Deltek

Deltek Costpoint® 8.2

New Installation Guide for
Microsoft SQL Server

June 1, 2023

Contents

New Installation Checklist

The following is a checklist of the overall steps needed to install Costpoint 8.2. Details for each step are provided on subsequent pages.

Print this checklist and use it as you complete this installation, if desired.

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Related Documentation

The following table lists the additional documentation that downloads with this release. Except where noted, all the user guides and quick reference guides listed in this table are also available for download from the Deltek Customer Care Connect site.

You need Adobe Reader 8.2 or higher to view the documents listed in this section.

Release Notes

Document Name	Description
Deltek Costpoint 8.2 Database Changes	This document describes the database changes between the release of Costpoint 8.1 and Costpoint 8.2.
Deltek Costpoint 8.2 Release Notes	**Major New Features and Enhancements**: View the major new features and enhancements included in Costpoint 8.2. **De-Supported Applications**: View the applications that are no longer supported in Costpoint 8.2.

Entity Relationship Diagrams (ERDs)

Document Name	Description
DeltekCostpoint820TransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Transaction schema. Use **index.htm** to view the ERD.
DeltekCostpoint820SystemSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 System schema. Use **index.htm** to view the ERD.
DeltekCostpoint820AdminSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Admin schema. Use **index.htm** to view the ERD.
DeltekCostpoint820PLTransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Planning Transaction schema. Use **index.htm** to view the ERD.
DeltekCostpoint820TETransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Time & Expense Transaction schema. Use **index.htm** to view the ERD.

Technical Guides:

Document Name	Description
Deltek Costpoint 8.2 Configuration Utility	This document describes how to use the Costpoint Configuration Utility, which helps Costpoint administrators perform the most common configuration tasks.
Deltek Costpoint 8.2 Content Management Integration	This document describes how to configure and tune the Costpoint Content Management Integration (CMI) application to provide access to Microsoft SharePoint™, as well as other Content Management Systems (CMS) that are compliant with the Content Management Interoperability Standard (CMIS).
Deltek Costpoint 8.2 DB Wizard Utility	This document describes how administers can use the DB Wizard utility to apply licenses, run link views, and rebuild user menus as well as deploy and verify extensibility.
Deltek Costpoint 8.2 Deployment Options Technical Overview	This document provides a high-level overview of Costpoint configuration options, including server, database, and security options.
Deltek Costpoint 8.2 Integration Overview	This document provides a high-level overview of how Costpoint reports, processes, and data can be integrated with third-party applications via Web services.
Deltek Costpoint 8.2 Integration Console	This document is a detailed guide to the Costpoint Integration Console, which automates the process of integrating Costpoint reports, processes, and data with third-party applications via Web services.
Deltek Costpoint 8.2 Maintenance Release Installation Guide	This document describes how to apply Costpoint 8.2 MRs.
Deltek Costpoint 8.2 Monitoring Utility	This document describes how to use the Monitoring Utility to diagnose Costpoint configuration problems.
Deltek Costpoint 8.2 Performance Optimization	This document contains Costpoint performance tips and tricks, information on the configuration of the Deltek performance lab, as well as a list of optimized applications for the Oracle parallel SQL execution option.

Document Name	Description
Deltek Costpoint 8.2 Post Installation Hardening Guide	This document presents common principles and recommendations that administrators should consider for post-installation hardening of the Costpoint server environment.
Deltek Costpoint 8.2 Process Execution Modes	This document describes the many options for executing reports and processes in Costpoint, including using interactive and batch modes and job servers.
Deltek Costpoint 8.2 Security	This document describes user authentication and other security safeguards in Costpoint.
Deltek Costpoint 8.2 User Migration Utility	This document describes how to migrate users from earlier Costpoint versions to Costpoint 8.2.

Other Documents:

Document Name	Description
Deltek Costpoint 8.2 Getting Started Guide	This document describes instructions for accessing Costpoint applications as well as descriptions of menus, toolbars, and other global features. You will also find information on logging on to Costpoint, accessing the database, printing reports, reviewing online help, and contacting Deltek Customer Care and other client services.
Deltek Costpoint 8.2 User Interface QRC	This document is a quick reference card that you can keep handy and use for reference as you work in Costpoint 8.2. It describes how to navigate through the application.
Deltek Costpoint 8.2 Shortcut Keys Toolbar Icons and Buttons QRC	This document is a quick reference card that you can keep handy and use for reference as you work in Costpoint 8.2. It lists the shortcut keys available in Costpoint, as well as the toolbar icons and buttons.
Deltek Costpoint 8.2 Views QRC	This document is a quick reference card that you can keep handy and use for reference as you work in Costpoint 8.2. It explains the differences between Table View and Form View.
Deltek Costpoint 8.2 Query and Lookup QRC	This document is a quick reference card that you can keep handy and use for reference as you work in Costpoint 8.2. It explains how to

Document Name	Description
	use the query and lookup functions in Costpoint,
Deltek Costpoint 8.2 Extensibility Designer Coding Guide	This document contains java coding information for Costpoint Extensibility developers.
Deltek Costpoint 8.2 Extensibility Designer Quick Start Guide	This document outlines the basic steps for creating and deploying extensibility.
Deltek Costpoint 8.2 Extensibility Designer Report Guide	This document describes how to extend a report.
Deltek Costpoint 8.2 Extensibility Designer User Guide	This document contains detailed instructions for using the Costpoint Extensibility Designer.
Deltek Costpoint 8.2 Screen Customization and Business Logic Extensibility	This document is an overview of Costpoint screen customization and business logic extensibility features.

New Installation Overview

This document provides instructions for installing the Deltek Costpoint 8.2 software. During the installation process, you will perform the following actions:

- Ensure that your system meets the installation prerequisites.

> **Note:** Please refer to the Installation Prerequisites and System Requirements sections for additional information. Also, please review the full list of related documentation prior to installing Costpoint 8.2.

- Install the Costpoint 8.2 Database Tier software to create your Costpoint 8.2 Transaction, System, and Admin databases, as well as your Costpoint 8.2 Planning (PL) Transaction and Time & Expense (TE) Transaction databases (if applicable).

- Install the Costpoint 8.2 Application Tier software, which includes both the Oracle WebLogic® Server software and the Costpoint 8.2 software.

- Install the Costpoint 8.2 Web Tier software to your Internet Information Server (if applicable).

- Install the latest Costpoint 8.2 Maintenance Release (MR).

> **Note:** If you need help with this installation, please contact Deltek Costpoint Technical Support at 877.HLP.PROJ (877-457-7765).

Installation Package Contents

The Costpoint 8.2 installation package contains the following:

- Costpoint 8.2 Database Tier installer
- Costpoint 8.2 Application Tier installer
- Costpoint 8.2 Web Tier installer
- Costpoint 8.2 Maintenance Release Installer
- Deltek Costpoint 8.2 New Installation Guide for Microsoft SQL Server
- Deltek Costpoint 8.2 Maintenance Release Installation Guide

Installation Prerequisites

Database Tier Installation Prerequisites

Before you start the Database Tier installation process, your database server must meet the following software requirements.

Prerequisite Component	Details
Software	All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site, available here.

Prerequisite Component	Details
	Note the database compatibility levels: SQL Server 2022 (160), SQL Server 2019 (150).
Passwords	To run the installation, a password is required for Microsoft SQL Server SA user or any user with **sysadmin** privileges.
Firewall Settings	On your Database Server, the Microsoft SQL Server Instance Port (**1433**) must be open for Inbound and Outbound traffic through your firewall. For a Named Microsoft SQL Server Instance, one of the following must be met: ▪ SQL Browser Service must be enabled and running, and SQL Browser UDP Port (1434) should be open for Inbound and Outbound traffic. ▪ A dedicated port could be configured for the instance, and such a port should be open for Inbound and Outbound traffic. On your Database Server, make sure that **Network discovery** and **file sharing** options are switched on.

Close all software applications running on the database server.

To avoid memory contention, check the memory allocated for SQL Server and make sure that the server can allocate at least a minimum of 8 GB.

Application Tier Installation Prerequisites

Before you start the Application Tier installation process, the application server that will run your WebLogic Server and Costpoint 8.2 software must meet the following prerequisites.

Prerequisite Component	Details
Software	All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site here.

Costpoint 8.2 Server Startup Prerequisites

Before you start Costpoint 8.2, the following requirement must be met.

Prerequisite Component	Details
Server	On your Database Server, the SQL Server Listener Port **1433** must be open for Inbound and Outbound traffic through your firewall. On your Database Server, make sure that the **Network Discovery and File Sharing** options are switched on. On your Application Server, the WebLogic Listener Port **7009** must be open for Inbound and Outbound traffic through your firewall.

Prerequisite Component	Details
	On your Application Server, make sure that the **Network Discovery and File Sharing** options are switched on.

Costpoint 8.2 Initial Log In Configuration Prerequisites

Before you can log in to Costpoint 8.2, your Windows client computer must meet the following requirements.

Prerequisite Component	Details
Software	All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site here.
	Adobe Reader 2020.xxx or higher. This is required only for users who want to print Costpoint 8.2 reports in PDF format. Make sure that you select the **Display PDF in browser** option in Preference settings for Adobe Acrobat Reader to avoid pulling up a blank browser screen when printing in PDF format.

Web Tier Installation/Microsoft Internet Information Server (IIS) Configuration Prerequisites

The web server that will host your Internet Information Server software must meet the following requirements.

Prerequisite Component	Details
Software	All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site here.

Installation Process for Costpoint 8.2

The Costpoint 8.2 installation process includes the following steps.

Component	Change Details
Database Tier Installation	The Database Tier installer automatically creates the following user-defined databases and users: • Transaction Schema (DELTEKCP/CPTRAN) • Admin Schema (DELTEKADM/CPADMIN) • System Schema (DELTEKSYS/CPSYSTEM) • PL Transaction Schema (DELTEKPL/PLTRAN), if applicable • TE Transaction Schema (DELTEKTE/TETRAN), if applicable • Link User (CPLINK_USER)

Component	Change Details
Application Tier Installation	The Install function in the Application Tier automatically installs all necessary software and handles all configurations. The Application Tier installer automatically performs all the following actions: • Extracting JDK • Installing WebLogic • Extracting BIRT Lib Files • Extracting App Tier Class Files • Updating Config Files • Encrypting Passwords • Running LinkViews • Syncing Sys Settings Table • Applying License • Running LinkViews • Migrating Org Security Application Modules • Creating Demo License • Creating Shortcuts The Application Tier installer creates a **CostpointToolsGroup** with the following Sharing and Security permissions: • Full Sharing and Security Permissions on your Costpoint 8.2 Deltek directory (C:\Deltek) • Full Security Permissions on your WebLogic directory (C:\Oracle\Middleware14.1.1)
Web Tier Installation	The Install function in the Web Tier automatically installs all necessary software and handles all configurations. The Web Tier installer automatically performs all the following actions: • Extracting DEProxy Files • Extracting DEWebApp Files • Configuring Internet Information Server (IIS) • Resetting Internet Information Server (IIS) The Web Tier installer creates a **CostpointToolsGroup** with the following Sharing and Security permissions: • Full Sharing and Security Permissions on the folder containing your Costpoint 8.2 DEWebApp directory (C:\Deltek\Costpoint or C:\Deltek\Costpoint\82\applications)

Web Servers Supported in Costpoint 8.2

The Costpoint 8.2 system supports the following web servers only:

- Microsoft Internet Information Server
- Oracle's WebLogic Web server

Naming Conventions

The naming conventions specified in this section are used in all installation instructions detailed in this upgrade installation guide.

Drive Letters

The table below lists the drive letters used in the installation instructions.

Drive	Description
C:	This is the drive where the Costpoint 8.2 software is installed.

Directory Names

The table below lists the directory names used in the installation instructions.

Directory Name	Description
ORACLE/MIDDLEWARE14.1.1	This is the name of the directory where the Oracle WebLogic software is installed.
DELTEK	This is the name of the directory where the Costpoint 8.2 software is installed.

Database Names

Deltek recommends creating the three Costpoint schemas in one SQL Server database. Clients are free to choose the database name.

Database Name	Description
DELTEKCP	This is the name of your Costpoint 8.2 database. This database includes the Transaction, System, and Admin functions.

The table below lists database names used for each of the Costpoint functions, respectively.

Database Name	Description
DELTEKCP	This is the name of your Costpoint Transaction database.
DELTEKSYS	This is the name of the Costpoint System database.
DELTEKADM	This is the name of the Costpoint Admin database.

Database Name	Description
DELTEKPL	This is the name of your Planning Transaction database.
DELTEKTE	This is the name of your Time & Expense Transaction database.

Deltek Software Manager (DSM)

Software installations, installation instructions, technical guides, and release notes are available for download from the Deltek Software Manager (DSM). You will also download future releases of Costpoint 8.2 from DSM.

DSM is the sole download source for hotfix files.

Deltek Knowledge Base articles provide an explanation of the fixes and contain links to DSM for retrieval of the actual files.

DSM Requirements

You can run DSM from any desktop. You do not need to run DSM from Deltek application servers.

To run DSM, you must meet the following requirements:

- Windows XP or later
- Microsoft .NET Framework 3.5 SP1 (3.5.1)

The following Deltek Knowledge Base article contains a download link to the framework. It also has examples of what you may see if you do not have the framework installed:

https://deltek.custhelp.com/app/answers/detail/a_id/52469

> **Note:** Refer to the DeltekSoftwareManager.pdf to learn more about DSM and how it works.

DSM Documentation and Troubleshooting

For more information on Deltek Software Manager, use the following links:

- To view the online help for DSM, click here.
- To view a tutorial on how to use DSM, click here.
- To view information about troubleshooting DSM, click here.

  This link works only when you are logged in to Deltek Customer Care Connect.

Knowledge Base Documentation

To view Knowledge Base articles:

1. Go to http://www.deltek.com and click **Support Login**.
2. Enter your logon credentials in the following fields, and then click **Log In**:

Field Name	Description
Username	Enter your Support username.
Password	Enter your Support user password.

If you have forgotten your username or password, click **Account Assistance**.

If you have forgotten your username, enter your email address and click **Email My Username**.

If you have forgotten your password, enter your username and click **Reset My Password**.

3. On the Deltek Support Home Screen, click the Knowledge Center tab, complete the following fields, and then click **Search**:

Field Name	Description
Refine by Product	Select **Costpoint** from the drop-down list.
Refine by Category/Version	Expand Service Pack/Hot Fix in the drop-down list, and then select **8.2 (GA)**.
Search Type	Use the default value, **Phrases**, or select your preferred search type from the drop-down list.
Search by Keyword	Enter the specific text that you are looking for or leave blank to return all records for this version.

4. On the search results screen, perform the following actions:

- In the **Summary** column, click the link for the desired correction.
- When the desired correction loads, click the links in the **Answers** section to download the files.

System Requirements

Components

Costpoint 8.2 uses the following components:

- **Database Tier**: SQL Server
- **Application Tier**: With integrated WebLogic Server
- **Browser Client**: Edge, Chrome, Firefox, or Safari
- **Web Tier**: Microsoft Internet Information Server (optional)

System Clocks

For the Costpoint system to function properly, the system clocks on your WebLogic application server and the database server that hosts your Costpoint databases must be synchronized with each other. Failure to synchronize your system clocks may result in login and other system problems.

Hardware Recommendations

You should have received a hardware recommendations document. For future releases of Costpoint, hardware recommendations will be supplied via a Customer Care **Knowledge Base** article.

Uninstalling and Reinstalling on the Same Server/VM

Errors can occur when you uninstall and reinstall Costpoint on the same Server/VM. If you encounter problems during a first installation attempt and need to start over, Deltek recommends that you start over on a freshly built Server/VM.

If you are using a VM, taking a snapshot of the VM before you begin the installation offers an easy method of returning to a fresh state.

Compatibility Matrix

For the most current hardware and software requirements, please refer to the Knowledge Base article containing the Compatibility Matrix:

- https://deltek.custhelp.com/app/answers/detail/a_id/38499
- https://deltek.custhelp.com/ci/fattach/get/1072689/0/filename/DeltekProductSupportCompatibility Matrix.pdf

Costpoint 8.2 Log File Information

The table below provides information on the log files used by Costpoint 8.2. All these log files are located on the Application Server under the C:\Deltek\Costpoint\82\logs folder.

File Name	Description
DEServer.log	This log file is maintained by the WebLogic server instance. In a clustered environment, each server writes to a separate file and the filename matches the server name. The log records server-specific events such as the startup and shutdown of servers, the deployment of new applications, or the failure of one or more subsystems. The messages include the time and date of the event as well as the ID of the user who initiated the event.
CP_DBConn_DEServer.log	This file lists the activate connections used by the product at a given time. To enable this logging, set <SYSTEMNAME>.logDBConnectionProfile = **true** in enterprise properties. In a clustered environment, each server writes to a separate log file and the server name determines the name of the log file. CP_DBConn_<Server>.log
CP_DEServer.log	This file contains application-specific information such as performance, security, and errors encountered while running a Costpoint application.

File Name	Description
	Each server writes to a separate log file and the server name determines the name of the log file. CP_<Server>.log
CP_Security_DEServer.log	This file captures messages generated by Costpoint Web security module. Messages such as invalid login attempts caused by problematic user IDs, passwords, or insufficient parameters, as well as deactivated user accounts, are captured here. In a clustered environment, each server writes to a separate log file and the server name determines the name of the log file. CP_Security_<Server>.log
delteke.log	This log file contains information that pertains to the entire domain. It consolidates log records from all application logs and a subset of events recorded in all server logs. All the information gathered is written into a single file. Not all log messages are written into domain. Only those messages that match the defined severity are consolidated.
service.log	This log file contains messages generated by Costpoint Web windows service. It helps in troubleshooting issues related to service startup, which usually occur during the initial configuration stages. In addition to service-related messages, this file contains most of the information that is captured in the DEServer.log. Therefore, after the initial startup issues are sorted out, Deltek recommends that you disable this log by editing **InstallCPWebasService.cmd** (C:\Deltek\Costpoint\82\bin folder) and removing the occurrence of: "**-log:%CP_ROOT%\logs\service.log**". If you remove this after installing the service, you will need to uninstall and reinstall the service for the changes to take effect.

Database Tier Installation

This section provides instructions and recommendations for creating your Costpoint 8.2 Transaction, System, Admin, Planning Transaction, and Time & Expense Transaction database(s) and the corresponding Costpoint users and schemas. Deltek recommends using a single database to host all the Costpoint schemas.

During this installation process, you will install the Costpoint 8.2 Database Tier software and automatically perform the following:

- Create and populate a Costpoint 8.2 Transaction database schema to store transaction data.
- Create and populate a Costpoint 8.2 System database schema to store metadata.
- Create and populate a Costpoint 8.2 Admin database schema to store system and security information.
- Create and populate a Costpoint 8.2 Planning Transaction database schema to store PL transaction data, if applicable.
- Create and populate a Costpoint 8.2 Time & Expense Transaction database schema to store TE transaction data, if applicable.

> **Note:** The Costpoint Database Tier installer creates a SQL Server database user and corresponding schema with the same name.

Before You Start

Make sure that you meet all [Database Tier Installation Prerequisites](#).

Install Database Tier Software

This section provides the steps for installing the Costpoint 8.2 Database Tier software and creating the Transaction, System, Admin, PL Transaction, and TE Transaction databases.

You must perform these steps on your **database** server.

> **Note:** For SQL Server cluster installations, the install directory must be a local drive as opposed to a shared drive.

You must have Internet access on the machine where the Costpoint 8.2 installer is invoked in order to download the latest DeltekCostpoint82DatabaseNewInstallationFiles.exe and DeltekCostpoint82RequirementsINI.exe files automatically.

The DeltekCostpoint82DatabaseInstallationFiles.exe contains the latest special characters supported for user, password, and other fields in the installer as well as other files needed in the enable JDBC area. The DeltekCostpoint82RequirementsINI.exe contains the latest OS platforms and database versions supported. These files are automatically downloaded when you launch the Database Tier installation, assuming that your database server has Internet access.

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> **Note:** The Deltek product installers contain functionality which enables them to dynamically download configuration files and patch rollback scripts when the product installers are executed from the Deltek Software Manager server. To improve security, these connections have been modified to require communication over HTTPS.

If your database server does not have internet access, you must perform the steps in the Latest Installer Files Download Instructions section of this document before you run the DeltekCostpoint82DatabaseTier.exe file.

To install the Database Tier software:

1. Run the **DeltekCostpoint82DatabaseTier_Buildxx.exe** file to launch the Costpoint 8.2 Database Tier installation program.

   > **Note:** Due to enhanced security in Microsoft Windows Server, it is advised that you use the **Run as Administrator** option when launching installation files, even if you are logged in as a user with local administrative rights. To do so, right-click the DeltekCostpoint82DatabaseTier.exe file in Windows Explorer and select **Run as Administrator**.

2. On the Welcome to the InstallShield Wizard for Deltek Costpoint Database screen, click **Next >**.

3. On the Select the Database Type screen, select **Microsoft SQL Server**, and click **Next >**.

4. On the Choose Destination Location screen, click **Browse** to navigate to an installation location for the Costpoint 8.2 Database Tier software, and click **Next >**.

   The default installation location is **C:\Deltek\Costpoint\82\Database\Scripts** (recommended).

5. On the Features screen, select from the following.

Field Name	Action
Costpoint MSSQL Databases	Select this feature to install and configure the Costpoint Transaction, System, and Admin databases and users.
Time & Expense MSSQL Database	Select this feature to install and configure the Time & Expense Transaction database and user.
Planning MSSQL Database	Select this feature to install and configure the Planning Transaction database and user.

6. On the Costpoint SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 Transaction (DELTEKCP) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _**

Field Name	Action
	The values for the IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster IP Address or SQL Cluster Hostname.
Instance Name	Enter the name of your Costpoint Transaction database instance. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the SQL Server TCP port for the Costpoint Transaction database server. The default port for SQL Server is **1433**. Currently, this installer will allow database installations to connect to a SQL Server DEFAULT instance over port 1433 only. Use of non-default ports will be addressed in a future release.
Transaction Database Name	Enter the name of your Costpoint Transaction database. The default value is **DELTEKCP**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your Costpoint Transaction user account. The default is **CPTRAN**. The Costpoint Installer creates a SQL Server schema with the same name as the username. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your Costpoint Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
Transaction Database Confirm User Password	Re-enter the password for your Costpoint Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. If a user with "sysadmin" privileges is available, that user can alternatively be used. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported:

Field Name	Action
	' ~ # $ ^ & ( ) - _ + = , .

7. Click **Test Connection**.

   If you entered the proper database connection information, a message similar to the following displays:

   "DELTEKCP Database and CPTRAN User will be created. Click Next."

   If this message does not display, correct the connection information, and click **Test Connection** again.

8. After receiving the message, click **Next >**.

9. On the Costpoint SQL Server ADMIN Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 Admin (DELTEKADM) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The values for the IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster IP Address or SQL Cluster Hostname.
Instance Name	Enter the name of your Costpoint Admin database instance. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the SQL Server TCP port the Costpoint Admin database server. The default port for SQL Server is **1433**. Currently, this installer will allow database installations to connect to a SQL Server DEFAULT instance over port 1433 only. Use of non-default ports will be addressed in a future release.
Admin Database Name	Enter the name of your Costpoint Admin database. The default value is **DELTEKADM**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Admin Database User	Enter the name of your Costpoint Admin user account. The default is **CPADMIN**. The Costpoint Installer creates a SQL Server schema with the same name as the username. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**

Field Name	Action
Admin Database User Password	Enter the password for your Costpoint Admin user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
Admin Database Confirm User Password	Re-enter the password for your Admin user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. If a user with "sysadmin" privileges is available, that user can alternatively be used. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

10. Click **Test Connection**.

    If you have entered the proper database connection information, a message similar to the following displays:

    "DELTEKADM Database and CPADMIN User will be created. Click Next."

    If this message does not display, correct the connection information, and click **Test Connection** again.

11. After receiving the message, click **Next >**.

12. On the Costpoint SQL Server SYSTEM Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 System (DELTEKSYS) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The values for the IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster IP Address or SQL Cluster Hostname.

Field Name	Action
Instance Name	Enter the name of your Costpoint System database instance. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the SQL Server TCP port the Costpoint database server. The default port for SQL Server is **1433**. Currently, this installer will allow database installations to connect to a SQL Server DEFAULT instance over port 1433 only. Use of non-default ports will be addressed in a future release.
System Database Name	Enter the name of your Costpoint System database. The default value is **DELTEKSYS**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
System Database User	Enter the name of your Costpoint System user account. The default is **CPSYSTEM**. The Costpoint Installer creates a SQL Server schema with the same name as the username. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
System Database User Password	Enter the password for your Costpoint System user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
System Database Confirm User Password	Re-enter the password for your Costpoint System user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. If a user with "sysadmin" privileges is available, that user can alternatively be used. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

13. Click **Test Connection**.

If you entered the proper database connection information, a message similar to the following displays:

"DELTEKSYS Database and CPSYSTEM User will be created. Click Next."

If this message does not display, correct the connection information, and click **Test Connection** again.

14. After receiving the message, click **Next >**.

15. On the Time & Expense SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Time & Expense 8.2 Transaction (DELTEKTE) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The values for the IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster IP Address or SQL Cluster Hostname.
Instance Name	Enter the name of your Time & Expense Transaction database instance. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the SQL Server TCP port for the Time & Expense Transaction database server. The default port for SQL Server is **1433**. Currently, this installer will allow database installations to connect to a SQL Server DEFAULT instance over port 1433 only. Use of non-default ports will be addressed in a future release.
Transaction Database Name	Enter the name of your Time & Expense Transaction database. The default value is **DELTEKTE**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your Time & Expense Transaction user account. The default is **TETRAN**. The installer creates a SQL Server schema with the same name as the username. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your Time & Expense Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

Field Name	Action
Transaction Database Confirm User Password	Re-enter the password for your Time & Expense Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. If a user with "sysadmin" privileges is available, that user can alternatively be used. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

16. Click **Test Connection**.

    If you entered the proper database connection information, a message similar to the following displays:

    "DELTEKTE Database and TETRAN User will be created. Click Next."

    If this message does not display, correct the connection information, and click **Test Connection** again.

17. After receiving the message, click **Next >**.

18. On the Planning SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Planning 8.2 Transaction (DELTEKPL) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The values for the IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster IP Address or SQL Cluster Hostname.
Instance Name	Enter the name of your Planning Transaction database instance. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**

Field Name	Action
Port	Enter the SQL Server TCP port the Planning Transaction database server. The default port for SQL Server is **1433**. Currently, this installer will allow database installations to connect to a SQL Server DEFAULT instance over port 1433 only. Use of non-default ports will be addressed in a future release.
Transaction Database Name	Enter the name of your Planning Transaction database. The default value is **DELTEKPL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your Planning Transaction user account. The default is **PLTRAN**. The Costpoint Installer creates a SQL Server schema with the same name as the username. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your Planning Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
Transaction Database Confirm User Password	Re-enter the password for your Planning Transaction user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. If a user with "sysadmin" privileges is available, that user can alternatively be used. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

19. Click **Test Connection**.

If you have entered the proper database connection information, a message similar to the following displays:

"DELTEKPL Database and PLTRAN User will be created. Click Next."

If this message does not display, correct the connection information, and click **Test Connection** again.

20. After receiving the message, click **Next >**.

---

21. On the Link User Information screen, complete the following fields:

Field Name	Action
Link User Name	Enter the name of your LINK user account. The default value is **CPLINK_USER**. The Link username must be unique for each and every Costpoint system you configure. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Link User Password	Enter the password for your LINK user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
Link User Confirm Password	Re-enter the password for your LINK user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

22. Click **Test Connection**.

   If you have entered the proper database connection information, a message similar to the following displays:

   "User CPLINK_USER will be created. Click Next."

   If the message does not display, correct the connection information, and click **Test Connection** again.

23. After receiving the message, click **Next >**.

24. On the Start Copying Files screen, review the installation parameters that you selected:

   ▪ If you want to change any settings, click **< Back** and make the necessary changes.

   ▪ If you are satisfied with these settings, click **Install >** to begin the installation.

   Once initiated, the installation process will commence and create objects needed for Costpoint 8.2. Do not interrupt the process. A Windows Command Prompt will appear on your screen that displays the scripts that are being executed.

   The installation will perform the scenarios detailed in the [Installation Process for Costpoint 8.2](#) section of this document. The installation process will stop if any errors are encountered. If any errors occur during the installation, please contact Deltek Technical Support.

25. Upon completion, the Deltek Costpoint Database - Installation Summary Results screen displays the results of the installation process.

   For each Feature you selected to install, you should see a SUCCESS message.

   Any FAILED messages or Errors indicated should be further researched in the applicable detailed log file(s) and reported to Deltek Costpoint Technical Support.

26. Click **Next >**.

27. On the InstallShield Wizard Complete screen, complete the following fields.

Field Name	Action
Launch the installer summary file	Select this checkbox to review the summary log file. This will show the same data from previous screen. C:\Program Files\Deltek\Costpoint\ 8.2\Logs\DBTier_Installer**DBTier_Install_SummaryResults.log**.
Launch the installer log file	Select this checkbox to review the Deltek Costpoint Database installer log file. C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\ **DBTier_Install.log**.

28. Click **Finish** to exit the installation.

   Please review all log files for any Errors or reported issues, although to help identify any issues, all Errors will be in the DBTier_Install_ErrorSummaryResults.log, from the C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer folder.

   The following errors can be ignored in the DBTier_Install.log.

   ```
   AppendFileToLogFile - Sqlcmd: Error: Microsoft SQL Server Native Client 11.0 :
   SQL Server Network Interfaces: Connection string is not valid [87]. .
   ```

   ```
   AppendFileToLogFile - Sqlcmd: Error: Microsoft SQL Server Native Client 11.0 :
   Login timeout expired.
   ```

   ```
   AppendFileToLogFile - Sqlcmd: Error: Microsoft SQL Server Native Client 11.0 :
   A network-related or instance-specific error has occurred while establishing a
   connection to SQL Server. Server is not found or not accessible. Check if
   instance name is correct and if SQL Server is configured to allow remote
   connections. For more information see SQL Server Books Online.
   ```

   Make sure that the default SQL Server Port, **1433**, is open for Inbound and Outbound traffic through your firewall. Also, make sure that Network Discovery and File Sharing options are switched on.

Enable JDBC Distributed Transactions

Complete the configuration and setup instructions based on your implementation:

- If the installer is executed on the database server and all user(s)/schema(s) (TRANSACTION, SYSTEM (Meta), ADMIN, TE TRANSACTION, and PL TRANSACTION) were created on a single instance, you are not required to perform any additional steps to enable distributed transactions. All required steps were performed during Costpoint Database Tier installation. This is the most common and simple implementation for most clients. You can proceed to the application tier installation.

- If the installer is executed on the database server with database(s)/user(s)/schema(s) configured across different instances within the same server, the following set of actions must be performed for each instance where Costpoint schema(s)/database(s) are configured. Complete the steps in the next section, "How to Enable JDBC Distributed Transactions and XA Using Costpoint Installer for an Instance."

- If the installer is executed from an alternative database server or from a client connectivity tools desktop with the actual databases residing remotely on a database server, complete the steps in the next section "How to Enable JDBC Distributed Transactions and XA Using Costpoint Installer for an Instance."

- If Costpoint is set up across different database servers and instances with each database remotely configured for TRANSACTION, SYSTEM (Meta), ADMIN, TE TRANSACTION, and PL TRANSACTION, complete the steps in the "How to Enable JDBC Distributed Transaction and XA for Remote Database Servers" section.

- If Costpoint is set up using SQL Cluster configuration, complete the steps in the "How to Enable JDBC Distributed Transaction and XA for SQL Cluster Configuration" section.

How to Enable JDBC Distributed Transactions and XA Using Costpoint Installer for an Instance

To enable JDBC and XA using Costpoint Installer:

1. Create a backup of your Microsoft SQL Server master database.

2. Copy the DeltekCostpoint82DatabaseTier.exe installation file to this database server where Costpoint databases are created.

3. Run the **DeltekCostpoint82DatabaseTier_Buildxx.exe /enableXA** command to launch the Costpoint Database Tier enable XA program.

4. On the Microsoft SQL Server for Deltek Costpoint 8.2 Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 DELTEKCP/DELTEKSYS/DELTEKADM/DELTEKTE/DELTEKPL database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _**

Field Name	Action
	The value entered in the **IP Address** or **Hostname** field cannot be **127.0.1.0.1** or **localhost**. For SQL Cluster installations, you must specify the SQL Cluster Hostname.
Port	Enter the port that your Costpoint 8.2 database server software uses to listen for requests. The default port for Microsoft SQL Server is **1433**.
Instance Name	Enter the name of your Costpoint 8.2 database instance used during new install setup. The default value is **LOCAL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _** If a user with "sysadmin" privileges is available, that user can alternatively be used.
SA Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

5. Click **Test Connection**.

   If you have entered the proper database connection information, the following message displays:

   "Connection Successful. Click Next."

   If this message does not display, correct the information entered, and click **Test Connection** again.

6. After receiving the confirmation message, click **Next >** to begin the installation process.

   The Restarting the Distributed Transaction Coordinator (MSDTC) Service window will display as part of the installation process.

   If any errors occur during this step, please call Deltek Costpoint Technical Support.

7. Click **OK** when the following message displays: "Successfully configured XA transactions."

> **Note:** If your Costpoint 8.2 TRANSACTION, SYSTEM, ADMIN, TE TRANSACTION, and PL TRANSACTION databases reside on different servers, you must perform all the actions in this step against each of the other servers.

Deltek

How to Enable JDBC Distributed Transaction and XA for Remote Database Servers

If your Costpoint TRANSACTION, SYSTEM, ADMIN, TE TRANSACTION, and PL TRANSACTION databases reside on different database servers, you must perform this step in each of the servers.

An example for this configuration is shown below:

DBServer A (Instance LOCAL)

   DELTEKCP (Transaction DB)

   CPADMIN (Admin DB)

DBServer B (Instance LOCAL)

   CPSYSTEM (Meta DB)
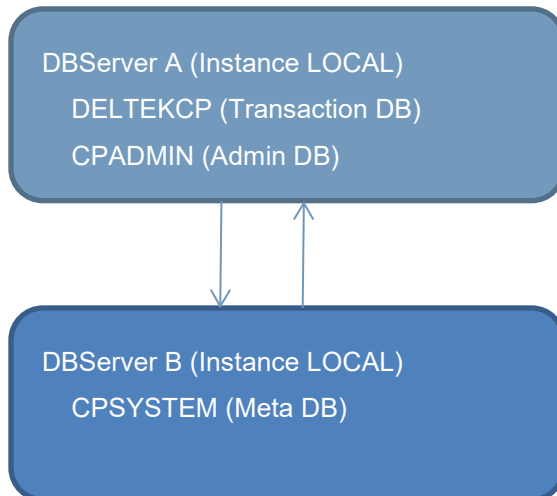
Based on the configuration above, you should complete all steps documented to enable distributed transaction on both Server A and Server B.

To enable JDBC and XA for remote database servers:

1. Perform this step for the database instance using the instructions on How to Enable JDBC Distributed Transactions and XA Using Costpoint Installer for an Instance.

   The sequence of steps to open Component Services on your server might be different based on your Windows OS version.

2. On the left navigator tree, click **Component Services » Computers » My Computer » Distributed Transaction Coordinator**.

3. Right-click **Local DTC** and click **Properties** on the shortcut menu.

4. Click the Security tab.

5. Perform the following:

   - Under **Security Settings**, select **Network DTC Access**.

   - Under **Client and Administration**, select **Allow Remote Clients**.

   - Under **Transaction Manager Communication**, select **Allow Inbound and Allow Outbound**.

   - Select the **No Authentication Required** option.

   - Select **XA Transactions.**

6. Click **Apply**.

   The following message displays:

   "The MSDTC Service will be stopped and restarted. All dependent services will be stopped. Applications using MSDTC may need to be restarted to use the new settings."

7. Click **Yes**.

   The following message displays: "The MSDTC service has been restarted."

8. Click **OK**.

   Your screen should look similar to the following.
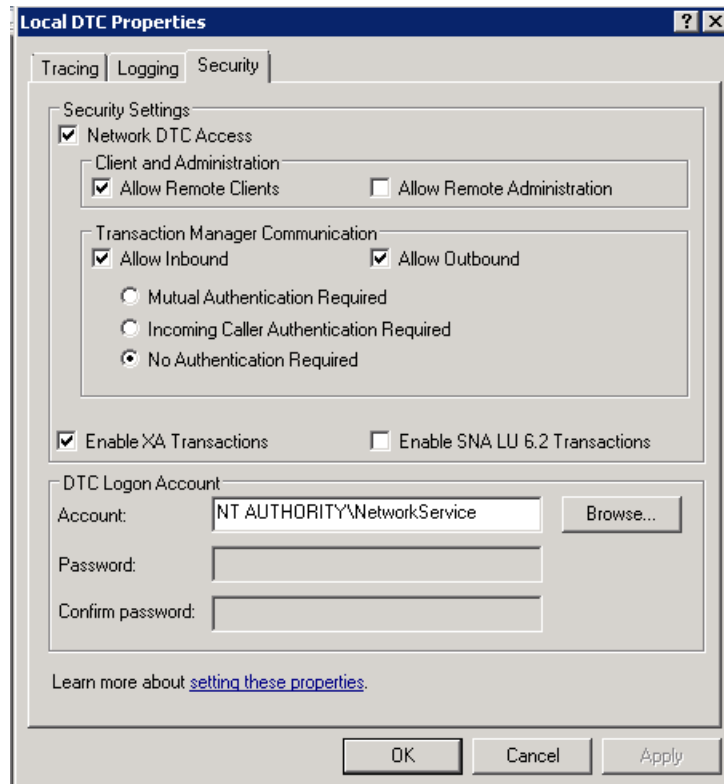
> **Note:** For DTC to function correctly, each of the hosts participating should be resolvable by NetBIOS name and each remote host should be reachable by name. This function will not work if the host server is configured only by IP address (as in many VM test deployments). In such cases, either have your host added to the IP/hostname mappings in your "c:\Windows\System32\drivers\etc\hosts" file or if in a domain, add DNS aliases.

9. If your database server is configured for Windows Firewall, for DTC to function, follow the necessary firewall settings for MSDTC program.

   a. Click **Start » Control Panel**.

   b. In the search box, enter **firewall**, and click **Windows Firewall**.

   c. In the left pane, click **Allow a program or feature through Windows Firewall**.

   d. Click **Change settings**.

e. If you are prompted for an administrator password or confirmation, enter the password or provide confirmation.

f. Select the checkbox next to **Distributed Transaction Coordinator** for both **Private** and **Public**, and click **OK**.

A sample selection of firewall setting for DTC program is shown below:
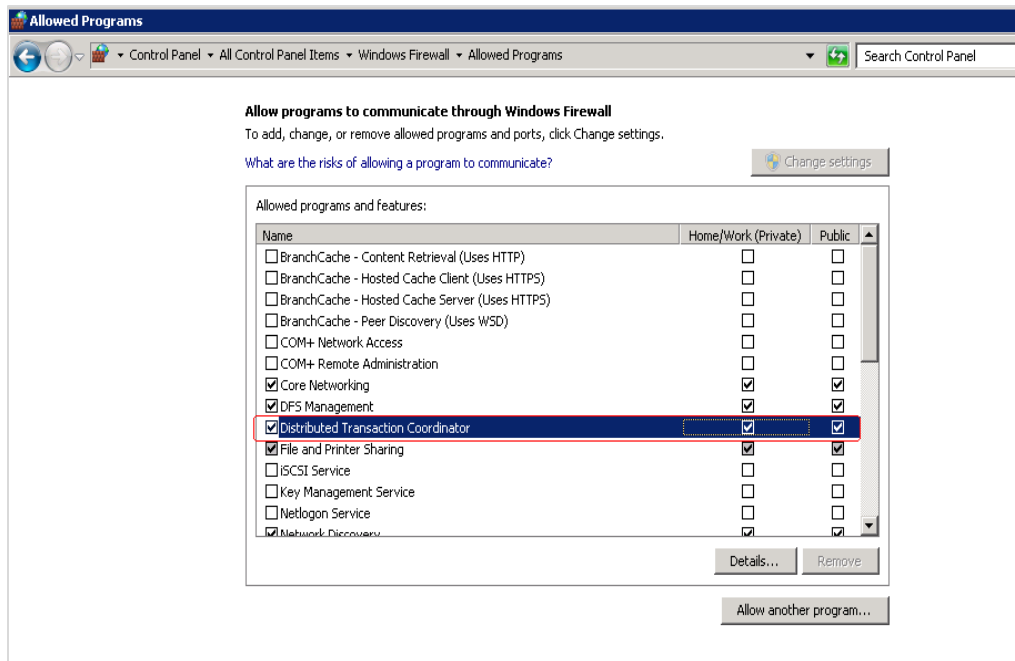
10. Reboot the server.

11. Repeat steps 1 through 4 for each of the servers.

In the sample configuration, these steps would be repeated for "DBServer A" and "DBServer B."

12. Proceed to the Application Tier Installation section.

How to Enable JDBC Distributed Transaction and XA for SQL Cluster Configuration

If your Costpoint TRANSACTION, SYSTEM, ADMIN, TE TRANSACTION, and PL TRANSACTION databases reside on a SQL Cluster configuration, complete following the instructions.

To enable JDBC and XA for SQL Cluster configuration:

1. Perform this step on the database cluster instance on each node, using the instructions provided in the section How to Enable JDBC Distributed Transactions and XA Using Costpoint Installer for an Instance.

The sequence of steps to open Component Services on your server might be different based on your Windows OS version.

2. On the left navigator tree, click **Component Services » Computers » My Computer » Distributed Transaction Coordinator » Clustered DTCs**.

> **Note:** If you do not see the **Clustered DTCs** section, you may need to move the DTC Service to this node to make this visible. Please reopen Component Services after moving the DTC service to this node.
>
> While the product may be functional by setting these properties on the active node during initial installation, it is important that all these steps are done in all nodes so that when the SQL Cluster services failover to alternate available nodes, the DTC function performs distributed transactions for proper application behavior.

3. Right-click your configured Distributed Transaction Coordinator Service Name (for example, DELTEKCPDTC), and click **Properties** on the shortcut menu.

4. On the Security tab, select **XA Transactions**.

5. Click **Apply**.

    The following message displays:

    "The MSDTC Service will be stopped and restarted. All dependent services will be stopped. Applications using MSDTC may need to be restarted to use the new settings."

6. Click **Yes**.

    The following message displays: "The MSDTC service has been restarted."

7. Reboot the server.

8. Repeat for each node participating in the cluster and proceed to the Application Tier Installation section.

Application Tier Installation

The Costpoint 8.2 system uses Oracle's WebLogic Server for its application server tier. During the Application Tier installation process, you will install the WebLogic Server 14.1.1 application server software and the Costpoint 8.2 software. The Costpoint 8.2 WebLogic application server must not contain any previous versions of WebLogic.

Before You Start

Make sure that you meet all Application Tier Installation Prerequisites.

Install Application Tier Software

This section provides instructions for installing Oracle's WebLogic Server 14.1.1 application server software and Deltek Costpoint 8.2 software. You must perform these steps on the machine that will serve as your Costpoint 8.2 **application** server.

You must have Internet access on the machine where the Costpoint 8.2 installer is invoked in order to download the latest DeltekCostpoint82RequirementsINI.exe file automatically. The file contains the latest OS platforms and database versions supported. If the server has Internet access, the file is automatically downloaded when you launch the Application Tier installation.

> **Note:** The Deltek product installers contain functionality which enables them to dynamically download configuration files and patch rollback scripts when the product installers are executed from the Deltek Software Manager server. To improve security, these connections have been modified to require communication over HTTPS.

If your application server does not have internet access, you need to perform the steps in the Latest Installer Files Download Instructions section of this document before you run the DeltekCostpoint82ApplicationTier_Buildxx.exe file.

To install the Application Tier software:

1. Run the **DeltekCostpoint82ApplicationTier_Buildxx.exe** file to launch the Costpoint 8.2 Application Tier installation program.

   > **Note:** Due to enhanced security in Microsoft Windows Server, it is advised that you use the **Run as Administrator** option when launching installation files, even if you are logged in as a user with local administrative rights.

2. On the Welcome to the InstallShield Wizard for Deltek Costpoint Application screen, click **Next >**.

3. On the Setup Type screen, complete the following fields, and click **Next >**.

Field Name	Action
Primary Application Server Tier	Select this setup type to install both the Oracle WebLogic and Deltek Costpoint Application Tier software. This option must be selected if you are installing Costpoint in a non-clustered environment or if this will be your Primary Application Server Tier in a clustered environment.

Field Name	Action
	Additional changes are required to configure a clustered environment.
Secondary Application Server Tier	Select this setup type to install only the Oracle WebLogic software. The Deltek Costpoint Application Tier software will not be installed.
	This option must only be selected when configuring a clustered environment after your Primary Application Server Tier has already been installed.

4. On the Feature Selection screen, complete the following fields, and click **Next >**.

Field Name	Action
Costpoint	This feature is automatically selected for you. All variations still require Costpoint schema information to be entered.
Time & Expense	Select this feature if you have purchased Time & Expense.
Planning	Select this feature if you have purchased Planning.

5. On the Oracle WebLogic Installation Directory screen, click **Browse…** to navigate to an installation location for the Oracle WebLogic software, and click **Next >**.

   The default is **C:\Oracle\Middleware14.1.1** (recommended). Do not install the WebLogic Server software in a directory path or folder that contains a space. The Costpoint 8.2 software will not function properly if the WebLogic Server software is installed to a directory path or folder that contains a space.

6. If you select **Secondary Application Server Tier** for the **Setup Type**, the Pre-Installation Summary screen displays, so proceed to step 29 of this procedure.

7. On the Choose Deltek Costpoint Application Installation Directory screen, navigate to the location where you want the Costpoint 8.2 software installed, and click **Next >**.

   The default directory is **C:\Deltek** (recommended).

   The directory in which you install the Costpoint 8.2 software cannot be the Oracle WebLogic install directory (C:\Oracle\Middleware14.1.1).

   > **Note:** If you choose to install to a different drive, Deltek strongly recommends that you use the same **Deltek** default directory (**E:\Deltek**).

8. On the Deltek Costpoint Application License screen, click the **Browse…** button, navigate to the folder containing your Costpoint, Time & Expense, and Planning license(s), select all applicable licenses, click **Open**, and then click **Next >**.

   Example license files:

   Deltek_CP_8_License CP.zip, Deltek_CP_8_License TE.zip, Deltek_CP_8_License PL.zip

9. On the Select the Database Type screen, select **Microsoft SQL Server**, and click **Next >**.

10. On the Costpoint SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 Transaction (DELTEKCP) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
Instance Name	Enter the name of your Costpoint 8.2 Transaction (DELTEKCP) database instance. The default value is **local**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the port that your Costpoint 8.2 Transaction database server software uses to listen for requests. The default port for SQL Server is **1433**.
Transaction Database Name	Enter the name of your Costpoint 8.2 Transaction (DELTEKCP) database. The default value is **DELTEKCP**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your CPTRAN user. The default is **CPTRAN**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your CPTRAN user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported:

Field Name	Action
	' ~ # $ ^ & ( ) - _ + = , .

11. Click **Test Connection**.

    If you have entered the proper database connection information, the following message displays: "Connection Successful. Click Next."

    If it this message does not display, correct the information, and click **Test Connection** again.

12. After you receive the message, click **Next >**.

13. On the Costpoint SQL Server ADMIN Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 Admin (DELTEKADM) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
Instance Name	Enter the name of your Costpoint 8.2 Admin (DELTEKADM) database instance. The default value is **local**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the port that your Costpoint 8.2 Admin database server software uses to listen for requests. The default port for SQL Server is **1433**.
Admin Database Name	Enter the name of your Costpoint 8.2 Admin (DELTEKADM) database. The default value is **DELTEKADM**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Admin Database User	Enter the name of your CPADMIN user. The default is **CPADMIN**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Admin Database User Password	Enter the password for your CPADMIN user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

Field Name	Action
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

14. Click **Test Connection**.

   If you have entered the proper database connection information, the following message displays: "Connection Successful. Click Next."

   If it this message does not display, correct the information entered, and click **Test Connection** again.

15. After you receive the message, click **Next >**.

16. On the Costpoint SQL Server SYSTEM Database Information screen, complete the following fields:

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Costpoint 8.2 System (DELTEKSYS) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
Instance Name	Enter the name of your Costpoint 8.2 System (DELTEKSYS) database instance. The default value is **local**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the port that your Costpoint 8.2 System database server software uses to listen for requests. The default port for SQL Server is **1433**.
System Database Name	Enter the name of your Costpoint 8.2 System (DELTEKSYS) database. The default value is **DELTEKSYS**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**

Field Name	Action
System Database User	Enter the name your CPSYSTEM user. The default user is **CPSYSTEM**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
System Database User Password	Enter the password for your CPSYSTEM user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

17. Click **Test Connection**.

    If you have entered the proper database connection information, the following message displays: "Connection Successful. Click Next."

    If it this message does not display, correct the information entered, and click **Test Connection** again.

18. After you receive the message, click **Next >**.

19. On the Time & Expense SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Time & Expense 8.2 Transaction (DELTEKTE) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported: **- _** The IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
Instance Name	Enter the name of your Time & Expense 8.2 Transaction (DELTEKTE) database instance. The default value is **local**. In addition to standard alphanumeric characters, the following special characters are also supported:

Field Name	Action
	$ _
Port	Enter the port that your Time & Expense 8.2 Transaction database server software uses to listen for requests. The default port for SQL Server is **1433**.
Transaction Database Name	Enter the name of your Time & Expense 8.2 Transaction (DELTEKTE) database. The default value is **DELTEKTE**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your TETRAN user. The default is **TETRAN**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your TETRAN user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

20. Click **Test Connection**.

If you have entered the proper database connection information, the following message displays: "Connection Successful. Click Next."

If it this message does not display, correct the information entered, and click **Test Connection** again.

21. After you receive the message, click **Next >**.

22. On the Planning SQL Server TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (for example, **10.2.2.154**) or hostname (for example, **dbsvr01**) of your Planning 8.2 Transaction (DELTEKPL) database server. The default value is your computer name. In addition

Field Name	Action
	to standard alphanumeric characters, the following special characters are also supported: **- _** The IP Address or Hostname cannot be **127.0.1.0.1** or **localhost**. For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
Instance Name	Enter the name of your Planning 8.2 Transaction (DELTEKPL) database instance. The default value is **local**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Port	Enter the port that your Planning 8.2 Transaction database server software uses to listen for requests. The default port for SQL Server is **1433**.
Transaction Database Name	Enter the name of your Planning 8.2 Transaction (DELTEKPL) database. The default value is **DELTEKPL**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User	Enter the name of your PLTRAN user. The default is **PLTRAN**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Transaction Database User Password	Enter the password for your PLTRAN user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**
MSSQL SA User	Enter the name of your Microsoft SQL Server SA user. The default is **sa**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
MSSQL SA User Password	Enter the password for your Microsoft SQL Server SA user. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

23. Click **Test Connection**.

If you have entered the proper database connection information, the following message displays: "Connection Successful. Click Next."

If it this message does not display, correct the information entered, and click **Test Connection** again.

24. After you receive the message, click **Next >**.

25. On the Link User Information screen, complete the following fields:

Field Name	Action
Link User Name	Enter the name your LINK user account. The default user is **CPLINK_USER**. In addition to standard alphanumeric characters, the following special characters are also supported: **$ _**
Link User Password	Enter the password for your LINK user account. In addition to standard alphanumeric characters, the following special characters are also supported: **' ~ # $ ^ & ( ) - _ + = , .**

26. Click **Test Connection**.

If you have entered the proper database connection information, the following message displays:

"Connection Successful. Click Next."

If it this message does not display, correct the information entered, and click **Test Connection** again.

27. After receiving the message, click **Next >**.

28. On the Deltek Costpoint Application System Information screen displays, complete the following fields, and click **Next >**.

Field Name	Action
System Name	Enter the system name that will be used to log on to the Costpoint 8.2 system. Deltek recommends that you use your Costpoint 8.2 database name, DELTEKCP. The characters used for the system name must be uppercase and alphanumeric. It must not contain any special characters and must be 16 characters or less in length.
Listen Port	Enter the port that your Application Server will use to listen for connections. The default value is **7009**.

29. On the Pre-Installation Summary screen, review the installation parameters you have selected:

- If you want to change any settings, click **< Back** to go back and make the necessary changes.

- If you are satisfied with these settings, click **Install >** to begin the installation.

Once initiated, the installation process can take a long time to complete. Please do not interrupt the process. A Windows Command Prompt will also appear on your screen that displays the scripts that are being executed.

The installation will perform the scenarios detailed in the [Installation Process for Costpoint 8.2](#), Application Tier Installation section of this document. The installation process will stop if any errors are encountered. If any errors occur during the installation, please contact Deltek Technical Support.

30. Upon completion, the Deltek Costpoint Application Install Summary Results screen displays the results of the installation process.

   For each Feature you selected to install, you should see a SUCCESS message.

   Any FAILED messages or Errors indicated should be further researched in the applicable detailed log file(s) and reported to Deltek Costpoint Technical Support.

31. Click **Next >**.

32. On the InstallShield Wizard Complete screen, complete the following fields.

Field Name	Action
Launch the installer summary file	Select this checkbox to review the summary log file. This displays the same data from previous screen.
Launch the installer log file	Select this checkbox to review the Deltek Costpoint Application installer log file.

33. Click **Finish** to exit the installation.

   Please review all log files for any Errors or reported issues. Although to help identify any issues, all Errors will be in the AppTier_Install_ErrorSummaryResults.log, from the C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer folder.

   Make sure that your default Application Server Listener Port (**7009**) is open for Inbound and Outbound traffic through your firewall. Also, make sure that Network discovery and File Sharing options are switched on.

> **Note:** If you are running a WebLogic cluster, you must repeat this step for all of your WebLogic servers.
>
> Run the step once on your Cluster master and choose **Primary Application Server Tier** for the **Costpoint Tier Type**. Then, on <u>each</u> of your cluster nodes, choose **Secondary Application Server Tier** for the **Costpoint Tier Type**.
>
> Please refer to the **DeltekCostpoint82ConfigurationUtility.pdf** technical guide for more information on WebLogic clustering.

Add Users to the CostpointToolsGroup

This section provides the steps you complete to add the necessary users to the newly created User Group, **CostpointToolsGroup**.

The Application Tier installation that you just completed added this group to your application server, granting it the following:

- **Full Sharing** and **Full Security Permissions** to the C:**Deltek** folder
- **Full Security Permissions** to the C:**Oracle\Middleware14.1.1** folder

You must perform this procedure on your Costpoint 8.2 application server.

To add users to the newly created CostpointToolsGroup:

1. Open **Computer Management**.

2. From **Computer Management » Local Users and Groups » Groups**, add the following users to the **CostpointToolsGroup** group:

   - **Web Tier (IIS) install user**: The user that will run the Web Tier install will need to be in this group prior to running that install in the next section.

   - **Application Tier (Costpoint) Windows Service account**: The user that you will use to start and run the Costpoint Windows Service.

   - **Application Tier (Costpoint) Tools user**: The user that you will use to log in to the application server to run any of the Costpoint tools, such as the Config Utility, Migrate User Utility, or DBWizard.

3. Reboot your Costpoint 8.2 application server.

Before You Start

Before starting this procedure, make sure that you meet all [Costpoint 8.2 Server Startup Prerequisites](#).

Manually Start Costpoint 8.2

This section provides the steps that you complete to start Costpoint 8.2. You must start the Costpoint 8.2 WebLogic Server on your application server to gain access to the Costpoint 8.2 system.

You must perform this procedure on your Costpoint 8.2 application server.

To start Costpoint 8.2:

1. Right-click **Start**, select **Search**.

2. Enter "Costpoint 8.2", and open file location for **Start Costpoint 8.2**.

3. Right-click **Start Costpoint 8.2** and click **Run as Administrator** on the shortcut menu.

   > **Note:** Due to enhanced security in Windows Server, it is advised that you use the **Run as Administrator** option when launching this command even if the logged in user has local administrative rights.

   This opens a Windows Command Prompt and launches a command script that starts the Costpoint 8.2 WebLogic Server. When the Windows Command Prompt window opens, you will see a series of messages scrolling down the screen.

   Starting the Costpoint 8.2 WebLogic Server can take a long time to complete. Please do not interrupt the process.

4. After the Costpoint 8.2 WebLogic Server has successfully started, the following message displays at the bottom of the command line shell window:

   <The server started in RUNNING mode.>

   If the Costpoint 8.2 WebLogic Server encounters errors during the startup process, the message will not be displayed, and the command line shell (DOS window) may terminate.

If the message does not display or if the command line shell (DOS window) terminates, you must perform the following:

- Make a copy of the C:\Deltek\Costpoint\82\logs\DEServer.log file.
- Contact Deltek Costpoint Technical Support.

Install the Costpoint 8.2 Windows Service

This section provides the steps for installing the Costpoint 8.2 Windows service.

This procedure must be performed on your Costpoint 8.2 **WebLogic application** server.

To install Costpoint 8.2 to run as a Windows service:

1. Stop the Costpoint 8.2 WebLogic Server.

   > **Attention:** See the Stop Costpoint 8.2 WebLogic Server from the Web Browser section for information on starting and stopping the Costpoint 8.2 WebLogic Server.

2. Use Windows Explorer to navigate to the directory where the Costpoint 8.2 software was installed (**C:\Deltek\Costpoint\82\bin**), right-click **InstallCPWebasService.cmd**, and select **Run as administrator**.

Configure the Costpoint 8.2 Windows Service

This section provides the steps for configuring the Costpoint 8.2 Windows service.

This procedure must be performed on your Costpoint 8.2 WebLogic **application** server.

To configure Costpoint 8.2 Windows service:

1. Click **Start » Administrative Tools » Services**.

2. On the Services window, scroll down the **Services** drop-down list, right-click the **Costpoint 8.2** service, and then click **Properties** on the shortcut menu.

   If you cannot find the **Costpoint 8.2** service, the service must not have installed properly in the previous step. Please repeat Step 1 of Install the Costpoint 8.2 Windows Service.

3. On the Costpoint 8.2 Properties screen, click the Recovery tab, and complete the following.

Field Name	Action
First failure	Change the drop-down selection from **Take No Action** to **Restart the Service**.
Second failure	Accept the default value, **Take No Action**.
Subsequent failures	Accept the default value, **Take No Action**.
Reset fail count after	Change the value from **0** to **1** days.

Field Name	Action
Restart service after	Accept the default value, **1** minute.

4. Click **Apply**.

5. On the Costpoint 8.2 Properties screen, click the Log On tab, and complete the following.

Field Name	Action
Account	Enter the domain Account (for example, domain\useraccountname). If using a domain service login account instead of the "Local System Account," select **This Account**.
Password	Enter the password for the domain Account.
Confirm Password	Re-enter your password for the domain Account.

6. Click **Apply**.

Make sure that the login account for the Costpoint Service is in the local Administrators group on the Application Tier server and is part of the local security group created by the Application Tier installer, CostpointToolsGroup.

Also, keep in mind that this login account must be given full access permissions for any Alternate File locations setup (network shared directories). Alternate File locations are used for Costpoint users for uploading and downloading files from within Costpoint.

7. On the Costpoint 8.2 Properties screen, click the General tab, and click **Start** to start the Costpoint 8.2 service.

The service will indicate that it started immediately. However, please note that it takes several minutes for the Costpoint 8.2 service to fully initialize.

After starting the service, wait several minutes before attempting to connect to the software.

If you encounter problems with the Costpoint 8.2 service, check the C:\Deltek\Costpoint\82\logs\DEServer.log file and report any errors to Deltek Costpoint Technical Support.

8. Click **OK** to close the Costpoint 8.2 Properties screen, and close the Services window.

Web Tier Installation

The steps to integrate your Costpoint 8.2 software with the Microsoft Internet Information Server (IIS) are detailed in this section.

The Microsoft Internet Information Server component is **optional**. The WebLogic Server software includes an integrated web server component that you can use with the Costpoint 8.2 software.

Although the use of the IIS component is optional, Deltek strongly recommends that you install it in your production environment. In addition to acting as the proxy, the IIS server is also used to load balance the cluster nodes.

Before You Start

Make sure that you meet all Web Tier Installation/Microsoft Internet Information Server (IIS) Configuration Prerequisites.

Install Microsoft IIS Web Server for Costpoint 8.2 using PowerShell (Admin)

This section provides the steps that you need complete to configure Microsoft IIS prior to the installation of Costpoint 8.2 using PowerShell (Admin).

> **Note:** To manually configure using Server Manager, skip this procedure and proceed to the next procedure.

You must perform this procedure on a web server that uses Microsoft Internet Information Server.

To install IIS features:

1. Open Windows PowerShell (Admin).

2. Run this command to install features:

   ```
   Install-WindowsFeature -Name Web-Server,Web-ISAPI-Ext,Web-Mgmt-Compat,Web-
   Metabase,Web-Scripting-Tools -IncludeManagementTools
   ```

3. Run this command to verify installed features:

   ```
   get-WindowsFeature -name Web-*
   ```

Install Microsoft IIS Web Server for Costpoint 8.2 using Server Manager

This section provides the steps to manually configure Microsoft IIS prior to the installation of Costpoint 8.2 using Server Manager.

> **Note:** If you installed the required features in the previous procedure using PowerShell (Admin), you can skip this section.

You must perform this procedure on a web server that uses Microsoft Internet Information Server.

To configure Microsoft IIS Web server:

1. Click **Start » Programs and Features**.

2. Click the Turn Windows features on or off link.

3. On the Server Manager screen, select **Add Roles and Features**.

4. On the Before you begin screen, click **Next >**.

5. On the Select installation type screen, accept the default of **Role-based or feature-based installation**, and click **Next >**.

6. On the Select destination server, accept the default of **Select a server from the server pool**, which should have automatically selected the IIS server you are on, and click **Next >**.

7. On the Select server roles screen, scroll down and select **Web Server (IIS)**.

8. On the Add features that are required for Web Server (IIS) screen, click **Add Features**.

9. On the Select server roles screen, click **Next >**.

10. On the Select features screen, click **Next >**.

11. On the Web Server Role (IIS) screen, click **Next >**.

12. On the Select role services screen, perform the following:

    a. Scroll down, expand **Application Development**, and select **ISAPI Extensions**.

    b. Scroll down, under **Management Tools**, expand **IIS 6 Management Compatibility**, and select **IIS 6 Metabase Compatibility**.

    c. Scroll down and select **IIS Management Scripts and Tools**.

    d. Click **Next >**.

13. On the Confirm installation selections screen, click **Install**.

14. After the installation is complete, click **Close**.

15. From the upper right of Server Manager, click **Tools**, and select **Internet Information Services (IIS) Manager**.

16. On the Internet Information Services (IIS) Manager screen, right-click your IIS computer name icon, and click **Stop**.

17. Right-click your IIS computer name icon again, and click **Start**.

18. Close the Internet Information Services (IIS) Manager window.

19. Close the Services Manager window.

20. Close the Control Panel window.

Install Web Tier Software

The steps to integrate the Costpoint 8.2 system with Microsoft IIS are detailed in this section.

You must perform this step on a web server that is using Microsoft Internet Information Server.

You must have Internet access on the machine where the Costpoint 8.2 installer is invoked in order to download the latest DeltekCostpoint82RequirementsINI.exe file automatically. The file contains the latest OS platforms and database versions supported. If your web server has Internet access, the file is automatically downloaded when you launch the Web Tier installation.

> **Note:** The Deltek product installers contain functionality which enables them to dynamically download configuration files and patch rollback scripts when the product installers are executed from the Deltek Software Manager server. To improve security, these connections have been modified to require communication over HTTPS.

If your application server does not have Internet access, you need to perform the steps in the [Latest Installer Files Download Instructions](#) section of this document before you run the DeltekCostpoint82WebTier.exe file.

To install Costpoint 8.2 on your Microsoft IIS Web server:

1. Run the **DeltekCostpoint82WebTier_Buildxx.exe** file to launch the Costpoint 8.2 Web Tier installation program.

   > **Note:** Due to enhanced security in Windows Server, it is advised that you use the **Run as Administrator** option when launching the executable files even if the logged in user has local administrative rights.

2. On the Welcome to the InstallShield Wizard for Deltek Costpoint Web screen, click **Next >**.

3. On the Choose Destination Location screen, click **Browse** to navigate to an installation location for the Deltek Costpoint 8.2 IIS software.

   The default is **C:\Deltek\Costpoint\82\applications** (recommended).

   The installation process populates the folder selected above with a \DEWebApp folder that contains all the program files you need to integrate the Costpoint 8.2 software that resides on your application server with your Microsoft IIS Web server.

4. Click **Next >**.

5. On the Costpoint WebLogic System Information screen, complete the following fields.

Field Name	Action
IP Address or Hostname	Enter the IP address (**10.2.2.154**) or hostname (**appsvr01**) of your Costpoint 8.2 WebLogic application server. The IP Address or Hostname must not be **127.0.1.0.1** or **localhost**.
Listen Port	Enter the Listener Port for your Costpoint 8.2 WebLogic application server. You specified this port during the Costpoint 8.2 application server software installation. The default port is **7009** (recommended). Your Microsoft IIS Web server will use the IP address or hostname and Listener Port information to forward requests to your Costpoint 8.2 WebLogic application server. This port must match the one entered during the Costpoint 8.2 Application Server installation.

6. Click **Next >**.

7. On the Deltek Costpoint Web Tier IIS Website screen, locate the **Website Name** field and select the website where you want to create the Deltek Costpoint 8.2 Virtual Directory (**CPWeb**).

   Typically, this is the **Default Web Site**.

8. Click **Next >**.

9. On the Pre-Installation Summary screen, review the installation parameters you have selected:

   ▪ If you want to change any settings, click **< Back** to go back and make the necessary changes.

   ▪ If you are satisfied with these settings, click **Install >** to begin the installation.

   Once initiated, the installation process can take a long time to complete. Please do not interrupt the process.

   The installation performs the scenarios detailed in the Installation "Process for Costpoint 8.2, Web Tier Installation" section of this document.

   The installation process creates the **CPWeb** Virtual Directory under the Default Website, using the Default App Pool. The process also creates a share of your Costpoint 8.2 Costpoint directory, C:\Deltek\Costpoint\82\applications. In order for the Application Server (WebLogic) to deploy hot fixes and updates, this directory must be shared with Co-Owner (Full Control) rights.

   During the installation process, a new User Group, **CostpointToolsGroup**, is created and given Full Sharing and Security rights on C:\Deltek\Costpoint\82\applications.

10. Upon completion, the Deltek Costpoint Web – Installation Summary Results screen displays the results of the installation process.

    For each step executed, you should see a SUCCESS message.

    Any FAILED messages or Errors indicated should be further researched in the applicable detailed log file(s) and reported to Deltek Costpoint Technical Support.

11. Click **Next >**.

12. On the InstallShield Wizard Complete screen, complete the following fields.

Field Name	Action
Launch the installer summary file	Select this checkbox to review the summary log file. This displays the same data from the previous screen.
Launch the installer log file	Select this checkbox to review the Deltek Costpoint Application installer log file.

13. Click **Finish** to exit the installation.

    Please review all log files for any Errors or reported issues. Although to help identify any issues, all Errors will be in the AppTier_Install_ErrorSummaryResults.log, from the C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer folder.

    The following errors can be ignored when installing WebTier on the same box as your AppTier.

    ADSCreateLocalGroup Error: System.Runtime.InteropServices.COMException (0x82070563): The specified local group already exists.

    ADSCreateLocalGroup Error: The account already exists. Returning True

    Please refer to the Post Installation Web Tier Installer Log Files section for more information on the logs folder structure and contents.

    Make sure that Network Discovery and File Sharing options are switched on.

> **Note:** If you are running an IIS web cluster, you must repeat this step for all of your IIS web servers.

Add Users to the CostpointToolsGroup

The steps to add the necessary users to the newly created **CostpointToolsGroup** are detailed in this section. The Web Tier installation added this group to your Web server and has granted the group **Full Sharing** and **Full Security Permissions** to the folder containing your DEWebApp folder, **C:\Deltek\Costpoint\82\applications**.

You must perform this step on your Costpoint 8.2 Web server.

To add users to the newly created CostpointToolsGroup:

1. Open **Computer Management**.

2. From **Computer Management**, **Local Users and Groups**, **Groups**, add the following user to the **CostpointToolsGroup** group:

    ▪ **Application Tier (Costpoint) Tools user**: The user that you will use to log in to the application server to run any of the Costpoint tools, such as the Config Utility, Migrate User Utility, or DBWizard.

3. Reboot your Costpoint 8.2 Web server.

Configure Costpoint 8.2 IIS Access

The steps to configure Costpoint 8.2 to work through IIS are detailed in this section.

You must perform this step on your Costpoint 8.2 WebLogic application server.

To configure Costpoint 8.2 and IIS:

1. With your Costpoint 8.2 service running, right-click **Start**, and select **Search**.

2. Enter "Costpoint 8.2," right-click **Start Costpoint 8.2 Config Utility**, and click **Run as Administrator**.

    > **Note:** Due to the enhanced security in Windows Server, it is advised to that you use the **Run as Administrator** option when launching this command even if the logged in user has local administrative rights.

3. On the Select Your Configuration Options screen, make sure the **IIS Connection Configuration** checkbox is selected, and click **Next**.

4. On the Costpoint Configuration Utility screen, click the IIS tab and perform the following for each of your IIS Web Servers:

Field Name	Action
Use IIS #1	Select this checkbox. This option is cleared by default.
Configuration File Location (iispoxy.ini)	Click the ellipsis button and navigate to the \\CPiisServer\Costpoint folder share on your IIS server.
	Select the **DEProxy\lib** folder to access the **iisproxy.ini** file and click **Open**.
	Click **OK** after the following message displays: "Configuration file iisproxy.ini was successfully loaded."

Field Name	Action
DEWebApp Folder Location	Click the ellipsis button and navigate to the shared \\CPiisServer\Costpoint folder on your IIS server.
	Navigate to the folder containing your **DEWebApp** folder (that is, \\CPiisServer\Costpoint\82\applications), and click **Open**.
WebLogic Host IP	Enter your WebLogic application server name.
Port	Enter the WebLogic Listener Port, **7009**.

5. Click **Save**.

    The following message displays:
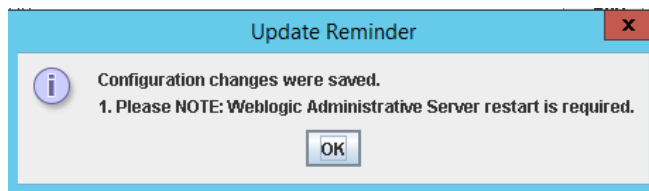
6. Click **OK**, and then click **Close**.

Restart Costpoint 8.2 WebLogic Server

The steps to stop and restart your Costpoint 8.2 WebLogic Server are detailed in this section.

You must perform this step on your Costpoint 8.2 WebLogic application server.

To stop and restart your Costpoint 8.2 WebLogic Server:

1. Click **Start » Administrative Tools » Services**.

2. On the Services window opens, scroll down the **Services** list, and **Stop** the **Costpoint 8.2 service**.

3. After the service stops, **Start** the **Costpoint 8.2 service**.

    > **Note:** The service immediately indicates that it has started. However, please note that it takes several minutes for the Costpoint 8.2 service to fully initialize.
    >
    > After starting the service, wait several minutes before attempting to connect to the software.
    >
    > If you encounter problems with the Costpoint 8.2 service, check the **C:\Deltek\Costpoint\8.2\logs\DEServer.log** file and report any errors to Deltek Costpoint Technical Support.

4. Close the Services window.

Costpoint 8.2 Initial Log In Configuration

The steps to configure your browser and verify your Costpoint 8.2 Application Tier and Web Tier installations are detailed in this section. To confirm that these servers are functioning properly, you will log in to Costpoint 8.2 and preview a report.

Before You Start

Make sure that you meet all Costpoint 8.2 Initial Log In Configuration Prerequisites.

Configure Costpoint 8.2 Printer

This step is optional. It provides configuration instructions for your Application Tier WebLogic Server to allow you to print Costpoint 8.2 reports. This is useful for asynchronous printing from the server, especially for tasks such as printing reports through the Job Server in the middle of the night.

> **Note:** Users can print to local printers from the workstations without configuring anything in this step.

You must perform this step on your Costpoint 8.2 application server.

To create Windows printer objects on your application server:

1. Right-click **Start**, click **Control Panel**.

2. Under **Hardware**, select **View devices and printers**.

3. On the Printers and Faxes screen, double-click **Add Printer**.

4. Use the Add Printer Wizard to create a Windows printer object that will connect and print to a printer on your network.

On your application server, you can create as many Windows printer objects as needed for your organization. After the printer objects are created, your Costpoint 8.2 WebLogic application server will make the printer objects available to your users.

Log In to Costpoint 8.2

The steps to log in to Costpoint 8.2 are detailed in this section.

You can perform this step from any Windows client workstation that has TCP/IP access to your Costpoint 8.2 WebLogic application server.

> **Note:** Depending on your environment, you may need to add your Costpoint 8.2 URL under **Local Internet** instead of **Trusted sites**.
>
> Disable any pop-up blockers or explicitly allow pop-ups for the Costpoint 8.2 URL, such as **http://<IPAddress or ComputerName>**, where **<IPAddress or ComputerName>** identifies your Costpoint 8.2 WebLogic application server or IIS Web server (for example, **http://10.2.2.154**).

To log in to Costpoint 8.2:

1. Open your web browser, and enter one of the following URLs:

   - http://<AppServerIPAddress or ComputerName>:<Port>

- http://<WebServerIPAddress or ComputerName>/cpweb

Where <AppServerIPAddress or ComputerName> identifies your Costpoint 8.2 WebLogic application server and <Port> identifies the unique port number that your Costpoint 8.2 WebLogic application server uses to listen for connections. You specified this port value during the Costpoint 8.2 software installation. The default is 7009 (for example, **http://10.2.2.154:7009**).

Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server (for example, **http://10.2.2.156/cpweb**).

2. When the Deltek Costpoint screen displays, complete the following.

Field Name	Action
Username	Enter **CPSUPERUSER**.
Password	Enter **password**. The password is case-sensitive and must be entered in lowercase. Passwords that you create for other user IDs may be uppercase, lowercase, or mixed.
System	Enter **<Your_System_Name>**, where **<Your_System_Name>** identifies the system name you assigned to your Costpoint 8.2 system during the Application Server Installation. Typically, customers use a system name that is identical to their Costpoint 8.2 Database name, **DELTEKCP**.
ADDITIONAL CRITERIA	Click **+** to display these additional fields: - **Application**: Accept the blank default value or enter a specific Costpoint 8.2 application (for example, **COSTPOINT MENU**). - **Company**: Enter your company ID (for example, **1**). - **Validation Frequency**: Accept the default drop-down value, **Field**. After you have successfully logged in to Costpoint 8.2, review the online help for a detailed explanation of the value you can select for this field. - **Language**: Accept the default drop-down value, **English**, or change to your language.
Remember me	Select this checkbox to have the system remember your login information. This checkbox is not selected by default.

3. Click **Log In**.

4. When the Your password has expired screen displays, complete the following.

Field Name	Action
Current Password	Enter **password**. The password is case-sensitive and must be entered in lowercase.
New Password	Enter a new password for the CPSUPERUSER account. Passwords are case-sensitive and may be uppercase, lowercase, or mixed.
Confirm Password	Re-enter your new password for CPSUPERUSER.

5. Click **Log In**.

6. From the main menu screen, click **Admin » System Administration » Printing » Manage System Printers**.

7. On the Manage System Printers screen, click **New Record** (**+**).

8. Complete the following fields.

Field Name	Action
Printer ID	Click the magnifying glass icon to display all printer objects that are available on your Application Server. Select the appropriate printer object by clicking the checkbox to the left of the printer object name and then clicking **SELECT**.
Printer Name	Enter a descriptive name for the printer object.

9. Select the **Assigned Users/User Groups** link located in the lower-right corner of the System Printers section.

10. When the focus switches to the Assigned Users/User Groups section at the bottom half of your browser window, click **New Record** (**+**), and complete the following fields.

Field Name	Action
User/User Group ID or User/User Group Name	Click the magnifying glass for one of these fields. Select a User/User Group that should have access to the printer object you specified above.
Company	Click the magnifying glass. Select a Company for this User/User Group.

11. Click **SELECT**.

    You must repeat Step 9 for each User/User Group that you want to assign the printer object that you specified earlier.

12. Click **Save**, and then click **OK** when the following message displays: "Record modifications completed without error."

    You must repeat items 6–11 for any printer objects on your Application server that you want to make available to your Costpoint 8.2 system users.

13. Click **File » Log-out** to exit Costpoint 8.2.

14. Close your web browser.

Verify Costpoint 8.2 Printer Configuration

The steps to verify your Costpoint 8.2 printers are detailed in this section.

This step can be performed from any Windows client workstation that has TCP/IP access to your Costpoint 8.2 WebLogic application server.

To verify your Costpoint 8.2 printers:

1. Open your Web browser, and enter one of the following URLs:

   ▪ http://<AppServerIPAddress or ComputerName>:<Port>

- http://<WebServerIPAddress or ComputerName>/cpweb

Where <AppServerIPAddress or ComputerName> identifies your Costpoint 8.2 WebLogic application server and <Port> identifies the unique port number that your Costpoint 8.2 WebLogic application server uses to listen for connections. You specified this port value during the Costpoint 8.2 software installation. The default is 7009 (for example, **http://10.2.2.154:7009**).

Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server (for example, **http://10.2.2.156/cpweb**).

2. On the Deltek Costpoint screen, complete the following fields.

Field Name	Action
Username	Enter **CPSUPERUSER**.
Password	Enter the CPSUPERUSER user password. The default was **password**.
System	Enter **<Your_System_Name>**, where **<Your_System_Name>** identifies the system name you assigned to your Costpoint 8.2 system during the Application Server Installation process. Typically, customers use a system name that is identical to their Costpoint 8.2 Database name, DELTEKCP.
SHOW ADDITIONAL CRITERIA	Click **+** to display these additional fields: - **Application**: Accept the blank default value or enter a specific Costpoint 8.2 application (for example, **COSTPOINT MENU**). - **Company**: Enter your company ID (for example, **1**). - **Validation Frequency**: Accept the default drop-down value, **Field**. After you have successfully logged in to Costpoint 8.2, review the online help for a detailed explanation of the value you can select for this field.
Remember log in information	Select this checkbox to have the system remember your login information. This option is not selected by default.

3. Click **Log In**.

4. From the main menu screen, click **Admin » Security » Security Reports/Inquiries » Print User Group Rights Report**.

5. On the Print User Group Rights Report screen, click **Print Options**.

6. On the Print Options screen, select the **System Printer** or the **Local Printer** Delivery Option, depending on how you set up your Application Server printer, and click **OK**.

7. On the Print User Group Rights Report screen, click **Print Default Report**.

If the User Group Rights Report prints correctly, your Costpoint 8.2 Application Server printer setup is working properly. If the report does not print correctly, please contact Deltek Costpoint Technical Support.

8. Click **File** » **Close Application** to close the Print User Group Rights Report screen.

9. Click **OK** when the following message displays:

"You have unsaved changes. Select Cancel to go back and save changes or select OK to discard changes and close the application"

10. You can now begin to configure and use the Costpoint 8.2 system.

> **Attention:** Please refer to the Related Documentation section for a list of all documentation included with the Costpoint 8.2 release.

Deltek strongly recommends that you change the CPSUPERUSER user's password.

> **Attention:** Please refer to the Change CPSUPERUSER User's Password section for instructions.

Deploy Costpoint as a Progressive Web App

A Progressive Web App (PWA) is a web application which uses a set of latest technologies to incorporate the features which were historically associated with either browser or native applications. As a result, the PWA provides the end user with the best of both worlds.

The Costpoint PWA application provides the same rich set of capabilities regardless of the device. For example, if your company configured SAML or FIDO authentication for desktops, it will work on mobile devices, with no extra steps or additional deployment/configuration necessary. If you developed an Extension, it will work on a desktop, tablet, or phone. If your users access Costpoint from your company Azure portal using SSO, it will equally work on a laptop or phone.

As Costpoint is being constantly enhanced, you can be confident that your company and your users will always have access to the latest features and functionality while using Costpoint PWA, regardless of the device used to access Costpoint.

From an IT perspective, the use of Costpoint PWAs on mobile devices have these additional benefits:

- The instructions to install Costpoint PWA on your device (similar to installing a native app from a store) describe a manual process. However, because it is not required to publish PWA applications to the store, IT can push Costpoint PWA application to your employee devices using standard MDM solutions (for example, MobileIron).

- If your company has an internal company store which employees should use to download applications (for example, using MobileIron store), a PWA application can be published in your company store.

- IT has full control over the version of Costpoint used by users, including the PWA application deployed to user devices. When your company IT or Deltek Cloud deploys any new update to Costpoint, the PWA applications on user devices will refresh automatically and seamlessly, always staying in sync with the version of Costpoint used by your organization.

- There is no need to worry about backward or forward compatibility issues with the version of applications deployed on user devices, and no need to ask or expect users to download an updated version of the application from the company store.

> **Note:** Deploying a PWA application using the procedures outlined below does not only create an icon on your home screen but also generates a real native application container on your device. For example, you can tap the standard **App info** option for the Costpoint icon on an Android device and it will show that the CP icon you just created is a native application, downloaded from Google Play store.

Deploy Costpoint PWA on an Android Device

You can install the Costpoint PWA from the Costpoint Login page or the Chrome browser menu.

To deploy Costpoint PWA via the Costpoint Login page:

1. On your Android device, open the Costpoint Login page in the Chrome browser.
2. Tap **Add to Home screen**.
3. Name the Costpoint PWA, and then click **Add**.

    You can now tap the icon on your Home screen to launch Costpoint as a stand-alone web app.

To deploy Costpoint PWA via the Chrome browser menu:

1. On your Android device, open the Costpoint Login page in the Chrome browser.
2. Tap the menu (three vertical dots) in the upper-right corner.
3. Tap **Add to Home screen**.
4. Tap **Add**.

    You can now tap the icon on your Home screen to launch Costpoint as a stand-alone web app.

Deploy Costpoint PWA on an iPhone or iPad

To deploy Costpoint PWA:

1. On your iPhone or iPad, open the Costpoint Login page in the Safari browser.
2. Tap the **Share** icon.
3. Tap the **Add to Home Screen** icon.
4. Name the Costpoint PWA.
5. Tap **Add** in the upper-right corner.

    You can now tap the icon on your Home screen to launch Costpoint as a stand-alone web app.

Deploy Costpoint PWA on a Desktop

Deploying the Costpoint PWA on your desktop creates a desktop shortcut to the application. When you access Costpoint using the app, more data is visible on your screen. Browser elements, like the address bar, tabs, and other controls, are removed, offering a clearer view of your Costpoint data.

> **Note:** Support for Microsoft Edge is coming soon.

To deploy Costpoint PWA in Google Chrome:

1. Open the Costpoint Login page.
2. Install Costpoint PWA using one of the following three options:
   - In the Address bar, click **+ (Install Costpoint) » Install**.
   - In the browser menu (three vertical dots), click **Install Costpoint » Install**.
   - On the Costpoint Login page, click **Add to Home Screen » Install**.

Maintenance Release Installation

Apply Latest Costpoint 8.2 Maintenance Release (MR)

After you have a functioning Costpoint 8.2 environment, follow the **DeltekCostpoint82MaintenanceReleaseInstallation.pdf** installation document to install the latest Costpoint 8.2 MR.

Post-Installation Configuration

Database Tier Installer Log Files

Database Tier Installation logs are written to the following folder:

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer

Each of these log files are detailed in the table below, but here is a look at the log folder/file structure:

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer

    DBTier_Install.log

    DBTier_Install_ErrorSummaryResults.log

    DBTier_Install_SummaryResults.log

    DatabaseSteps.txt

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_ADMIN

    addDeltekLoginToAdminDB.bat.log

    createDeltekUserInAdminDB.bat.log

    DeltekCreateLinkUser.bat_ADMIN.log

    DeltekCreateLinkUserLogin.bat_ADMIN.log

    MSSQLNewAdminDatabaseSetup82.bat.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_SYSTEM

    addAdminLoginToSystemDB.bat.log

    addDeltekLoginToSystemDB.bat.log

    createAdminUserInSystemDB.bat.log

    createDeltekUserInSystemDB.bat.log

    DeltekCreateLinkUser.bat_SYSTEM.log

    DeltekCreateLinkUserLogin.bat_SYSTEM.log

    MSSQLNewSystemDatabaseSetup82.bat.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_TRANS

    DeltekCreateLinkUser.bat_CP_TRANS.log

    DeltekCreateLinkUserLogin.bat_CP_TRANS.log

    MSSQLNewTransactionDatabaseSetup82.bat.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\PL_TRANS

    DeltekCreateLinkUser.bat.log

    DeltekCreateLinkUserLogin.bat.log

    DeltekCreatePLUserInCPTran.bat.log

    DeltekCreatePLUserInTETran.bat.log

    MSSQLNewPLDatabaseSetup82.bat.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\TE_TRANS

    DeltekCreateLinkUser.bat_TE_TRANS.log

DeltekCreateLinkUserLogin.bat_TE_TRANS.log

DeltekCreateTEUserInCPTran.bat_TE_TRANS.log

MSSQLNewTEDatabaseSetup82.bat.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\XA_TRANS

instjdbc_CPTRAN.log

instjdbc_PL.log

instjdbc_TE.log

MSDTC.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\InstallerLogArchive

Log Name	Description	What to Look For
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer		
DBTier_Install.log	Main DB Tier installation Log File. Shows detailed results of all processes executed in the installer. (Multiple log files for this, older ones from previous DB Tier installer runs stored under InstallerLogArchive folder.)	Date and Build number at the top, Installation Success or failed at the bottom. Installation details, Error or Failed messages in between.
DBTier_Install_SummaryResults.log	Installer Summary description Panel output written to a log file. Contains the results of the installation process. (Multiple log files for this, older ones from previous DB installer runs stored under InstallerLogArchive folder.)	SUCCESS items, FAILED items with error messages, and/or Warning messages.
DBTier_Install_ErrorSummaryResults.log	DB Tier installer error output written to a log file. Contains any ERROR results of the installation process. (Multiple log files for this, older ones from previous DB installer runs stored under InstallerLogArchive folder.)	Any errors during the installation will be written to this file. This will then lead you to the other logs for more detailed description of the errors.
DatabaseSteps.txt		
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_ADMIN		
addDeltekLoginToAdminDB.bat.log	Results of adding CPTRAN user login to DELTEKADM database.	Will show any issues, that it completed successfully, or that the login already exists.

Log Name	Description	What to Look For
createDeltekUserInAdminDB.bat.log	Results of creating CPTRAN user in DELTEKADM database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUser.bat_ADMIN.log	Results of creating CPLINK_USER in DELTEKADM database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUserLogin.bat_ADMIN.log	Results of adding CPLINK_USER user login to DELTEKADM database.	Will show any issues, that it completed successfully, or that the login already exists.
MSSQLNewAdminDatabaseSetup82.bat.log	Detailed results for setting up the DELTEKADM database.	Will show any issues or $DBSUCCESS=TRUE at the end of the log file.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_SYSTEM		
addAdminLoginToSystemDB.bat.log	Results of adding CPADMIN user login to DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.
addDeltekLoginToSystemDB.bat.log	Results of adding CPTRAN user login to DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.
createAdminUserInSystemDB.bat.log	Results of creating CPADMIN user in DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.
createDeltekUserInSystemDB.bat.log	Results of creating CPTRAN user in DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUser.bat_SYSTEM.log	Results of creating CPLINK_USER in DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.

Log Name	Description	What to Look For
DeltekCreateLinkUserLogin.bat_SYSTEM.log	Results of adding CPLINK_USER user login to DELTEKSYS database.	Will show any issues, that it completed successfully, or that the login already exists.
MSSQLNewSystemDatabaseSetup82.bat.log	Detailed results for setting up the DELTEKSYS database.	Will show any issues or $DBSUCCESS=TRUE at the end of the log file.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_TRANS		
DeltekCreateLinkUser.bat_CP_TRANS.log	Results of creating CPLINK_USER in DELTEKCP database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUserLogin.bat_CP_TRANS.log	Results of adding CPLINK_USER user login to DELTEKCP database.	Will show any issues, that it completed successfully, or that the login already exists.
MSSQLNewTransactionDatabaseSetup82.bat.log	Detailed results for setting up the DELTEKCP database.	Will show any issues or $DBSUCCESS=TRUE at the end of the log file.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\PL_TRANS		
DeltekCreateLinkUser.bat.log	Results of creating CPLINK_USER in DELTEKPL database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUserLogin.bat.log	Results of adding CPLINK_USER user login to DELTEKPL database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreatePLUserInCPTran.bat.log	Results of creating PLTRAN user in DELTEKCP database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreatePLUserInTETran.bat.log	Results of creating PLTRAN user in DELTEKTE database.	Will show any issues, that it completed successfully, or that the login already exists.

Log Name	Description	What to Look For
MSSQLNewPLDatabaseSetup82.bat.log	Detailed results for setting up the DELTEKPL database.	Will show any issues or $DBSUCCESS=TRUE at the end of the log file.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\TE_TRANS		
DeltekCreateLinkUser.bat_TE_TRANS.log	Results of creating CPLINK_USER in DELTEKTE database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateLinkUserLogin.bat_TE_TRANS.log	Results of adding CPLINK_USER user login to DELTEKTE database.	Will show any issues, that it completed successfully, or that the login already exists.
DeltekCreateTEUserInCPTran.bat_TE_TRANS.log	Results of creating TETRAN user in DELTEKCP database.	Will show any issues, that it completed successfully, or that the login already exists.
MSSQLNewTEDatabaseSetup82.bat.log	Detailed results for setting up the DELTEKTE database.	Will show any issues or $DBSUCCESS=TRUE at the end of the log file.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\XA_TRANS		
Instjdbc_CPTRAN.log	Results of enabling JDBC XA procedures for CP Transaction database.	Will show any issues or that it completed successfully.
Instjdbc_PL.log	Results of enabling JDBC XA procedures for PL Transaction database.	Will show any issues or that it completed successfully.
Instjdbc_TE.log	Results of enabling JDBC XA procedures for TE Transaction database.	Will show any issues or that it completed successfully.
MSDTC.log	Results of restating the Distributed Transaction Coordinator.	Will show any issues or that it completed successfully.
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\InstallerLogArchive		
	Copies of current log files will get moved to these folders if more than one run of the DB Tier installer is done.	

Application Tier Installer Log Files

Applicaiton Tier Installation logs are written to the following folder:

C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer

Each of these log files are detailed in the table below, but here is a look at the log folder/file structure:

> **C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer**
>> **AppTier_Install.log**
>> **AppTier_Install_ErrorSummaryResults.log**
>> **AppTier_Install_SummaryResults.log**
>> **AppTierSteps.txt**
>
> **C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\APIs**
>> **applyLicense_<name of license zip file>.log**
>> **applyLicense_<name of license zip file>result.log**
>> **linkViews.log**
>> **linkViewsResultCode.log**
>> **OrgSecByApplMod.log**
>> **OrgSecByApplModResult.log**
>> **syncSysSettingsTable.log**
>> **syncSysSettingsTableResultCode.log**
>
> **C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\InstallerLogArchive**

The following table provides the list of log files generated during the App Tier Installation, the folder they are under, along with a description of each, as well as what to look for when reviewing them.

Log Name	Description	What to Look For
C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer		
AppTier_Install.log	Main App Tier installation Log File. Shows detailed results of all processes executed in the installer. (Multiple log files for this, older ones from previous App Tier installer runs stored under InstallerLogArchive folder.)	Date and Build number at the top, Installation Success or failed at the bottom. Installation details, Error or Failed messages in between.
AppTier_Install_SummaryResults.log	Installer Summary description Panel output written to a log file. Contains the results of the installation process. (Multiple log files for this, older ones from previous App installer runs stored under InstallerLogArchive folder.)	SUCCESS items, FAILED items with error messages, and/or Warning messages.

Log Name	Description	What to Look For
AppTier_Install_ErrorSummaryResults.log	App Tier installer error output written to a log file. Contains any ERROR results of the installation process. (Multiple log files for this, older ones from previous App installer runs stored under InstallerLogArchive folder.)	Any errors during the installation will be written to this file. This will then lead you to the other logs for more detailed description of the errors.
C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\APIs		
applyLicense_<name of license zip file>.log	Results of applying your license file.	Details of applying License file. If no issues will see this at the bottom: >License file applied successfully... -->Rebuilding Licensed Applications... -->Rebuilding User Menus... -->Done. -->Removing temporary folder... -->End of the process.
applyLicense_<name of license zip file>result.log	Results of applying your license file.	Will show 1 if successful or 0 if there were issues.
linkViews.log	Log file containing details of Link Views process.	Will show error details if any at bottom.
linkViewsResultCode.log	Results of applying link views.	Will show 1 if successful or 0 if there were issues.
OrgSecByApplMod.log	Log file containing details of populating the Org Security Tables.	Will show error details if any at bottom.
OrgSecByApplModResult.log	Results of populating the Org Security Tables.	Will show 1 if successful or 0 if there were issues.
syncSysSettingsTable.log	Log file containing details of syncing the System Settings Tables.	Will show error details if any at bottom.

Log Name	Description	What to Look For
syncSysSettingsTableResultCode.log	Results of syncing System Settings Tables.	Will show 1 if successful or 0 if there were issues.
C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\InstallerLogArchive		
	Copies of current log files will get moved to these folders if more than one run of the App Tier installer is done.	

Web Tier Installer Log Files

Web Tier Installation logs are written to the following folder:

C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer

Each of these log files are detailed in the table below, but here is a look at the log folder/file structure:

C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer

DeltekCostpointWebTierSetup.log

WebTier_Setup_ErrorSummaryResults.log

WebTier_Setup_SummaryResults.log

C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer\InstallerLogArchive

The following table provides the list of log files generated during the Web Tier Installation, the folder they are under, along with a description of each, as well as what to look for when reviewing them.

Log Name	Description	What to Look For
C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer		
DeltekCostpointWebTierSetup.log	Main Web Tier installation Log File. Shows detailed results of all processes executed in the installer. (Multiple log files for this, older ones from previous Web installer runs stored under InstallerLogArchive folder.)	Date and Build number at the top, Installation Success or failed at the bottom. Installation details, Error or Failed messages in between.
WebTier_Setup_SummaryResults.log	Installer Summary description Panel output written to a log file. Contains the results of the installation process. (Multiple log files for this, older ones from previous Web installer runs stored under InstallerLogArchive folder.)	SUCCESS items, FAILED items with error messages, and/or Warning messages.

Log Name	Description	What to Look For
WebTier_Setup_ErrorSummaryResults.log	Web Tier installer error output written to a log file. Contains any ERROR results of the installation process. (Multiple log files for this, older ones from previous Web installer runs stored under InstallerLogArchive folder.)	Any errors during the installation will be written to this file. This will then lead you to the other logs for more detailed description of the errors.
C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer\InstallerLogArchive		
	Copies of current log files will get moved to these folders if more than one run of the Web Tier installer is done.	

WebLogic Server Configuration

The following methods to start and stop your Costpoint 8.2 WebLogic Server are detailed in this section:

- Starting the Costpoint 8.2 WebLogic Server as a Windows service
- Starting the Costpoint 8.2 WebLogic Server from the Windows Start menu
- Starting the Costpoint 8.2 WebLogic Server from a Windows Command Prompt
- Stopping the Costpoint 8.2 WebLogic Server as a Windows service
- Stopping the Costpoint 8.2 WebLogic Server from a web browser

Start Costpoint 8.2 WebLogic Server as a Windows Service

The steps to start your Costpoint 8.2 WebLogic Server as a Windows service are detailed in this section.

This step must be performed on your Costpoint 8.2 WebLogic application server.

To start your Costpoint 8.2 WebLogic Server when it is installed as a Windows service:

1. Click **Start » Administrative Tools » Services**.
2. On the Services window, scroll down the **Services** list, right-click the **Costpoint 8.2** service, and click **Properties** on the shortcut menu.
3. On the Costpoint 8.2 Properties screen, click the General tab.
4. Click **Start** to start the Costpoint 8.2 service.

   The service will indicate that it started immediately. However, please note that it will take several minutes for the Costpoint 8.2 service to fully initialize. After starting the service, wait several minutes before attempting to connect to the software.

   If you encounter problems with the Costpoint 8.2 service, check the C:\Deltek\Costpoint\82\logs\DEServer.log file and report any errors to Deltek Costpoint Technical Support.

5. Click **OK** to close the Costpoint 8.2 Properties screen.
6. Close the Services window.

Start Costpoint 8.2 WebLogic Server from the Start Menu

The steps to start your Costpoint 8.2 WebLogic Server from the Windows Start menu are detailed in this section.

This step must be performed on your Costpoint 8.2 WebLogic application server.

To start your Costpoint 8.2 WebLogic Server from the Windows Start menu:

1. Right-click **Start** and select **Search**.

2. Enter "Costpoint 8.2," right-click **Start Costpoint 8.2**, and click **Run as administrator**.

> **Note:** Due to the enhanced security in Windows Server, it is advised to that you use the **Run as Administrator** option when launching this command even if the logged in user has local administrative rights.

3. This will open a Windows Command Prompt and launch a command script that starts the Costpoint 8.2 WebLogic Server.

   When the Windows Command Prompt window opens, you will see a series of messages scrolling down the screen.

   It will take several minutes for the Costpoint 8.2 WebLogic Server to start.

4. If your Costpoint 8.2 WebLogic Server starts successfully, the following message displays on the lower portion of the command line shell window:

   <The server started in RUNNING mode. >

   If your Costpoint 8.2 WebLogic Server encounters errors during the startup process, the message will not display, and the command line shell (DOS window) may terminate.

5. If you do not receive the message or the command line shell (DOS window) terminates, you should:

   - Make a copy of the C:\Deltek\Costpoint\82\logs\DEServer.log file.

   - Contact Deltek Costpoint Technical Support.

Start Costpoint 8.2 WebLogic Server from the Windows Command Prompt

The steps to start your Costpoint 8.2 WebLogic Server from a Windows Command Prompt are detailed in this section.

This step must be performed on your Costpoint 8.2 WebLogic application server.

To start your Costpoint 8.2 WebLogic Server from a command line shell:

1. Open a Windows Command Prompt in Administrator Mode, navigate to the **C:\Deltek\Costpoint\82\bin** folder, and launch the following command script:

   StartCPWeb

   You will see a series of messages scrolling down the screen. It takes several minutes for the Costpoint 8.2 WebLogic Server to start.

   - If your Costpoint 8.2 WebLogic Server starts successfully, the following message displays on the lower portion of the command line shell window:

<The server started in RUNNING mode. >

- If your Costpoint 8.2 WebLogic Server encounters errors during the startup process, the message will not display, and the command line shell (DOS window) may terminate.

2. If you do not receive the message or the command line shell (DOS window) terminates, you should:

- Make a copy of the C:\Deltek\Costpoint\82\logs\DEServer.log file.

- Contact Deltek Costpoint Technical Support.

Stop Costpoint 8.2 WebLogic Server as a Windows Service

The steps to stop your Costpoint 8.2 WebLogic Server when it is running as a Windows service are detailed in this section.

This step must be performed on your Costpoint 8.2 WebLogic application server.

To stop your Costpoint 8.2 WebLogic Server when it is installed as a Windows service:

1. Click Windows **Start » Administrative Tools » Services**.

2. On the Services window opens, scroll down the **Services** list, right-click the **Costpoint 8.2** service, and click **Properties** on the shortcut menu.

3. On the Costpoint 8.2 Properties screen, click the General tab.

4. Click **Stop** to stop the Costpoint 8.2 service.

5. Click **OK** to close the Costpoint 8.2 Properties screen.

6. Close the Services window.

Stop Costpoint 8.2 WebLogic Server from the Web Browser

The steps to stop your Costpoint 8.2 WebLogic Server from the WebLogic console are detailed in this section.

This step must be performed from a machine that has web browser client access via TCP/IP to the Costpoint 8.2 WebLogic application server.

To stop your Costpoint 8.2 WebLogic Server from a Web browser:

1. Open your web browser and enter the following case-sensitive URL: **http://<IPAddress or ComputerName>:<Port>/console**, where **<IPAddress or ComputerName>** identifies your Costpoint 8.2 WebLogic application server and **<Port>** identifies the unique port number that your Costpoint 8.2 WebLogic application server uses to listen for connections.

   You specified this port value during the Costpoint 8.2 software installation. The default port is **7009 (f**or example, **http://10.2.2.154:7009/console).**

2. When the WebLogic Server Administration Console screen displays, complete the following fields.

Field Name	Action
Username	Enter **system**.

Field Name	Action
Password	Enter the password for the WebLogic Administrative user. The default password is **weblogic**.

3. Click **Login**.

4. On the Welcome system screen in the left pane, under **Domain Structure**, select the **delteke** node of the hierarchical tree.

5. On the Settings for delteke screen, click the Control tab.

6. Select the checkbox to the left of the **DEServer(admin)** field.

7. Click **Shutdown**, and then click **Force Shutdown Now**.

8. On the Domain Life Cycle Assistant screen, click **Yes**.

9. Close the web browser screen.

Change CPSUPERUSER User's Password

The steps to change the CPSUPERUSER user's password are detailed in this section.

This step may be performed from any Windows client workstation that has TCP/IP access to your Costpoint 8.2 WebLogic **application** server.

To change the CPSUPERUSER user's password:

1. Open your web browser, and enter one of the following URLs:

   ▪ http://<AppServerIPAddress or ComputerName>:<Port>

   ▪ http://<WebServerIPAddress or ComputerName>/cpweb

   Where <AppServerIPAddress or ComputerName> identifies your Costpoint 8.2 WebLogic application server and <Port> identifies the unique port number that your Costpoint 8.2 WebLogic application server uses to listen for connections. You specified this port value during the Costpoint 8.2 software installation. The default is 7009. For example, **http://10.2.2.154:7009**.

   Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server. For example, **http://10.2.2.156/cpweb**.

2. On the Deltek Costpoint screen, complete the following fields.

Field Name	Action
Username	Enter **CPSUPERUSER**.
Password	Enter the CPSUPERUSER user's password. The default is **password**.
System	Enter **<Your_System_Name>**, where **<Your_System_Name>** identifies the system name you assigned to your Costpoint 8.2 system during the Application Server Installation process. Typically, customers use a system name that is identical to their Costpoint 8.2 Database name, DELTEKCP.

Field Name	Action
SHOW ADDITIONAL CRITERIA	Click **+** to display these additional fields: ▪ **Application**: Accept the blank default value or enter a specific Costpoint 8.2 application (for example, **COSTPOINT MENU**). ▪ **Company**: Enter your company ID (for example, **1**). ▪ **Validation Frequency**: Accept the default drop-down value, **Field**. After you have successfully logged in to Costpoint 8.2, review the online help for a detailed explanation of the value you can select for this field.
Remember log in information	Select this checkbox to have the system remember your login information. This option is not selected by default.

3. Click **Log In**.

4. From the main menu screen, click **Admin » Security » System Security » Manage Users**.

5. On the Manage Users screen, click **Query**.

6. On the Users screen, enter CPSUPERUSER in the **ID** field, and click **Find**.

7. After the CPSUPERUSER user information loads on the Manage Users screen, click the Authentication tab, and complete the following fields.

Field Name	Action
Authentication Method	Accept the default value, **Costpoint Database,** from the drop-down list.
Costpoint Password	Enter a password for the CPSUPERUSER user. The password is case-sensitive and must be between 8 and 20 characters in length.
Verify Password	Re-enter the password for the CPSUPERUSER user.

8. Click **Save**.

9. After the confirmation message displays at the bottom of the screen, click **File » Close Application** to close the Enter/Manage Users screen.

10. Click **File » Log-out** to exit Costpoint 8.2.

11. Close your web browser.

12. Open your web browser, and enter one of the following URLs:

   ▪ http://<AppServerIPAddress or ComputerName>:<Port>

   ▪ http://<WebServerIPAddress or ComputerName>/cpweb

   Where <AppServerIPAddress or ComputerName> identifies your Costpoint 8.2 WebLogic application server and <Port> identifies the unique port number that your Costpoint 8.2 WebLogic application server uses to listen for connections. You specified this port value during the Costpoint 8.2 software installation. The default is 7009 (for example, **http://10.2.2.154:7009**).

Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server (for example, **http://10.2.2.156/cpweb**).

13. On the Deltek Costpoint screen, complete the following fields.

Field Name	Action
Username	Enter **CPSUPERUSER**
Password	Enter the CPSUPERUSER user's password. The default is **password**.
System	Enter **<Your_System_Name>**, where **<Your_System_Name>** identifies the system name you assigned to your Costpoint 8.2 system during the Application Server Installation process. Typically, customers use a system name that is identical to their Costpoint 8.2 Database name, DELTEKCP.
SHOW ADDITIONAL CRITERIA	Click **+** to display these additional fields: ▪ **Application**: Accept the blank default value or enter a specific Costpoint 8.2 application (for example, **COSTPOINT MENU**). ▪ **Company**: Enter your company ID (for example, **1**). ▪ **Validation Frequency**: Accept the default drop-down value, **Field**. After you have successfully logged in to Costpoint 8.2, review the online help for a detailed explanation of the value you can select for this field.
Remember log in information	Select this checkbox to have the system remember your login information. It is selected by default.

14. Click **Log In**.

You can begin accessing and using the Costpoint 8.2 system:

If you are unable to log in to Costpoint 8.2, contact Deltek Costpoint Technical Support.

Secure Sockets Layer (SSL) Encryption with Costpoint 8.2 Implementation

Information regarding the Costpoint Web support for SSL encryption is detailed in this section. This section also provides references to additional resources that you can use to learn more about implementing SSL with Costpoint 8.2.

Costpoint Web's Support for SSL

Costpoint 8.2 was tested against and supports SSL implemented on its WebLogic Server and Microsoft Internet Information Server (IIS) components.

> **Note:** The IIS component is optional in the Costpoint Web environment. If you have chosen to deploy IIS with your Costpoint Web environment, you may implement SSL on both your IIS and WebLogic Server components.

SSL requirements will vary from customer to customer. Consequently, this section does not provide specific instructions for implementing SSL on either your WebLogic Server or IIS components. Instead, this section provides third-party informational resources that you can use to learn about and implement SSL with your Costpoint 8.2 environment.

Informational Resources for Implementing SSL

You can implement SSL on either or both of your Costpoint 8.2 system's IIS and WebLogic Server components. For help on implementing SSL, please refer to the following URLs:

- WebLogic Server

  - http://docs.oracle.com/cd/E24329_01/web.1211/e24422/ssl.htm#SECMG384: Oracle WebLogic Server documentation that provides an overview of WebLogic's domestic- and exportable-strength SSL licenses as well as step-by-step instructions for implementing SSL on your WebLogic Server.

- IIS

  - http://technet.microsoft.com/en-us/library/cc732230(WS.10).aspx: Microsoft TechNet article that provides an overview of using encryption with IIS 8.2 and specific instructions for configuring SSL.

  - http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/5e0119a8-deed-4056-9592-e721a4889a71.mspx?mfr=true: Microsoft TechNet article that provides an overview of using encryption with IIS 6.0 and specific instructions for configuring SSL.

In addition to consulting these informational resources, you can contact Deltek's Systems Solutions team to arrange assistance for implementing SSL with your Costpoint 8.2 system.

Latest Installer Files Download Instructions

The Costpoint Database Tier installer provides certain command-line options that can be invoked in special circumstances.

To display the currently supported switches:

1. Open Command Prompt in Administrator Mode.

2. Navigate to the directory where the installer is located.

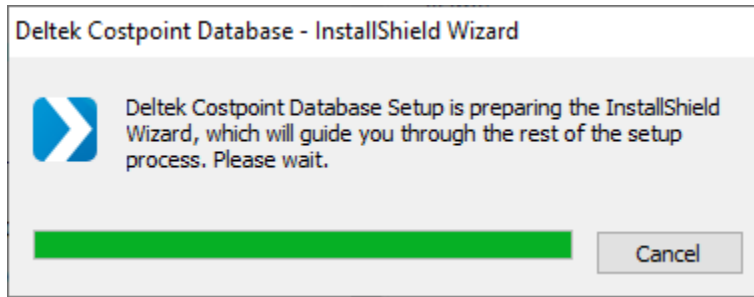3. Enter the following: **DeltekCostpoint82DatabaseTier_BuildXX.exe /?**

The instructions for downloading the latest Costpoint 8.2 Database upgrade and DeltekCostpoint82RequirementsINI files are detailed in this section. Each installer will automatically download the applicable files if your servers have Internet access. If your servers do not, you will need to run this step for each installer.

You must perform this step on any machine that has Internet access.

To download the required upgrade files:

1. Run the applicable command to retrieve the files from DSM:

   - DeltekCostpoint82DatabaseTier_Build01.exe /filedynamicdownload

   - DeltekCostpoint82ApplicationTier_Build01.exe /filedynamicdownload

   - DeltekCostpoint82WebTier_Build01.exe /filedynamicdownload

   You will see a screen similar to the following.

2. After the file downloads, when a message similar to the following displays, click **OK**.
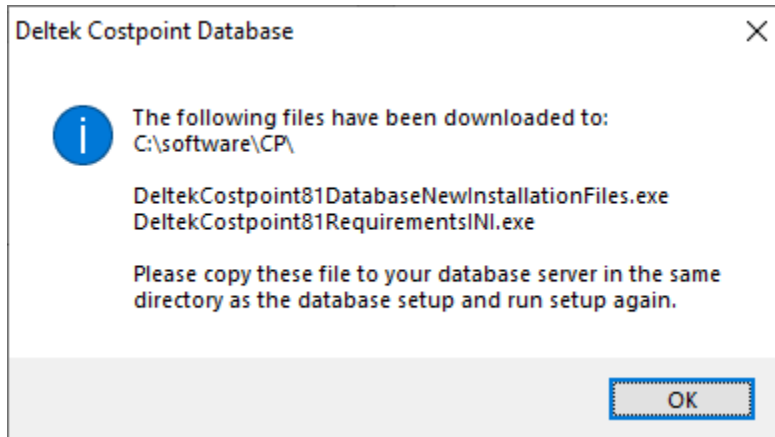
3. Copy the downloaded **DeltekCostpoint82DatabaseNewInstallationFiles.exe**/ **DeltekCostpoint82RequirementsINI.exe** file(s) to your server, in the same folder as your **.exe** installer file.

About Deltek

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