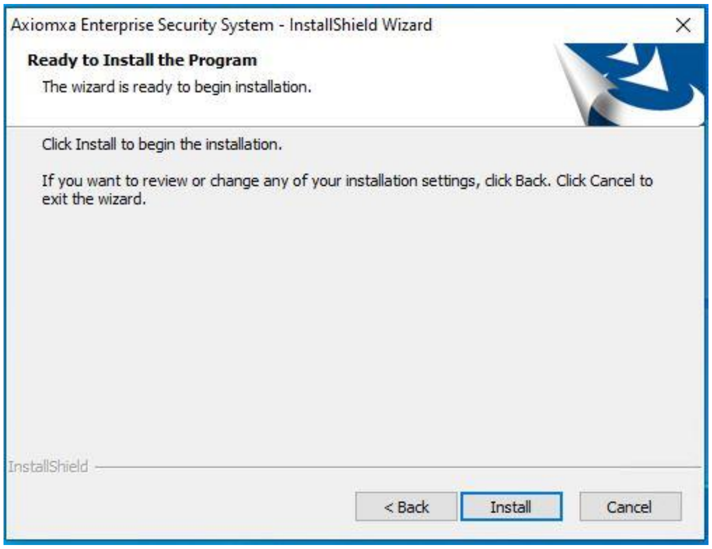
Select database server and authentication method.

Connection Name: Axiomconnection

Database server that you are installing to: WINRMB2019

Connect using:
○ Windows authentication
● SQL Server authentication using the Login ID and password below

Login ID: sa
Password: ••••••••••



Axiomxa Enterprise Security System - InstallShield Wizard

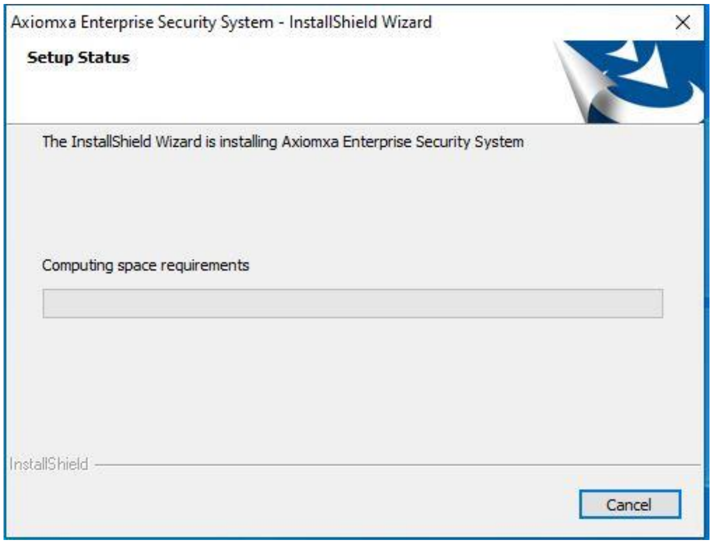
Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

InstallShield
< Back
Install
Cancel



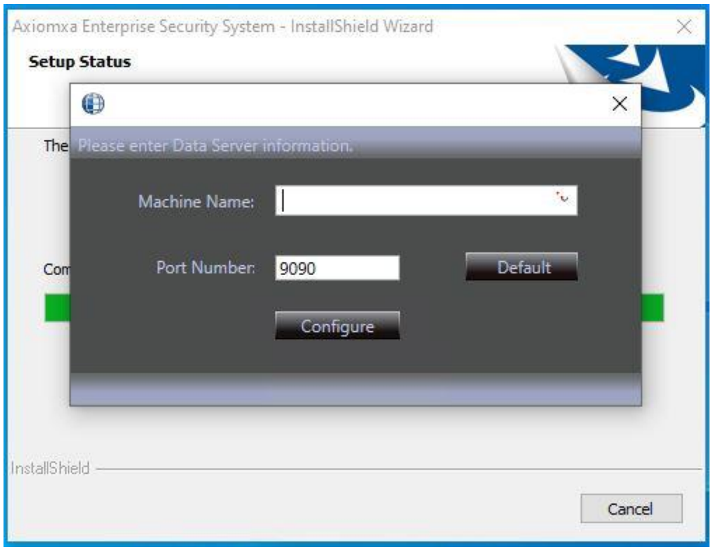
Axiomxa Enterprise Security System - InstallShield Wizard

Setup Status

The InstallShield Wizard is installing Axiomxa Enterprise Security System

Computing space requirements

InstallShield
Cancel



Axiomxa Enterprise Security System - InstallShield Wizard

Setup Status

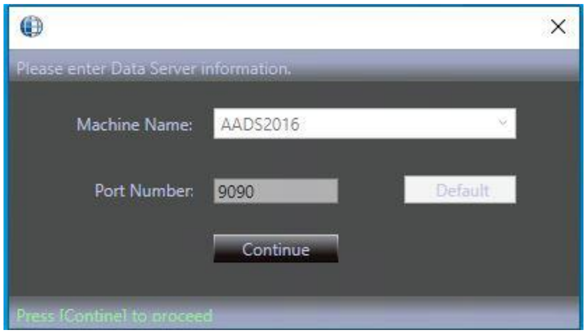
Please enter Data Server information.

Machine Name:

Port Number: 9090

The
Com
Default
Configure
InstallShield
Cancel

Type AxiomXa^{TM} Dataserver's machine name or IP address and port used (default 9090) and click Continue to set up client configuration

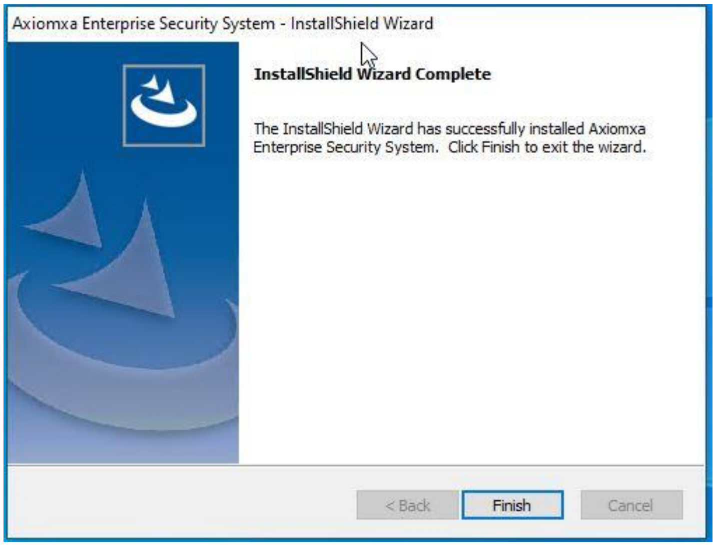


Please enter Data Server information.

Machine Name: AADS2016

Port Number: 9090

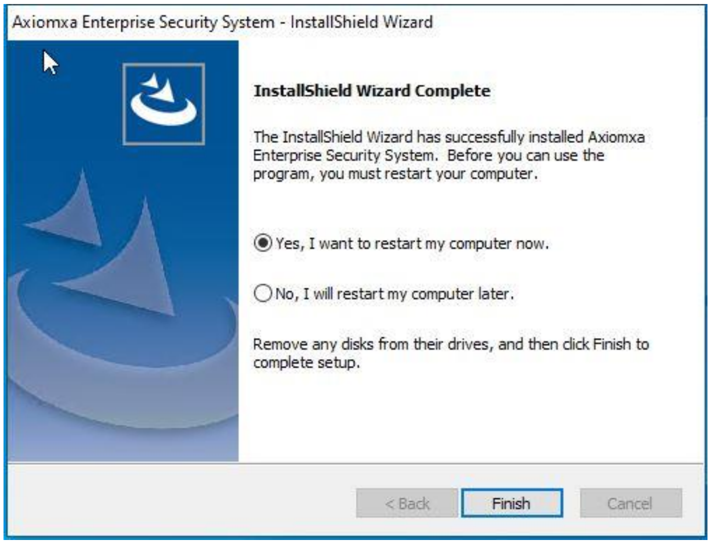
Press [Contine] to proceed



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Click Finish to exit the wizard.



Axiomxa Enterprise Security System - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Axiomxa Enterprise Security System. Before you can use the program, you must restart your computer.

● Yes, I want to restart my computer now.

○ No, I will restart my computer later.

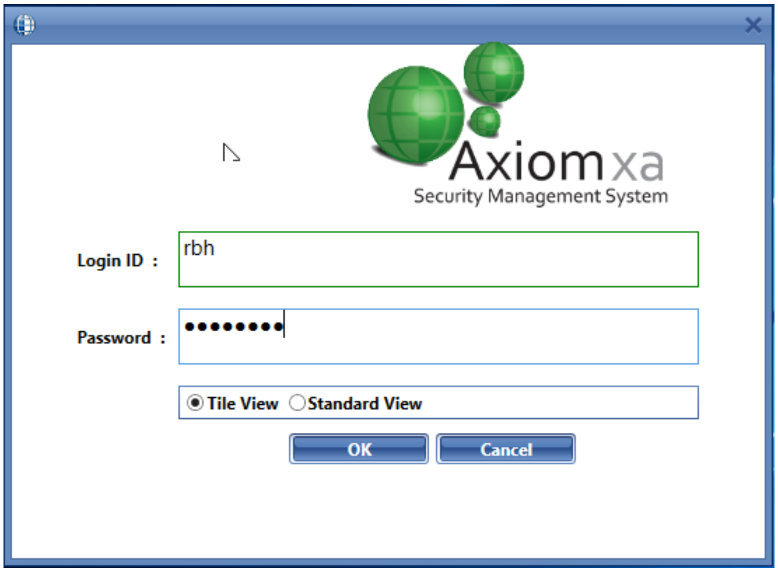
Remove any disks from their drives, and then click Finish to complete setup.

Clicking *Finish* will reboot the machine.

After the reboot, Log in to AxiomXa™ security system.

Log In

Double click on AxiomXa™ Icon at the desktop to Log in.


Axiom xa
Security Management System
OK
Cancel

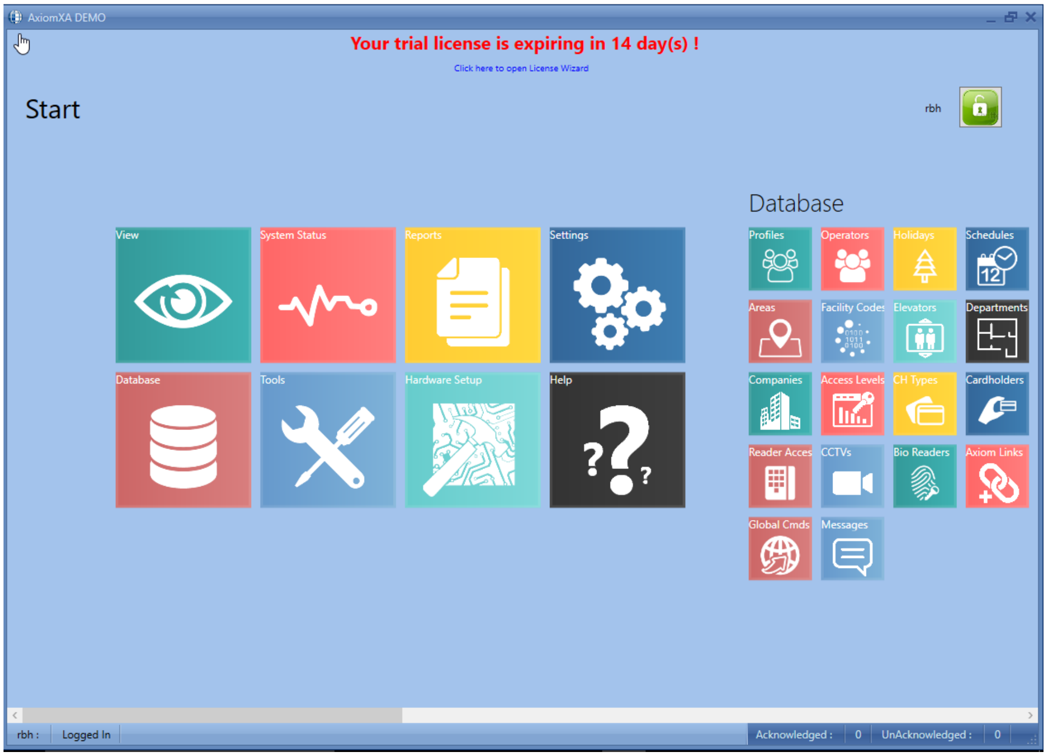
Login ID : rbh

Password : ••••••••

● Tile View ○ Standard View

AxiomXa™ security system is now ready to configure in the Tile view and/or in the Standard view.

Tile View


AxiomXA DEMO
Start
rbh
Database
View
System Status
Reports
Settings
Database
Tools
Hardware Setup
Help
Profiles
Operators
Holidays
Schedules
Areas
Facility Codes
Elevators
Departments
Companies
Access Levels
CH Types
Cardholders
Reader Acces
CCTVs
Bio Readers
Axiom Links
Global Cmds
Messages

Your trial license is expiring in 14 day(s) !

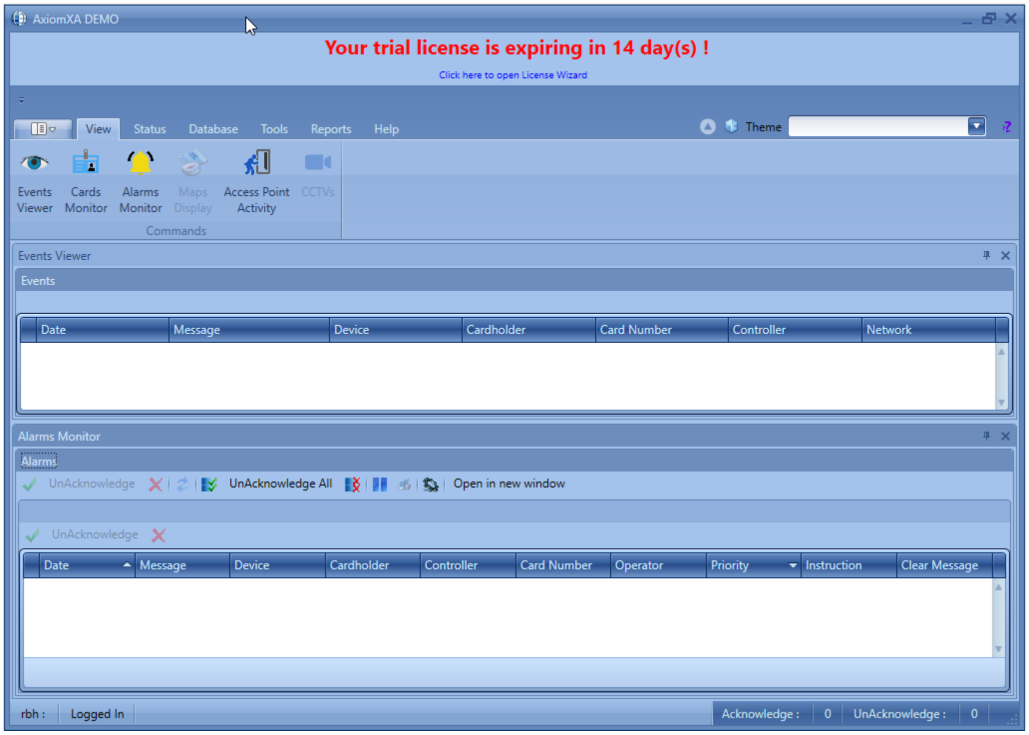
Click here to open License Wizard

rbh : Logged In

Acknowledged : 0

UnAcknowledged : 0

Standard View


AxiomXA DEMO
View
Status
Database
Tools
Reports
Help
Theme
Events Viewer
Cards Monitor
Alarms Monitor
Maps Display
Access Point Activity
CCTVs
Commands
Events Viewer
Events
Date
Message
Device
Cardholder
Card Number
Controller
Network
Alarms Monitor
Alarms
UnAcknowledge
UnAcknowledge All
Open in new window
UnAcknowledge
Date
Message
Device
Cardholder
Controller
Card Number
Operator
Priority
Instruction
Clear Message
rbh :
Logged In
Acknowledge :
0
UnAcknowledge :
0

Your trial license is expiring in 14 day(s) !

Click here to open License Wizard

AxiomXa™ system software comes with 14 days trial license, after which the system will not run unless user registers with RBH and activates the License. Registration and Activation can be done any time during the trial period as well. Follow the instructions in *AxiomXa Registration Activation.pdf* to register and activate.

6. Upgrading system to latest version

a. If upgrade exists it should be run but system must be registered and activated before running the upgrade
b. After running upgrade run server configuration(shortcut is available to update Axiomxa dataserver configuration. The server confirmation files may be changed after upgrade.

Ports used by AxiomXa^{TM} installation

All the ports used by AxiomXa system are already excluded in Windows Firewall.

Following are the Ports used By AxiomXa system

AxiomXa Data Service	9090
AxiomXa WebClient	60002
AxiomXa connection port for all AxiomXa related windows services	8012
Callback port used by Client Application	1121

Ports used by CodeMeter Licensing System

Ports 22350-22352 are used by CodeMeter.