



Project Cost New System Installation Guide

For:
Microsoft Dynamics™ GP

Version
14.02/16.02



PROJECT COST BY OLYMPIC SYSTEMS, INC.

New System Installation Guide

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Introduction

Welcome to Olympic Systems' Project Cost system, a comprehensive project cost management system for Microsoft Dynamics - GP accounting systems. Olympic Project Cost is composed of a series of modules and browser based web applications that focus on managing, recording and reporting of project cost.

Our goal was to build a fully integrated cost accounting extension to that would be Easy to Use, Easy to Understand and Easy to Manage.

Our Project Cost system integrates with Microsoft Dynamics GP's System Manager. Additionally, Project Cost extends functionality to the following Modules:

- General Ledger
- Payables Management
- Receivable Management
- Payroll
- Sales Order Processing
- Inventory Control
- Purchase Order Processing
- SmartList

Operational Notes for Project Cost

- **Version Upgrades Must be Completed in Succession**

Because Olympic Systems is actively developing new features and improving functionality of Project Cost – Table changes are common in our version releases. Olympic Systems builds update utilities into each version upgrade which are designed to handle these table changes.

Skipping over a version will cause data corruption and create unnecessary and costly recovery process.

Please follow the instructions in the Version Upgrade Installation Guide which is available by download on our partner web site.

- **Module Compatibility**

Project Cost is compatible with most modules which are compliant with the “Best Practice” principals prescribed by Microsoft. Project Cost programs with these principals and has passed the Certified for Microsoft Dynamics-GP testing.

A list of known compatible ISV products is available on our website at:

<http://www.projectcost.net/isvpartnerproducts.aspx>

Known product conflicts:

- GP PO Enhancements
- GP HPR – Position Control Module
- GP Intercompany – Project Transactions Only
- GP Project Accounting
- GP Revenue/Expense Deferrals
- GP Service Management including RMA Module
- Binary Stream Products

- **Purchase Tax Compatibility**

Project Cost is compatible with Purchase Taxes based on “Percent of Sale/Purchase.”

For organizations that require Canadian GST – Please see our information on Support of Canadian GST Taxes.

- **Recording Quantity or Unit Price with 3 or more decimals**

If planning to use 3 or more decimal places for T&E transactions- be sure to have SOP options set to handle the desired number of decimal places.

Microsoft Dynamics GP >> Tools >> Setup >> Sales >> Sales Order Processing

Then set the Decimal Places for Non-Inventory Items.

Project Cost data is stored within the Microsoft Dynamics GP database.

We recommend that the user follows all maintenance procedures recommended by Microsoft for the Microsoft Dynamics GP System.

No special backup or restore procedures are needed above those normally used by the Microsoft Dynamics GP System.

The following table lists additional resources that may need to be included in your maintenance plan:

Item	Items to back up
PCFRMS.dic	If Project Cost windows have been customized using the Modifier, back up the PCFRMS.dic when you install it, or monthly if you use the Modifier to make additional customizations.
PCRPTS.dic	If you use Report Writer to modify or create reports, back up the PCRPTS.dic file monthly as part of your system backups, or more frequently as changes are made.

Extensibility & Customization

Project Cost uses the Microsoft Dynamics GP architecture Dexterity customization and extension capabilities.

For more information about extending or customizing Project Cost please contact our office or refer to one of the following resources:

- Microsoft Dynamics GP Integration Guide
- Microsoft Dynamics GP Modifier User Guide
- Microsoft Dynamics GP VBA Developer's Guide

Windows Requiring Special Access

In order to enhance security and control to sensitive areas of our application - Project Cost requires that the user enter the System Password (if activated) and/or access the window as a system administrator.

Window Name	System Password Required	System Administrator
PC SQL Maintenance	Yes	DYNSA or sa
PC System Setup	Yes	No
PC Project Audit	Yes	No
PC Task Audit	Yes	No
PC Transaction Audit	Yes	No

Prerequisite Software and Settings

Before you can install the Project Cost software, you must complete the installation of Microsoft Dynamics GP and depending on the options selected; users may also need to install Internet Information Services (IIS) and ASP.NET.

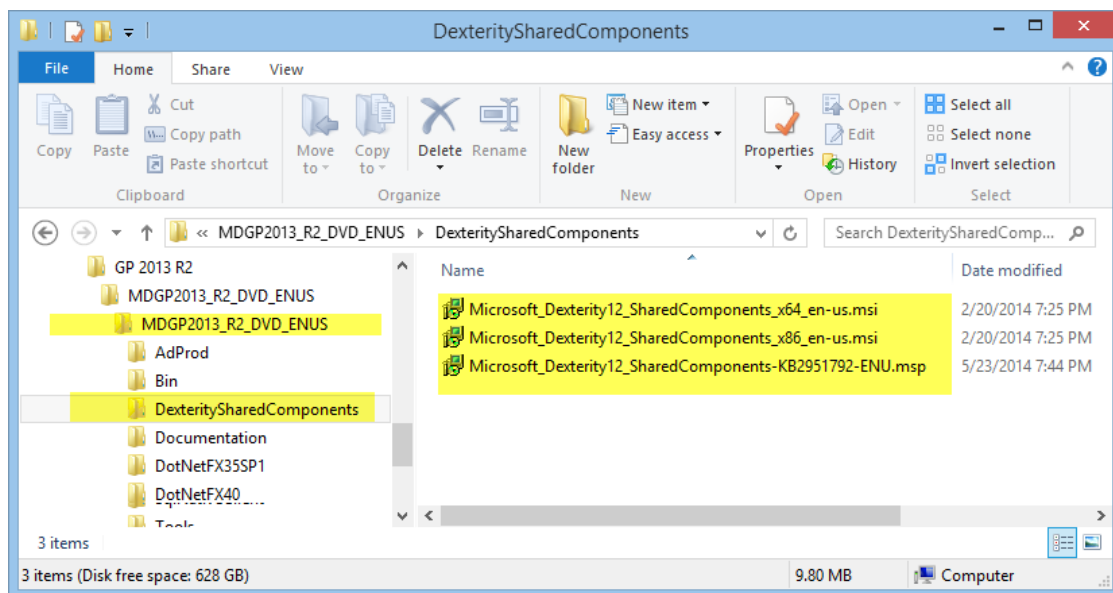
Project Cost is dependent on users having specific features setup in Dynamics GP. Please review the PC Basic Setup Requirements for Project Cost.pdf that is available for download from the Project Cost Partner Site.

Dexterity Shared Components

The Project Cost Web-Based Time & Expense Entry and Management Approval Tools require installation of the Dexterity Shared Components on the server running Internet Information Services (IIS) tools.

Microsoft Dynamics GP installs these Components automatically when the GP client software is installed, however, if the IIS tools are deployed on a separate server (such as a dedicated web server) you must manually install the Dexterity Shared Components.

Dexterity Shared Components are available on the installation software media package. Select the correct MSI for the server's Operating System and follow the install wizard.



Microsoft .NET Framework 4.5.2

The Project Cost Web-Based Time & Expense Entry and Management Approval Tools require installation of Internet Information Services (IIS) tools. This requires the latest update to Microsoft .NET Framework (as of this printing it is Microsoft .NET Framework 4.5.2). Download this from Microsoft's download site. <http://www.microsoft.com/en-us/download/details.aspx?id=42643>

Each version of Windows has different installation and setup procedures – You should work with you IT staff for the best options to be selected for your business operations.

SQL Server Configuration Settings GP for Project Cost

Set SQL Server Network Configuration Settings

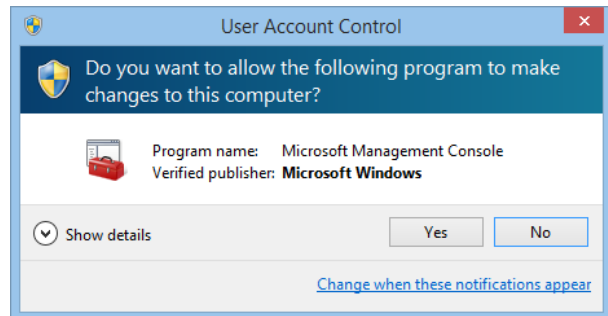
Project Cost requires that the SQL Server Networks Configuration Settings be set to allow TCP/IP connections.

Start the SQL Server Configuration Manager

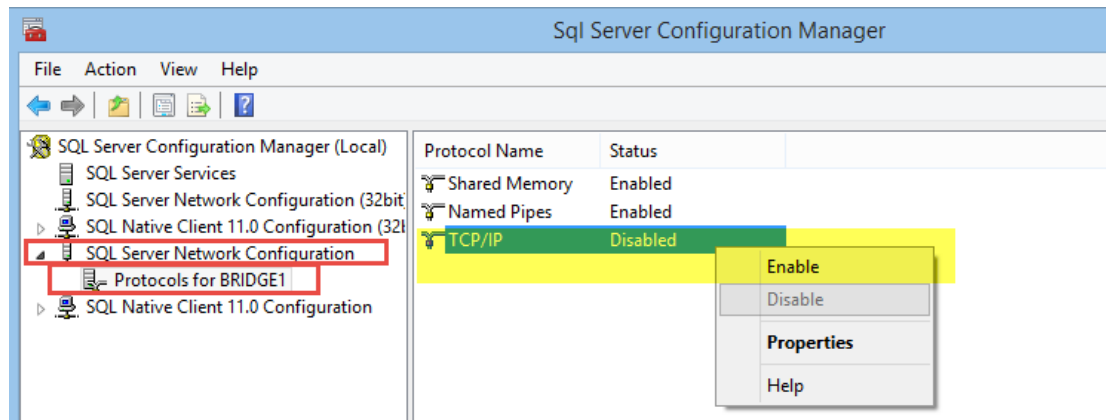
Start >> Programs >> Microsoft SQL Server (version) >> Configuration Tools >> SQL Server Configuration Manager

Right Click on SQL Server Configuration Manager and select Run As Administrator

Depending on your User Account Control settings you may receive a warning message – Click Yes and proceed



In the Sql Server Configuration Manager window – expand SQL Server Network Configuration

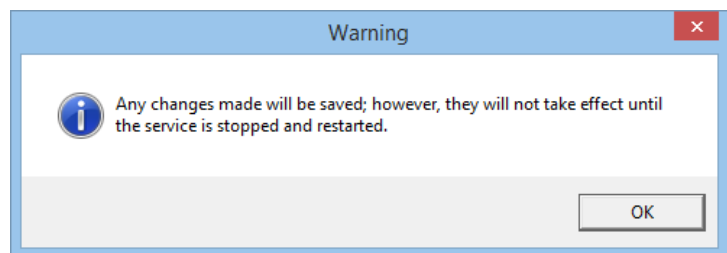


Click on Protocols for [your SQL Server name]

Note: your server may have more than one instance of SQL

Right Click on the Protocol Name: TCP/IP

Select Enable



Restart SQL Server to apply the setting change.

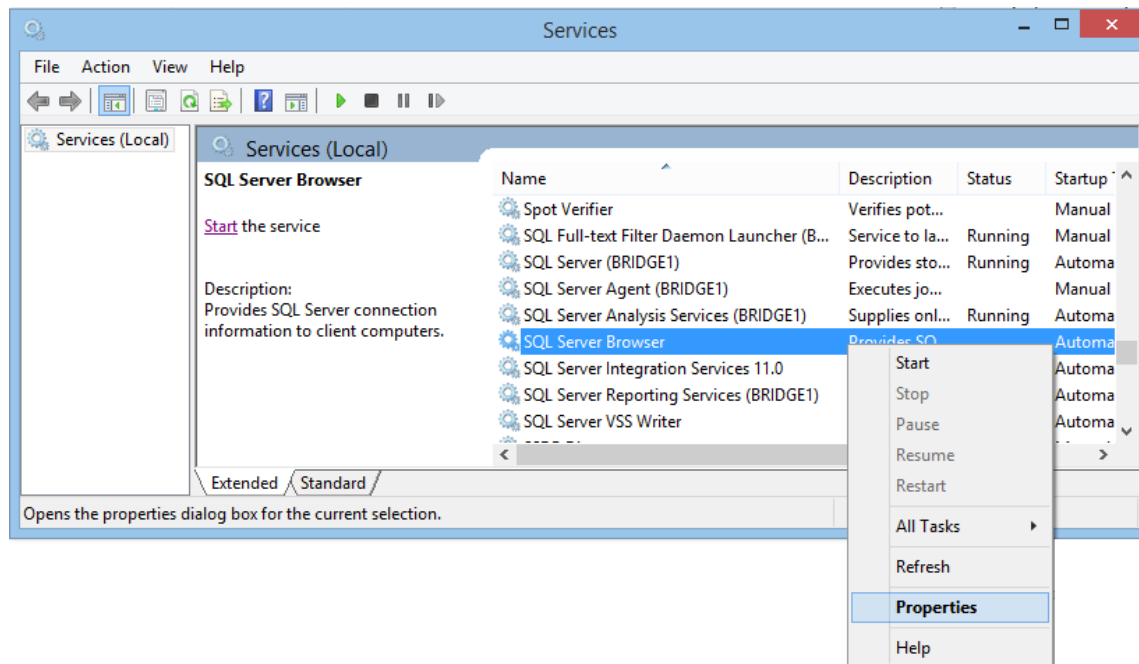
Set SQL Server Browser Service Settings

Project Cost requires that the SQL Server Browser service is running and set to run automatically when using any of our Web based tools.

Start the Services Manager window

Start >> Control Panel >> Administrative Tools >> Services

Scroll down to find the SQL Server Browser service
Right-Click on the Service and select Properties

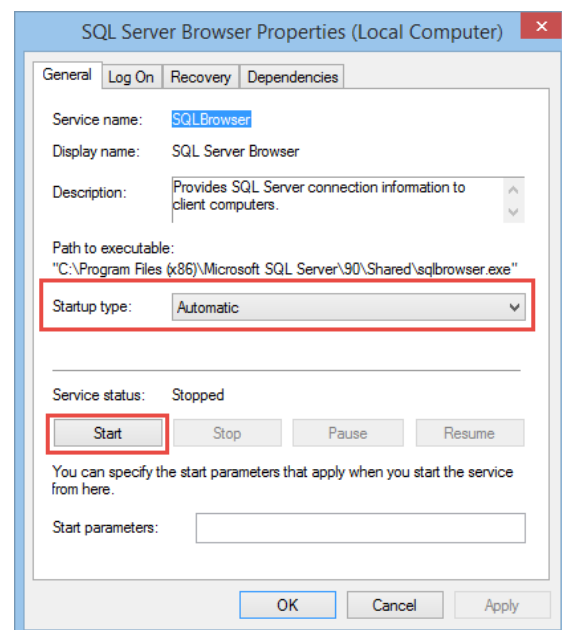


In the SQL Server Browser Properties window

Set the Startup Type to Automatic

Click the Start button

After the service is started Click the Ok button



Set SQL Server Agent Service Settings

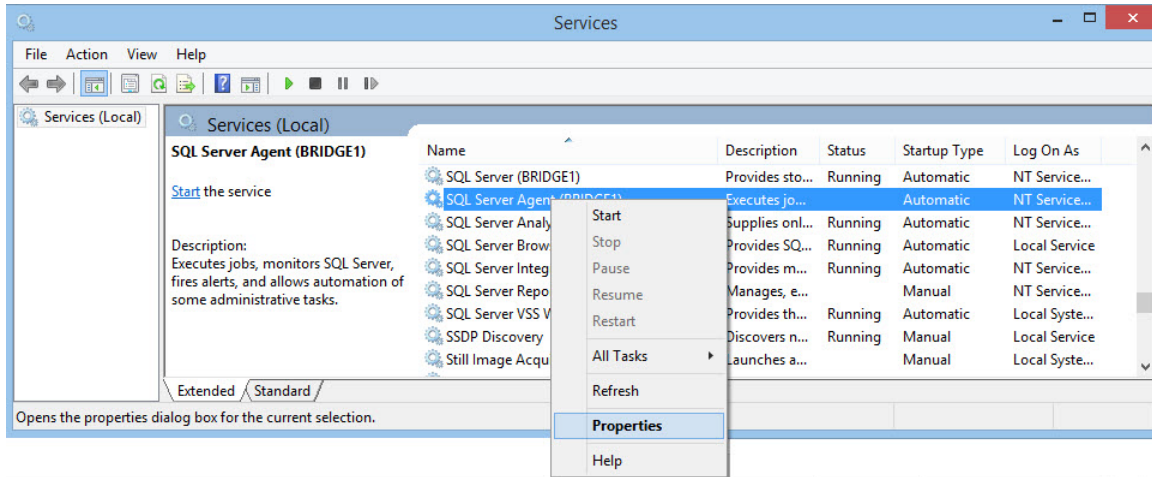
Project Cost requires that the SQL Server Agent service is running and set to run automatically.

Start the Services Manager window

Start >> Control Panel >> Administrative Tools >> Services

Scroll down to find the SQL Server Agent service

Right-Click on the Service and select Properties

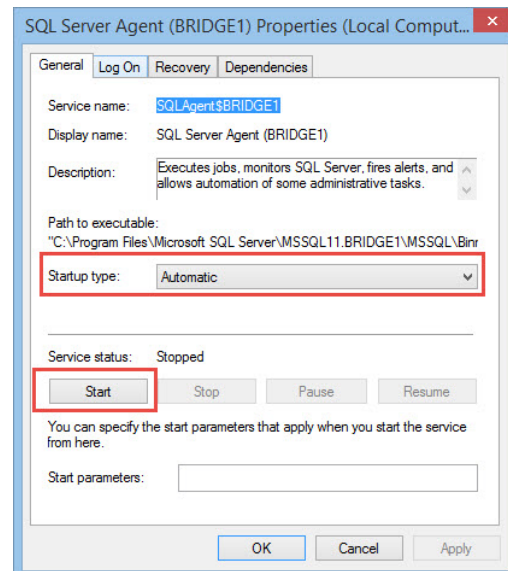


In the SQL Server Agent Properties window

Set the Startup Type to Automatic

Click the Start button

After the service is started Click the Ok button

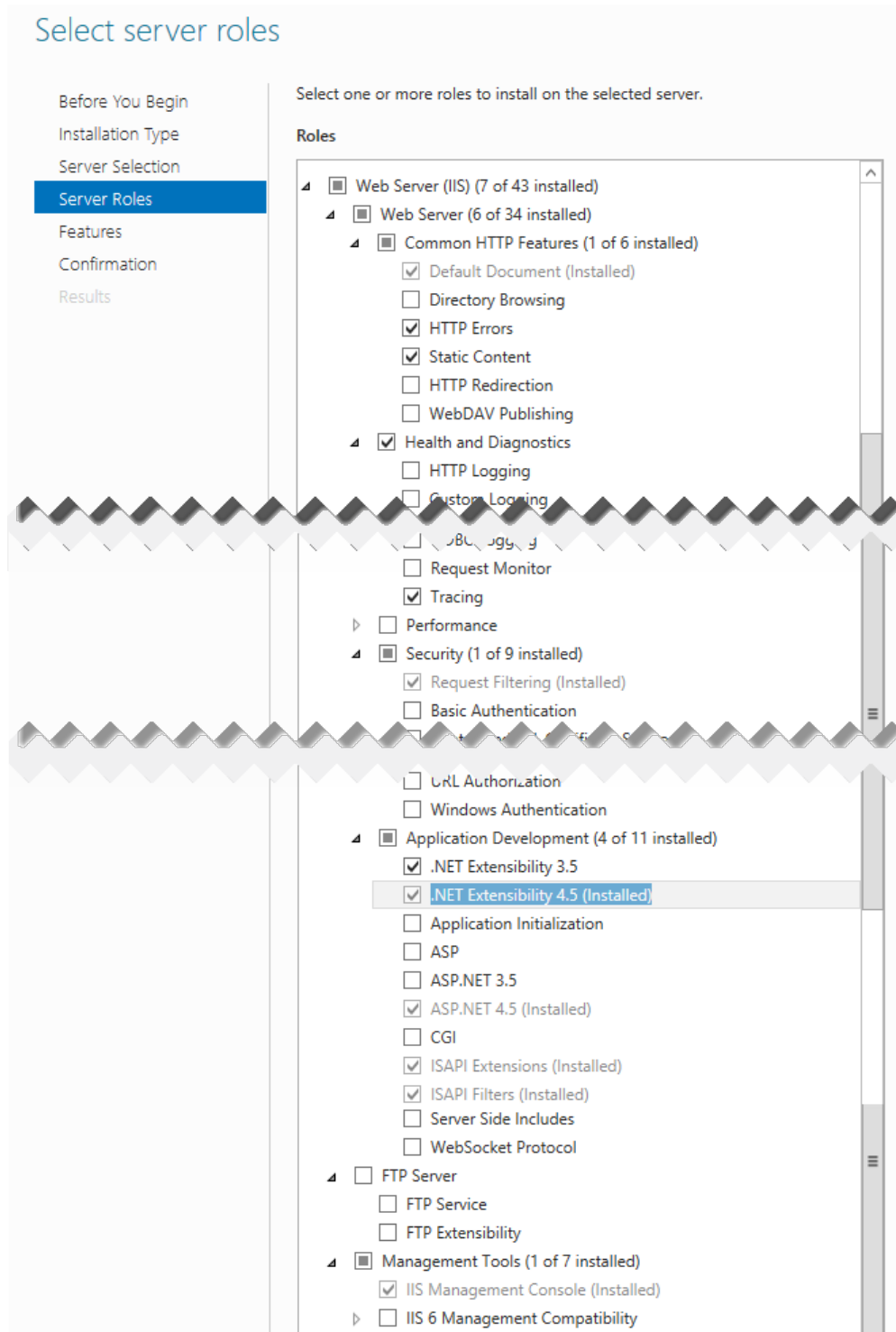


Setup for Internet Information Services (IIS) for Project Cost

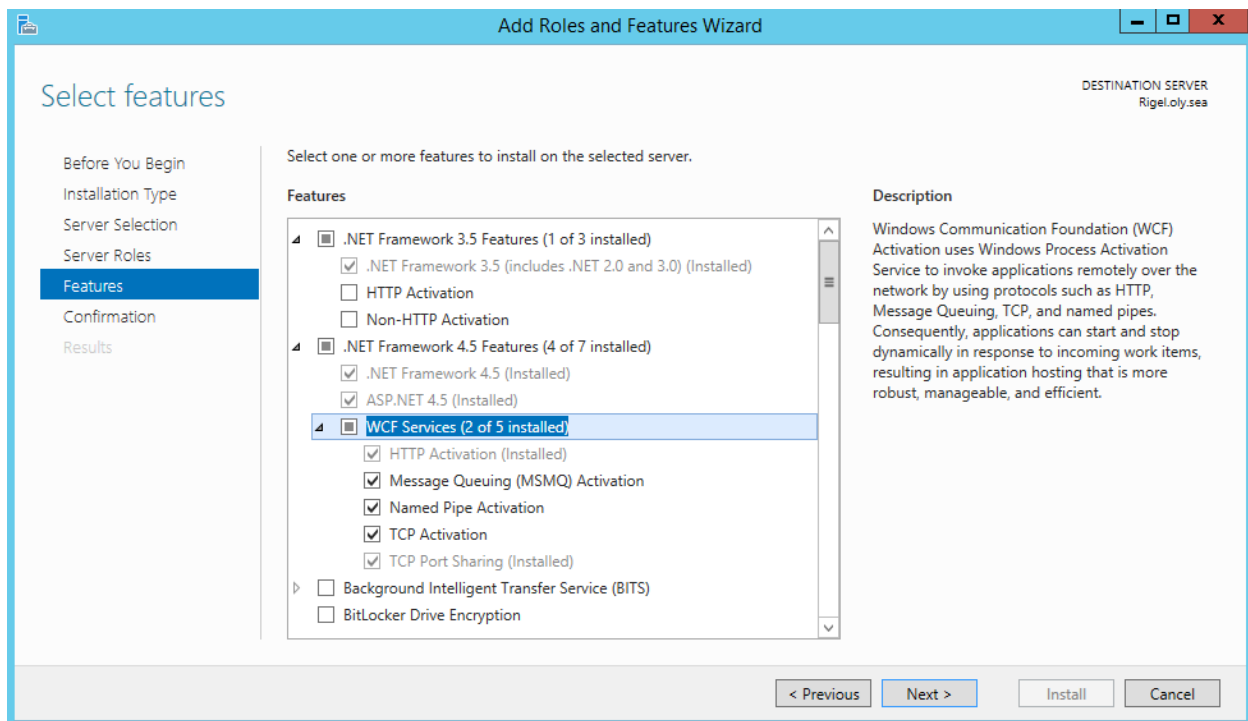
The Project Cost Web-Based Time & Expense Entry and Management Approval Tools require installation of Internet Information Services (IIS) tools. Each version of Windows has different installation and setup procedures – You should work with you IT staff for the best options to be selected for your business operations.

Below are the IIS Roles and Role Services options available to activate in IIS. We have highlighted the options needed by Project Cost. Additional instructions and resources are available to assist in configuration and deployment of IIS for Project Cost - contact your GP partner or our office for assistance.

IIS Roles/Role Services/Role Features



Required?	Role/Role Service
	Web Server (IIS)
	Web Server
	Common HTTP Features
Yes	Default Document
No	Directory Browsing
Yes	HTTP Errors
Yes	Static Content
No	HTTP Redirection
No	WebDAV Publishing
	Health and Diagnostics
No	HTTP Logging
No	Custom Logging
No	Logging Tools
No	ODBC Logging
No	Request Monitor
Yes	Tracing
	Performance Features
No	Static Content Compression
No	Dynamic Content Compression
	Security Features
No	Basic Authentication
For Single Sign On	Windows Authentication
No	Digest Authentication
No	Client Certificate Mapping Authentication
No	IIS Client Certificate Mapping Authentication
No	URL Authorization
Yes	Request Filtering
No	IP Security
	Application Development Features
Yes	.NET Extensibility 3.5
Yes	.NET Extensibility 4.5
No	Application Initialization
Yes	ASP
Yes	ASP.NET 3.5
Yes	ASP.NET 4.5
No	CGI
Yes	ISAPI Extensions
Yes	ISAPI Filters
No	Server-Side Includes
No	WebSocket Protocol
	File Transfer Protocol (FTP) Server
No	FTP Server
	Management Tools
Yes	IIS Management Console



Required?	Features
	.NET Framework 3.5 Features
Yes	.NET Framework 3.5 (includes 2.0 & 3.0)
No	HTTP Activation
No	Non-HTTP Activation
	.NET Framework 4.5 Features
Yes	.NET Framework 4.5
Yes	ASP.NET 4.5
	WCF Services
Yes	HTTP Activation
Yes	Message Queuing Activation
Yes	Named Pip Activation
Yes	TCP Activation
Yes	TCP Port Sharing

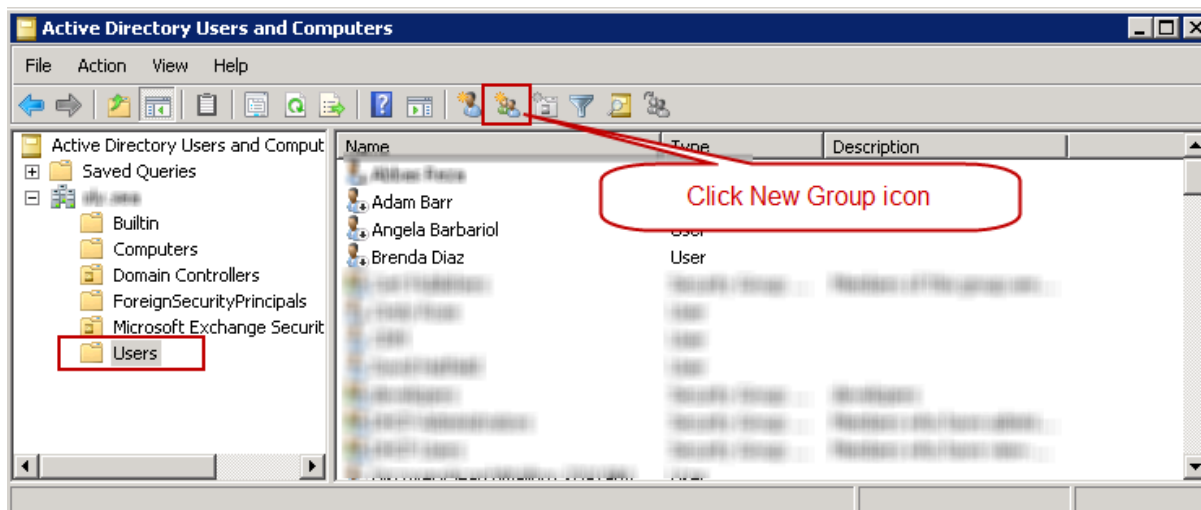
Setup for Active Directory Single-Sign-On Authentication for PC Website

The Project Cost Web-Based Time & Expense Entry and Management Approval Tools have 2 methods of Sign-On Authentication – 1) Project Cost Sign-On and 2) Active Directory Single-Sign-On.

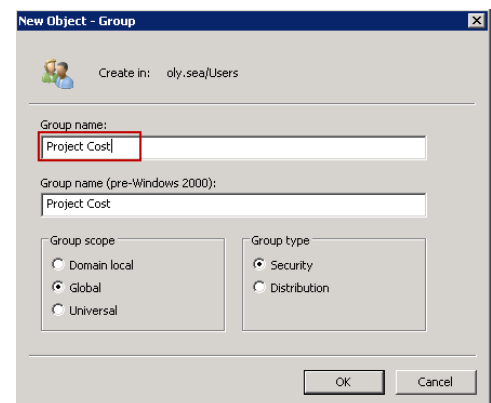
Project Cost Single Sign On uses an Active Directory User Group to filter users for access to Project Cost Website. The IT or Network Administrator must setup an Active Directory Security Group with the Users that will be using Project Cost Web Suite.

Add Active Directory Group

1. Click **Start > Programs > Windows Administrative Tools > click Active Directory Users and Computers**.
2. In Active Directory Users and Computers window, expand <domain name>.com
3. In the console tree, right-click the folder in which you want to add a new group.

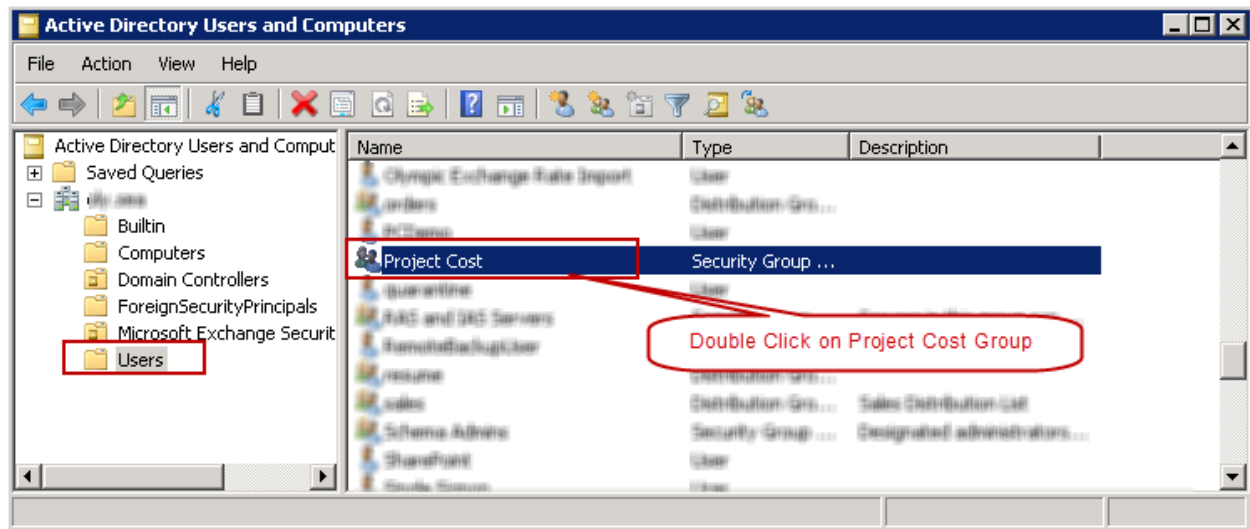


4. Click **New**, and then click **Group**.
5. Type "**Project Cost**" as the name of the new group.
6. In the **New Object - Group** dialog box, do the following:
 1. In **Group scope**, click **Global scope**.
 2. In **Group type**, click **Security**.
7. Click **OK**.

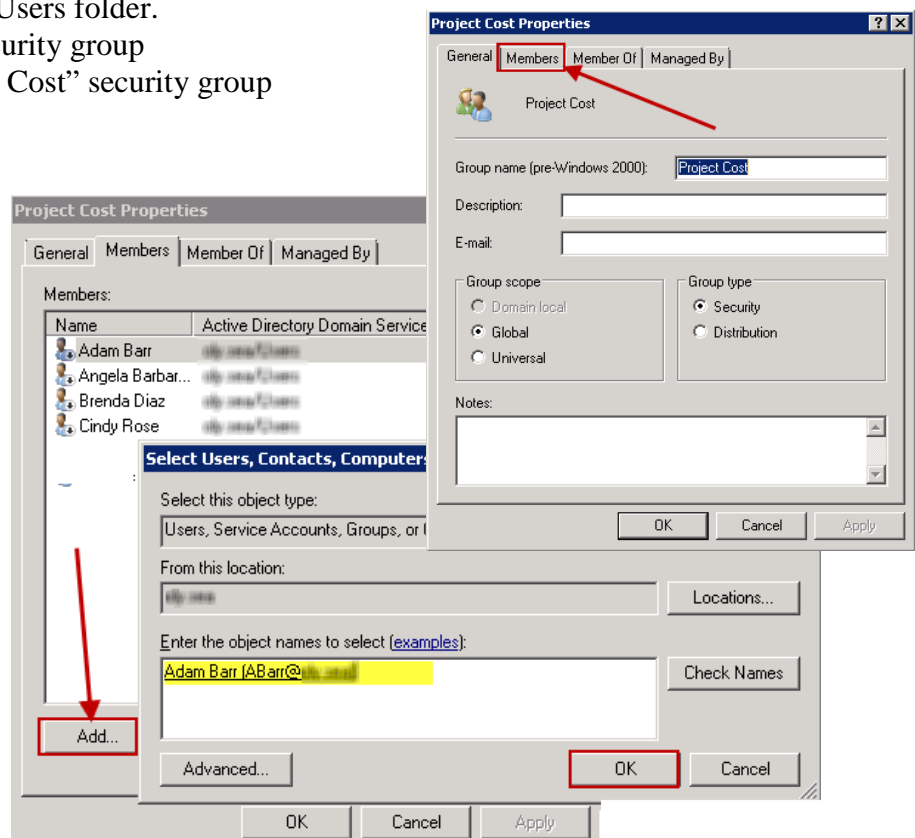


Add Members to Security Group

1. In Active Directory Users and Computers window, expand <domain name>.com



2. In the console tree, click the Users folder.
3. Locate the “Project Cost” security group
4. Double-Click on the “Project Cost” security group
5. Select the Members tab
6. Click Add
7. Add Users as needed
8. Click OK and save settings



Project Cost Install Process

Step 1. – BACK UP YOUR FILES

- **Back Up Dynamics Database**
- **Back Up All Company Databases**
- **Back Up Dynamics.set file**

Project Cost is downloaded as a compressed file from www.projectcost.net .

Extract the Project Cost installation files to a folder on the local client or server disk drive.

Step 2. Copy Files to the Root Client Directory - GP2015 or 2016

- PCMM#kxx.cnk (*MM*= major version number, *#*= minor version number & *xx* = service pack number)
- PC232.chm
- Application.ProjectCost.dll
- CsvHelper.dll
- Excel.dll
- ICSharpCode.SharpZipLib.dll
- OlympicSystems.Common.dll
- OlympicSystems.ProjectCost.AddIn.dll -- note this file is used for web client deployments
- OlympicSystems.ProjectCost.DexAssembly.dll
- OlympicSystems.ProjectCost.Dynamics.dll

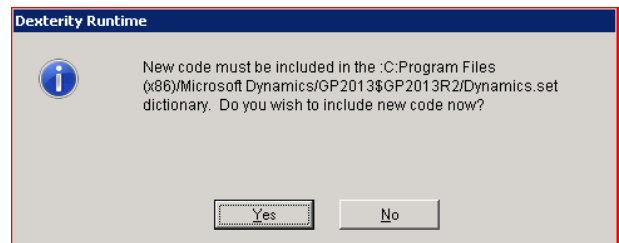
Step 4. – Copy Files to the AddIns Directory

- OlympicSystems.ProjectCost.AddIn.dll

Step 5. – Launch Microsoft Dynamics GP

Note: you should use the **"Run As Administrator"** option

(Accept the "Add New Code" if prompted)



Click Yes to proceed

Step 6. – Navigate to Project SQL Maintenance Window

Microsoft Dynamics GP >> Tools >> Utilities >> Project Cost >> SQL Maintenance

a. Select Tables

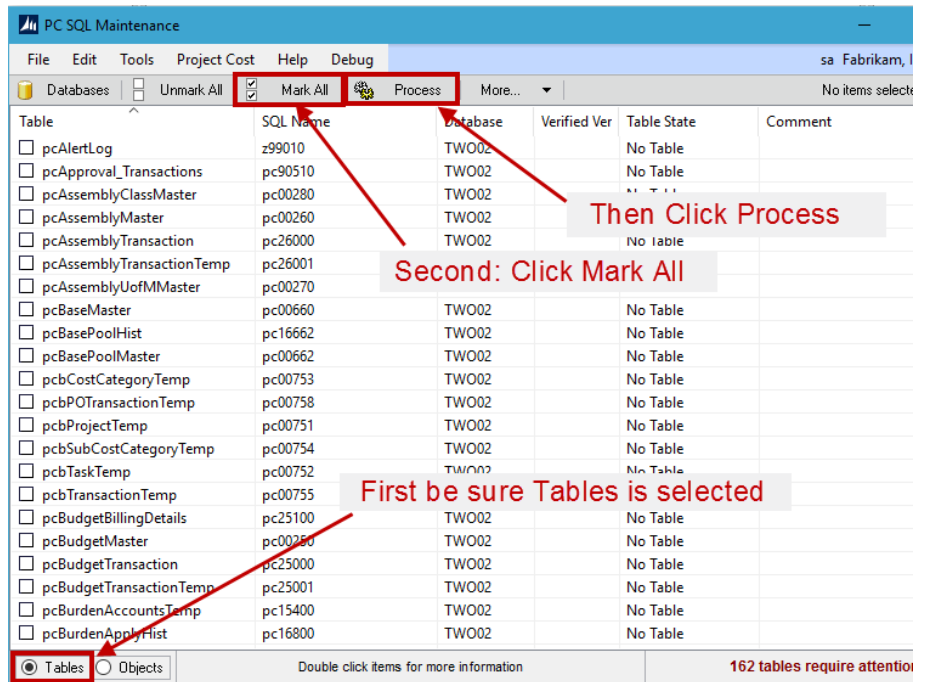
From the Radio Button option on the lower left corner of the SQL Maintenance Window.

- Click the Mark All Button.
- Click the Process Button.

Project Cost will select all the tables and create the tables, grant rights and set bindings defaults.

Review for errors – Contact Olympic Systems for assistance with any errors encountered

- Click the Back  Back Button.



Next

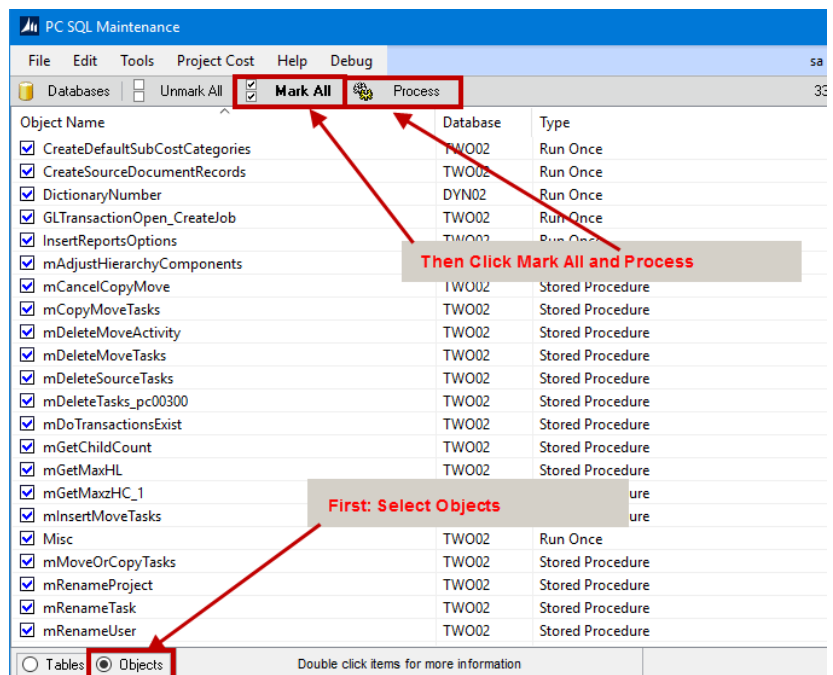
b. Select Objects

From Radio Button option on the lower left corner of the SQL Maintenance Window.

- Click the Mark All Button.
- Click the Process Button.

Project Cost will make the needed changes for processing.

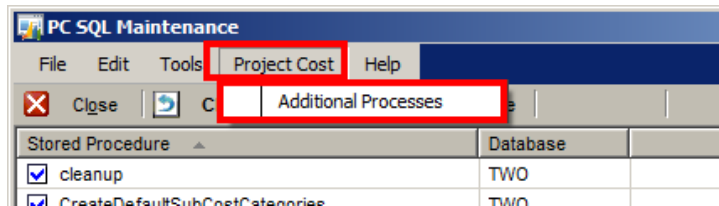
- Click the Back  Back Button.



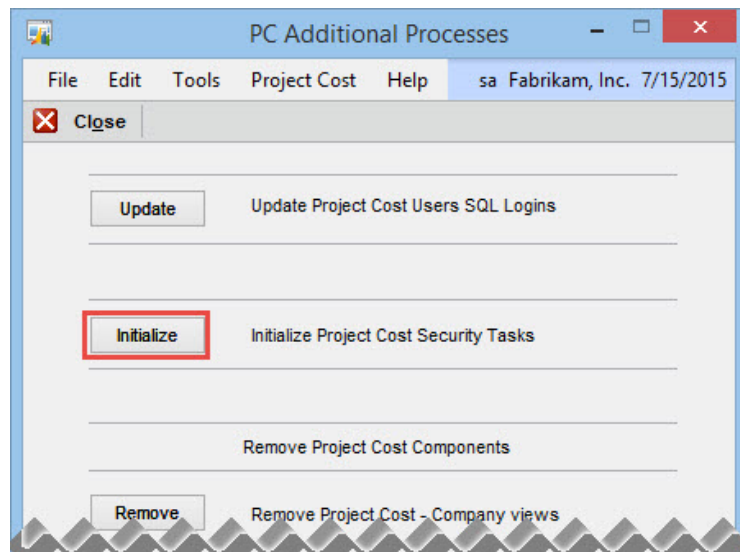
Report any other exceptions to our support line for assistance.

Next – Initialize Project Cost Security Tasks

- Select Project Cost option on the PC SQL Maintenance window.



- Select Additional Processes
- Click the Initialize Button.
- Click **OK** on the “Project Cost Security Tasks, and Operations were successfully completed” message window.



Roles,

- Close the PC Additional Processes window.
- Close the SQL Maintenance window
- **Now close Microsoft Dynamics GP and then re-launch.**

Step 7. – Registration

To register Project Cost, navigate to:

Microsoft Dynamics GP >> Tools >> Utilities >> Project Cost >> Registration

Please Note that Project Cost may be used without registration keys for trial and testing purposes. Project Cost will turn off automatically after 500 transactions.

Open the Project Cost Registration window.

Click on the Import Registration button.

Browse to the root directory for your Microsoft Dynamics GP software.

Select the Registration Key file that was provided when your software was purchased.

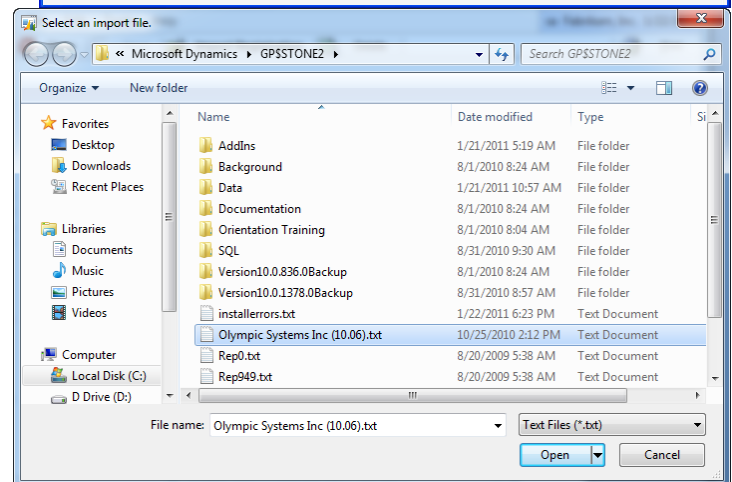
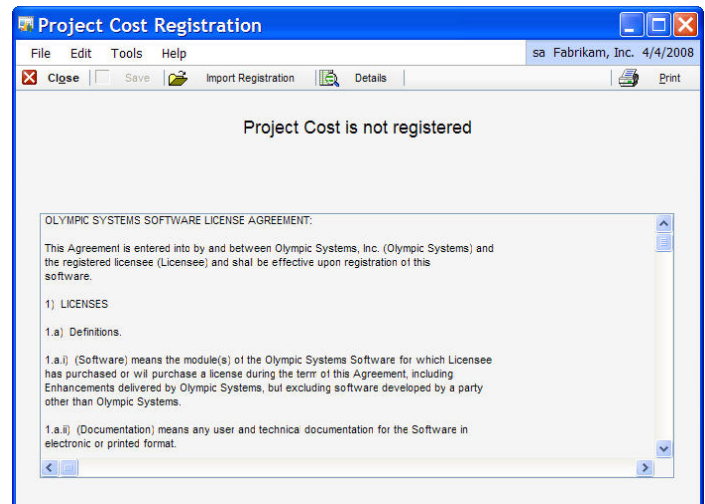
This file will have the following basic format:

Your Company Name (version).txt

In this example it is shown as:

Olympic Systems Inc (10.02).txt

Click the Open button.



Please note the “Registration is valid” message.

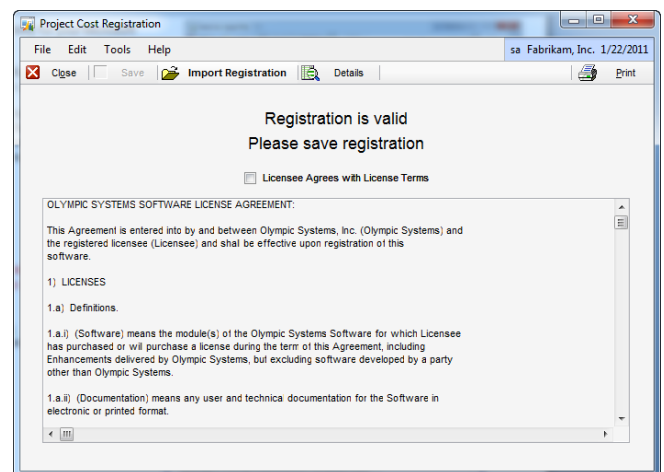
If the “Registration is not valid” message is displayed see [TK 00086](#) for assistance.

Click on the Check Box:

“Licensee Agrees with License Terms”

Click the Save button.

Close this window.



Note Step 8 & 9 are only required if using any of these options:

PC Advanced: Project Security, Organizational Security or Process Security

PC T&E Enterprise Module, PC Audit Modules (Project, Task & Transaction Audits)

Step 8. – Enable Project & Organizational Security

Note: If you want to use PC Advanced Project/Organizational or Process Security

Enable the Security setting in the PC System Setup window

Microsoft Dynamics GP >> Tools >> Setup>> Project Cost >> PC System Setup

The screenshot shows the 'PC System Setup' window with various configuration options. On the right side, under the 'Security' section, the checkbox 'Enable Project & Organizational Security' is checked and highlighted with a red rectangular box. Other options include 'Approval Before Expense Processing', 'Approval Before Timesheet Processing', 'Approval Before SOP Invoice Creation', 'Use Price Levels for Item Pricing', 'Default Price Level' (set to RETAIL), 'Default Markup Percent' (20.00%), and 'Enable Process Security' (unchecked).

Then Close and re-launch Great Plains


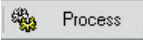

Step 9. – Recreate Stored Procedures for these additional modules

This will load specific stored procedures associated with specific advance modules.

Microsoft Dynamics GP >> Tools >> Utilities >> Project Cost >> SQL Maintenance

Select Objects

From Radio Button option on the lower left corner of the SQL Maintenance Window.

- Click the Mark All  Button.
- Click the Process  Button.
- Click the Back  Button.

Close the SQL Maintenance window

Then Close and re-launch Great Plains

The screenshot shows the 'PC SQL Maintenance' window. At the top, the 'Mark All' and 'Process' buttons are highlighted with red boxes. A red arrow points from the 'Process' button to the 'Objects' radio button at the bottom left. Another red arrow points from the 'Mark All' button to the 'Objects' radio button. A red text box with the instruction 'Then Click Mark All and Process' is overlaid on the list of objects. The list of objects includes various stored procedures and tasks, all of which are checked. The 'Objects' radio button is selected at the bottom left.

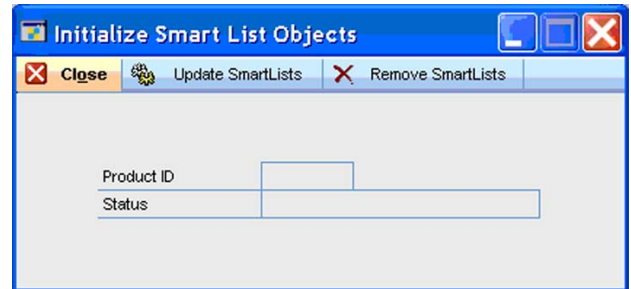
Step 10. – Repeat [Steps , 6, 8 & 9](#) for each Company D as needed.

Close and re-launch Microsoft Dynamics GP

Step 11. – Initialize SmartList

Navigate to: **Microsoft Dynamics GP >> Tools >> Utilities >> Project Cost >> Initialize Smartlist**

Click on the Update Smart List  **Update SmartLists** button.



Close the Initialize Smart List Objects window after the process is complete.

- **Now close Microsoft Dynamics GP and then re-launch.**

Step 13. - Install each client workstation as needed

This completes the Server Installation of the Project Cost Module

If needed continue to sections for:

- [Workstation Install](#)
- [Web Suite Install](#)
- **Create User Service Install – Contact Olympic Systems for Assistance**
- [Mobile Connector Install](#)

Project Cost Client Workstation Install Process

Project Cost is downloaded as a compressed file from www.projectcost.net .

Extract the Project Cost installation files to a folder on the local client or server disk drive.

Step 1. – Copy Files to the Root Client Directory - GP2015/2016

- PCMM#kxx.cnk (*MM*= major version number, *#*= minor version number & *xx* = service pack number)
- PC232.chm
- Application.ProjectCost.dll
- CsvHelper.dll
- Excel.dll
- ICSharpCode.SharpZipLib.dll
- OlympicSystems.Common.dll
- OlympicSystems.ProjectCost.AddIn.dll -- note this file is used for web client deployments
- OlympicSystems.ProjectCost.DexAssembly.dll
- OlympicSystems.ProjectCost.Dynamics.dll

Step 2. – Copy Files to the AddIns Directory

- OlympicSystems.ProjectCost.AddIn.dll

Step 3. – Launch Microsoft Dynamics GP

(Run as administrator)

This completes the Installation of Project Cost for this workstation

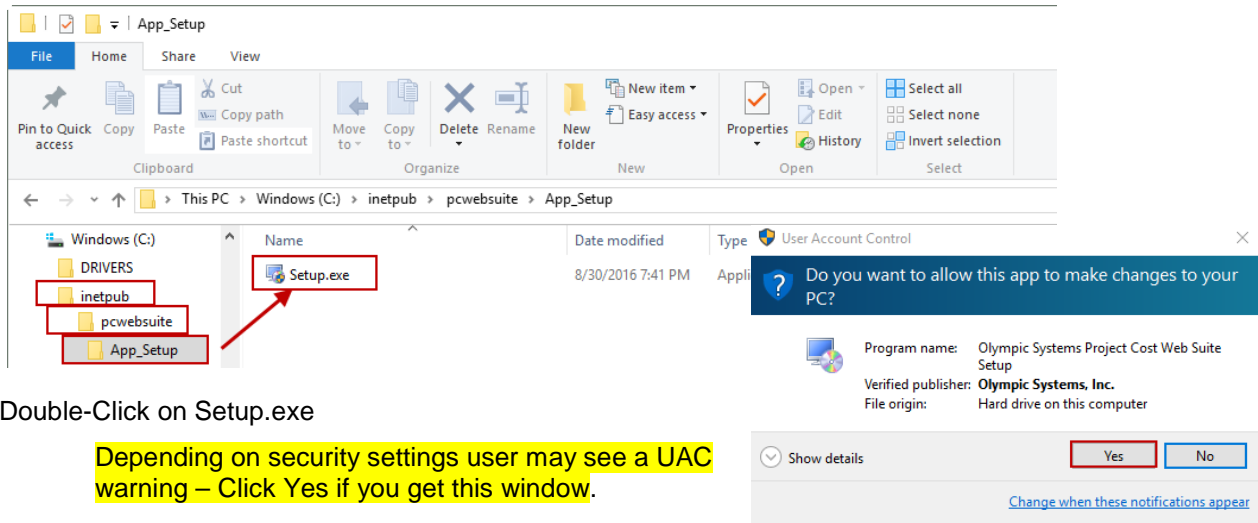
Project Cost Web Suite Install Process

Step 1. Copy Project Cost Web Components to the Inetpub Directory

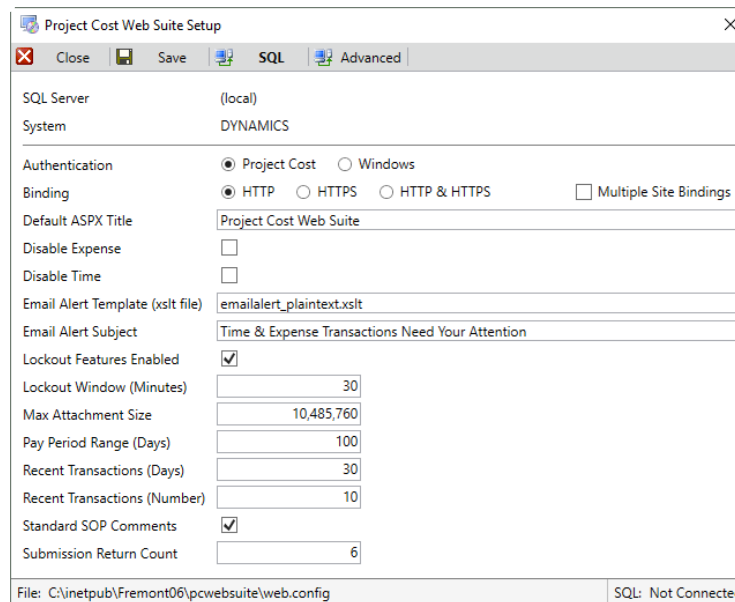
1. These components are held in the folder **pcwebsuite** that was included in the Download.
 2. Use Windows Explorer to copy the **pcwebsuite** directory to your **Inetpub**
- In this instruction we located this folder at **C:\Inetpub\pcwebsuite**

Step 2. Run the PCWebSuite Setup Application

Using Windows Explore run the Setup.exe located in **C:\Inetpub\pcwebsuite\App_Setup**



The Project Cost Web Suite Setup Utility will open.



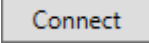
Step 3. Configure the SQL Connection in the PCWebSuite Setup window

Click the SQL  icon.

Enter the SQL Server Name:

Enter the User ID:

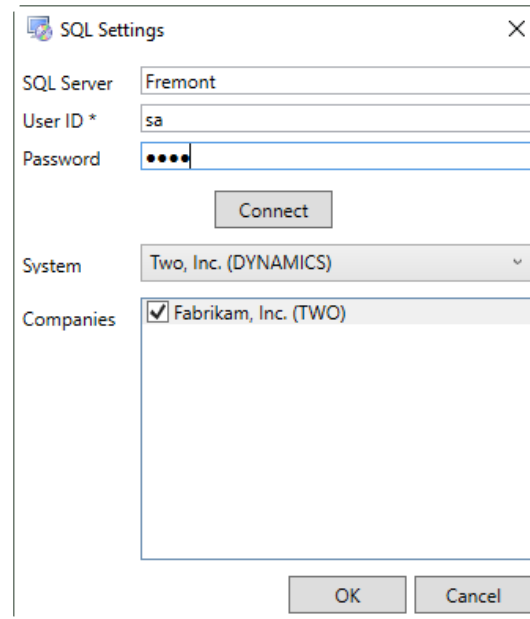
Enter the Password:

Click the Connect  button

Select the System Database:

Select Companies:


Click the OK  button



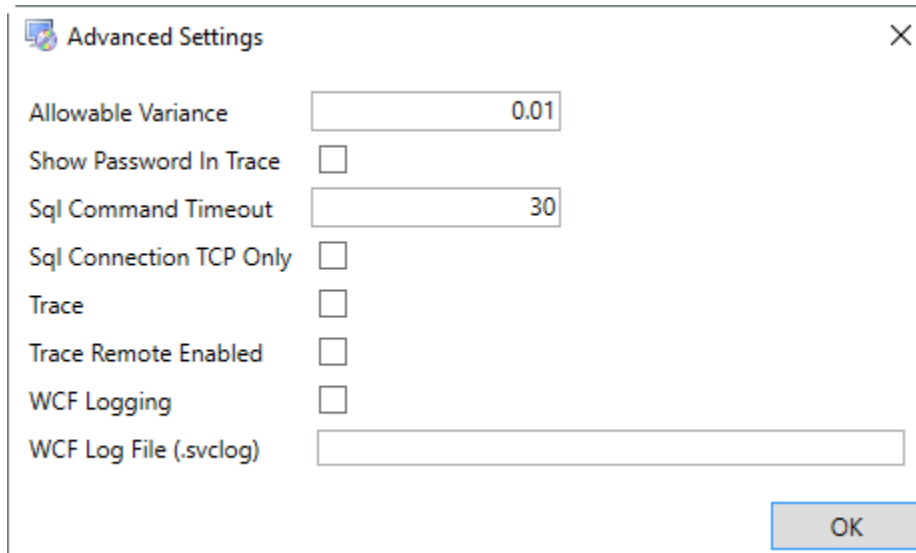
The SQL Settings dialog box contains the following fields and controls:

- SQL Server: Text box with "Fremont"
- User ID *: Text box with "sa"
- Password: Password box with four dots
- Connect: Button
- System: Dropdown menu with "Two, Inc. (DYNAMICS)" selected
- Companies: List box with "Fabrikam, Inc. (TWO)" checked
- OK: Button
- Cancel: Button

Step 4. Configure the Advanced Settings in the PCWebSuite Setup window

Click the Advanced  icon to open the Advanced Settings window.

Contact Olympic Systems Support team for use of this window



The Advanced Settings dialog box contains the following fields and controls:

- Allowable Variance: Text box with "0.01"
- Show Password In Trace: Checkbox (unchecked)
- Sql Command Timeout: Text box with "30"
- Sql Connection TCP Only: Checkbox (unchecked)
- Trace: Checkbox (unchecked)
- Trace Remote Enabled: Checkbox (unchecked)
- WCF Logging: Checkbox (unchecked)
- WCF Log File (.svclog): Text box
- OK: Button

Step 5. Configure the SQL Connection in the PCWebSuite Setup window

Project Cost Web Suite Setup

Close Save SQL Advanced

SQL Server: Fremont
System: DYN06

Authentication: ☐ Project Cost ☒ Windows
Binding: ☒ HTTP ☐ HTTPS ☐ HTTP & HTTPS ☐ Multiple Site Bindings
Default ASPX Title: Project Cost Web Suite
Disable Expense: ☐
Disable Time: ☐
Email Alert Template (xslt file): emailalert_plaintext.xslt
Email Alert Subject: Time & Expense Transactions Need Your Attention
Lockout Features Enabled: ☒
Lockout Window (Minutes): 30
Max Attachment Size: 10,485,760
Pay Period Range (Days): 100
Recent Transactions (Days): 30
Recent Transactions (Number): 10
Standard SOP Comments: ☒
Submission Return Count: 6

Authentication Settings:

Authentication: ☐ Project Cost ☒ Windows

Select Project Cost for “Project Cost Sign-On” authentication

Select Windows for “Single-Sign-On” authentication

Note: Windows authentication will default to Project Cost Sign-On if Windows credentials are not available or fail. Windows Authentication is essentially “Both”.

Binding Settings:

Binding: ☒ HTTP ☐ HTTPS ☐ HTTP & HTTPS ☐ Multiple Site Bindings

Select HTTP for Non-Secure Bindings Only

Select HTTPS for Secure Bindings Only

Select HTTP & HTTPS for Both Secure & Non-Secure Bindings

Check Multiple Side Bindings as directed by Olympic Support Staff

Default ASPX Title Settings:

Default ASPX Title	<input type="text" value="Project Cost Web Suite"/>	Users
--------------------	---	-------

can change the Screen Title for the Logon window

By default we set this value to read "Project Cost Web Suite" however you could put your companies name in as the value.

Disable Expense Setting:

Disable Expense	<input type="checkbox"/>
-----------------	--------------------------

By Checking this check-box – Project Cost will disable the Expense Tab for ALL users.

If you need to disable the Expense Tab for one or a group of users this can be controlled via the PC Employee Setup window by de-selecting the “Enable Employee Expense Web Entry”.

Disable Time Setting:

Disable Time	<input type="checkbox"/>
--------------	--------------------------

By Checking this check-box – Project Cost will disable the Time Tab for ALL users.

Email Alert Template (xslt file) Setting:

By default this value is set to "emailalert_plaintext.xslt"

Email Alert Subject Setting:

By default this value is set to "Time & Expense Transactions Need Your Attention"

Lockout Features Enabled:

By default this Checked on”

This feature will introduce a delay for the User’s IP address after the user has made 4 failed logon attempts.

Delay after X number of logon attempts,

- 4th attempt a delay of 16 seconds is added before the user can attempt the next logon
- 5th attempt a delay of 32 seconds is added before user can attempt the next logon
- 6th attempt a delay of 64 seconds is added before user can attempt the next logon
- 7th attempt a delay of 128 seconds is added before user can attempt the next logon
- ...And continue until you reach the Lockout Window Minutes limit.

IT Managers can clear the lockout by resetting IIS.

Lockout Window Minutes:

By default this is set to 30 minutes – this is how long information is stored for a user’s failed attempts from the last failed attempt.

Max Attachment Size:

By default this is set to 10,485,760.

Pay Period Range (Days):

By default this is set to 100 Days – this is the range of days that transactions can be entered.

Recent Transactions (Days):

By default this is set to 30 days. If set to 0 (zero) no recent transactions will be presented.

Recent Transactions (Number):

By default this is set to 10 transactions. The application will recall the first 10 transactions from week to week.

Standard SOP Comments:

By default this is check on. This will truncate any billing description to 200 characters.

Submission Return Count:

By default this is set to 6.

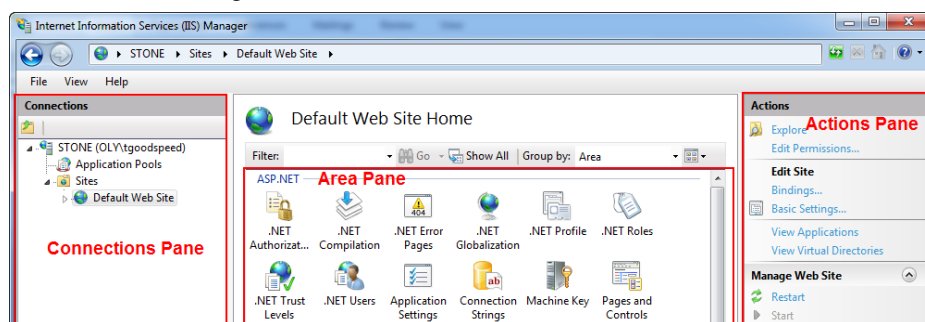
Step 6 Configuration of Internet Information Services

1. Navigate to the Control Panel.

Note: Based on the operating system the commands may be different for this navigation.
Go to **Control Panel>>System and Security>>Administrative Tools**.

2. Double click “Internet Information Services (IIS) Manager”.
3. In the Internet Information Services window is divided into 3 primary areas or panes.
 - a. The **Connections Pane** you should see the server's name, Application Pools and Sites.
 - b. The **Area Pane** will list the features that may be configured and will look different based on the item selected in the **Connections Pane**.
 - c. The **Actions Pane** again will look different based on the feature selected in the **Area Pane**.

4. In the Click on **Server**

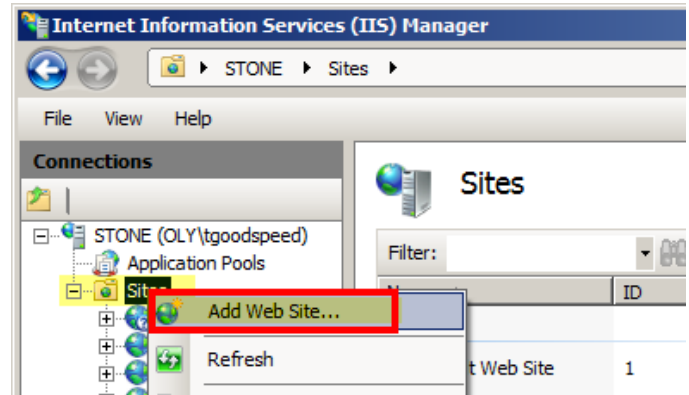


Connections Pane
the “▶” to expand the view.

This should review folders for Application Pools and Sites.

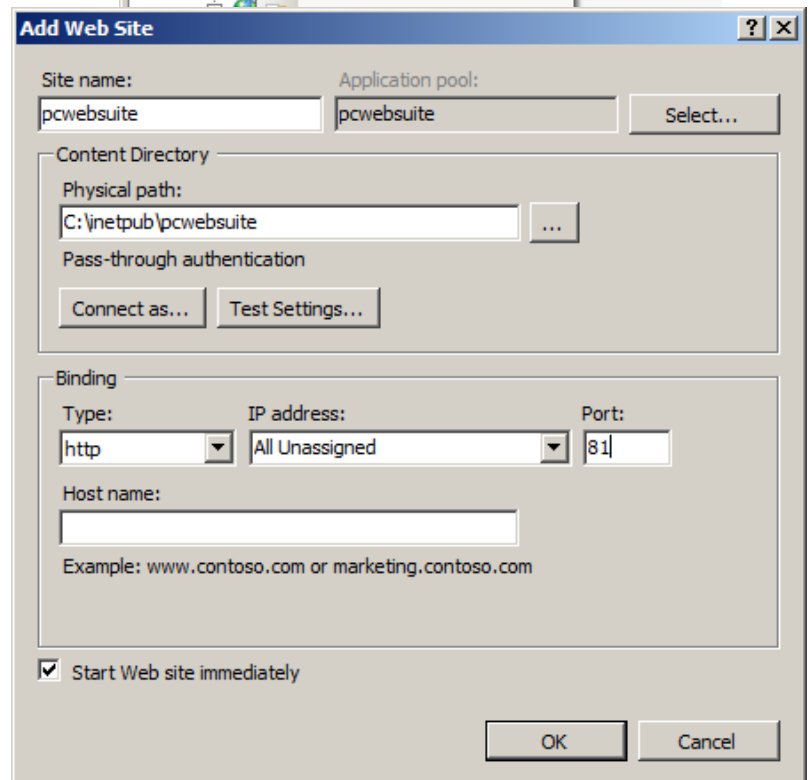
Create New Web Site

1. In the **Connections Pane** Click on the "►" to expand the **Site** view.
2. Right Click on **Sites** and select **Add Web Site**



In the **Add Web Site** window.

3. Enter the Site Name: in our example we use pcwebsuite.
4. Enter the Physical path:
In our example we use
c:\inetpub\pcwebsuite
5. Enter the port number in the Binding area.
We use 81 to avoid common conflicts with
other IIS tools. Work with the IT or
Network manager to find an open port.



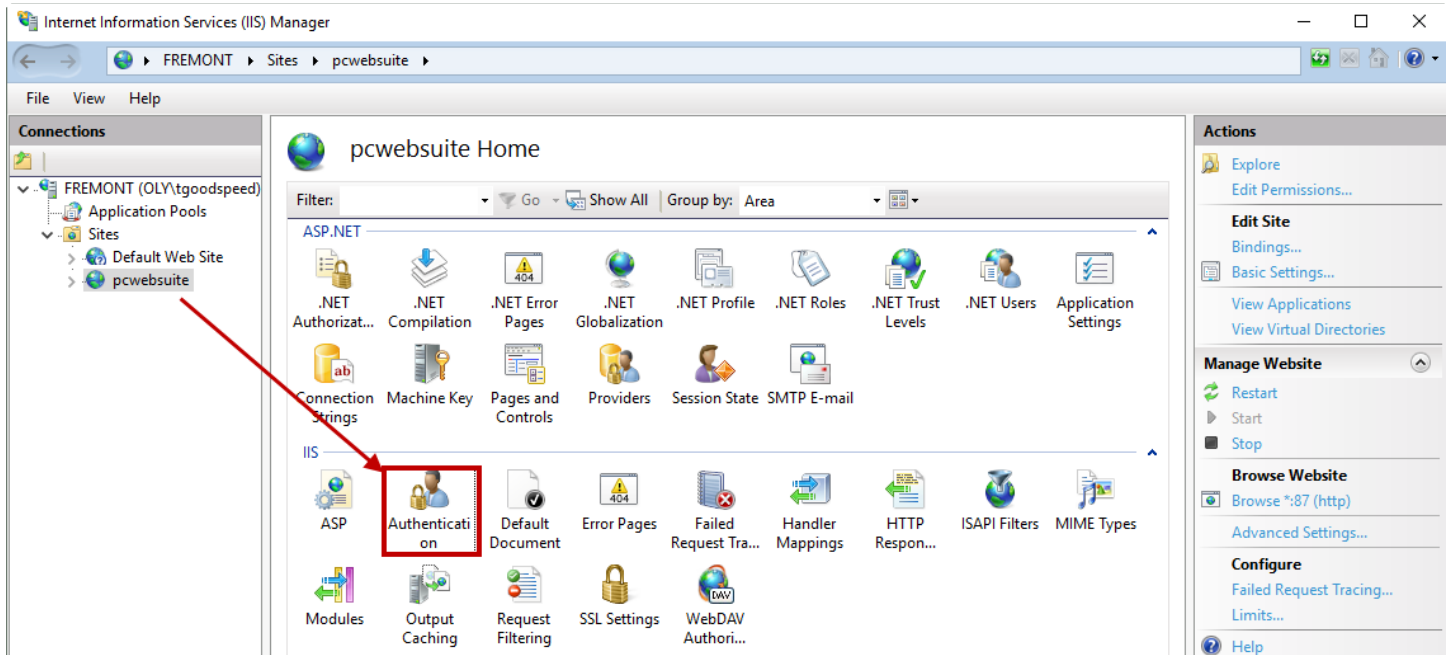
If using SSL See [Security Certificates & SSL for Project Cost Web Suite](#) Section

6. Click OK

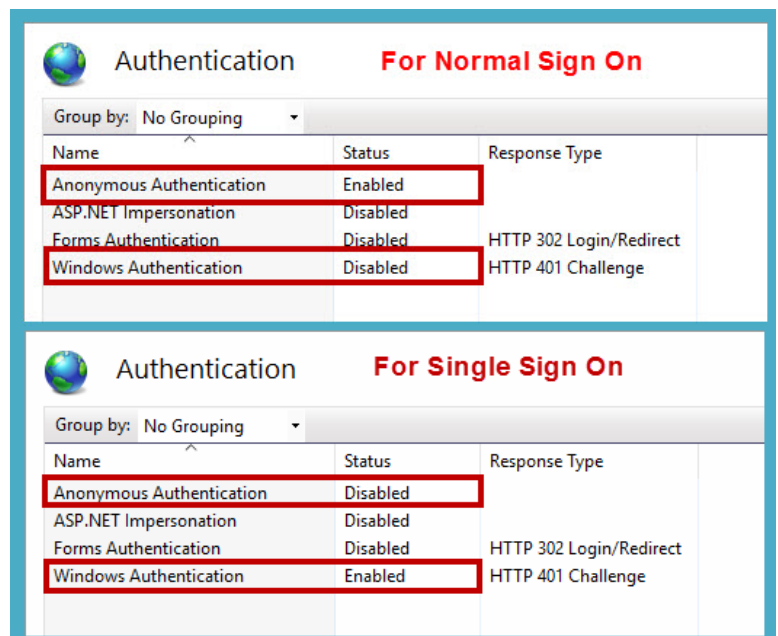
Configure Web Site Settings

1. In the **Connections Pane** Click on the "►" to expand the **Site** view.
2. Click on the Site - in our example **pcwebsitesuite**.
3. In the **Area Pane** under the **IIS** section Double-Click on **Authentication**.

If ASP.NET section is not visible in the Actions Pane See [Issue: ASP.Net section missing from IIS Manager View](#). In the Troubleshooting section.

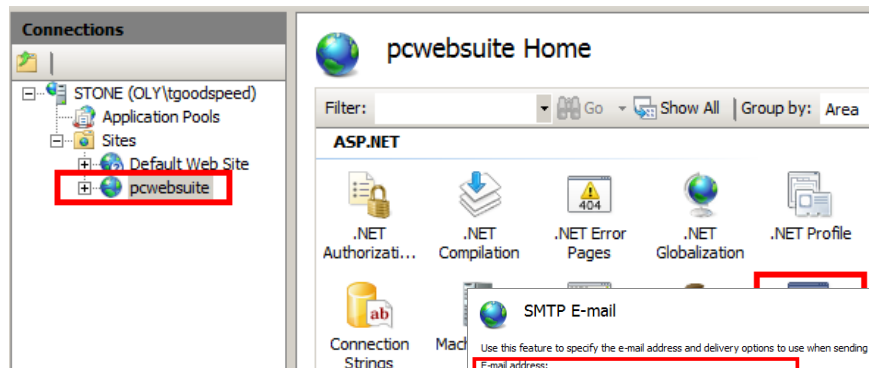


4. In the **Authentication** Pane Enable or Disable Features as needed.



Configure SMTP E-Mail Settings

1. In the **Connections Pane** Click on the "►" to expand the **Site** view.
2. Click on the Site (in our example **pcwebsuite**)
3. In the **Area Pane** under the **ASP.Net** section Double-Click on **SMTP E-mail**.



4. In the **SMTP E-Mail** Pane
Enter an Email Address for sending Email notices
Enter the SMTP Server
Enter Port address
Enter Authentication Settings

Note: SMTP connection settings will vary from installation to installation.

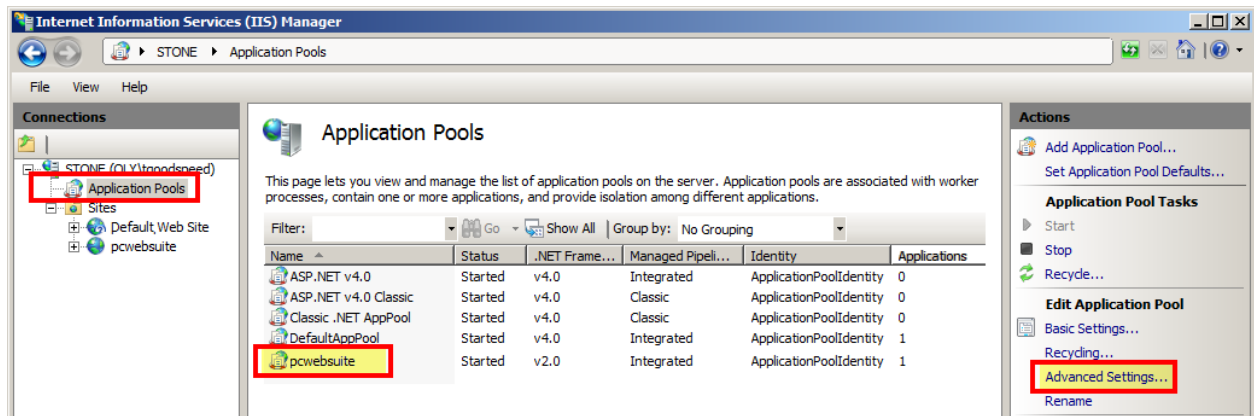
Consult with the organizations IT staff for the optimal settings.

The screenshot shows the 'SMTP E-mail' configuration dialog box. It contains the following fields and options:

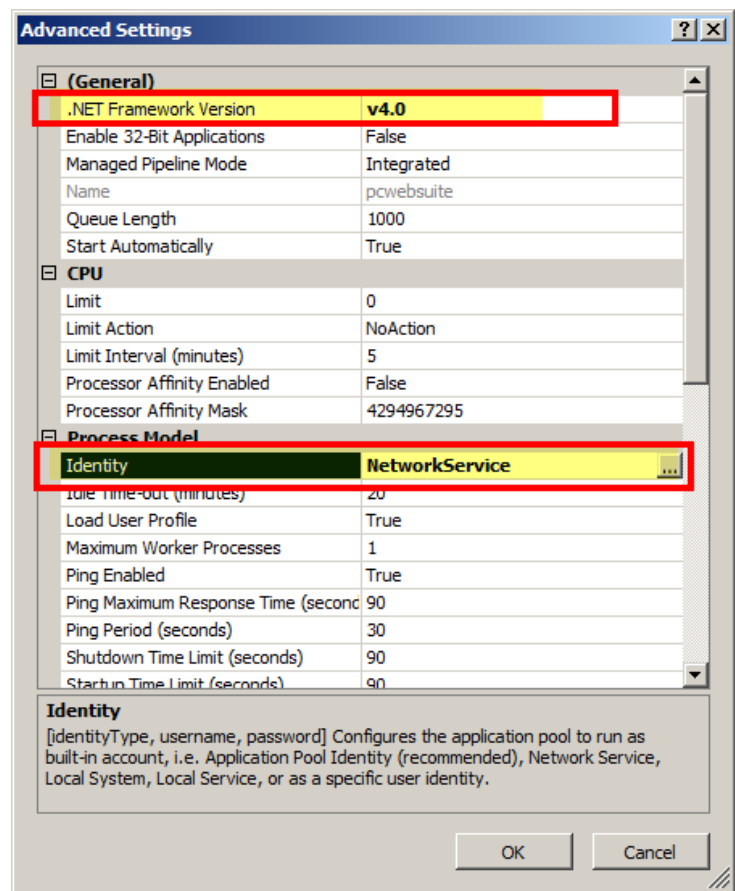
- E-mail address:** A text box containing 'YourEmail@anyco.com'.
- Deliver e-mail to SMTP server:** A section with the following options:
 - SMTP Server:** A text box containing 'YourSMTPServer'.
 - Use localhost:** An unchecked checkbox.
 - Port:** A text box containing '25xxx'.
- Authentication Settings:** A section with the following options:
 - Not required:** A selected radio button.
 - Windows:** An unchecked radio button.
 - Specify credentials:** An unchecked radio button with a 'Set...' button next to it.
- Store e-mail in pickup directory:** A text box with a 'Browse...' button next to it.

Configure Application Pool Settings

1. In the **Connections Pane** Click on the **Application Pool**.
2. In the **Area Pane** select the Application Pool associated with the site.
3. In the **Actions Pane** Click the Advanced Settings option.



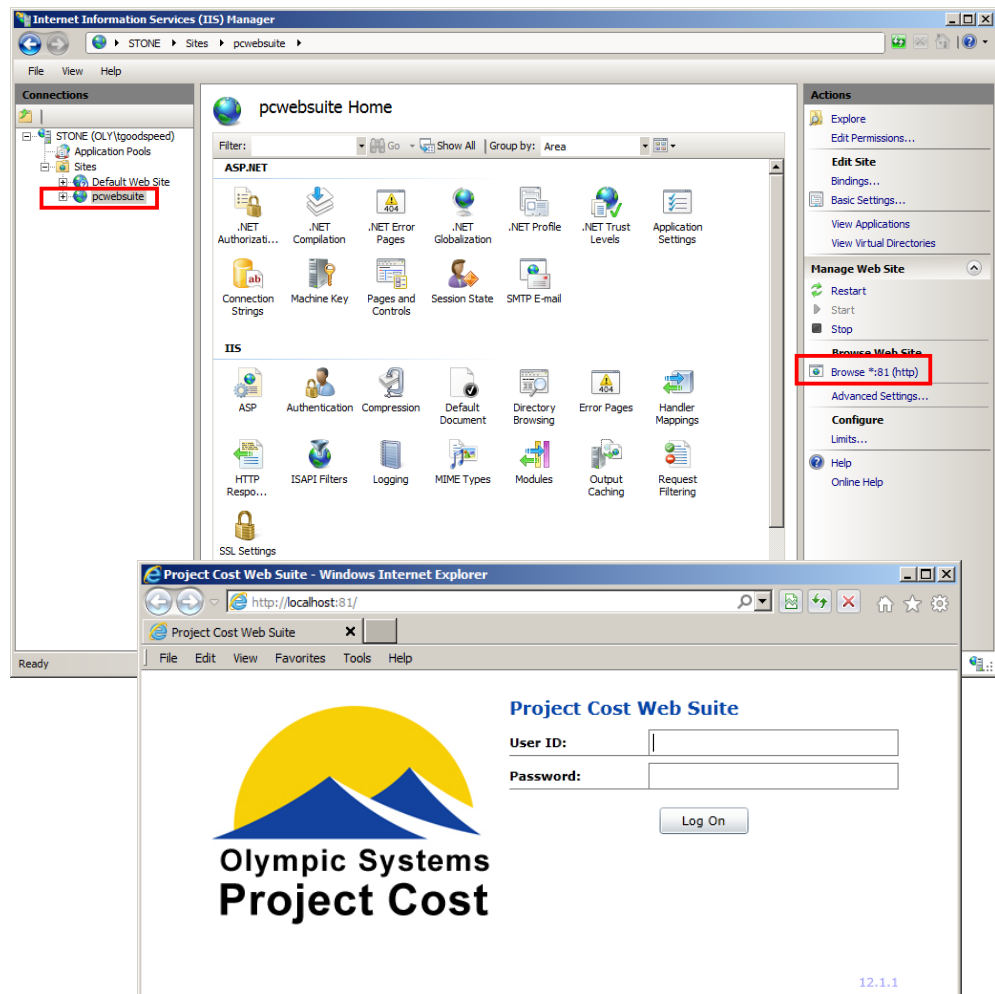
4. Set the **.Net Framework Version** to **v4.0**
5. Set the **Process Model - Identity** to **NetworkService**.
6. Click **OK**.



Test the Web Site

1. In the **Connections Pane** Click on the "►" to expand the **Site** view.
2. Click on the Site in our example **pcwebservice**.
3. In the **Actions Pane** Click the Browse *:81 (http) link.

4. This should launch OlyNet web site.



the

This completes the Installation of the Project Cost Time & Expense Module

Security Certificates & SSL for Project Cost Web Suite

WE HIGHLY RECOMMEND THAT USERS DEPLOY PROJECT COST WEB SUITE USING SECURE SOCKETS LAYER (SSL) OR SOME OTHER TRANSPORT LAYER SECURITY (TLS) PROTOCOL. WHILE THIS IS OPTIONAL FOR MOST OF OUR FUNCTIONALITY – IT IS REQUIRED IF THE ORGANIZATION WANTS TO USE CREDIT CARD STATEMENT DOWNLOAD FEATURE.

Security Certificates & SSL

Security certificates and secure sockets layer (SSL) are used to help improve the security of the data being transmitted by the Project Cost web Suite. The web site that hosts the web client *must* be configured to use SSL. The runtime service must be configured to use a security certificate.

Security Certificate Requirements

The security certificates that you use for your Project Cost Web Suite installation must meet some requirements to work properly.

Certificate Purpose

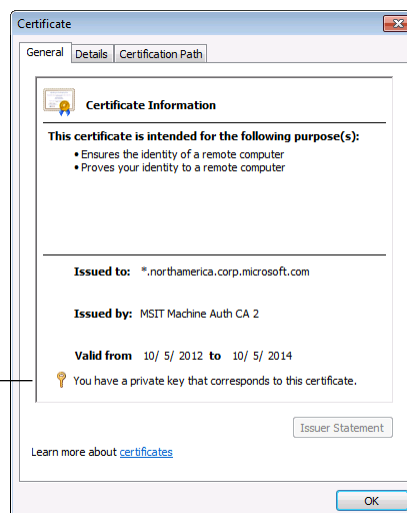
To be used for the Project Cost Web Suite, the security certificate must have “Server Authentication” listed as one of its intended purpose. You can use the Certificates snap-in for the Microsoft Management Console to view the Intended Purpose column for the certificate.

Private Key

It is essential that the security certificate that you are using has a private key. This allows the security certificate to be bound to the port that is assigned to the web site.

To verify that the security certificate has a private key, you can view the details of the certificate file. At the bottom of the details, you should see that the certificate has private key. If it does not, then the security certificate cannot be used.

The security certificate must have a private key in order to be bound to the runtime service port.



Externally Signed Security Certificates

Externally signed security certificates are the easiest way to implement SSL for the Project Cost Web Suite. They must be purchased from the third-party supplier. Due to the additional cost, externally signed security certificates are typically used in a production environments.

There are three basic types of externally signed security certificates:

Single Domain

This type of security certificate is issued for a specific machine. For example you could get a security certificate issued for the machine with the following name:

- GPweb.contoso.com.

You would typically use this type of certificate when installing the Project Cost Web Suite in a single machine configuration. This is the least- expensive type of certificate to purchase.

Multiple Domain

This type of security certificate is issued for a set of specific machines. You must know the machine names at the time that you are purchasing the security certificate. For example, you could get a security certificate issued that could be used for machines with the following names:

- GPweb.contoso.com
- ServiceHost1.contoso.com
- ServiceHost2.contoso.com
- ServiceHost3.contoso.com

You would typically use the multiple domain certificates when installing the Project Cost Web Suite in a scale out configuration. The certificate would contain entries for each of the machines that will be part of your web client installation. This security certificate is more expensive, because the same certificate can be used on multiple machines.

WildCard

This type of security certificate is not issued for specific machines. Instead, it is issued for a specific domain. The security certificate can be used for any machines that follow the naming convention for the domain. For example, if you purchased a wildcard certificate for the *.contoso.com domain, any machine in that domain (such as GPweb.contoso.com) could use the wildcard certificate.

You would typically use the wildcard certificate when installing the Project Cost Web Suite in the scale out configuration. The wildcard certificate is especially useful when you expect to add additional machines to the configuration, but do not know their names at the time you are purchasing the certificate. The extra flexibility does come with a cost. Wildcard certificates are the most expensive externally signed security certificates.

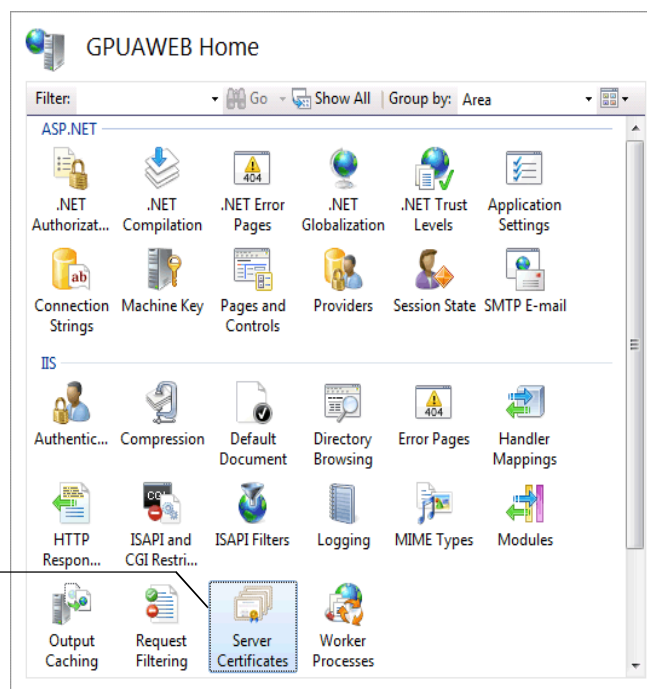
Using an Externally Signed Security Certificates

When an externally signed security certificate is used for a web site, the third-party certificate authority handles the certificate validation when users connect to the web client site. No additional action is needed by the Project Cost Web Suite users.

To Use an Externally Signed Security Certificate

1. Obtain the security certificate (.cer or .pfx) file from the third-party certificate supplier.
2. In Administrative Tools on the web server system, open Internet Information Services (IIS) Manager.
3. In the left pane, select the computer name.
4. In the IIS group, open Server Certificates.

Select the computer name and then open



5. Install the Certificate, based on the type of file that has been provided:
 - If your certificate has been provided as a .cer file, complete these actions. In the Actions pane, click Complete Certificate Request. Select the certificate (.cer) file that you obtained from the third-party certificate supplier. In the Friendly name field, enter the name that will be displayed for the certificate. Click OK.
 - If your certificate has been provided a .pfx file, complete these actions. In the Actions pane, click Import. Select the certificate (.pfx) file that you obtained from the third-party certificate supplier. Enter the password for the security certificate. Click OK.

Self-Signed Security Certificates

Self-signed security certificates are the least expensive way to implement SSL for the Project Cost Web Suite. You can generate these security certificates from within IIS Manager. They are typically used when you are setting up a Project Cost Web Suite installation for testing or development purposes.

Self-signed security certificates have some limitations. You must use the default subject alternative name (SAN) that is assigned when the security certificate is created. Self-signed security certificates have a limited lifespan, typically one year.

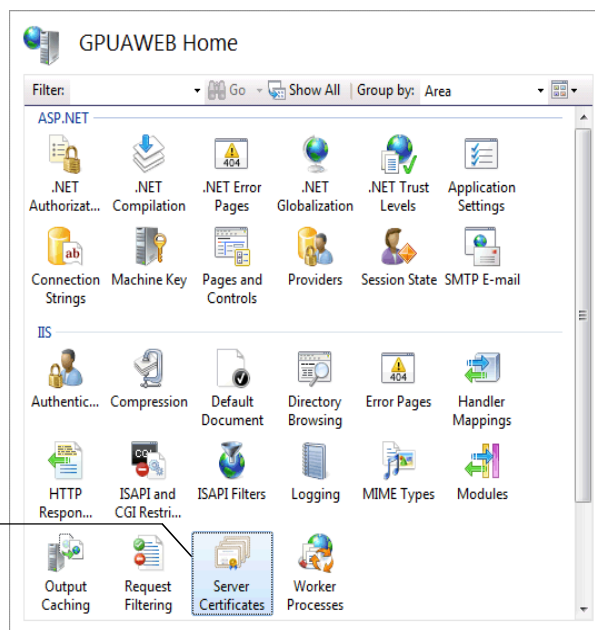
When you use a self-signed security certificate, there is no external authority to handle the certificate validation when users connect to the web client site. Because of this, a certificate error will be displayed when users access the Project Cost Web Suite site. To prevent the certificate error, users must import the security certificate onto their own machine.

Refer to for additional information on importing a Self-Signed Certificate.

To Use a Self-Signed Security Certificate

1. Open Internet Information Services (IIS) Manager.
2. In the left pane, select the computer name.
3. In the IIS group, open Server Certificates.

*Select the computer name
and then open Server Certificates.*



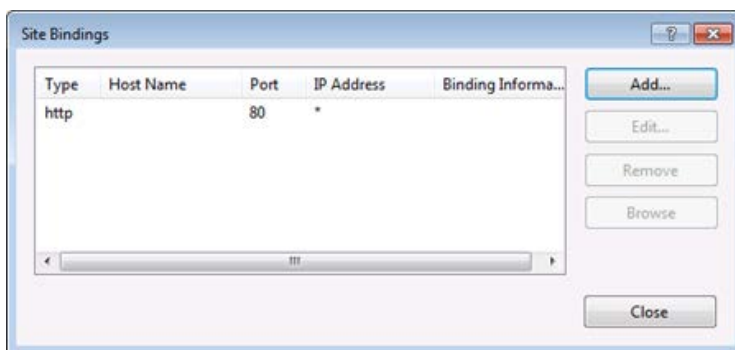
4. In the Actions pane, click Create Self-Signed Certificate.
5. Supply the friendly name for the security certificate.
6. Click OK. The security certificate will be created.

Configuring the Web Site to use SSL

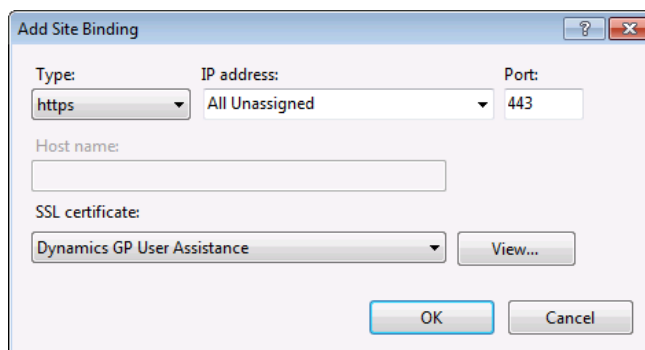
The web site used for the Project Cost Web Suite must be configured to use SSL. Before configuring the web site, be sure that you have imported an externally signed security certificate or have created a self-signed security certificate.

To Configure the Web Site for SSL

1. Open Internet Information Services (IIS) Manager.
2. In the left pane, expand the Sites group. Within the Sites group, select the site that you are configuring to use SSL. For example, select the Default Web Site.
3. In the Actions pane, click Bindings.
4. In the Site Binding window, click Add.



5. In the Add Site Bindings window, select https for the type, and then choose an SSL certificate that you installed.



6. Click OK.
7. Click Close.

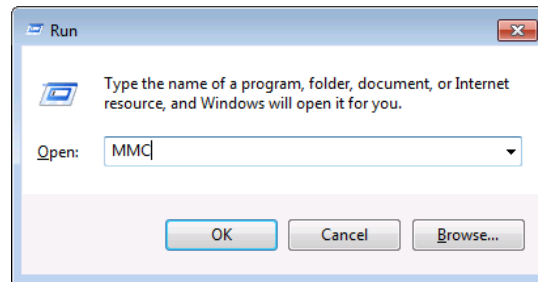
Installing a Security Certificate on a Server

If you are setting up the scale out configuration for the Project Cost Web Suite, the session host machines must have a security certificate that can be used when configuring the runtime session. If you

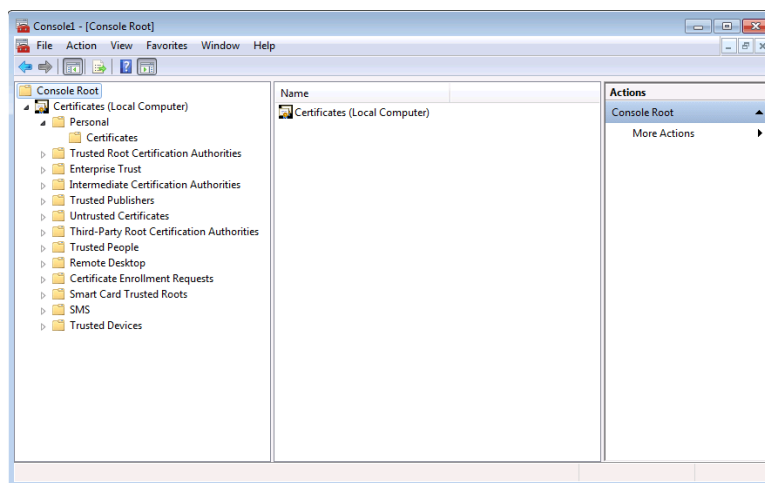
are using an externally signed security certificate, you will need to install the security certificate onto each session host machine so that the certificate is available to be used.

To Install a Security Certificate

1. On the computer that will be used as a session host, open the Run prompt. (Choose Start > Run or press Window-R)
2. In the Open field, type MMC and then click OK.



3. In the Microsoft Management Console, open the File menu and choose Add/ Remove Snap-in.
4. In the Add or Remove Snap-ins window, choose the Certificates snap-in from the Available snap-ins list, and then click Add.
5. In the Certificates snap-in dialog box, choose Computer account and then click Next.
6. In the Select Computer dialog box, choose Local computer and then click Finish.
7. In the Add or Remove Snap-ins window, click OK.
8. In the left pane, expand the Certificates (Local Computer) node, and then expand the Personal node.



9. Under Personal, right-click the Certificates node, point to All Tasks, and then click Import.
10. In the Certificate Import Wizard welcome screen, click Next.
11. In the File to Import screen, click Browse.

12. Browse to the location of the security certificate that you want to use. Typically, this will be a file with a .pfx extension, because the certificate contains a private key. Select the file and click Open. Click Next to continue.
13. Enter the password for the certificate. This is the private key password that was either provided with the certificate, or that you defined when you exported the certificate for use on another machine. Be sure that you mark the Include all extended properties box. Click Next to continue.
14. In the Certificate Store screen, verify that the certificate is being added to the Personal store. Click Next.
15. Click Finish to complete the import process.
16. Close the Microsoft Management Console window.

Project Cost Mobile Connector IIS Install Process

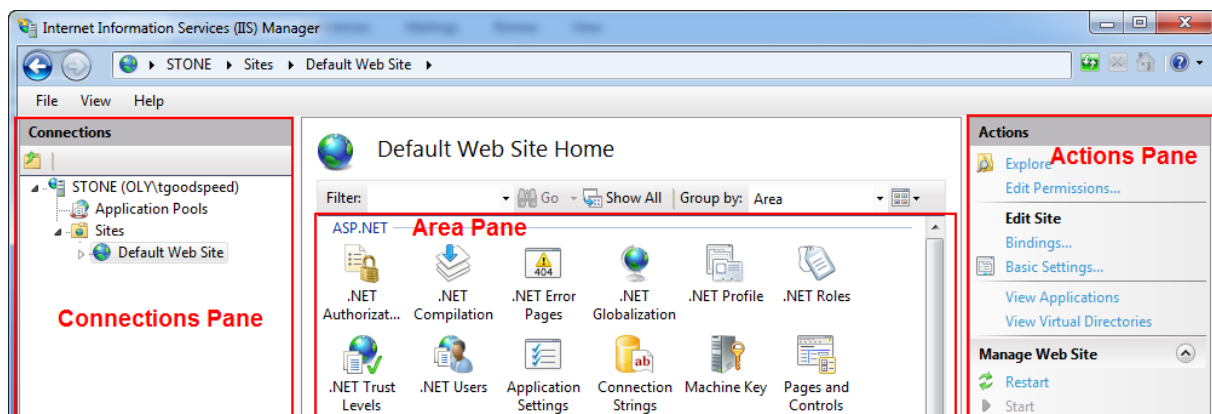
Copy Project Cost Mobile Connector components to the Inetpub Directory

1. These components are held in the folder **MobileConnector** that was included in the Download.
 2. Use Windows Explorer to copy the **MobileConnector** directory to your **Inetpub**
- In this instruction we located this folder at **C:\Inetpub\MobileConnector**

Configuration of Internet Information Services on Windows 7

1. Navigate to the Control Panel.

Note: Based on the operating system the commands may be different for this navigation.
Using Windows 7 – go to **Control Panel>>System and Security>>Administrative Tools**.
2. Double click “Internet Information Services (IIS) Manager”.
3. In the Internet Information Services window is divided into 3 primary areas or panes.
 - a. The **Connections Pane** you should see the server’s name, Application Pools and Sites.
 - b. The **Area Pane** will list the features that may be configured and will look different based on the item selected in the **Connections Pane**.
 - c. The **Actions Pane** again will look different based on the feature selected in the **Area Pane**.

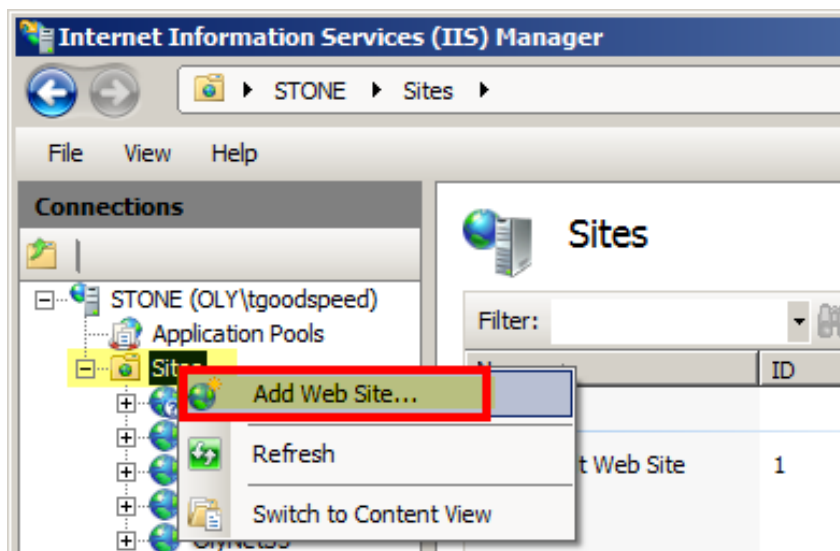


4. In the **Connections Pane** Click on the “►” to expand the **Server** view.
This should expose folders for Application Pools and Sites.

Create New MobileConnector Web Site

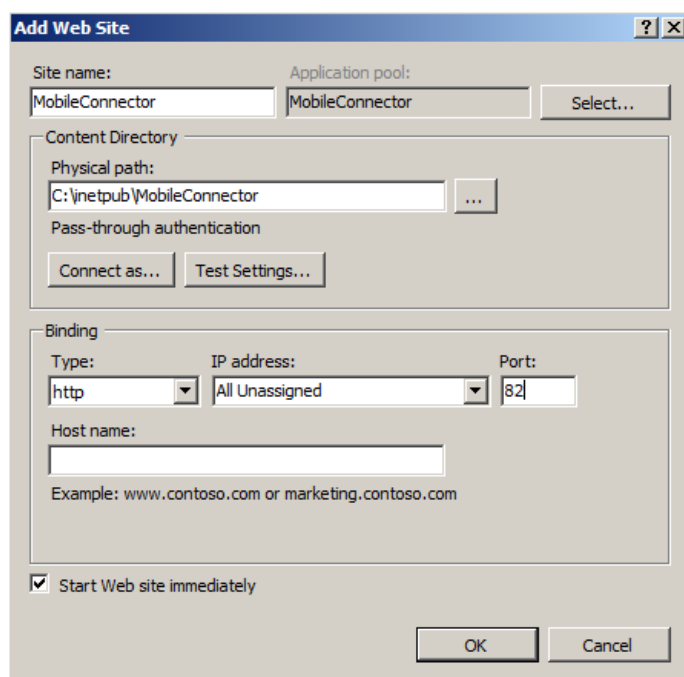
In the Connections Pane

1. Click on the “►” to expand the **Site** view.
2. Right Click on **Sites**
3. Select **Add Web Site**



In the Add Web Site window

1. Enter the Site Name: in our example we use **MobileConnector**.
2. Enter the Physical path:
This is the location of the mobile connector components.
our example we use
c:\inetpub\MobileConnector
3. Enter the port number in the Binding area. We use 82 to avoid common conflicts with other IIS tools.
4. Click OK



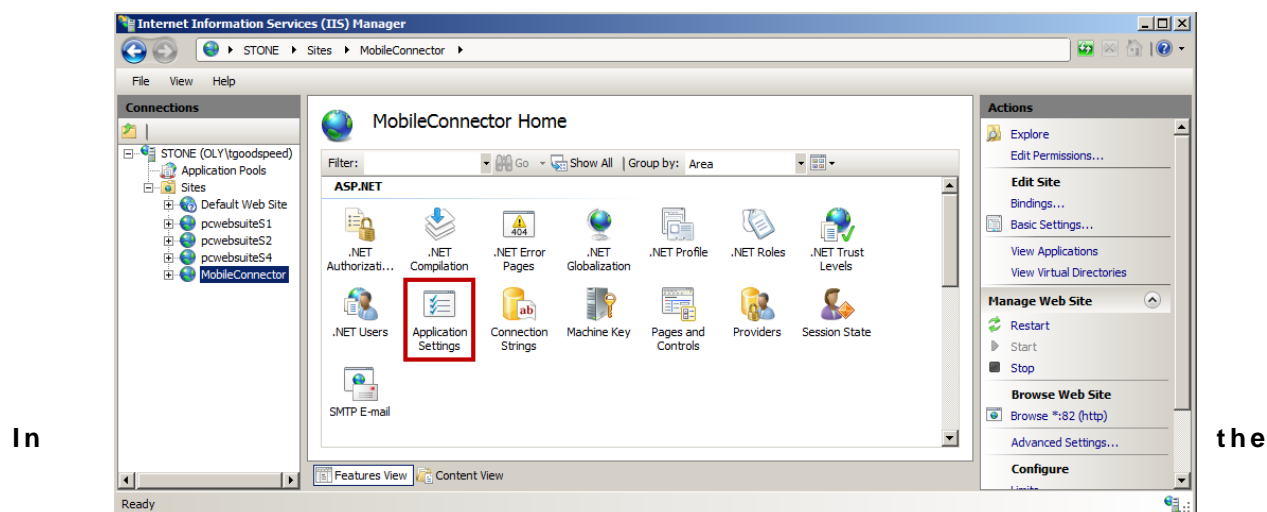
In

Configure MobileConnector Web Site Settings

In the Connections Pane

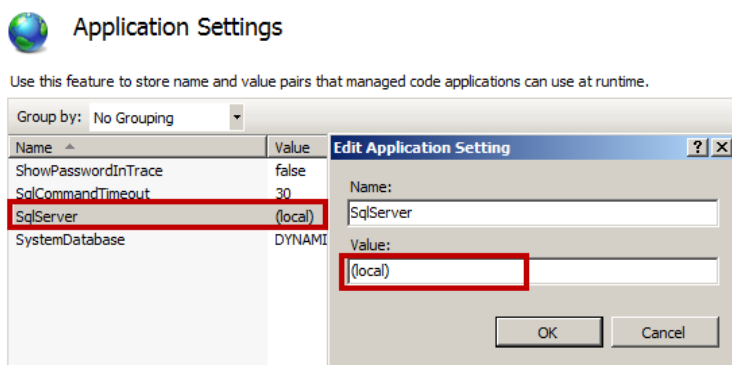
1. Click on the “►” to expand the **Site** view.
2. Click on the Site - in our example **MobileConnector**.
3. In the **Area Pane** under the **ASP.Net** section Double-Click on **Application Settings** icon.

If ASP.NET section is not visible in the Actions Pane See Trouble shooting section.



Application Setting Pane

1. Double-Click on **SqlServer** Feature.
2. In the **Edit Application Setting** window

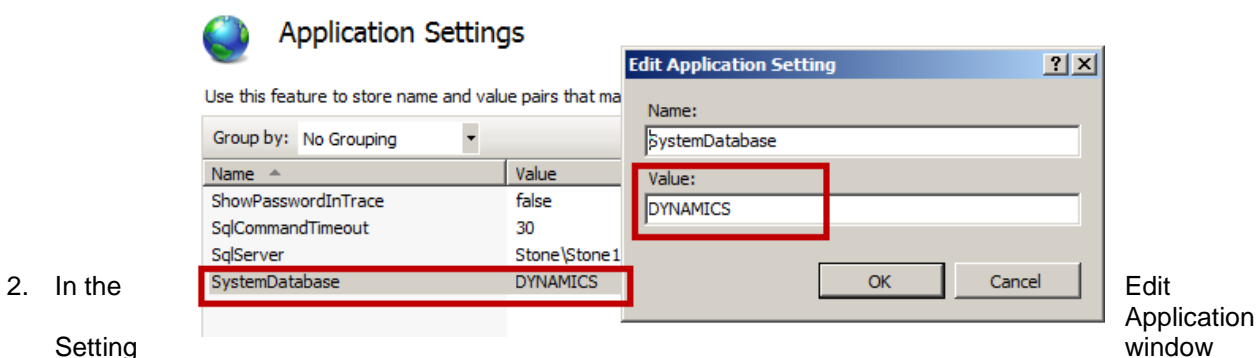


3. Enter the Name and Instance of your Sql Server in the Value field.

4. Click **OK**

In the Application Setting Pane

1. Double-Click on **SystemDatabase** Feature.



2. In the
Setting

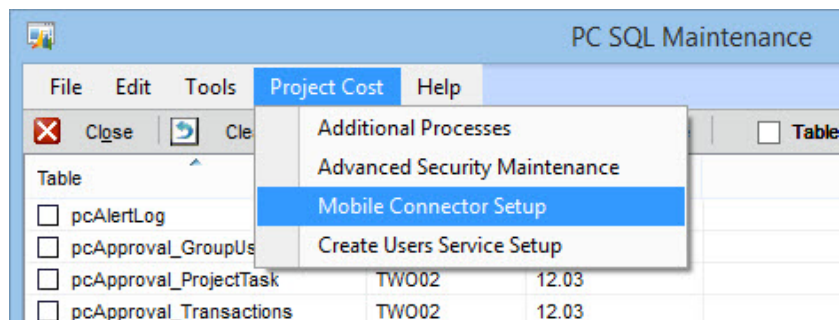
Enter the Name of the GP system database. This is normally DYNAMICS however in v2013 an option to use a Named System Database was added.

3. Click **OK**

Project Cost Mobile Connector Security Setup

Navigate to Project SQL Maintenance Window

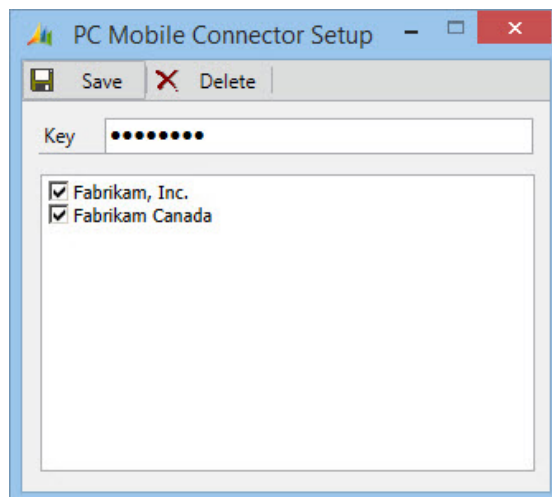
[Microsoft Dynamics GP >> Tools >> Utilities >> Project Cost >> SQL Maintenance](#)



- On the PC SQL Maintenance window Select Project Cost option.
- Select Mobile Connector Setup option

In the PC Mobile Connector Setup Window

- Enter the Mobile Connector Key:
This will be provided when registered.
- Select the Check Box next to the Company database
- Click **Save** button.



Project Cost Mobile Connector Admin Portal

Mobile Connector – Submit Organization Key Request

1. Submit the URL of your Mobile Connector Web Service to MobileConnect@projectcost.net.

The URL format is: <http://yourservername.com:externalport#/ProjectCostService.svc>

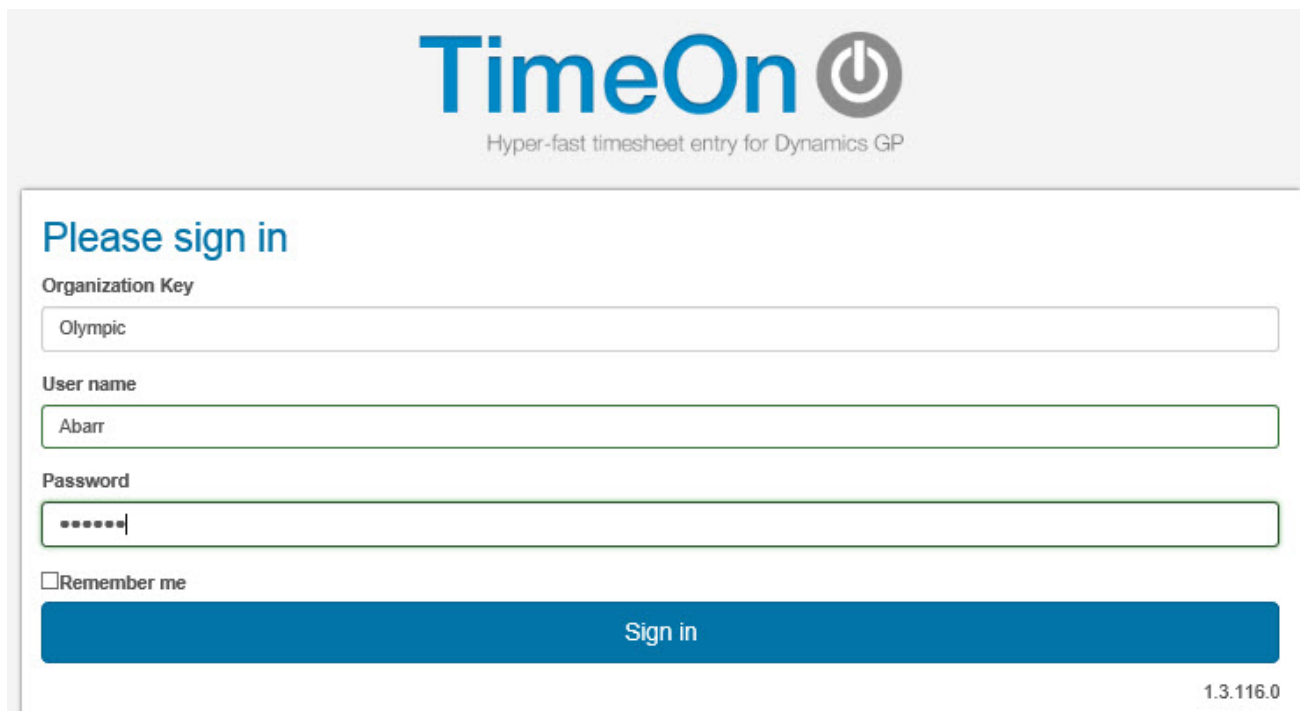
Example: <http://time.projectcost.net:89/ProjectCostService.svc>

Equally, you must specify the Project Cost EmployeeID that shall administer the Mobile Connector portal site. This user can then grant or revoke access to the mobile app, as well as configure certain default settings and mail integration.


2. You will then be provided with an Organization Key

Mobile Connector - Organization Admin Portal Logon

3. Once you have received your Organization Key, navigate to: <http://timeon.apcurium.com:8040>
Enter the Organization Key, username (the EmployeeID you provided in step 1), and the EmployeeID password



The screenshot shows the login interface for the TimeOn Organization Admin Portal. At the top, the 'TimeOn' logo is displayed with a power button icon, and the tagline 'Hyper-fast timesheet entry for Dynamics GP' is below it. The main heading is 'Please sign in'. There are three input fields: 'Organization Key' with the value 'Olympic', 'User name' with the value 'Abarr', and 'Password' with masked characters '*****'. A 'Remember me' checkbox is present and unchecked. A large blue 'Sign in' button is at the bottom. The version number '1.3.116.0' is in the bottom right corner.

TimeOn 
Hyper-fast timesheet entry for Dynamics GP

Please sign in

Organization Key

User name

Password

☐ Remember me

Sign in

1.3.116.0

Mobile Connector - Organization Admin Support Email Default Message

Organization Admin

Key	Name	Project Cost Url
Apcurium	Apcurium Inc.	http://gp.apcurium.local:8086/ProjectCostService.svc

Support Email Content

Attention mobile app support team:
Please see my attached error log.

Save

[Configure exchange](#)
[Configure users](#)
[Back to list of organization](#)

As seen in the above screen, you may specify a default message body for emails support emails sent from users in the event of a problem.

Mobile Connector - Organization Admin MS Exchange Configuration

4. Select Configure exchange in order to specify your organization’s MS Exchange Configuration

5. In the fields provided above, specify your Organization’s MS Exchange web service URL.
- Your Exchange administrator should provide URL, and account credentials needed to test

MS Exchange Configuration

☒ Is Active

Server Url

https://pod51043.outlook.com/ews/Exchange.asmx ⓘ

Save

Test configuration

Test Username

Test Username

Test Password

Test Password

Test Domain

Test Domain

Test

[Back to organization settings](#)

the
it.

6. Select “Back to organization settings”, and then “Configure users”

Mobile Connector - Organization Admin Configure User Access

Edit Users

Number of users 10/25

[Back to organization settings](#)

Id	User Name	Last Seen	Access	Rights
ABarbariol	Angela Barbariol	never	Revoke Access	Give Admin rights
ABarr	Adam Barr	14 hours ago	Revoke Access	Remove Admin rights
ADelaney	Aidan Delaney	never	Revoke Access	Give Admin rights
BDiaz	Brenda Diaz	never	Revoke Access	Remove Admin rights
Ccuneo	Charles Cuneo	never	Revoke Access	Give Admin rights
Crose	Cindy Rose	never	Revoke Access	Give Admin rights
GErickson	Gregory Erickson	never	Revoke Access	Give Admin rights
JChen	John Chen	never	Revoke Access	Give Admin rights
JClayton	Jane Clayton	never	Revoke Access	Give Admin rights
JDoyle	Jenny Doyle	1 weeks ago	Revoke Access	Give Admin rights
LBonifaz	Luis Bonifaz	never	Grant Access	Give Admin rights
NBuchanan	Nancy Buchanan	never	Grant Access	Give Admin rights
PAckerman	Pilar Ackerman	never	Grant Access	Give Admin rights

[Back to organization settings](#)

- You may now grant access to each of your Olympic Project Cost employees. You may “Give Admin rights” to any user that should access the Mobile Connector Access Portal.

When you Grant Access, a Welcome Email is sent to each user, with instructions to download the mobile app.

Users must first be fully setup in Project Cost. See Project Cost User Guide for instructions on setup.

Mobile Connector - Organization Admin Welcome Email Template

The Welcome Email will be sent to the address on record for each employee in the PC User Setup window.

The email contents are:

Dear <Firstname> <Lastname>,

You've been given access to <Your Company>'s mobile app for Time & Expense. To get started, please download the app from the app store.

Apple (iOS) users: <https://itunes.apple.com/app/id703732379>

Google (Android) users: <https://play.google.com/store/apps/details?id=com.apcurium.TimeOn&hl=en>

Your credentials

Organization is : <Organization Key>

Login username is : <PC EmployeeID>

Password : use your existing Olympic Web Suite password.

If you don't remember your password, please contact your Dynamics GP administrator.

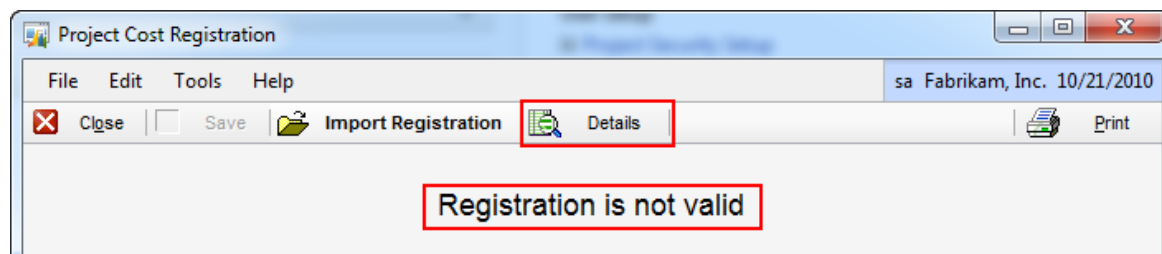
Trouble Shooting Common Issues Encountered


In the event of an error, Project Cost will provide the user with information relating to the problem encountered. Below are Tech Knowledge documents to assist the user with common setup issues for the Time & Expense module.

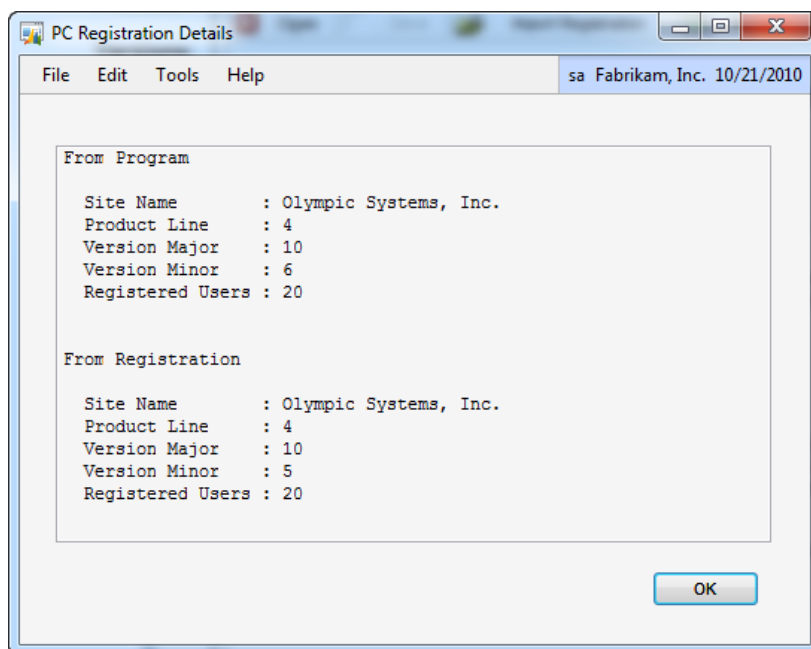
Document ID: TK 00086
Date Created: October 21, 2010
Product: All Projects

Versions: v10.03.01 or later
Module/Process: Project Cost Registration

Issue: 'Registration is not valid' when importing registration token.



Resolution: Click on the Details  Details button to open the PC Registration Details window.

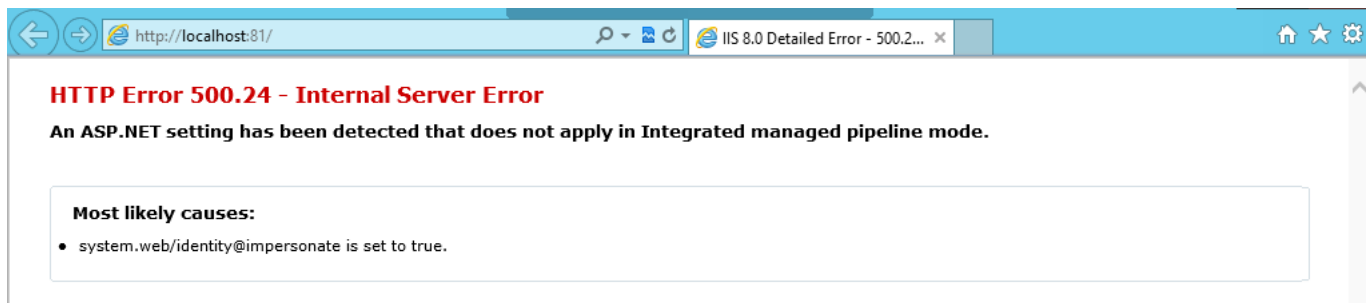


Send a screen shot of this window to: support@projectcost.net
Call Olympic Systems for assistance at 206-547-5777 ext 119

Document ID: TK 00114
Date Created: June 27, 2013
Product: All Projects

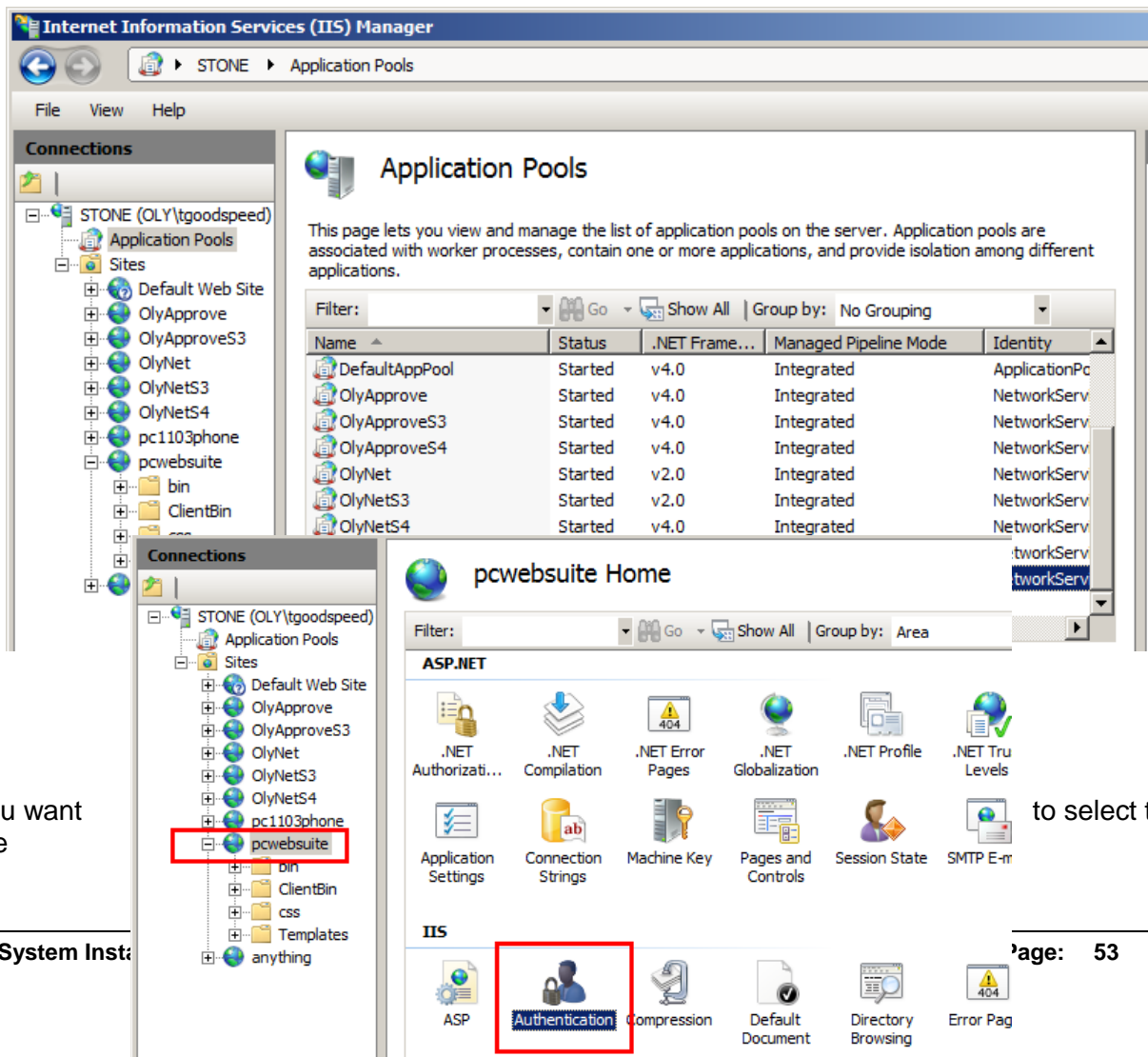
Versions: v11.03.01 or later
Module/Process: IIS Configuration - Time & Expense Entry

Issue: Received HTTP Error 500.24 when launching pcwebsuite



Resolution:

You should use integrated as your Managed Pipeline Mode on your Application pool.

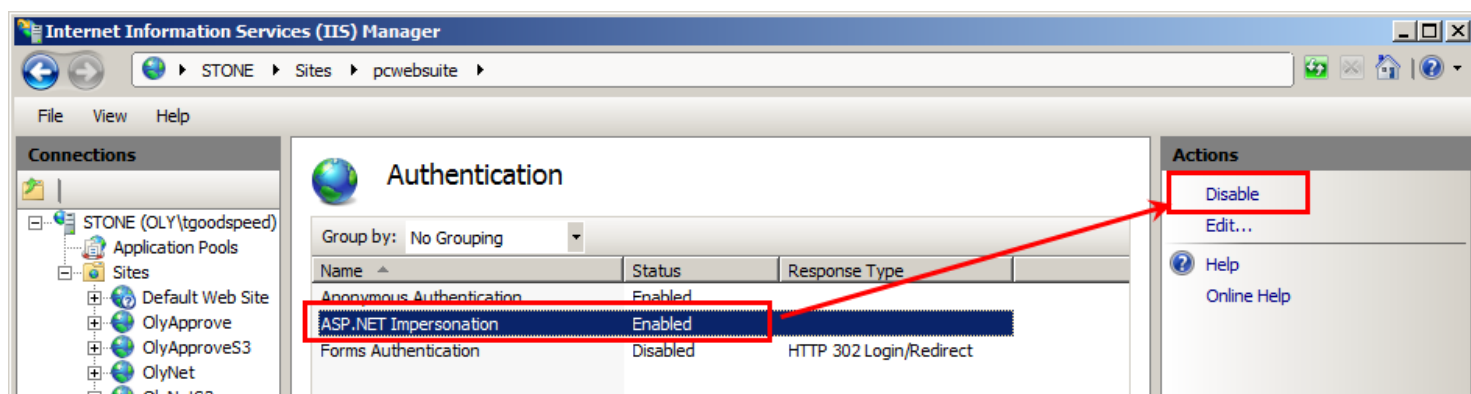


Next you want
web site

to select the

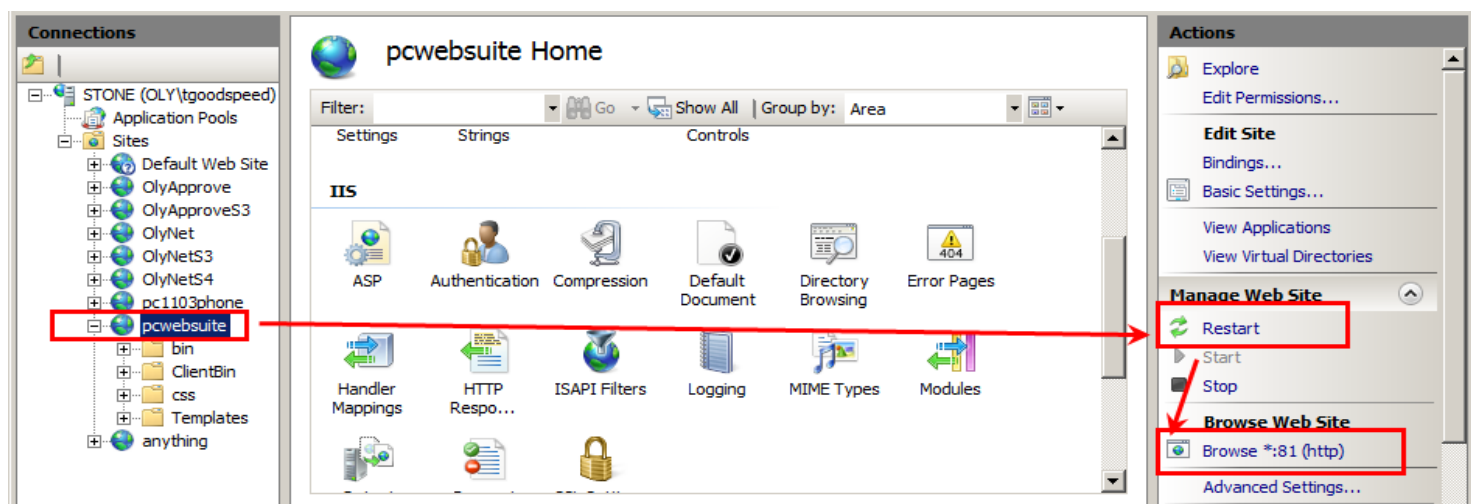
(pcwebsuite) and double-click on Authentication under the IIS section

Now select the ASP.NET Impersonation group and click the Disable button in the Actions pane.



Now select the site again on the Connections pane

Click the Restart button and then browse the site to test your results

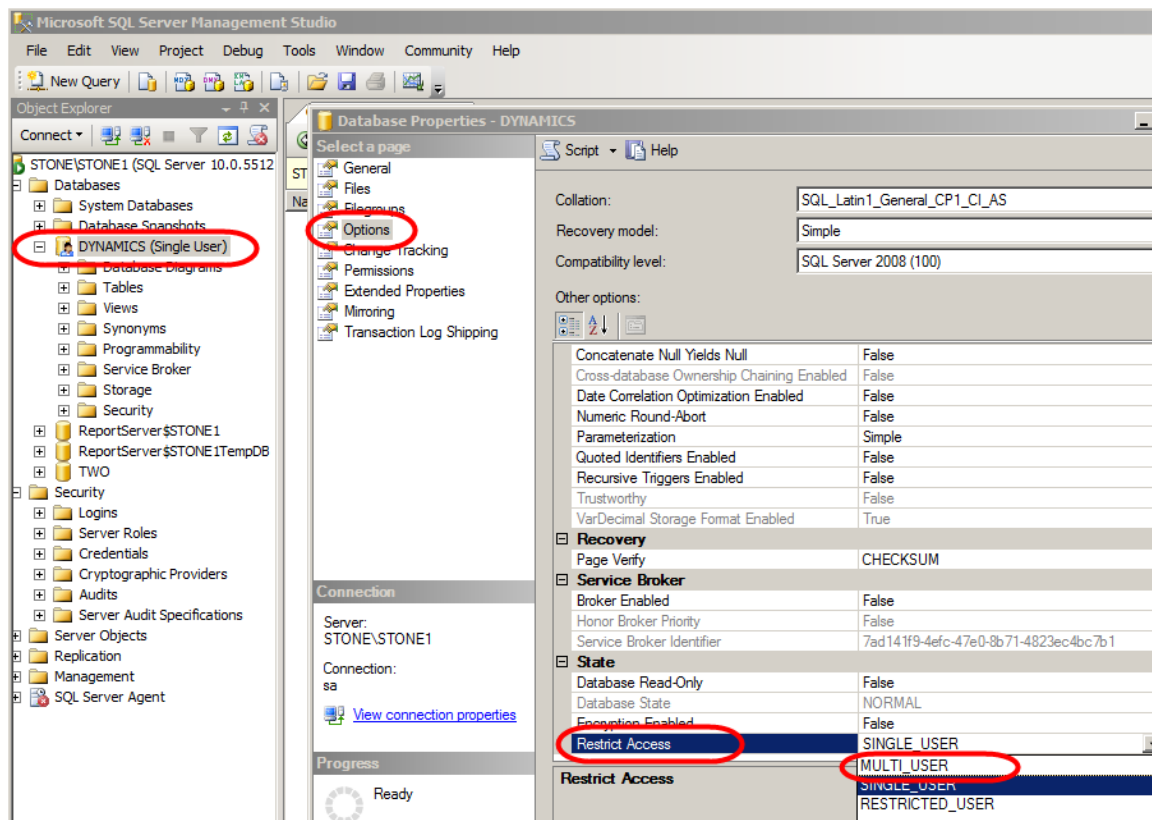


Document ID: TK 00112
Date Created: May 6, 2013
Product: All Projects

Versions: v11.02.03 or later
Module/Process: Time & Expense Entry

Issue: "SY_Registration Record not found" error received on launch of GP

Resolution: This is an extremely unusual error.
It was caused by the system database being left in a Single-User mode.
Right Click on the **Database** and select **Properties**
Click on **Options** and scroll down to **Restrict Access**
Select **MULTI-USER**
Save the record.



Document ID: TK 00126
Date Created: November 7, 2014
Product: All Projects

Versions: v12.02.01 or later
Module/Process: Project Cost AddIn Registration

Issue: Project Cost AddIn Failed to Load
– Add-In Exception in Terminal Server Environment

Cause:

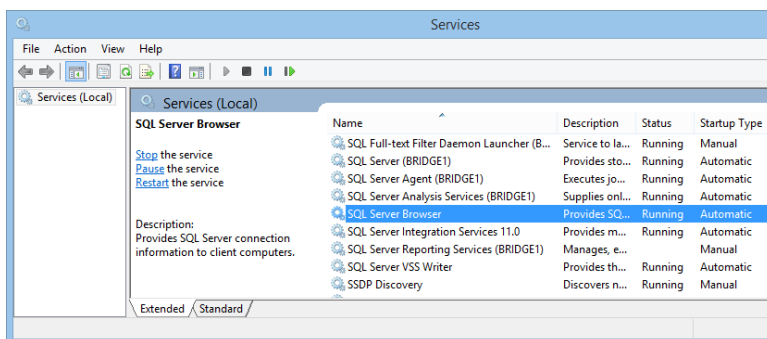
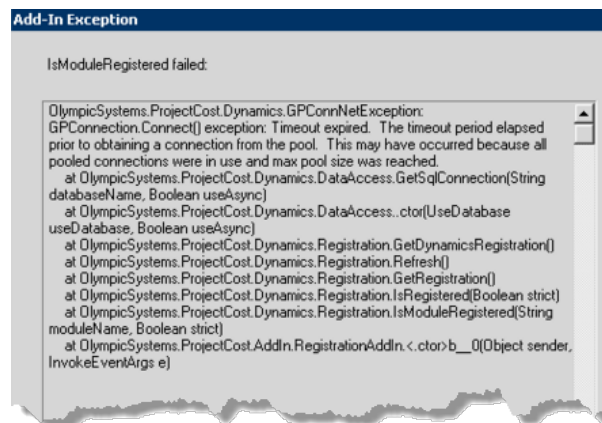
First Check permissions to the **GP Addins** directory – make sure all users have full control over the directory and that the files did not come in blocked.(see TK 00121)

Second check that **TCP/IP** is enabled as a connection option to the Sql Server. (see TK 00115)

Third check that **SQL Server Browser** is running.

To start the SQL Server Browser service

- On the **Start** menu, right-click **My Computer**, and then click **Manage**.
- In **Computer Management**, expand **Services and Applications**, and then click **Services**.
- In the list of services, double-click **SQL Server Browser**.
- In the **SQL Server Browser Properties** window,
 - Change the **Startup Type** to Automatic
 - Click **Start** to start the Service.
- When the service starts, click **OK**.



Finally, this problem can occur because some non-IFS Winsock Base Service Providers (BSPs) or Layered Service Providers (LSPs) that are installed on the system intercept and change the incoming and outgoing network traffic. Therefore, when the application connects to SQL Server, these BSPs or LSPs interfere with the calls to Winsock.

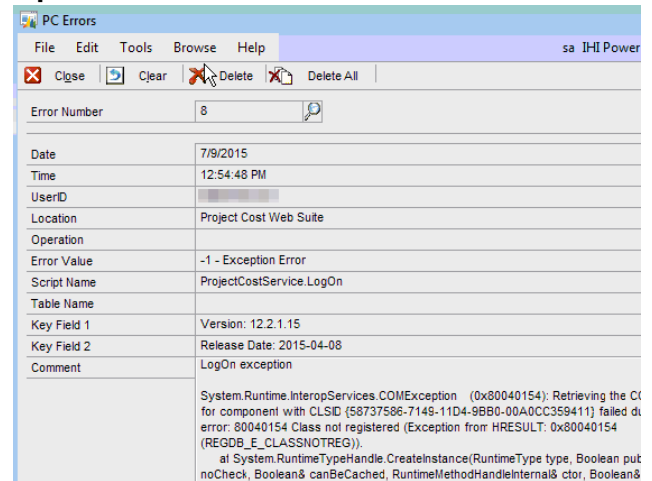
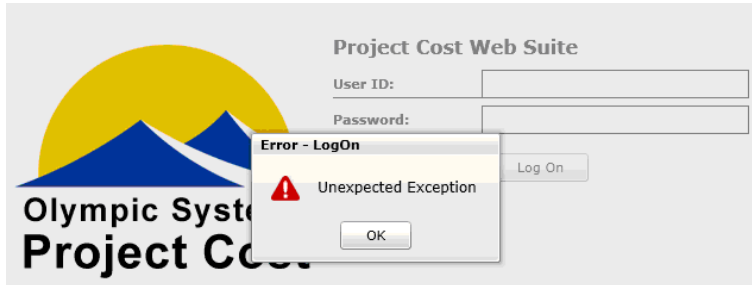
Resolution:

To resolve this issue, upgrade the .NET Framework 4.5.1 to [the Microsoft .NET Framework 4.5.2](#)

Document ID: TK 00128
Date Created: July 9, 2015
Product: All Projects

Versions: 12.01.01 or later
Module/Process: Time & Expense Web Approvals

Issue: Received Error – LogOn Unexpected Exception



PC Errors – Logon Exception – System Runtime Interop Services...

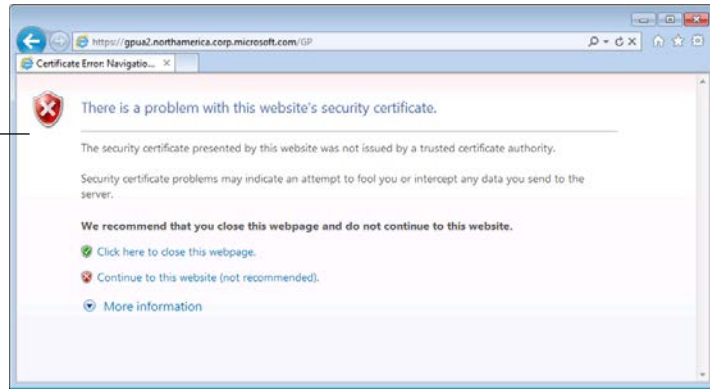
Explanation of Problem: This is caused by the Dexterity Shared Components not being installed on the IIS Server.

Dexterity Shared Components are available on the GP Install Disk.

Importing a Self-signed Security Certificate

When you are using a self-signed security certificate, there is no certificate authority available to verify the certificate. If you use another computer to connect to the Microsoft Dynamics GP web client installation that is using a self-signed security certificate, you will see a certificate error displayed in the web browser.

If a self-signed security certificate is used for the Project Cost Web Suite installation, you will see a security certificate error when you try to connect from a different computer.



If a self-signed security certificate is used for the Project Cost Web Suite, the certificate error can prevent you from successfully logging into the site.

The solution is to import the security certificate into the machine that will be accessing the web client.

Step 1. Retrieve the Security Certificate

1. Open Internet Explorer on the computer that will be used to connect to the Project Cost Web Suite.
2. Connect to the Project Cost Web Suite site. The browser will display a message indicating that there is a problem with the web site's security certificate. Click **Continue to this website**.
3. The URL area of the browser you will appear in red, indicating a security certificate error.

Click **Certificate error** to display the details of the error.

4. In the Drop-Down, Click **View Certificates**.
5. In the Certificate window, Click **Details** tab.
6. Click **Copy to File** to open the Certificate Export Wizard. Click **Next**.
7. Select the **DER encoded binary X.509** format, and Click **Next**.

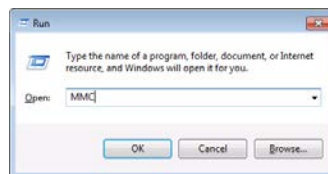


8. Click **Browse** to open a file dialog box that allows you to name the certificate file and select a location to store the file. Click **Save**.
9. In the Certificate Export Wizard, Click **Next**. Then click **Finish**. A message will be displayed indicating that the security certificate was exported.
10. Click **OK** to close the Certificate window.

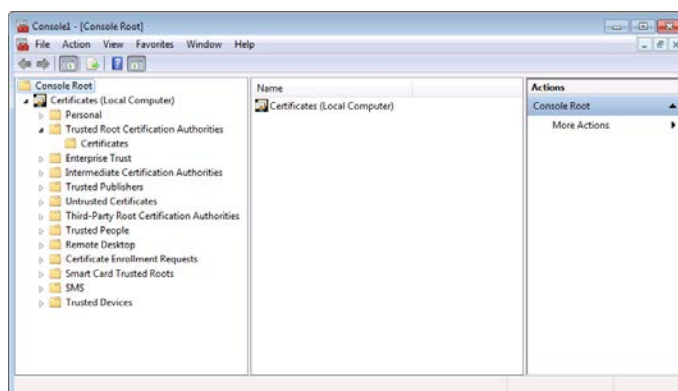
Step 2. Install the Security Certificate

1. On the computer that will be used to connect to the web client, open the Run prompt. (Choose Start > Run or press Window-R)

2. In the Open field, type **MMC** and then click **OK**.



3. In the Microsoft Management Console, open the File menu and choose **Add/ Remove Snap-in**.
4. In the Add or Remove Snap-ins window, choose the **Certificates** snap-in from the Available snap-ins list, and then click **Add**.
5. In the Certificates snap-in dialog box, choose **Computer account** and then click **Next**.
6. In the Select Computer dialog box, choose **Local computer** and then click **Finish**.
7. In the Add or Remove Snap-ins window, click OK.
8. In the left pane, expand the Certificates (Local Computer) node, and then expand the Trusted Root Certification Authorities node.



9. Under **Trusted Root Certification Authorities**, right-click the **Certificates** node, point to **All Tasks**, and then click **Import**.
10. In the Certificate Import Wizard welcome screen, click **Next**.
11. In the File to Import screen, click **Browse**.
12. Browse to the location of the security certificate that you retrieved from the previous procedure. Select the .cer file and click **Open**. Click **Next** to continue.
13. In the Certificate Store screen, verify that the certificate is being added to the Trusted Root Certification Authorities store. Click **Next**.
14. Click **Finish** to complete the import process.
15. Close the Microsoft Management Console window.

Hardware/Software Operational Environment Requirements v14.xx/16.xx

<i>Item</i>	<i>SQL Server</i>	<i>Web Server</i>	<i>GP Client</i>	<i>Web Client</i>
Operating System 32 or 64 bit	Microsoft Windows Server 2012 Datacenter Edition Microsoft Windows Server 2012 R2 Datacenter Edition Microsoft Windows Server 2012 Essentials or Standard Edition Microsoft Windows Server 2012 R2 Essentials or Standard Edition Microsoft Windows Server 2008 R2 Enterprise Edition SP1 or later Microsoft Windows Server 2008 Enterprise Edition SP2 or later		MS Windows 10 Professional Enterprise Edition MS Windows 8/8.1 Professional Ultimate Enterprise Edition MS Windows 7 Professional Ultimate Enterprise Edition	MS Windows 10 Professional Enterprise Edition MS Windows 8/8.1 Professional Ultimate Enterprise Edition MS Windows 7 Professional Ultimate Enterprise Edition
Processor	2 Dual Core or 4 Single Core Processors		1 Dual Core or 1 Single Core Processor 2.6 GHz or greater	1 Dual Core or 1 Single Core Processor 2.6 GHz or greater
Available Hard Drive Space	RAID 1 for operating system and applications (2 disks) RAID 1 for SQL database log files (2 disks) RAID 1 for TempDB (2 disks) RAID 0 for SQL backups (full and log) (2 disks) RAID 0+1 for data files (8 disks or more)		2 GB or More on the System Root	
Minimum RAM	8 GB or More	8 GB or More	2 GB or More	2 GB or More
Network Card	1 GB Ethernet	1 GB Ethernet	1 GB Ethernet	1 GB Ethernet
Database Requirements	(Note: The IIS Server and the GP Client need connectivity to the SQL Server. The Web Client connects via the IIS Server.) MS SQL Server 2014 Enterprise or Standard Edition MS SQL Server 2012 Enterprise or Standard Edition Supported Microsoft SQL Server Collation 1. Dictionary Order Case Insensitive - Sort Order 52 (SQL_Latin1_General_CP1_CI_AS) 2. Binary - Sort Order 50 (Latin1_General_BIN) *** <u>Binary is Not Recommended</u> ***			
Other Applications	.Net Framework v4.5 or later ASP.Net 4.0+ SQL Native Client			
Internet Explorer	V8.0 or newer	V8.0 or newer	V8.0 or newer	V8.0 or newer
Silverlight		Silverlight 5	Silverlight 5	Silverlight 5
UPS Battery Backup	Yes	Yes	Yes	Yes