

Deltek

# Deltek Costpoint® 8.2

New Installation Guide for Oracle®

**August 7, 2023**

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This edition published August 2023.

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# 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. (You can print this checklist and use it as you complete this installation.)

Done?	Step	Notes
<b>Database Tier Installation</b>		
	1. Create Costpoint 8.2 Oracle Instance(s) and Tablespaces	
	2. Install Costpoint Database using Database Tier Installer	
	3. Apply Partitioning Script for Performance Enhancement (optional)	
<b>Application Tier Installation</b>		
	1. Install Application Tier Software	
	2. Add Users to the CostpointToolsGroup	
	3. Start Costpoint 8.2	
	4. Install Costpoint 8.2 Windows Service	
	5. Configure Costpoint 8.2 Windows Service	
<b>Web Tier Installation (Microsoft IIS)</b>		
	1. Configure Microsoft IIS for Costpoint 8.2	
	2. Install Web Tier Software	
	3. Add Users to the CostpointToolsGroup	
	4. Configure Costpoint 8.2 IIS Access	
	5. Restart Costpoint 8.2 WebLogic Server	
<b>Using Costpoint 8.2</b>		
	1. Log in to Costpoint 8.2	

Done?	Step	Notes
Maintenance Release Installation		
	1. Install Latest Costpoint 8.2 Maintenance Release (MR)	

## 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	<p><b>Major New Features and Enhancements:</b> View the major new features and enhancements included in Costpoint 8.2.</p> <p><b>De-Supported Applications:</b> View the applications that are no longer supported in Costpoint 8.2.</p>

## Entity Relationship Diagrams (ERDs)

Document Name	Description
DeltekCostpoint820TransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Transaction schema. Use <b>index.htm</b> to view the ERD.
DeltekCostpoint820SystemSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 System schema. Use <b>index.htm</b> to view the ERD.
DeltekCostpoint820AdminSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Admin schema. Use <b>index.htm</b> to view the ERD.
DeltekCostpoint820PLTransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Planning Transaction schema. Use <b>index.htm</b> to view the ERD.

Document Name	Description
DeltekCostpoint820TETTransactionSchema.zip	This ZIP file contains the ERD for the Deltek Costpoint 8.2 Time & Expense Transaction schema. Use <b>index.htm</b> 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 Costpoint administrators use to 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 administrators use the DB Wizard utility to apply licenses, run link views, rebuild user menus, and 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 maintenance releases.
Deltek Costpoint 8.2 Message Boards	This document describes how integration between Costpoint and MS Exchange can enable collaboration among Costpoint users as well as between Costpoint and non-Costpoint users. Integration also enables you to link emails with attachments directly to Costpoint documents and view them directly from Costpoint.

Document Name	Description
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, and a list of optimized applications for the Oracle parallel SQL execution option.
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 provides instructions for accessing Costpoint applications and describes menus, toolbars, and other global features. You will also find information about 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 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 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 explains the differences between Table View and Form View.

Document Name	Description
Deltek Costpoint 8.2 Query and Lookup QRC	This document is a quick reference card that explains how to 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 provides 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:** See the [Installation Prerequisites](#) and [System Requirements](#) sections for additional information, and 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, 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 Oracle
- 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 prerequisite:

Prerequisite Component	Details
Software	All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix, which is available on the Customer Care Support Site <a href="#">here</a> .

Prerequisite Component	Details
Passwords	To run the installation, passwords are required for Oracle SYSTEM and SYS users.
Oracle Instance and Tablespaces	Create an Oracle instance and Oracle tablespaces as documented in <a href="#">Create Costpoint 8.2 Instance(s) and Tablespaces</a> .
Firewall Settings	On your Database Server, the Oracle Listener Port ( <b>1521</b> ) must be open for Inbound and Outbound traffic through your firewall.  On your Database Server, make sure that the <b>Network discovery</b> and <b>file sharing</b> options are switched on.

## 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, which is available on the Customer Care Support Site <a href="#">here</a> .

## Costpoint 8.2 Server Startup Prerequisites

Before you start Costpoint 8.2, the following requirements must be met:

Prerequisite Component	Details
Server	On your Database Server, the Oracle Listener Port <b>1521</b> must be open for Inbound and Outbound traffic through your firewall.  On your Database Server, make sure that the <b>Network Discovery and File Sharing</b> options are switched on.  On your Application Server, the WebLogic Listener Port <b>7009</b> must be open for Inbound and Outbound traffic through your firewall.  On your Application Server, make sure that the <b>Network Discovery and File Sharing</b> 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	<p>All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site <a href="#">here</a>.</p> <p>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 <b>Display PDF in browser</b> option under the Preference settings for Adobe Acrobat Reader to avoid pulling up a blank browser screen when printing in PDF format.</p>

## 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 prerequisites:

Prerequisite Component	Details
Software	<p>All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support Site <a href="#">here</a>.</p>

## Installation Process for Costpoint 8.2

The Costpoint 8.2 installation process incorporates the following steps:

Component	Change Details
Database Tier Installation	<p>The Database Tier installer automatically creates the following user-defined schemas and users:</p> <ul style="list-style-type: none"> <li>▪ Transaction Schema (CPTRAN)</li> <li>▪ Admin Schema (CPADMIN)</li> <li>▪ System Schema (CPSYSTEM)</li> <li>▪ PL Transaction Schema (PLTRAN), if applicable</li> <li>▪ TE Transaction Schema (TETRAN), if applicable</li> <li>▪ Link User (CPLINK_USER)</li> </ul>
Application Tier Installation	<p>The Install function in the Application Tier automatically installs all necessary software and handles all configurations.</p>

Component	Change Details
	<p>The Application Tier installer automatically performs all the following actions:</p> <ul style="list-style-type: none"> <li>▪ Extracting JDK</li> <li>▪ Installing WebLogic</li> <li>▪ Extracting BIRT Lib Files</li> <li>▪ Extracting App Tier Class Files</li> <li>▪ Updating Config Files</li> <li>▪ Encrypting Passwords</li> <li>▪ Running LinkViews</li> <li>▪ Syncing Sys Settings Table</li> <li>▪ Applying License</li> <li>▪ Running LinkViews</li> <li>▪ Migrating Org Security Application Modules</li> <li>▪ Creating Demo License</li> <li>▪ Creating Shortcuts</li> </ul> <p>The Application Tier installer creates a <b>CostpointToolsGroup</b> with the following Sharing and Security permissions:</p> <ul style="list-style-type: none"> <li>▪ Full Sharing and Security Permissions on your Costpoint 8.2 Deltek directory (C:\Deltek)</li> <li>▪ Full Security Permissions on your WebLogic directory (C:\Oracle\Middleware14.1.1)</li> </ul>
Web Tier Installation	<p>The Install function in the Web Tier automatically installs all necessary software and handles all configurations.</p> <p>The Web Tier installer automatically performs all of the following actions:</p> <ul style="list-style-type: none"> <li>▪ Extracting DEProxy Files</li> <li>▪ Extracting DEWebApp Files</li> <li>▪ Configuring Internet Information Server (IIS)</li> <li>▪ Resetting Internet Information Server (IIS)</li> </ul> <p>The Web Tier installer creates a <b>CostpointToolsGroup</b> with the following Sharing and Security permissions:</p> <ul style="list-style-type: none"> <li>▪ Full Sharing and Security Permissions on the folder containing your Costpoint 8.2 DEWebApp directory (C:\Deltek\Costpoint or C:\Deltek\Costpoint\82\applications)</li> </ul>

## 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 following table 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 following table 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.

### Costpoint Schema Names

The following table lists typical Oracle schema names used in the Costpoint Database Tier installation:

Database Name	Description
CPTRAN	This is the name of your Costpoint Transaction schema.
CPSYSTEM	This is the name of the Costpoint System schema. The CPSYSTEM user is a separate database schema that stores the metadata that the Costpoint 8.2 software needs to function properly.
CPADMIN	This is the name of the Costpoint Admin schema. The CPADMIN user is a separate database schema that stores system and security information that the Costpoint 8.2 software needs to function properly.
PLTRAN	This is the name of your Planning Transaction schema.
TETRAN	This is the name of your Time & Expense Transaction schema.

## 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](https://deltek.custhelp.com/app/answers/detail/a_id/52469)

**Tip:** Refer to the [DeltekSoftwareManager.pdf](#) to learn more about DSM and how it works.

### DSM Documentation and Troubleshooting

- To view the online help for Deltek Software Manager, click [here](#).
- To view a tutorial on how to use Deltek Software Manager, click [here](#).
- To view more information on troubleshooting Deltek Software Manager, 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
<b>Username</b>	Enter your Support user name.
<b>Password</b>	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
<b>Refine by Product</b>	Select <b>Costpoint</b> from the drop-down list.
<b>Refine by Category/Version</b>	Expand Service Pack/Hot Fix from the drop-down list, and then select <b>8.2 (GA)</b> .
<b>Search Type</b>	Use the default value, Phrases, or select your preferred search type from the drop-down list.
<b>Search by Keyword</b>	Enter the specific text 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:** Oracle
- **Application Tier:** With integrated WebLogic Server
- **Browser Client:** Edge, Chrome, Firefox, Safari
- **Web Tier:** Microsoft Internet Information Server (optional)
- All product compatibility information is maintained in the Deltek Product Support Compatibility Matrix available on the Customer Care Support site [here](#).

### 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 can 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, refer to the Knowledge Base article containing the Compatibility Matrix:

- [https://deltek.custhelp.com/app/answers/detail/a\\_id/38499](https://deltek.custhelp.com/app/answers/detail/a_id/38499)
- <https://deltek.custhelp.com/ci/fattach/get/1072689/0/filename/DeltekProductSupportCompatibilityMatrix.pdf>

## Costpoint 8.2 Log File Information

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

File Name	Description
DEServer.log	<p>This log file is maintained by the WebLogic server instance. In a clustered environment, each server writes to a separate file and the file name matches the server name.</p> <p>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.</p>
CP_DBConn_DEServer.log	<p>This log file lists the activate connections used by the product at a given time. To enable this logging, set &lt;SYSTEMNAME&gt;.logDBConnectionProfile = <b>true</b> in enterprise properties.</p> <p>In a clustered environment, each server writes to a separate log file and the server name determines the name of the log file.</p> <p>CP_DBConn_&lt;Server&gt;.log</p>
CP_DEServer.log	<p>This log file contains application-specific information such as performance issues, security issues, and errors encountered while running a Costpoint application.</p> <p>Each server writes to a separate log file and the server name determines the name of the log file.</p> <p>CP_&lt;Server&gt;.log</p>
CP_Security_DEServer.log	<p>This log file captures messages generated by the 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.</p> <p>In a clustered environment, each server writes to a separate log file and the server name determines the name of the log file.</p> <p>CP_Security_&lt;Server&gt;.log</p>

File Name	Description
delteke.log	<p>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.</p> <p>Not all log messages are written into domain. Only those messages that match the defined severity are consolidated.</p>
service.log	<p>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.</p> <p>In addition to service-related messages, this file contains most of the information that is captured in the DEServer.log.</p> <p>Therefore, after the initial startup issues are sorted out, Deltek recommends that you disable this log by editing the <b>InstallCPWebasService.cmd</b> (C:\Deltek\Costpoint\82\bin folder) and removing the occurrence of "<b>-log:%CP_ROOT%\logs\service.log</b>".</p> <p>If you remove this after installing the service, you will need to uninstall and reinstall the service for the changes to take effect.</p>

## Database Tier Installation

This section provides instructions and recommendations for creating your Costpoint 8.2 database 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 (CPTRAN) to store transaction data.
- Create and populate a Costpoint 8.2 System database schema (CPSYSTEM) to store metadata.
- Create and populate a Costpoint 8.2 Admin database schema (CPADMIN) to store system and security information.
- Create and populate a Costpoint 8.2 Planning Transaction database schema (PLTRAN) to store PL transaction data, if applicable.
- Create and populate a Costpoint 8.2 Time & Expense Transaction database schema (TETRAN) to store TE transaction data, if applicable.

**Note:** If you use Oracle Real Application Clusters (RAC) and you have two or more Oracle instances, make sure that your CPTRAN, CPADMIN, CPSYSTEM, PLTRAN, and TETRAN schemas are all part of one RAC database instead of physically separate databases. If you have a critical need to use separate databases, contact Deltek Support.

**Note:** The Costpoint platform does not currently support Unicode Translation Format (UTF) character sets, such as AL32UTF8. When you configure your Oracle database using Oracle tools, make sure that you choose the non-unicode character set, **WE8MSWIN1252**, when you create your initial Costpoint database.

## Before You Start

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

## Create Costpoint 8.2 Oracle Instance(s) and Tablespaces

This section details the recommended steps to configure your Oracle instance(s) and set up your Costpoint 8.2 database tablespaces.

You must complete these steps on the Oracle database server(s) that will host your CPTRAN, CPSYSTEM, CPADMIN, PLTRAN, and TETRAN database schemas.

The CPTRAN, CPSYSTEM, CPADMIN, PLTRAN, and TETRAN database schemas can reside in the same Oracle database or separate Oracle databases on the same or separate Oracle database servers.

**To create the instance(s) and tablespaces that will host your CPTRAN, CPSYSTEM, CPADMIN, PLTRAN, and TETRAN database schemas:**

1. Use your Oracle database software to create an Oracle instance (or instances) for hosting the Costpoint database.

The following tables provide references for creating your Oracle instance(s). These initial settings are only minimal recommendations. Your production environment may need to be analyzed and

adjusted to meet your specific requirements. You must customize these parameters over time based on database size, concurrent users, workload, and so on to achieve optimal performance.

Oracle Instance Parameter	Value
cursor_sharing	EXACT
db_block_size	8192
dml_locks	1500
java_pool_size	64 MB
job_queue_processes	2
log_checkpoint_interval	10000
log_checkpoint_timeout	1820
open_cursors	3000
optimizer_index_caching	0
optimizer_index_cost_adj	100
optimizer_mode	ALL_ROWS
processes	500
session_cached_cursors	1500
timed_statistics	TRUE
sga_target	0
pga_aggregate_target	0
statistics_level	Typical
db_file_multiblock_read_count	16
memory_target	Based on database size (4 GB to 50 GB)
memory_max_target	Based on database size (4 GB to 50 GB)
pga_aggregate_limit	0

Tablespace Configuration Type	Tablespace Name	Minimum Size (MB)	Small Production System (MB)
System	SYSTEM	100	100
Default	COSTPOINT_DATA	200	500
Index	COSTPOINT_INDEX	100	300
Default	TE_DATA	100	300
Index	TE_INDEX	100	300
Default	PL_DATA	100	300
Index	PL_INDEX	100	300
Dynamic	COSTPOINT_DYN	100	300
Temporary	TEMPORARY_DATA	100	400

- For databases over 50GB, Deltek recommends the following additional tablespaces for optimal performance.

These initial settings are only minimal recommendations. Your production environment may need to be analyzed and adjusted to meet your specific requirements.

Recommended Customization Tablespace Configuration Type	Tablespace Name	Minimum Size (MB)	Small Production System (MB)
Temporary Data	COSTPOINT_XZDATA	512	2048
Temporary Index	COSTPOINT_XZINDEX	256	1024
Report Data	COSTPOINT_RPTDATA	1024	5120
Report Index	COSTPOINT_RPTINDEX	512	2048

Recommended Tablespace Configuration Type for CPSYSTEM and CPADMIN	Tablespace Name	Minimum Size (MB)	Small Production System (MB)
System	SYSTEM	450	450
Default	CPMETA_DATA	400	400
Index	CPMETA_INDEX	100	100
Temporary	TEMPORARY_DATA	100	100

## Configuring Multiple Costpoint Transaction Schemas with Shared CPADMIN/CPSYSTEM Schema(s)

**Note:** You can skip this step if you do not want to share your CPADMIN or CPSYSTEM schemas across multiple Costpoint systems.

If you want to share your Costpoint CPSYSTEM and /or CPADMIN schemas across multiple Costpoint Transaction schemas and the schemas reside on different databases—or on separate database servers—it is necessary to configure all the Oracle databases in shared server configuration mode (also called Oracle multi-threaded server [MTS]).

An Oracle database creates server processes to handle incoming requests from user processes from client machines. A server process is called a dedicated server process when it services, and is dedicated to, only one user process at a time. This is the default configuration for all Oracle databases. A shared server process can service multiple user process requests in shared server architecture, thus reducing the total number of server processes needed to service a given workload. This enables a significant reduction in system resources and supports an increased number of concurrent users.

The following recommendation is just the starting point on how to configure your database with shared server architecture. It is important to understand your system configuration, number of concurrent users, server load, network load, and so on and adjust these settings for optimal performance. There are other parameters available that can be adjusted, depending on your Oracle RDBMS version.

- The DISPATCHERS initialization parameter configures dispatcher processes in shared server architecture. Execute the following statement in SQL Plus:

```
ALTER SYSTEM SET DISPATCHERS = '(PROTOCOL=TCP) (DISPATCHERS=2)';
```

- The SHARED\_SERVERS initialization parameter specifies the minimum number of shared servers created at instance startup. Execute the following statement in SQL Plus:

```
ALTER SYSTEM SET SHARED_SERVERS = 5;
```

Setting this parameter to 0 disables shared server architecture.

**Note:** For more information on Oracle shared server architecture, see the Oracle documentation for your RDBMS version.

## Configuring Costpoint on Oracle

Costpoint 8.2 supports both Oracle database architectures: non-CDBs as well as Oracle Multitenant (PDBs).

Costpoint 8.2 fully supports use of pluggable databases (PDBs) that form a part of a container database (CDB). When hosting a Costpoint database as a PDB, it is important to allocate adequate shared resources and/or limit the number of PDBs in the CDB in order to achieve and maintain optimal application performance. The database setup and configuration with Oracle multitenant will vary depending on the database workload characteristics, database size, concurrent users, and so on.

**Tip:** Costpoint 8.2 does **not** support use of the domain name as a suffix for the Oracle service name. For example, Costpoint 8.2 does **not** support **orc1.domain.com** as your service name.

## Install the Database Tier Software

This section details the steps to install the Costpoint 8.2 Database Tier software as well as create the Transaction, System, and Admin databases.

You must complete these steps on your database server or from a client workstation with Oracle client connectivity tools installed to connect to the database.

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 DeltekCostpoint82DatabaseNewInstallationFiles.exe file contains the latest special characters supported for user, password, and other fields in the installer.
- The DeltekCostpoint82RequirementsINI.exe file 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.

**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, Deltek recommends 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 this, 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 **Oracle**, 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
<b>Costpoint Oracle Databases</b>	Select this feature to install and configure the Costpoint Transaction, System, and Admin database schemas and users.
<b>Time &amp; Expense Oracle Database</b>	Select this feature to install and configure the Time & Expense Transaction database schema and user.
<b>Planning Oracle Database</b>	Select this feature to install and configure the Planning Transaction database schema and user.

6. On the Oracle Home Information screen, from the drop-down list, select the **Oracle Home** location for your Costpoint database, and click **Next >**.

The installer reads your registry to display all available Oracle Home locations.

7. On the Costpoint Oracle TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
<b>IP Address or Hostname</b>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Costpoint 8.2 Transaction (CPTRAN) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The values for the IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. If you have SCAN listener set up, use the Scan hostname or Scan IP Address. Do not use the Virtual IP Address.</p>
<b>Service Name</b>	<p>Select <b>SID</b> or <b>Service Name</b>, and then enter the system identification name (SID) or Service Name (ORC1) for the Oracle instance where your Costpoint Transaction database schema will be created. The default is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>- .</p> <p>Deltek Costpoint requires that the Oracle Database SERVICE_NAME be the DB_NAME value only, meaning the DB_DOMAIN value must be empty. Therefore, the SERVICE_NAME must use the “dbname” format, and not “dbname.dbdomain”.</p> <p>Oracle database software identifies a database by its global database name. A global database name consists of the database name and database domain. The DB_NAME parameter and the DB_DOMAIN</p>

Field Name	Action
	<p>parameter combine to create the global database name value assigned to the SERVICE_NAMES parameter in the initialization parameter file.</p> <p>For databases on Oracle 12c, you <b>must</b> select <b>Service Name</b>.</p> <p>For databases on other Oracle versions, you can choose either the <b>SID</b> or the <b>Service Name</b> to connect to the Costpoint database.</p> <p>The Oracle SID pertains to the unique name that identifies an Oracle instance. If you use <b>SID</b>, then the SID must be registered with the listener on the database server hosting the Costpoint database.</p> <p>Similarly, if you enter a <b>Service Name</b>, then the Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database.</p> <p>For RAC installations, you can specify the <b>Oracle Instance (SID)</b> of one of the instances, or use the <b>Service Name</b>, depending on your Oracle RDBMS version.</p>
<b>Port</b>	<p>Enter the Oracle listener port of your Costpoint database server. The default port for Oracle is <b>1521</b>.</p>
<b>Transaction Database User (Schema)</b>	<p>Enter the name for your Transaction schema user account. The default is <b>CPTRAN</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>
<b>Transaction Database User Password</b>	<p>Enter the password for your Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>Transaction Database Confirm User Password</b>	<p>Re-enter the password for your Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>Oracle SYSTEM User</b>	<p>Enter the name of your Oracle SYSTEM user. The default is <b>SYSTEM</b>. If a user with "sysadmin" privileges is available, you can instead specify that user. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _ #</p> <p>For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.</p>

Field Name	Action
<b>Oracle SYSTEM User Password</b>	Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported:  ' ~ # \$ ^ & ( ) - _ + = , .

8. Click **Test Connection**.

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

“CPTRAN will be created. Click Next.”

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

9. When you receive the message confirming a successful connection, click **Next >**.
10. On the Costpoint Oracle ADMIN Database Information screen, complete the following fields:

Field Name	Action
<b>IP Address or Hostname</b>	Enter the IP address (for example, <b>10.2.2.154</b> ) or hostname (for example, <b>dbsvr01</b> ) of your Costpoint 8.2 Admin (CPADMIN) 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 <b>127.0.1.0.1</b> or <b>localhost</b> .  For RAC installations, you must specify the IP Address or Hostname of one of the instances. If you have SCAN listener set up, use the Scan hostname or Scan IP Address. Do not use the Virtual IP Address.
<b>Service Name</b>	Select <b>SID</b> or <b>Service Name</b> , and then enter the system identification name (SID) or Service Name (ORC1) for the Oracle instance where your Costpoint Admin database schema will be created. The default is <b>PDBORCL</b> .  In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:  _ .  Deltek Costpoint requires that the Oracle Database SERVICE_NAME be the DB_NAME value only, meaning the DB_DOMAIN value must be empty. Therefore, the SERVICE_NAME must use the “dbname” format, and not “dbname.dbdomain”.  Oracle Database software identifies a database by its global database name. A global database name consists of the database name and database domain. The DB_NAME parameter and the DB_DOMAIN parameter combine to create the global database name value assigned to the SERVICE_NAMES parameter in the initialization parameter file.

Field Name	Action
	<p>For databases on Oracle 12c, you <b>must</b> select <b>Service Name</b>.</p> <p>For databases on other Oracle versions, you can choose either the <b>SID</b> or the <b>Service Name</b> to connect to the Costpoint database. The Oracle SID pertains to the unique name that identifies an Oracle instance. If you use <b>SID</b>, then the SID must be registered with the listener on the database server hosting the Costpoint database.</p> <p>Similarly, if you enter a <b>Service Name</b>, then the Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database.</p> <p>For RAC installations, you can specify the <b>Oracle Instance (SID)</b> of one of the instances or use the <b>Service Name</b>, depending on your Oracle RDBMS version.</p>
<b>Port</b>	Enter the Oracle listener port of your Costpoint database server. The default port for Oracle is <b>1521</b> .
<b>Admin Database User (Schema)</b>	Enter the name for your Admin schema user account. The default is <b>CPADMIN</b> . In addition to standard alphanumeric characters, the following special characters are also supported: \$ _
<b>Admin Database User Password</b>	Enter the password for your Admin schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Admin Database Confirm User Password</b>	Re-enter the password for your Admin schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	<p>Enter the name of your Oracle SYSTEM user. The default is <b>SYSTEM</b>. If a user with "sysadmin" privileges is available, you can instead specify that user. In addition to standard alphanumeric characters, the following special characters are also supported: \$ _ #</p> <p>For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.</p>
<b>Oracle SYSTEM User Password</b>	Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .

11. Click **Test Connection**.

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

“CPADMIN will be created. Click Next.”

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

12. When you receive the message confirming a successful connection, click **Next >**.

13. On the Costpoint Oracle SYSTEM Database Information screen, complete the following fields.

Field Name	Action
<p><b>IP Address or Hostname</b></p>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Costpoint 8.2 System (CPSYSTEM) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The values for the IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. If you have SCAN listener setup, please use the Scan hostname or Scan IP Address. Do not use the Virtual IP Address.</p>
<p><b>Service Name</b></p>	<p>Select <b>SID</b> or <b>Service Name</b>, and then enter the system identification name (SID) or Service Name (ORC1) for the Oracle instance where your Costpoint System database schema will be created. The default is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>- .</p> <p>Deltek Costpoint requires that the Oracle Database SERVICE_NAME be the DB_NAME value only, meaning the DB_DOMAIN value must be empty. Therefore, the SERVICE_NAME must use the “dbname” format, and not “dbname.dbdomain”.</p> <p>Oracle Database software identifies a database by its global database name. A global database name consists of the database name and database domain. The DB_NAME parameter and the DB_DOMAIN parameter combine to create the global database name value assigned to the SERVICE_NAMES parameter in the initialization parameter file.</p> <p>For databases on Oracle 12c, you <b>must</b> select <b>Service Name</b>.</p> <p>For databases on other Oracle versions, you can choose either the <b>SID</b> or the <b>Service Name</b> to connect to the Costpoint database. The Oracle SID pertains to the unique name that identifies an Oracle instance. If you use <b>SID</b>, then the SID must be registered with the listener on the database server hosting the Costpoint database.</p>

Field Name	Action
	<p>Similarly, if you enter a <b>Service Name</b>, the Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database.</p> <p>For RAC installations, you can specify the <b>Oracle Instance (SID)</b> of one of the instances or use the <b>Service Name</b>, depending on your Oracle RDBMS version.</p>
<b>Port</b>	Enter the Oracle listener port of your Costpoint database server. The default port for Oracle is <b>1521</b> .
<b>System Database User (Schema)</b>	<p>Enter the name for your System schema user account. The default is <b>CPSYSTEM</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>
<b>System Database User Password</b>	<p>Enter the password for your System schema user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>System Database Confirm User Password</b>	<p>Re-enter the password for your System schema user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>Oracle SYSTEM User</b>	<p>Enter the name of your Oracle SYSTEM user. The default is <b>SYSTEM</b>. If a user with "sysadmin" privileges is available, you can instead specify that user. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _ #</p> <p>For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.</p>
<b>Oracle SYSTEM User Password</b>	<p>Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>

#### 14. Click **Test Connection**.

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

"CPSYSTEM will be created. Click Next."

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

15. When you receive the message confirming a successful connection, click **Next >**.
16. On the Time & Expense Oracle TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
<b>IP Address or Hostname</b>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Time &amp; Expense 8.2 Transaction (TETRAN) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The values for the IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. If you have SCAN listener set up, use the Scan hostname or Scan IP Address. Do not use the Virtual IP Address.</p>
<b>Service Name</b>	<p>Select <b>SID</b> or <b>Service Name</b>, and then enter the system identification name (SID) or Service Name (ORC1) for the Oracle instance where your Time &amp; Expense Transaction database schema will be created. The default is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>- .</p> <p>Deltek Costpoint requires that the Oracle Database SERVICE_NAME be the DB_NAME value only, meaning the DB_DOMAIN value must be empty. Therefore, the SERVICE_NAME must use the "dbname" format, and not "dbname.dbdomain".</p> <p>Oracle Database software identifies a database by its global database name. A global database name consists of the database name and database domain. The DB_NAME parameter and the DB_DOMAIN parameter combine to create the global database name value assigned to the SERVICE_NAMES parameter in the initialization parameter file.</p> <p>For databases on Oracle 12c, you <b>must</b> select <b>Service Name</b>.</p> <p>For databases on other Oracle versions, you can choose either the <b>SID</b> or the <b>Service Name</b> to connect to the Costpoint database. The Oracle SID pertains to the unique name that identifies an Oracle instance. If you use <b>SID</b>, then the SID must be registered with the listener on the database server hosting the Costpoint database.</p> <p>Similarly, if you enter a <b>Service Name</b>, the Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database.</p>

Field Name	Action
	For RAC installations, you can specify the <b>Oracle Instance (SID)</b> of one of the instances or use the <b>Service Name</b> , depending on your Oracle RDBMS version.
<b>Port</b>	Enter the Oracle listener port of your Costpoint database server. The default port for Oracle is <b>1521</b> .
<b>Transaction Database User (Schema)</b>	Enter the name for your Time & Expense Transaction schema user account. The default is <b>TETRAN</b> . In addition to standard alphanumeric characters, the following special characters are also supported: \$ _
<b>Transaction Database User Password</b>	Enter the password for your Time & Expense Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Transaction Database Confirm User Password</b>	Re-enter the password for your Time & Expense Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	Enter the name of your Oracle SYSTEM user. The default is <b>SYSTEM</b> . If a user with "sysadmin" privileges is available, you can instead specify that user. In addition to standard alphanumeric characters, the following special characters are also supported: \$ _ #  For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.
<b>Oracle SYSTEM User Password</b>	Enter the password for your Oracle SYSTEM user account. 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, a message similar to the following displays:

"TETRAN will be created. Click Next."

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

18. When you receive a message confirming a successful connection, click **Next >**.

19. On the Planning Oracle TRANSACTION Database Information screen, complete the following fields.

Field Name	Action
<p><b>IP Address or Hostname</b></p>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Planning 8.2 Transaction (PLTRAN) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The values for the IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. If you have SCAN listener setup, please use the Scan hostname or Scan IP Address. Do not use the Virtual IP Address.</p>
<p><b>Service Name</b></p>	<p>Select <b>SID</b> or <b>Service Name</b>, and then enter the system identification name (SID) or Service Name (ORC1) for the Oracle instance where your Planning Transaction database schema will be created. The default is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>- .</p> <p>Deltek Costpoint requires that the Oracle Database SERVICE_NAME be the DB_NAME value only, meaning the DB_DOMAIN value must be empty. Therefore, the SERVICE_NAME must use the “dbname” format, and not “dbname.dbdomain”.</p> <p>Oracle Database software identifies a database by its global database name. A global database name consists of the database name and database domain. The DB_NAME parameter and the DB_DOMAIN parameter combine to create the global database name value assigned to the SERVICE_NAMES parameter in the initialization parameter file.</p> <p>For databases on Oracle 12c, you <b>must</b> select <b>Service Name</b>.</p> <p>For databases on other Oracle versions, you can choose either the <b>SID</b> or the <b>Service Name</b> to connect to the Costpoint database. The Oracle SID pertains to the unique name that identifies an Oracle instance. If you use <b>SID</b>, then the SID must be registered with the listener on the database server hosting the Costpoint database.</p> <p>Similarly, if you enter a <b>Service Name</b>, the Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database.</p> <p>For RAC installations, you may specify the <b>Oracle Instance (SID)</b> of one of the instances or use the <b>Service Name</b>, depending on your Oracle RDBMS version.</p>
<p><b>Port</b></p>	<p>Enter the Oracle listener port of your Costpoint database server. The default port for Oracle is <b>1521</b>.</p>

Field Name	Action
<b>Transaction Database User (Schema)</b>	Enter the name for your Planning Transaction schema user account. The default is <b>PLTRAN</b> . In addition to standard alphanumeric characters, the following special characters are also supported: \$ _
<b>Transaction Database User Password</b>	Enter the password for your Planning Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Transaction Database Confirm User Password</b>	Re-enter the password for your Planning Transaction schema user account. In addition to standard alphanumeric characters, the following special characters are also supported: ' ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	Enter the name of your Oracle SYSTEM user. The default is <b>SYSTEM</b> . If a user with "sysadmin" privileges is available, you can instead specify that user. In addition to standard alphanumeric characters, the following special characters are also supported: \$ _ #  For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.
<b>Oracle SYSTEM User Password</b>	Enter the password for your Oracle SYSTEM user account. 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, a message similar to the following displays:

"PLTRAN will be created. Click Next."

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

21. When you receive a message confirming a successful connection, click **Next >**.

22. On the Costpoint Oracle Tablespace Information screen, complete the following fields, and click **Next >**.

Schema Tablespace Information	Field Name	Action
Costpoint TRANSACTION Schema Tablespace Information	<b>Default</b>	Select your default tablespace for the Costpoint Transaction Schema.  Deltek recommends that you use <b>COSTPOINT_DATA</b> as the tablespace value.
	<b>Temporary</b>	Select your temporary tablespace for the Costpoint Transaction Schema.  Deltek recommends that you use <b>TEMPORARY_DATA</b> as the tablespace value.
	<b>Index</b>	Select your default tablespace for the Costpoint Indexes.  Deltek recommends that you use the default value, <b>COSTPOINT_INDEX</b> , as the tablespace value.
	<b>Temporary Data</b>	Select your default tablespace for the Costpoint Temporary Data (X_Z_ and Z_ tables).  Deltek recommends that you use the default value, <b>COSTPOINT_DATA</b> , unless your database is over 50G. In that case, Deltek recommends that you use <b>COSTPOINT_XZDATA</b> as the tablespace value.
	<b>Temporary Index</b>	Select your default tablespace for the Costpoint Temporary Indexes (X_Z_ and Z_ tables).  Deltek recommends that you use the default value, <b>COSTPOINT_INDEX</b> , unless your database is over 50G. In that case, Deltek recommends that you use <b>COSTPOINT_XZINDEX</b> as the tablespace value.
	<b>Reporting Data</b>	Select your default tablespace for the Costpoint Reporting Data.  Deltek recommends the default value, <b>COSTPOINT_DATA</b> , unless your database is over 50G. In that case, Deltek recommends that you use <b>COSTPOINT_RPTDATA</b> as the tablespace value.
	<b>Reporting Index</b>	Select your default tablespace for the Costpoint Reporting Indexes.  Deltek recommends the default value, <b>COSTPOINT_INDEX</b> , unless your database is over 50G. In that case, Deltek recommends that you use <b>COSTPOINT_RPTINDEX</b> as the tablespace value.

Schema Tablespace Information	Field Name	Action
Costpoint ADMIN Schema Tablespace Information	<b>Default</b>	Select your default tablespace for the Costpoint Admin Schema.  Deltek recommends that you use <b>CPMETA_DATA</b> as the tablespace value.
	<b>Temporary</b>	Select your temporary tablespace for the Costpoint Admin Schema.  Deltek recommends that you use <b>TEMPORARY_DATA</b> as the tablespace value.
	<b>Index</b>	Select your default tablespace for the Costpoint Admin Schema indexes.  Deltek recommends that you use <b>CPMETA_INDEX</b> as the tablespace value.
Costpoint SYSTEM Schema Tablespace Information	<b>Default</b>	Select your default tablespace for the Costpoint System Schema.  Deltek recommends that you use <b>CPMETA_DATA</b> as the tablespace value.
	<b>Temporary</b>	Select your temporary tablespace for the Costpoint System Schema.  Deltek recommends that you use <b>TEMPORARY_DATA</b> as the tablespace value.
	<b>Index</b>	Select your default tablespace for the Costpoint System Schema indexes.  Deltek recommends that you use <b>CPMETA_INDEX</b> as the tablespace value.

23. On the Time & Expense Oracle Tablespace Information screen, complete the following fields, and click **Next >**.

Schema Tablespace Information	Field Name	Action
Time & Expense TRANSACTION Schema Tablespace Information	<b>Default</b>	Select your default tablespace for the Time & Expense Transaction Schema.  Deltek recommends that you use <b>TE_DATA</b> as the tablespace value.
	<b>Temporary</b>	Select your temporary tablespace for the Time & Expense Transaction Schema.

Schema Tablespace Information	Field Name	Action
		Deltek recommends that you use <b>TEMPORARY_DATA</b> as the tablespace value.
	<b>Index</b>	Select your default tablespace for the Time & Expense Indexes.  Deltek recommends that you use the default value, <b>TE_INDEX</b> , as the tablespace value.

24. On the Planning Oracle Tablespace Information screen, complete the following fields, and click **Next >**.

Schema Tablespace Information	Field Name	Action
Planning TRANSACTION Schema Tablespace Information	<b>Default</b>	Select your default tablespace for the Planning Transaction Schema.  Deltek recommends that you use <b>PL_DATA</b> as the tablespace value.
	<b>Temporary</b>	Select your temporary tablespace for the Planning Transaction Schema.  Deltek recommends that you use <b>TEMPORARY_DATA</b> as the tablespace value.
	<b>Index</b>	Select your default tablespace for the Planning Indexes.  Deltek recommends that you use the default value, <b>PL_INDEX</b> , as the tablespace value.

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

Field Name	Action
<b>Link User Name</b>	Enter the name of your LINK user account. The default value is <b>CPLINK_USER</b> . The user (schema) should not exist in the database. In addition to standard alphanumeric characters, the following special characters are also supported:  \$ _
<b>Link User Password</b>	Enter the password for your LINK user account. In addition to standard alphanumeric characters, the following special characters are also supported:  ' ~ # \$ ^ & ( ) - _ + = , .

Field Name	Action
<b>Link User Confirm Password</b>	Re-enter the password for your LINK user account. In addition to standard alphanumeric characters, the following special characters are also supported: <code>' ~ # \$ ^ &amp; ( ) - _ + = , .</code>

26. Click **Test Connection**.

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

“Link User CPLINK\_USER will be created. Click Next.”

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

27. When you receive a message confirming a successful connection, click **Next >**.

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

- To change any settings, click **< Back** to go back and make the necessary changes.
- When you are satisfied with the settings, click **Install >** to begin the installation.

Once initiated, the installation process begins and creates the objects needed for Costpoint 8.2. Do not interrupt the process. A Windows Command Prompt will be displayed on your screen, listing the scripts that are being executed.

The installation performs the scenarios detailed in the [Installation Process for Costpoint 8.2](#) section of this document. If any errors are encountered, the installation process will stop and you should contact Deltek Technical Support with the details.

When the installation process completes, the Deltek Costpoint Database - Installation Summary Results screen displays the results of the process.

For each feature that you selected to install, you should see a SUCCESS message. Research any FAILED messages or Errors in the applicable detailed log file(s) and report them to Deltek Costpoint Technical Support.

29. Click **Next >**.

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

Field Name	Action
<b>Launch the installer summary file</b>	Select this checkbox to review the summary log file. This log shows the same data provided on the previous screen. C:\Program Files\Deltek\Costpoint\8.2\Log\DBTier_Installer\DBTier_Install_SummaryResults.log.
<b>Launch the installer log file</b>	Select this checkbox to review the Deltek Costpoint Database installer log file. C:\Program Files\Deltek\Costpoint\8.2\Log\DBTier_Installer\DBTier_Install.log.

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

32. **Important:** Review all log files for any errors or reported issues.

All errors are captured in the DBTier\_Install\_ErrorSummaryResults.log, which is available in this folder: C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier\_Installer.

## Before You Continue

Before you proceed, make sure that:

- The default Oracle Port (**1521**) is open for Inbound and Outbound traffic through your firewall.
- Your Network Discovery and File Sharing options are switched on.

## Apply Partitioning Scripts for Performance Enhancement

This section details the steps that you complete to apply partitioning scripts to your Costpoint 8.2 TRANSACTION database schema.

**Warning:** This is an optional step for clients who run Oracle Enterprise edition licensed with partitioning support. All other clients must skip this step.

Partitioning for the following Costpoint tables and corresponding indexes is supported with Costpoint 8.2:

Table Name	Index Name
POOL_SIE_SUPPORT	SI_1305
PSR_FINAL_DATA	SI_1822
PSR_HDR	SI_1821
PROJ_SUM	PI_0737
PROJ_BURD_SUM	PI_0736
RPT_REVENUE_WKS	SI_1485
RPT_PROJ_LAB_SUM	SI_1037, SI_1038
RPT_REV_SUM	SI_1218
RPT_PROJ_TMA	SI_0015
PROJ_MOD_ITD_SUM	PK_PROJ_MOD_ITD_SUM_IDX
RPT_UNBILLED_RSN	UI_RT_UBD_RSN_PRFPYDUCORS_IDX
RPT_PROJ_UNBILLED	SI_RPT_PROJ_UNB_PRFPYDUCO_IDX
HS_PROJ	PK_HS_PROJ_IDX

The **CostpointPartitionTables.sql** file contains scripts for creating partitioned tables and indexes using the default partitioning scheme recommended by Deltek. You can choose to change the partitioning scheme to suit your requirements.

If the entire script is executed, for each table, the script completes the following actions:

- Creates a temporary partitioned table
- Moves the data from the existing non-partitioned table to the partitioned version
- Creates local partitioned indexes
- Drops the original, non-partitioned table

The partitioned tables and indexes are created in the default Oracle tablespace of the Transaction schema (DELTEK). To modify this behavior, or to retain the tablespace settings of the corresponding original non-partitioned tables, you must modify the appropriate script by adding the tablespace information, where necessary.

To partition a subset of the tables in the list above, you are expected to modify the script suitably before execution. Be sure to make provision for adequate disk space and appropriate tablespace settings before executing the script.

**Warning:** While out-of-the-box partitioning may work well for small to medium customers, Deltek strongly recommends that larger customers—or customers with multiple years of data—who need to get optimal performance out of Costpoint applications modify the default partitioning scheme to include the **Fiscal Year** and **Company ID** columns as additional partition parameters on top of the columns used by Deltek.

However, if only one company is configured in (or used in) Costpoint, then you should not include the **Company ID** column.

If you use this approach, you should include columns in the range criteria in this order:

1. **Fiscal Year**
2. **Period**
3. **Company ID** (if multiple companies are used)
4. **Subperiod**

The sub-partitioning option can be used for Subperiod. Your partitioning model may change over time; for example, you will need to update it if your firm starts using multiple companies.

You must complete these steps on your Costpoint 8.2 Transaction database server.

#### To apply the partitioning script:

1. Click **Start » All Programs » SQLPlus**.
2. Connect to your Costpoint 8.2 TRANSACTION database using your Transaction schema (**DELTEK**) user account, and execute the following SQL script:

```
CostpointPartitionTables.sql
```

The script is located in this folder:

```
C:\Deltek\Costpoint\82\Database\Scripts\ORACLE\CP_TRANSACTION\Scripts
```

3. Exit **SQLPlus**.

## 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 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 step provides instructions for installing Oracle's WebLogic Server 14.1.1 application server software and Deltek Costpoint 8.2 software.

You must complete 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. The file is automatically downloaded when you launch the Application Tier installation, assuming that your application server has Internet access.

**Note:** The Deltek product installers contain functionality that 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 must 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, Deltek recommends 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 >**.

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

Field Name	Action
<b>Primary Application Server Tier</b>	<p>Select this setup type to install both the Oracle WebLogic and Deltek Costpoint Application Tier software.</p> <p>You must select this option if you are installing Costpoint in a non-clustered environment or if this will be your Primary Application Server Tier in a clustered environment.</p> <p>Additional changes are required to configure a clustered environment.</p>
<b>Secondary Application Server Tier</b>	<p>Select this setup type to install only the Oracle WebLogic software. The Deltek Costpoint Application Tier software will not be installed.</p> <p>You must select this option only when you are configuring a clustered environment after your Primary Application Server Tier has already been installed.</p>

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

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

- 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.

- If you set the **Setup Type** to **Secondary Application Server Tier**, the Pre-Installation Summary screen displays and you should proceed to step 29 of this procedure.
- 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 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 **Oracle**, and click **Next >**.
10. On the Costpoint Oracle TRANSACTION Database Information screen, complete the following fields:

Field Name	Action
<b>IP Address or Hostname</b>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Costpoint 8.2 Transaction (CPTRAN) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.</p>
<b>Service Name</b>	<p>Enter the service name (ORC1) for the Oracle instance where your Costpoint 8.2 Transaction (CPTRAN) database schema resides. The default value is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>_ .</p> <p>The Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database. The Oracle Net Connect Descriptor on the client machine uses "Service_Name" in the instance portion to specify the database to connect to in the file tnsnames.ora.</p> <p>Oracle creates one default service with the same name as the SID when a database is created. This service registers with the local listener to provide access to the database. Customers can choose to create other service names as needed.</p> <p>For RAC installations, you <b>must</b> specify the Service Name of one of the instances.</p>
<b>Port</b>	<p>Enter the port that your Costpoint 8.2 Transaction database server software uses to listen for requests. The default port for Oracle is <b>1521</b>.</p>
<b>Transaction Database User (Schema)</b>	<p>Enter the name of your CPTRAN user. The default is <b>CPTRAN</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>

Field Name	Action
<b>Transaction Database User Password</b>	Enter the password for your CPTRAN user. In addition to standard alphanumeric characters, the following special characters are also supported:  ' ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	Enter the name of your SYSTEM user. The default is <b>SYSTEM</b> . In addition to standard alphanumeric characters, the following special characters are also supported:  \$ _ #  For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.
<b>Oracle SYSTEM Schema Password</b>	Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported:  ' ~ # \$ ^ & ( ) - _ + = , .

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 entered, and click **Test Connection** again.

12. When you receive a message indicating a successful connection, click **Next >**.

13. On the Costpoint Oracle ADMIN Database Information screen, complete the following fields:

Field Name	Action
<b>IP Address or Hostname</b>	Enter the IP address (for example, <b>10.2.2.154</b> ) or hostname (for example, <b>dbsvr01</b> ) of your Costpoint 8.2 Admin (CPADMIN) 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 <b>127.0.1.0.1</b> or <b>localhost</b> .  For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
<b>Service Name</b>	Enter the service name (ORC1) for the Oracle instance where your Costpoint 8.2 Admin (CPADMIN) database schema resides. The default value is <b>PDBORCL</b> .

Field Name	Action
	<p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>– .</p> <p>The Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database. The Oracle Net Connect Descriptor on the client machine uses "Service_Name" in the instance portion to specify the database to connect to in the file tnsnames.ora.</p> <p>Oracle creates one default service with the same name as the SID when a database is created. This service registers with the local listener to provide access to the database. Customers can choose to create other service names as needed.</p> <p>For RAC installations, you <b>must</b> specify the Service Name of one of the instances.</p>
<b>Port</b>	<p>Enter the port that your Costpoint 8.2 Admin database server software uses to listen for requests. The default port for Oracle is <b>1521</b>.</p>
<b>Admin Database User (Schema)</b>	<p>Enter the name your CPADMIN user account. The default user is <b>CPADMIN</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>
<b>Admin Database User Password</b>	<p>Enter the password for your CPADMIN user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>Oracle SYSTEM User</b>	<p>Enter the name of your SYSTEM user. The default is <b>SYSTEM</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _ #</p> <p>For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.</p>
<b>Oracle SYSTEM Schema Password</b>	<p>Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>' ~ # \$ ^ &amp; ( ) - _ + = , .</p>

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. When you receive a message indicating a successful connection, click **Next >**.

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

Field Name	Action
<b>IP Address or Hostname</b>	Enter the IP address (for example, <b>10.2.2.154</b> ) or hostname (for example, <b>dbsvr01</b> ) of your Costpoint 8.2 System (CPSYSTEM) 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 <b>127.0.1.0.1</b> or <b>localhost</b> . For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.
<b>Service Name</b>	Enter the service name (ORC1) for the Oracle instance where your Costpoint 8.2 System (CPSYSTEM) database schema resides. The default value is <b>PDBORCL</b> . In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported: - . The Service Name must be a valid service registered with the listener on the database server hosting the Costpoint database. The Oracle Net Connect Descriptor on the client machine uses "Service_Name" in the instance portion to specify the database to connect to in the file tnsnames.ora. Oracle creates one default service with the same name as the SID when a database is created. This service registers with the local listener to provide access to the database. Customers can choose to create other service names as needed. For RAC installations, you <b>must</b> specify the Service Name of one of the instances.
<b>Port</b>	Enter the port that your Costpoint 8.2 System database server software uses to listen for requests. The default port for Oracle is <b>1521</b> .
<b>System Database User (Schema)</b>	Enter the name your CPSYSTEM user account. The default user is <b>CPSYSTEM</b> . In addition to standard alphanumeric characters, the following special characters are also supported: \$ _

Field Name	Action
<b>System Database User Password</b>	Enter the password for your CPSYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported: ‘ ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	Enter the name of your SYSTEM user. The default is <b>SYSTEM</b> . In addition to standard alphanumeric characters, the following special characters are also supported: \$ _ # For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.
<b>Oracle SYSTEM Schema Password</b>	Enter the password for your Oracle SYSTEM user account. 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. When you receive a message indicating a successful connection, click **Next >**.

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

Field Name	Action
<b>IP Address or Hostname</b>	Enter the IP address (for example, <b>10.2.2.154</b> ) or hostname (for example, <b>dbsvr01</b> ) of your Time & Expense 8.2 Transaction (TETRAN) 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 <b>127.0.1.0.1</b> or <b>localhost</b> . For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.

Field Name	Action
<b>Service Name</b>	<p>Enter the service name (ORC1) for the Oracle instance where your Time &amp; Expense 8.2 Transaction (TETRAN) database schema resides. The default value is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>– .</p> <p>The Service Name must be a valid service registered with the listener on the database server hosting the Time &amp; Expense database. The Oracle Net Connect Descriptor on the client machine uses "Service_Name" in the instance portion to specify the database to connect to in the file tnsnames.ora.</p> <p>Oracle creates one default service with the same name as the SID when a database is created. This service registers with the local listener to provide access to the database. Customers can choose to create other service names as needed.</p> <p>For RAC installations, you <b>must</b> specify the Service Name of one of the instances.</p>
<b>Port</b>	<p>Enter the port that your Time &amp; Expense 8.2 Transaction database server software uses to listen for requests. The default port for Oracle is <b>1521</b>.</p>
<b>Transaction Database User (Schema)</b>	<p>Enter the name of your TETRAN user. The default is <b>TETRAN</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>
<b>Transaction Database User Password</b>	<p>Enter the password for your TETRAN user. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>‘ ~ # \$ ^ &amp; ( ) - _ + = , .</p>
<b>Oracle SYSTEM User</b>	<p>Enter the name of your SYSTEM user. The default is <b>SYSTEM</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _ #</p> <p>For the Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user)—you enter a case-sensitive username. If the case does not match, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.</p>
<b>Oracle SYSTEM Schema Password</b>	<p>Enter the password for your Oracle SYSTEM user account. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>‘ ~ # \$ ^ &amp; ( ) - _ + = , .</p>

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 and click **Test Connection** again.

21. When you receive a message indicating a successful connection, click **Next >**.

22. On the Planning Oracle TRANSACTION Database Information screen, complete the following fields:

Field Name	Action
<b>IP Address or Hostname</b>	<p>Enter the IP address (for example, <b>10.2.2.154</b>) or hostname (for example, <b>dbsvr01</b>) of your Planning 8.2 Transaction (PLTRAN) database server. The default value is your computer name. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>- _</p> <p>The IP Address or Hostname cannot be <b>127.0.1.0.1</b> or <b>localhost</b>.</p> <p>For RAC installations, you must specify the IP Address or Hostname of one of the instances. Do not use the Virtual IP Address.</p>
<b>Service Name</b>	<p>Enter the service name (ORC1) for the Oracle instance where your Planning 8.2 Transaction (PLTRAN) database schema resides. The default value is <b>PDBORCL</b>.</p> <p>In addition to standard alphanumeric characters, the following special characters (underscore and period) are also supported:</p> <p>- .</p> <p>The Service Name must be a valid service registered with the listener on the database server hosting the Planning database. The Oracle Net Connect Descriptor on the client machine uses "Service_Name" in the instance portion to specify the database to connect to in the file tnsnames.ora.</p> <p>Oracle creates one default service with the same name as the SID when a database is created. This service registers with the local listener to provide access to the database. Customers can choose to create other service names as needed.</p> <p>For RAC installations, you <u>must</u> specify the Service Name of one of the instances.</p>
<b>Port</b>	<p>Enter the port that your Planning 8.2 Transaction database server software uses to listen for requests. The default port for Oracle is <b>1521</b>.</p>
<b>Transaction Database User (Schema)</b>	<p>Enter the name of your PLTRAN user. The default is <b>PLTRAN</b>. In addition to standard alphanumeric characters, the following special characters are also supported:</p> <p>\$ _</p>

Field Name	Action
<b>Transaction Database User Password</b>	Enter the password for your PLTRAN user. In addition to standard alphanumeric characters, the following special characters are also supported:  ' ~ # \$ ^ & ( ) - _ + = , .
<b>Oracle SYSTEM User</b>	Enter the name of your SYSTEM user. The default is <b>SYSTEM</b> . In addition to standard alphanumeric characters, the following special characters are also supported:  \$ _ #  The Oracle superuser (non-Costpoint user) entered on the installer screen to establish link views between Costpoint users—if you use a custom user (not the Oracle SYSTEM user), then the user name entered is case-sensitive. If the case mismatches, the installer will fail in the link view step even though the connection validation on the initial screens will be successful.
<b>Oracle SYSTEM Schema Password</b>	Enter the password for your Oracle SYSTEM user account. 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 and click **Test Connection** again.

24. When you receive a message indicating a successful connection, click **Next >**.  
25. On the Link User Information screen, complete the following fields:

Field Name	Action
<b>Link User Name</b>	Enter the name your LINK user account. The default user is <b>CPLINK_USER</b> . In addition to standard alphanumeric characters, the following special characters are also supported:  \$ _
<b>Link User Password</b>	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. When you receive a message indicating a successful connection, click **Next >**.
28. On the Deltek Costpoint Application System Information screen, complete the following fields, and click **Next >**.

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

29. On the Pre-Installation Summary screen, review the installation parameters that you have selected:
  - To change any settings, click **< Back** to go back and make the necessary changes.
  - When you are satisfied with the settings, click **Install >** to begin the installation.

Once initiated, the installation process can take a long time to complete. Do not interrupt the process. A Windows Command Prompt is displayed on your screen that lists the scripts that are being executed.

The installation performs the scenarios detailed in the [Installation Process for Costpoint 8.2](#), Application Tier Installation section of this document. If errors are encountered, the installation process stops and you should contact Deltek Technical Support with the details.

When the installation process completes, the Deltek Costpoint Application Install Summary Results screen shows the results of the installation process.

For each feature that you selected to install, you should see a SUCCESS message. Research any FAILED messages or Errors in the applicable detailed log file(s) and report them to Deltek Costpoint Technical Support.

30. Click **Next >**.
31. On the InstallShield Wizard Complete screen, complete the following fields.

Field Name	Action
<b>Launch the installer summary file</b>	<p>Select this checkbox to review the summary log file. This will show the same data from the previous screen.</p>
<b>Launch the installer log file</b>	<p>Select this checkbox to review the Deltek Costpoint Application installer log file.</p>

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

33. **Important:** Review all log files for any errors or reported issues.

Errors are captured in the AppTier\_Install\_ErrorSummaryResults.log, which is available in this folder: C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier\_Installer.

## Before You Continue

Before you proceed, make sure that:

- Your default Application Server Listener Port (**7009**) is open for Inbound and Outbound traffic through your firewall.
- Your 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 **each** of your cluster nodes, choose **Secondary Application Server Tier** for the **Costpoint Tier Type**.

For more information on WebLogic clustering, see the [DeltekCostpoint82ConfigurationUtility.pdf](#) technical guide.

## Add Users to the CostpointToolsGroup

This section details the steps to add the necessary users to the newly created User Group, **CostpointToolsGroup**. The Application Tier installation that you just completed has added this group to your application server, granting it both **Full Sharing** and **Full Security Permissions** to the **C:\Deltek** folder and **Full Security Permissions** to the **C:\OracleMiddleware14.1.1** folder.

You must complete these steps 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 must 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

Make sure that you meet all [Costpoint 8.2 Server Startup Prerequisites](#).

## Manually Start Costpoint 8.2

This section details the steps that you use 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 complete these steps on your Costpoint 8.2 application server.

### To start Costpoint 8.2:

1. Right-click **Start**, select **Search**, enter **Costpoint 8.2**, open the file location for **Start Costpoint 8.2**, right-click **Start Costpoint 8.2**, and click **Run as administrator**.

**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 you have 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, a series of messages scrolls down the screen.

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

2. 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 actions

- a. Make a copy of the C:\Delttek\Costpoint\82\logs\DEServers.log file.
- b. Contact Delttek Costpoint Technical Support.

## Install the Costpoint 8.2 Windows Service

This section details the steps that you complete to install the Costpoint 8.2 Windows service.

You must complete these steps 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.

**Note:** 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:\Delttek\Costpoint\82\bin), right-click **InstallCPWebasService.cmd**, and select **Run as administrator**.

## Configure the Costpoint 8.2 Windows Service

This section details the steps that you complete to configure the Costpoint 8.2 Windows service.

You must complete these steps on your Costpoint 8.2 WebLogic application server.

### To configure the 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, then the service must not have installed properly in the previous step; you must 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
<b>First failure</b>	Change the drop-down selection from <b>Take No Action</b> to <b>Restart the Service</b> .
<b>Second failure</b>	Accept the default value, <b>Take No Action</b> .
<b>Subsequent failures</b>	Accept the default value, <b>Take No Action</b> .
<b>Reset fail count after</b>	Change the value from <b>0</b> to <b>1</b> days.
<b>Restart service after</b>	Accept the default value, <b>1</b> minute.

4. Click **Apply**.
5. On the Costpoint 8.2 Properties screen, click the Log On tab and complete the following.

Field Name	Action
<b>Account</b>	Enter the domain Account. For example, domain\useraccountname. If you are using a domain service login account instead of the Local System Account, select <b>This Account</b> .
<b>Password</b>	Enter the password for the domain Account.
<b>Confirm Password</b>	Re-enter the password for the domain Account.

6. Click **Apply**.
7. 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.

This login account **must** be given full access permissions for any Alternate File locations set up (network shared directories). Alternate File locations are used for Costpoint users, for uploading and downloading files from within Costpoint.

8. 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, note that it takes several minutes for the Costpoint 8.2 service to fully initialize. After you start the service, wait several minutes before attempting to connect to the software.

9. 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.
10. When the process completes successfully, click **OK** to close the Costpoint 8.2 Properties screen and close the Services window.

## Web Tier Installation

This section details the steps that you complete to integrate your Costpoint 8.2 software with the Microsoft Internet Information Server (IIS).

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 must 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 step and proceed to the next step.

You must complete these steps on a web server that uses the 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 that you must complete 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 step using PowerShell (Admin), you can skip this step.

You must complete these steps on a web server that uses Microsoft Internet Information Server.

**To configure the 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, complete the following actions:
  - 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 then 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

This section details the steps that you complete to integrate the Costpoint 8.2 system with Microsoft IIS.

You must complete these steps 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. The file is automatically downloaded when you launch the Web Tier installation, assuming that your web server has Internet access.

**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 must 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 you have 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
<b>IP Address or Hostname</b>	Enter the IP address ( <b>10.2.2.154</b> ) or hostname ( <b>appsvr01</b> ) of your Costpoint 8.2 WebLogic application server.  The IP Address or Hostname must not be <b>127.0.1.0.1</b> or <b>localhost</b> .
<b>Listen Port</b>	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 <b>7009</b> (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:
  - To change any settings, click **< Back** to go back and make the necessary changes.
  - If you are satisfied with the settings, click **Install >** to begin the installation.

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

The installation will perform 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.

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

For each step executed, you should see either a SUCCESS message. Research any FAILED messages or Errors in the applicable detailed log file(s) and report the details to Deltek Costpoint Technical Support.

10. Click **Next >**.
11. On the InstallShield Wizard Complete screen, complete the following fields:

Field Name	Action
<b>Launch the installer summary file</b>	Select this checkbox to review the summary log file. This will show the same data from the previous screen.
<b>Launch the installer log file</b>	Select this checkbox to review the Deltek Costpoint Application installer log file.

12. Click **Finish** to exit the installation.
13. Review all log files for any Errors or reported issues.

All Errors are captured in the AppTier\_Install\_ErrorSummaryResults.log, located in this folder: C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier\_Installer.

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
```

For more information on the logs folder structure and contents, see the Post Installation [Web Tier Installer Log Files](#) section.

14. Make sure that the 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

This section details the steps that you complete to add the necessary users to the newly created **CostpointToolsGroup**. The Web Tier installation added this group to your web server and granted the group **Full Sharing** and **Full Security Permissions** to the folder containing your DEWebApp folder, **C:\Deltek\Costpoint\82\applications**.

You must complete these steps 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

This section details the steps that you complete to configure Costpoint 8.2 to work through IIS.

You must complete these steps 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**, select **Search**, 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 that you use the **Run as Administrator** option when launching this command even if you have local administrative rights.

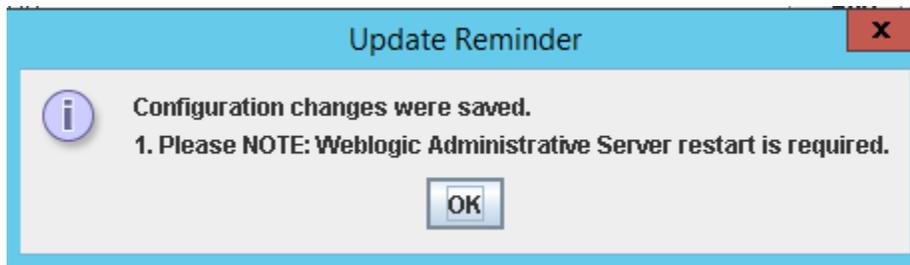
2. On the Select Your Configuration Options screen, make sure the **IIS Connection Configuration** checkbox is selected and click **Next**.
3. On the Costpoint Configuration Utility screen, click the IIS tab and perform the following for each of your IIS Web Servers:

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

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

4. Click **Save**.

The following message displays:



5. Click **OK** and then click **Close**.

## Restart the Costpoint 8.2 WebLogic Server

This section details the steps that you complete to stop and restart your Costpoint 8.2 WebLogic Server. You must complete these steps 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, 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, the Costpoint 8.2 service takes several minutes to fully initialize. After you start 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

This section details the steps that you complete to configure your browser and verify your Costpoint 8.2 Application Tier and Web Tier installations. 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 complete these steps on your Costpoint 8.2 application server.

#### To create Windows printer objects on your application server:

1. Right-click **Start**, click **Control Panel**, and under Hardware, select **View devices and printers**.
2. On the Printers and Faxes screen, double-click **Add Printer**.
3. 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 makes the printer objects available to your users.

### Log In to Costpoint 8.2

This section details the steps that you complete to log in to Costpoint 8.2.

You can perform these steps 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**).

- When the Deltek Costpoint 8.2 Welcome screen displays, complete the following fields.

Field Name	Action
<b>Username</b>	Enter <b>CPSUPERUSER</b> .
<b>Password</b>	Enter <b>password</b> . The password is case-sensitive and must be entered in lowercase letters. Passwords that you create for other user IDs can consist of uppercase, lowercase, or mixed letters.
<b>System</b>	Enter <b>&lt;Your_System_Name&gt;</b> , where <b>&lt;Your_System_Name&gt;</b> identifies the system name that 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, <b>DELTEKCP</b> .
<b>ADDITIONAL CRITERIA</b>	<p>Click + to display these additional fields:</p> <ul style="list-style-type: none"> <li><b>Application:</b> Accept the blank default value or enter a specific Costpoint 8.2 application. For example, COSTPOINT MENU.</li> <li><b>Company:</b> Enter your company ID. For example, 1.</li> <li><b>Validation Frequency:</b> Accept the default drop-down value, <b>Field</b>. After you successfully log in to Costpoint 8.2, review the online help for a detailed explanation of the values that you can select for this field.</li> <li><b>Language:</b> Accept the default drop-down value, <b>English</b>, or change to your language.</li> </ul>
<b>Remember me</b>	Select this checkbox to have the system remember your login information. This checkbox is not selected by default.

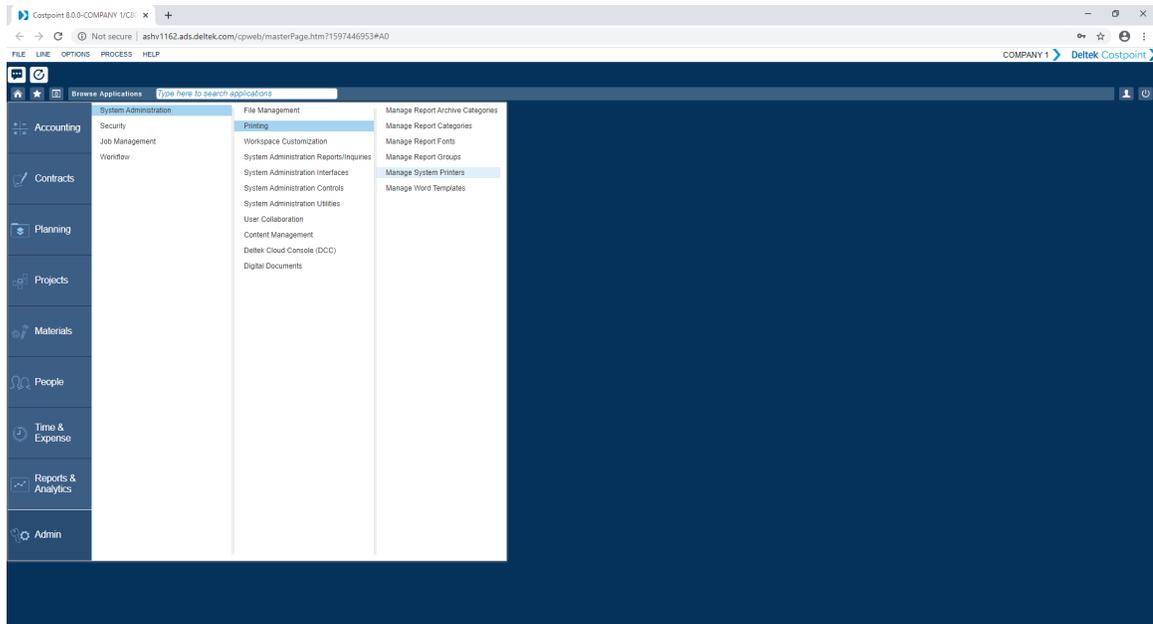
- Click **Log In**.
- When the Your password has expired screen displays, complete the following.

Field Name	Action
<b>Current Password</b>	Enter <b>password</b> . The password is case-sensitive and must be entered in lowercase.
<b>New Password</b>	Enter a new password for the CPSUPERUSER account. Passwords are case-sensitive and may consist of uppercase, lowercase, or mixed letters.

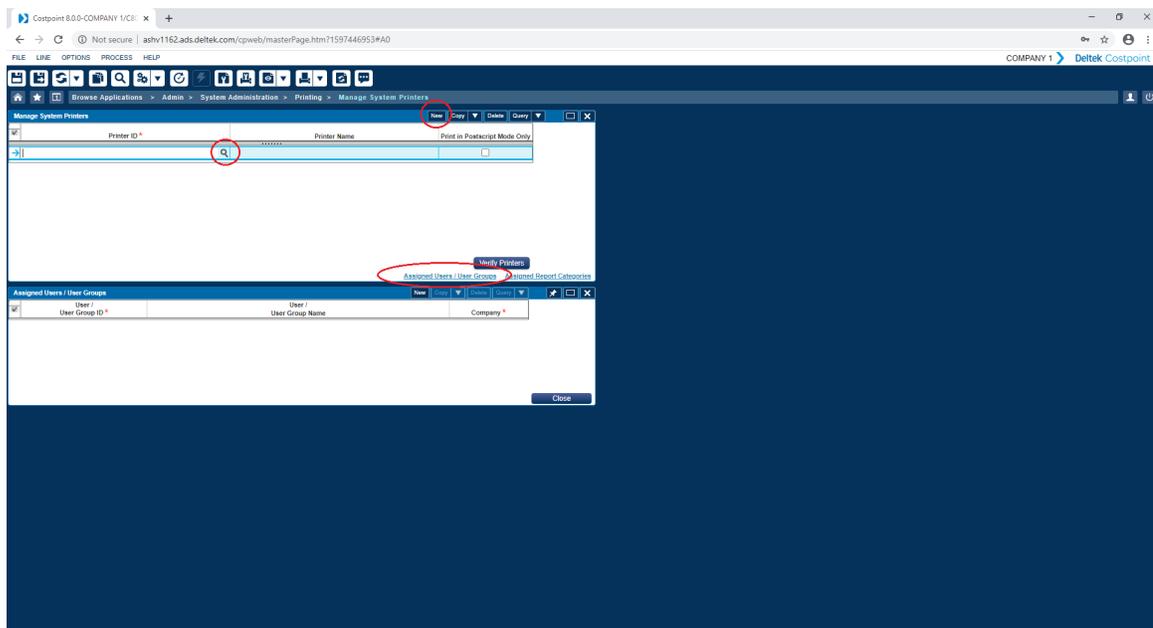
Costpoint 8.2 Initial Log In Configuration

Field Name	Action
<b>Confirm Password</b>	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 displays, click **New Record (+)**.



- Complete the following fields:

Field Name	Action
<b>Printer ID</b>	Click the magnifying glass (circled above in red). This displays 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 <b>SELECT</b> .
<b>Printer Name</b>	Enter a descriptive name for the printer object.

- Select the **Assigned Users/User Groups** link located in the lower-right corner of the System Printers section.
- 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
<b>User/User Group ID or User/User Group Name</b>	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.
<b>Company</b>	Click the magnifying glass. Select a Company for this User/User Group.

- Click **SELECT**. You must repeat Step 9 for each User/User Group that you want to assign the printer object that you specified earlier.
- Click **Save**.
- When the “Record modifications completed without error” message is displayed, click **OK**  
You must repeat items 6–12 for any printer objects on your Application server that you want to make available to your Costpoint 8.2 system users.
- Click **File» Log-out** to exit Costpoint 8.2.
- Close your browser.

## Verify Your Costpoint 8.2 Printer Configuration

This section details the steps that you complete to verify your Costpoint 8.2 printers.

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:

- 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**).

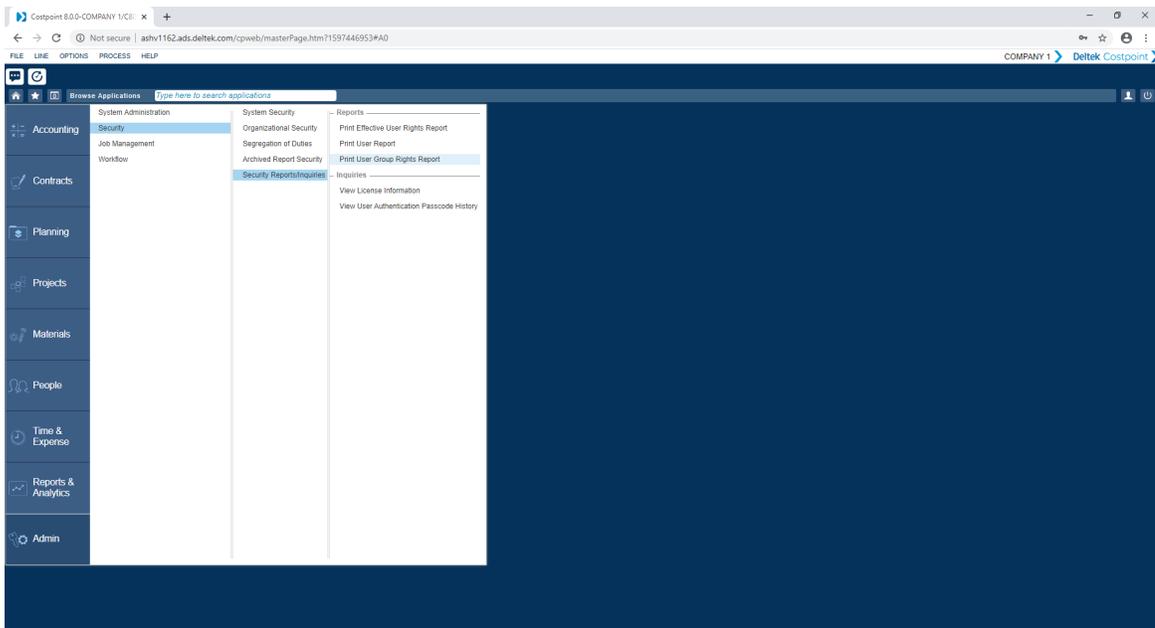
Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server (for example, **http://10.2.2.156/cpweb**).

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

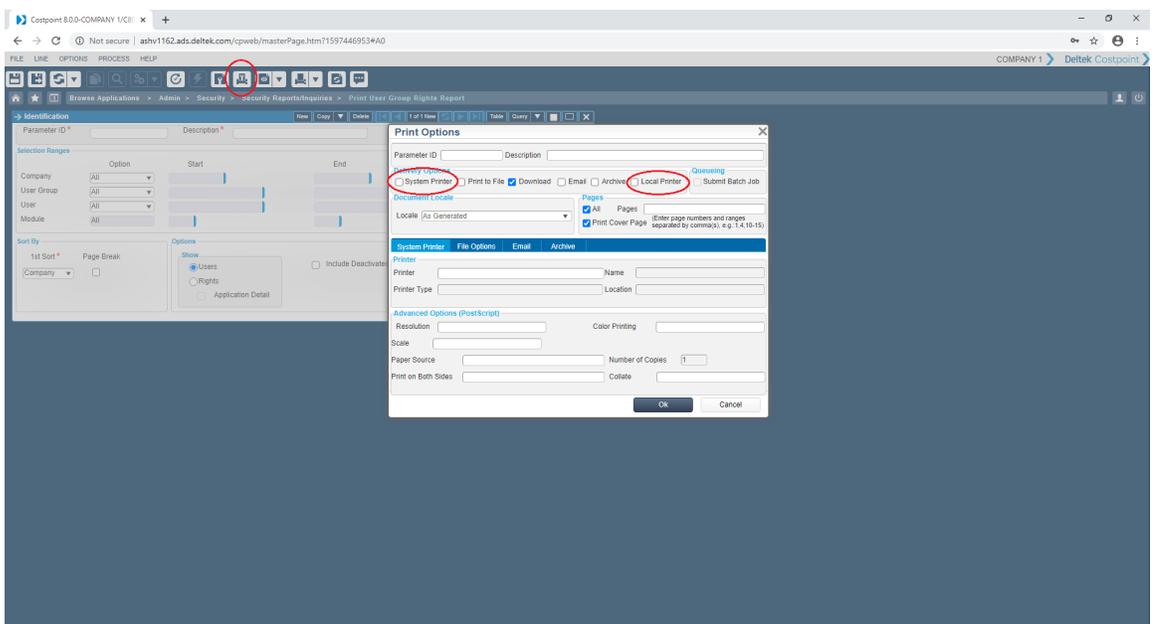
Field Name	Action
<b>Username</b>	Enter <b>CPSUPERUSER</b> .
<b>Password</b>	Enter the CPSUPERUSER user password. The default was <b>password</b> .
<b>System</b>	Enter <b>&lt;Your_System_Name&gt;</b> , where <b>&lt;Your_System_Name&gt;</b> identifies the system name you assigned to your Costpoint 8.2 system during the Application Server Installation process. Typically, customers use a system name that is identical to their Costpoint 8.2 Database name, DELTEKCP.
<b>SHOW ADDITIONAL CRITERIA</b>	Click <b>+</b> to display these additional fields: <ul style="list-style-type: none"> <li>▪ <b>Application:</b> Accept the blank default value or enter a specific Costpoint 8.2 application. For example, <b>COSTPOINT MENU</b>.</li> <li>▪ <b>Company:</b> Enter your company ID. For example, <b>1</b>.</li> <li>▪ <b>Validation Frequency:</b> Accept the default drop-down value, <b>Field</b>. 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.</li> </ul>
<b>Remember log in information</b>	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**.

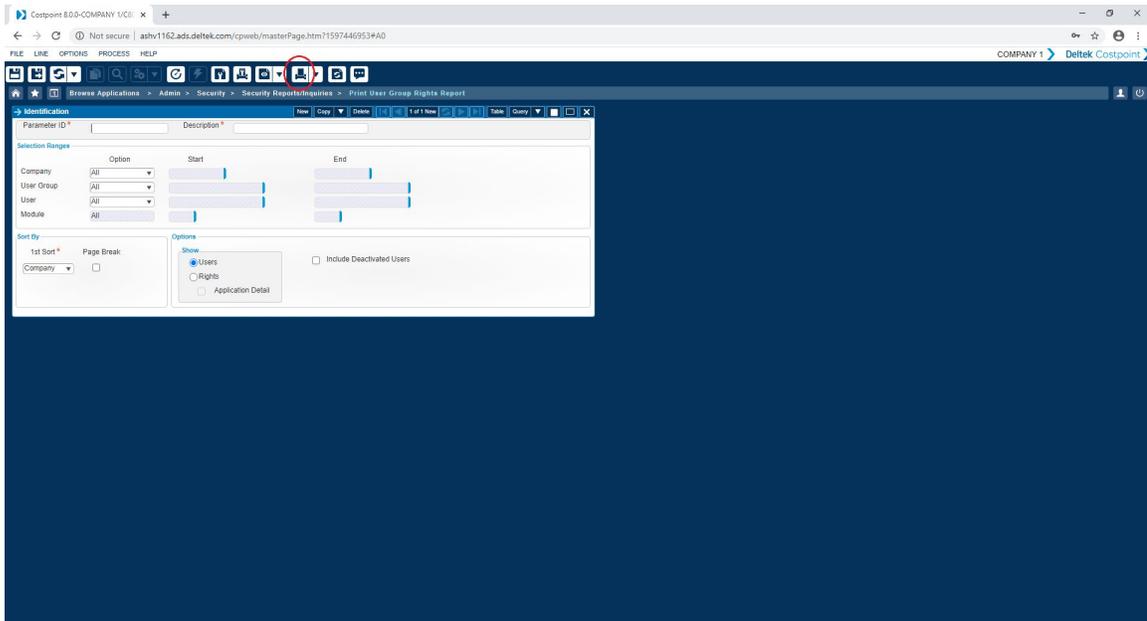
Costpoint 8.2 Initial Log In Configuration



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, 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”.

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

For a list of all documentation included with the Costpoint 8.2 release, see the [Related Documentation](#) section.

Deltek strongly recommends that you change the password for your CPSUPERUSER. For instructions, see the [Change CPSUPERUSER User’s Password](#) section.

## Deploy Costpoint as a Progressive Web App

A Progressive Web App (PWA) is a web application that uses a set of technologies to incorporate the features 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 set of capabilities regardless of the device. For example, if your company configured SAML or FIDO authentication for desktops, that authentication will work on mobile devices as well, with no extra steps, additional deployment, or configuration necessary. If you developed an Extension, that Extension will work on a desktop, tablet, or phone. If your users access Costpoint from your company Azure portal using SSO, then Costpoint will work on a laptop or phone, as well.

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, Costpoint PWAs on mobile devices provide 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 that employees should use to download applications (for example, using a MobileIron store), a PWA application can be published in your company store.
- Your IT team has full control over the version of Costpoint used by your employees, including the PWA application deployed to user devices. When your company IT team or the Deltek Cloud team deploys updates to Costpoint, the PWA applications on user devices are refreshed 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 steps outlined below not only creates 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 the Google Play store.

## Deploy the Costpoint PWA on an Android Device

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

### To deploy the 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 the 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 the Costpoint PWA on an iPhone or iPad

### To deploy the Costpoint PWA on an iPhone or iPad:

1. On your iPhone or iPad, open the Costpoint Login page in the Safari browser.
2. Tap the **Share** button in Safari.

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 the 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, such as 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 the 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 instructions in the **DeltekCostpoint82MaintenanceReleaseInstallation.pdf** installation document to install the latest Costpoint 8.2 maintenance release (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
    createLinkUser.bat_CP_ADMIN.log
    OracleNewAdminDatabaseSetup82.bat.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_SYSTEM
    createLinkUser.bat_CP_SYSTEM.log
    OracleNewSystemDatabaseSetup82.bat.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_TRANS
    createLinkUser.bat_CP_TRANS.log
    OracleNewTransactionDatabaseSetup82.bat.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\PL_TRANS
    createLinkUser.bat.log
    CreatePLUserInCPTran.bat.log
    CreatePLUserInTETran.bat.log
    OracleNewPLDatabaseSetup82.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\TE_TRANS
    createLinkUser.bat_TE_TRANS.log
    CreateTEUserInCPTran.bat_TE_TRANS.log
    OracleNewTEDatabaseSetup82.bat.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\XA_TRANS
    MSDTC.log
C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\InstallerLogArchive
```

Log Name	Description	What to Look For
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer</b>		
<b>DBTier_Install.log</b>	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.
<b>DBTier_Install_SummaryResults.log</b>	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.
<b>DBTier_Install_ErrorSummaryResults.log</b>	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.
<b>DatabaseSteps.txt</b>		
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_ADMIN</b>		
<b>createLinkUser.bat_CP_ADMIN.log</b>	Results of creating CPLINK_USER in CPADMIN schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>OracleNewAdminDatabaseSetup82.bat.log</b>	Detailed results for setting up the CPADMIN user and schema.	Will show any issues or \$DBSUCCESS=TRUE at the end of the log file.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_SYSTEM</b>		
<b>createLinkUser.bat_CP_SYSTEM.log</b>	Results of creating CPLINK_USER in CPSYSTEM schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>OracleNewSystemDatabaseSetup82.bat.log</b>	Detailed results for setting up the CPSYSTEM user and schema.	Will show any issues or \$DBSUCCESS=TRUE at the end of the log file.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\CP_TRANS</b>		
<b>createLinkUser.bat_CP_TRANS.log</b>	Results of creating CPLINK_USER in CPTRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.

Log Name	Description	What to Look For
<b>OracleNewTransactionDatabaseSetup82.bat.log</b>	Detailed results for setting up the CPTRANS user and schema.	Will show any issues or \$DBSUCCESS=TRUE at the end of the log file.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\PL_TRANS</b>		
<b>createLinkUser.bat.log</b>	Results of creating CPLINK_USER in TETRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>CreatePLUserInCPTran.bat.log</b>	Results of creating PLTRANS user in CPTRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>CreatePLUserInTETran.bat.log</b>	Results of creating PLTRANS user in TETRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>OracleNewPLDatabaseSetup82.log</b>	Detailed results for setting up the PLTRANS user and schema.	Will show any issues or \$DBSUCCESS=TRUE at the end of the log file.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\TE_TRANS</b>		
<b>createLinkUser.bat_TE_TRANS.log</b>	Results of creating CPLINK_USER in CPTRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>CreateTEUserInCPTran.bat_TE_TRANS.log</b>	Results of creating TETRANS user in CPTRANS schema.	Will show any issues, that it completed successfully, or that the login already exists.
<b>OracleNewTEDatabaseSetup82.bat.log</b>	Detailed results for setting up the TETRANS user and schema.	Will show any issues or \$DBSUCCESS=TRUE at the end of the log file.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\XA_TRANS</b>		
<b>MSDTC.log</b>	Results of restating the Distributed Transaction Coordinator.	Will show any issues or that it completed successfully.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\DBTier_Installer\InstallerLogArchive</b>		
	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

Application 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
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer</b>		
<b>AppTier_Install.log</b>	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.
<b>AppTier_Install_SummaryResults.log</b>	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
<b>AppTier_Install_ErrorSummaryResults.log</b>	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.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\APIS</b>		
<b>applyLicense_&lt;name of license zip file&gt;.log</b>	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.
<b>applyLicense_&lt;name of license zip file&gt;result.log</b>	Results of applying your license file.	Will show 1 if successful or 0 if there were issues.
<b>linkViews.log</b>	Log file containing details of Link Views process.	Will show error details if any at bottom.
<b>linkViewsResultCode.log</b>	Results of applying link views.	Will show 1 if successful or 0 if there were issues.
<b>OrgSecByApplMod.log</b>	Log file containing details of populating the Org Security Tables.	Will show error details if any at bottom.
<b>OrgSecByApplModResult.log</b>	Results of populating the Org Security Tables.	Will show 1 if successful or 0 if there were issues.
<b>syncSysSettingsTable.log</b>	Log file containing details of syncing the System Settings Tables.	Will show error details if any at bottom.
<b>syncSysSettingsTableResultCode.log</b>	Results of syncing System Settings Tables.	Will show 1 if successful or 0 if there were issues.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\AppTier_Installer\InstallerLogArchive</b>		
	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
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer</b>		
<b>DeltekCostpointWebTierSetup.log</b>	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.
<b>WebTier_Setup_SummaryResults.log</b>	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.
<b>WebTier_Setup_ErrorSummaryResults.log</b>	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.
<b>C:\Program Files\Deltek\Costpoint\8.2\Logs\WebTier_Installer\InstallerLogArchive</b>		
	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

This section details the following methods to start and stop your Costpoint 8.2 WebLogic Server:

- 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

This section details the steps that you complete to start your Costpoint 8.2 WebLogic Server as a Windows service.

You must complete these steps 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, the Costpoint 8.2 service takes several minutes 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

This section details the steps that you complete to start your Costpoint 8.2 WebLogic Server from the Windows Start menu.

You must complete these steps 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**, select **Search**, 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 that you use the **Run as Administrator** option when launching this command even if you have local administrative rights.

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, a series of messages scroll down the screen.

The Costpoint 8.2 WebLogic Server takes several minutes 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 indicating that the process completed successfully, or the command line shell (DOS window) terminates, you should:
    - a. Make a copy of the C:\Deltek\Costpoint\82\logs\DEServer.log file.
    - b. Contact Deltek Costpoint Technical Support.

## Start the Costpoint 8.2 WebLogic Server from the Windows Command Prompt

This section details the steps that you complete to start your Costpoint 8.2 WebLogic Server from a Windows Command Prompt.

You must complete these steps 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
```

A series of messages scrolls 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 does not display and the command line shell (DOS window) may terminate.
2. If you do not receive the message indicating that the process completed successfully, or the command line shell (DOS window) terminates, you should:
    - a. Make a copy of the C:\Deltek\Costpoint\82\logs\DEServer.log file.
    - b. Contact Deltek Costpoint Technical Support.

## Stop the Costpoint 8.2 WebLogic Server as a Windows Service

This section details the steps that you complete to stop your Costpoint 8.2 WebLogic Server when it is running as a Windows service.

You must complete these steps 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

This section details the steps that you complete to stop your Costpoint 8.2 WebLogic Server from the WebLogic console.

You must complete these steps 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** (for example, **http://10.2.2.154:7009/console**).

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

Field Name	Action
<b>Username</b>	Enter <b>system</b> .
<b>Password</b>	Enter the password for the WebLogic Administrative user. The default password is <b>weblogic</b> .

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. When the Domain Life Cycle Assistant screen displays, click **Yes**.
9. Close the web browser.

## Change CPSUPERUSER User's Password

This section details the steps that you complete to change the CPSUPERUSER users password.

You can complete these steps 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**).

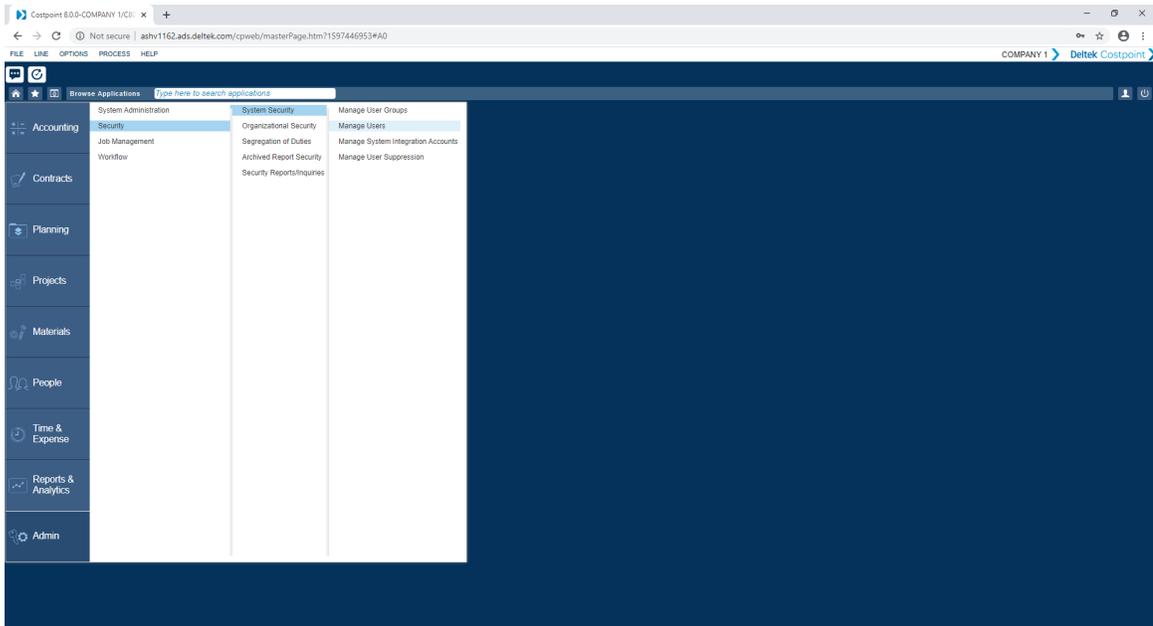
Or where <WebServerIPAddress or ComputerName> identifies your Costpoint 8.2 IIS Web server (for example, **http://10.2.2.156/cpweb**).

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

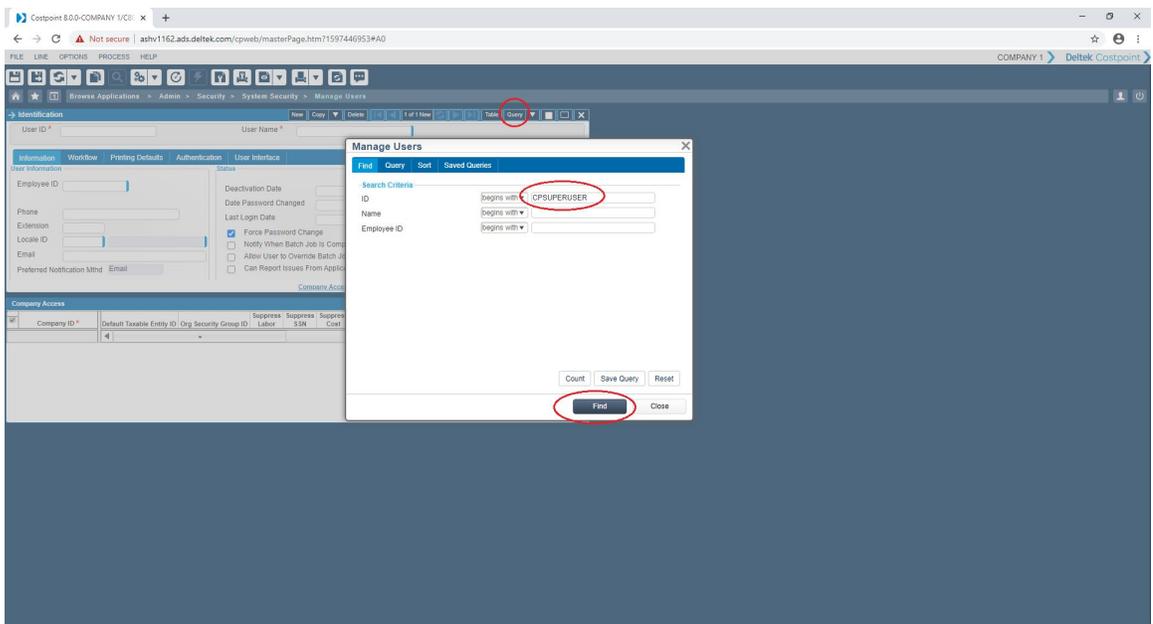
Field Name	Action
<b>Username</b>	Enter <b>CPSUPERUSER</b> .
<b>Password</b>	Enter the password for the CPSUPERUSER user. The default is <b>password</b> .
<b>System</b>	Enter <b>&lt;Your_System_Name&gt;</b> , where <b>&lt;Your_System_Name&gt;</b> identifies the system name you assigned to your Costpoint 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.
<b>SHOW ADDITIONAL CRITERIA</b>	Click <b>+</b> to display these additional fields: <ul style="list-style-type: none"> <li>▪ <b>Application:</b> Accept the blank default value or enter a specific Costpoint 8.2 application. For example, <b>COSTPOINT MENU</b>.</li> <li>▪ <b>Company:</b> Enter your company ID. For example, <b>1</b>.</li> <li>▪ <b>Validation Frequency:</b> Accept the default drop-down value, <b>Field</b>. After you successfully log in to Costpoint 8.2, review the online help for a detailed explanation of the values that you can select for this field.</li> </ul>
<b>Remember log in information</b>	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**.

Post-Installation Configuration

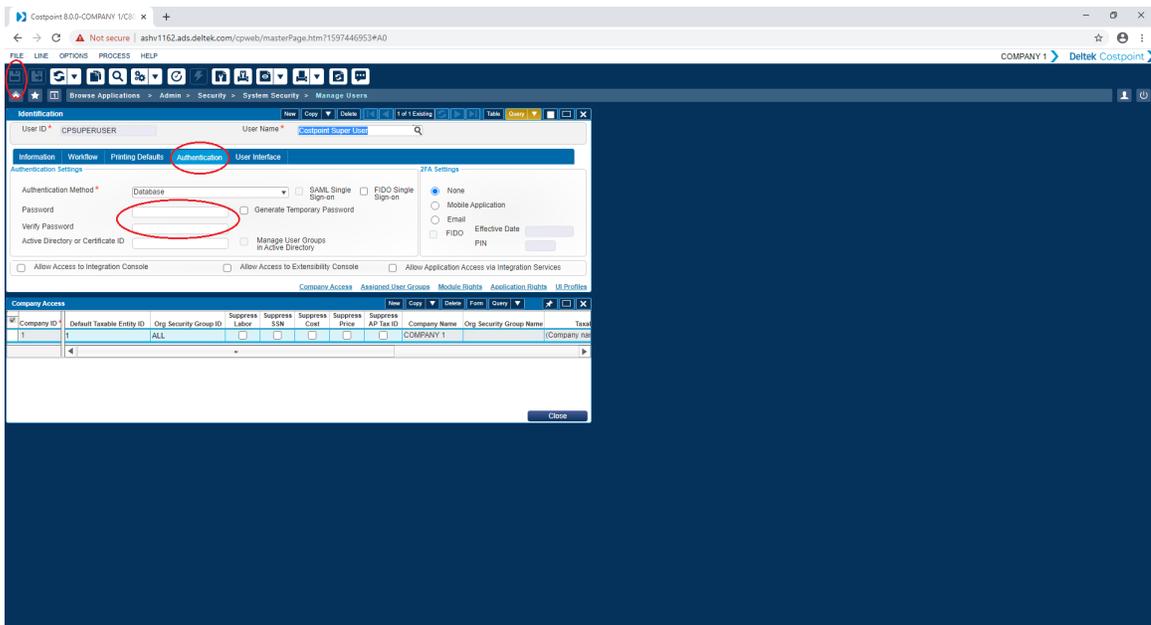


5. On the Manage Users screen, click **Query**.



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

Post-Installation Configuration



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

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

- Click **Save**.
- After the confirmation message is displayed at the bottom of the screen, click **File » Close Application** to close the Enter/Manage Users screen.
- Click **File » Log-out** to exit Costpoint 8.2.
- Close your web browser.
- 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
<b>Username</b>	Enter <b>CPSUPERUSER</b>
<b>Password</b>	Enter the CPSUPERUSER user's password. The default is <b>password</b> .
<b>System</b>	Enter <b>&lt;Your_System_Name&gt;</b> , where <b>&lt;Your_System_Name&gt;</b> 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.
<b>SHOW ADDITIONAL CRITERIA</b>	Click <b>+</b> to display these additional fields: <ul style="list-style-type: none"> <li>▪ <b>Application:</b> Accept the blank default value or enter a specific Costpoint 8.2 application. For example, <b>COSTPOINT MENU</b>.</li> <li>▪ <b>Company:</b> Enter your company ID. For example, <b>1</b>.</li> <li>▪ <b>Validation Frequency:</b> Accept the default drop-down value, <b>Field</b>. After you successfully log in to Costpoint 8.2, review the online help for a detailed explanation of the values that you can select for this field.</li> </ul>
<b>Remember log in information</b>	Select this checkbox to have the system remember your login information. It is selected by default.

14. Click **Log In**.

You may 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 can 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](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](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.

## Adding New Oracle Costpoint Systems to Existing Application Tier

**Note:** This section is only applicable if you use the Costpoint 8.2 New Database Tier installer to create new Costpoint 8.2 schemas.

This section does **not** apply if you are **not** licensed to use Time and Expense, Planning, or both.

### To add a brand new Costpoint 8.2 system on Oracle RDBMS to an existing Application Tier:

1. Execute the Costpoint 8.2 Database Tier installer and create your Costpoint 8.2 schemas.
2. Add the new Costpoint 8.2 system through the **Costpoint 8.2 Config Utility**. Include Time & Expense and Planning schemas when creating the Costpoint system if you are licensed to use them.
3. Execute **Link-Views** using the **Costpoint 8.2 DBWizard**.
4. Apply your Costpoint/Time & Expense/Planning license(s) to the new system using the **Costpoint 8.2 DBWizard, Apply License** option.
5. Execute **Link-Views** using the **Costpoint 8.2 DBWizard**.
6. Execute and compile invalid objects in your Time and Expense schema.

Deltek provides a script called CompileSchemaObjectsAfterLinkViews.sql, which is packaged and available under your DB Tier Time & Expense installation folder.

**C:\Deltek\Costpoint\82\Database\Scripts\ORACLE\TE\_TRANSACTION\Scripts\CompileSchemaObjectsAfterLinkViews.sql**

- Execute and compile invalid objects in your Planning schema.

Deltek provides a script called `CompileSchemaObjectsAfterLinkViews.sql`. This script is packaged and available under your DB Tier Planning installation folder.

**C:\Deltek\Costpoint\82\Database\Scripts\ORACLE\PL\_TRANSACTION\Scripts\CompileSchemaObjectsAfterLinkViews.sql**

## Download the Latest Installer Files

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

### To display the currently supported switches:

- Open Command Prompt in Administrator Mode
- Navigate to the directory where the installer is located
- Enter the following: **DeltekCostpoint82DatabaseTier\_Buildxx.exe /?**

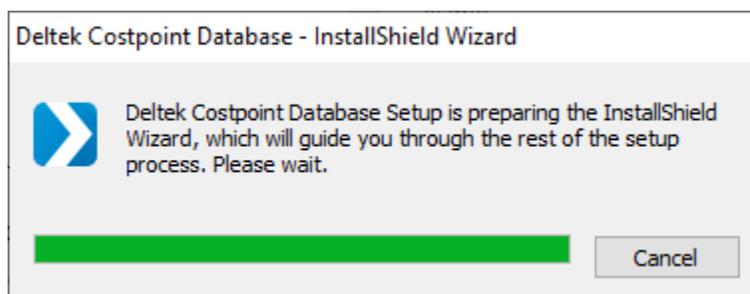
This section details the instructions that you complete to download the latest Costpoint 8.2 Database upgrade and the `DeltekCostpoint82RequirementsINI` files. If your servers have internet access, each installer will automatically download the applicable files. If your servers do not have Internet access, you must run this step for each installer.

You must complete these steps on any machine that has Internet access.

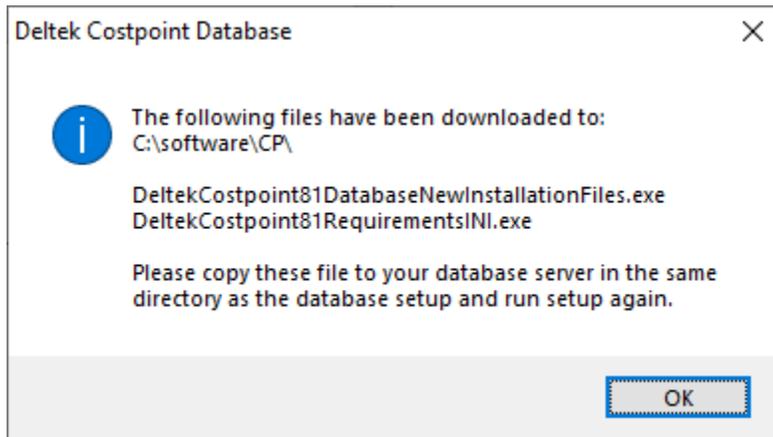
### To download the required upgrade files:

- 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 you receive a message similar to the following, click **OK**.



3. Copy the downloaded **DeltekCostpoint82DatabaseNewInstallationFiles.exe/ DeltekCostpoint82RequirementsINI.exe** file(s) to your server, in the same folder as your '.exe' installer file.

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## About Deltek

Better software means better projects. Deltek delivers software and information solutions that enable superior levels of project intelligence, management and collaboration. Our industry-focused expertise makes your projects successful and helps you achieve performance that maximizes productivity and revenue. [www.deltek.com](http://www.deltek.com)