

Incident management from every angle.™

# **Installation Guide**

Perspective by PPM 2000<sup>™</sup>

Version 3.3

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# Minimum System Requirements

The following requirements are for Perspective<sup>™</sup> operating in a traditional LAN/WAN environment with the web server component running on a separate Microsoft<sup>®</sup> IIS box. These configurations are for planning purposes only—please work with your PPM 2000 Account Manager for a specific assessment of your needs. These requirements apply to Perspective v.3.3, Perspective Integration Services<sup>™</sup> v.3.3, Perspective DispatchLog<sup>™</sup> v.4.0, Perspective e-Reporting<sup>™</sup> v.2.0, Perspective Focal Point<sup>™</sup> v.1.2, Perspective Mobile<sup>™</sup>, Perspective Visual Analysis<sup>™</sup> v.3.3 and Perspective Workflow<sup>™</sup> v.1.0.

	Minimum	Recommended
Client Machine		
Processor Speed	1.5 GHz	3 GHz+
Memory	1 GB	2 GB+
Operating System	Windows <sup>®</sup> Vista SP 2	Windows <sup>®</sup> 7 SP 1
.NET Framework	Version 4.0	Version 4.0
Web Browser	Internet Explorer <sup>®</sup> 7.0	Internet Explorer <sup>®</sup> 9.0
Third Party Application	Adobe <sup>®</sup> Reader <sup>®</sup> 7.0.5+ Microsoft Office <sup>®</sup> 2007 <sup>1</sup> Sun Java <sup>™</sup> Runtime Environment 6.0 U7 <sup>2</sup> QlikView <sup>™</sup> Analyzer Plug-in for Internet Explorer <sup>®3</sup>	Adobe <sup>®</sup> Reader <sup>®</sup> 9.4.0+ Microsoft Office <sup>®</sup> 2010 <sup>1</sup> Sun Java <sup>™</sup> Runtime Environment 7+ <sup>2</sup> QlikView <sup>™</sup> Analyzer Plug-in for Internet Explorer <sup>®3</sup>
Mobile Device <sup>4</sup>	See Perspective Mobile <sup>™</sup> Supported Device List	See Perspective Mobile <sup>™</sup> Supported Device List
Web Services Server <sup>5,</sup>	6	
Available Disk Space <sup>7</sup>	1 GB	1 GB
Processor Speed	2 GHz	2 GHz multicore or better
Memory	2 GB	4 GB+
Operating System	Windows Server <sup>®</sup> 2008 SP 2 64 bit	Windows Server <sup>®</sup> 2008 R2 SP 1 64 bit
.NET Framework	Version 4.0	Version 4.0
IIS—Internet Information Services <sup>8</sup>	IIS 7.0	IIS 7.5
C++ Runtime Libraries	C++ 2010 SP1 Runtime Libraries (x64) 10.40219	C++ 2010 SP1 Runtime Libraries (x64) 10.40219
QlikView <sup>™</sup> Server <sup>9</sup>	64 bit Version 9 SR 2	64 bit Version 9 SR 2
SQL Server <sup>®</sup> Machine <sup>6</sup>		
Available Disk Space	2 GB	20 GB+, SCSI Hard Drive
Processor Speed	3 GHz	64 bit Server Dual Core or Multiple Processors
Memory	2 GB	4 GB+
Database Server <sup>10</sup>	SQL Server <sup>®</sup> 2008 Standard SP 1 or R2	SQL Server <sup>®</sup> 2012 Standard or Enterprise
Reporting Services	SQL Server <sup>®</sup> 2008 Reporting Services	SQL Server <sup>®</sup> 2012 Reporting Services

Deployment Note: Perspective client is deployed as a ClickOnce application, launched from Internet Explorer<sup>®</sup>; it has a zero client footprint and does not require administrative rights to launch.

Network Note: If single sign-on authentication or add from Active Directory<sup>®</sup> is used, the Active Directory<sup>®</sup> Services must be enabled on the Perspective Services' web server.

DTC Note: Perspective Integration Services requires the Microsoft<sup>®</sup> Distributed Transaction Coordinator (DTC) service to be installed and enabled on the Internet Information Services (IIS) for Windows<sup>®</sup> Web Server and the Microsoft<sup>®</sup> SQL Server<sup>®</sup> for Perspective.

- 1. This requirement only applies if using Outlook<sup>®</sup> email integration.
- 2. This requirement only applies to Perspective Visual Analysis.
- 3. This requirement only applies to Perspective Focal Point.
- 4. This requirement only applies to Perspective Mobile.
- 5. These requirements apply to Perspective, Perspective e-Reporting, Perspective Focal Point and Perspective Workflow.
- These requirements are for systems with 5 to 25 concurrent users. For Perspective systems with less than 5 or more than 25 concurrent users, please contact your PPM 2000 Account Manager for a specific assessment of your needs.
- 7. Depending on the size of your Perspective database, more disk space may be required for Perspective Focal Point and Perspective Workflow.
- 8. Requires IIS 6 Management Tools installed.
- 9. This requirement only applies to Perspective Focal Point. A limited QlikView<sup>™</sup> Server license is included with Focal Point.
- SQL Server<sup>®</sup> 2008 Express is only supported for the Standard Edition of Perspective.

# **Standard Install**

## SQL Database Server

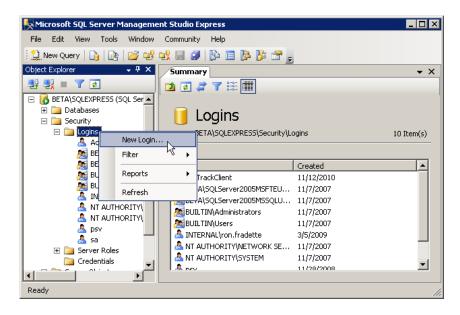
1. Ensure Microsoft SQL Server 2008 Standard SP 1 or better has been installed.

Note: If installing on Windows Server 2008, the database package must be run as an administrator.

- 2. Install the Perspective database:
  - a. Launch Microsoft SQL Server Management Studio.
  - b. Right click DBS and select Restore Database.
  - c. Under **From Device**, click the **Browse** (...) button and browse to the appropriate database: default, sample or system.

Note: Standard backups can usually be found in **Perspective Install > Database Setup > New**. If you're unsure which database to use, contact your Perspective administrator.

- d. Click OK.
- e. Check the **Restore** option.
- f. Enter a database name in **To Database**, then click **OK**. The database should now appear in the database list.
- 3. Create a new SQL user that will be used by Perspective to connect to the SQL Server:
  - a. Launch Microsoft SQL Server Management Studio. In the menu on your left, expand the **Security** node, right-click **Logins** and select **New Login**.



- b. In the **Login New** form, under the **General** page, type in the **Login Name** and modify the rest of the options according to your preference.
- c. Open the **User Mapping** page. Check the appropriate boxes to grant the new account access to the Perspective database with the **db\_owner** role membership rights, then click **OK**.

🚪 Login - New					_ 🗆 🗙
Select a page	<u> S</u> Script 🗸	🚯 Help			
😭 Server Roles 😭 User Mapping	Users map	oped to this login:			
Securables	Мар	Database	User	Default Schema	▲
🚰 Status		model			
		Perspective21Sample	remnyakova		
		ReportServer\$SQLExpr			
		ReportServer\$SQLExpr			-
Connection Server: BETA\SQLEXPRESS Connection: INTERNAL\svetlana.remnyakov View connection properties Progress Ready Ready	Database db_ac db_bc db_dc db_dc db_dc db_dc db_dc db_dc db_dc db_dc db_dc db_bc	curityadmin ectiveUserRole		ΟΚ	Cancel
				UK	

## SQL Reporting Services

- 1. Ensure that SQL Server Reporting Services is installed.
- 2. From the Perspective install directory, copy the **Reports Setup** folder and all subfolders to a temporary directory on the Reporting Services computer.
- 3. Edit the **PublishServerReports.bat** file in the temporary directory. Before making any changes, save a backup copy of the original **PublishServerReports.bat** file.
  - Edit databaseServerName to <Name\_of\_Database\_Server>.
  - Edit databaseName to <Name\_of\_Database>.
  - Edit databaseUserId to <sql\_User\_Account>.
  - Edit databasePassword to <sqlUser\_Password>.
- 4. Save changes and run the **PublishServerReports.bat** file to publish reports to the Report Manager. If the file fails to run, see the "Troubleshooting Tips" section.

#### A Windows Server 2008 Warning

If installing on Windows Server 2008, the command contained in the batch file must be run from the Administrator's Command Prompt window as this will require elevated permissions. The command must be launched from the directory in which the batch file is contained.

- 5. Browse to your Reporting Services Web site (e.g., http://localhost/Reports/).
  - a. On the Contents tab, click the **Perspective** folder.
  - b. Click Properties, Security and New Role Assignment, then Edit Item Security.

🖉 Report M	anager - Windows Internet Explorer		
00-	http://localhost/Reports/Pages/Folder.aspx?II	🔄 🗙 灯 Live Search	<b>₽</b> •
File Edit	View Favorites Tools Help		
🚖 Favorites	🕖 Report Manager		
	SQL Server Reporting Services		Home   Help 📥
	Home >	Search for:	Go
	Perspective	1	
<u>Contents</u>	Properties		
General	X Delete 🔡 New Role Assignment 🔹	Revert to Parent Security	
Security	□ Group or User↓ V Role(s)		
,	Edit BUILTIN\Administrators Content	Manager	
	Edit BUILTIN\Users Content	Manager	
			Ŧ

c. Enter a Service Account for the Perspective application to use when connecting to Reporting Services. Create a new local user, if you do not have one already. Ensure that the password is not set to expire.

d. Select the Browser role and click OK.

6 Rep	port Manager - Window	rs Internet Explorer		IX
0	🕥 🗢 🙋 http://localh	ost/Reports/Pages/EditGroup.aspx 💌 📓	🔄 🗙 ಶ Live Search 🛛	•
File	Edit View Favorites	Tools Help		
🔶 Fa	vorites 🛛 🏉 Report Mar	nager		
2		porting Services Assignment	Search for: G	
Grou	up or user name: re	role-based security for Perspective. mnyakova : to assign to the group or user.		
	Role↓	Description		
	Browser	May view folders, reports and sub	scribe to reports.	
	<ul> <li>Content Manager</li> <li>May manage content in the Report Server. This includes folders, reports and resources.</li> <li>My Reports</li> <li>May publish reports and linked reports; manage folders, reports and resources in a users My Reports folder.</li> </ul>			
	Publisher	May publish reports and linked re	ports to the Report Server.	
	Report Builder	May view report definitions.		
ок	Cancel			

### Perspective Services (Application Web Server)

1. Ensure Internet Information Services (IIS) is installed.

#### Application Pool

As of Perspective Version 3.3, the appropriate application pool is set up as part of database setup and doesn't have to be done manually.

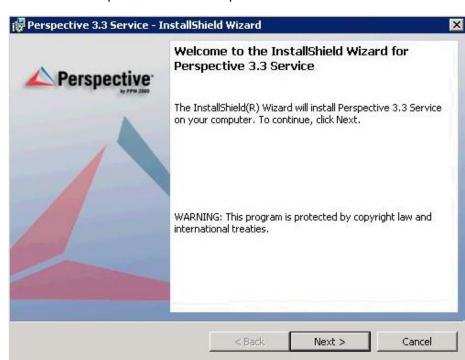
- From the Perspective Install > Web Service Setup > Perspective Services directory, run (as an administrator) Perspective.Services.exe. To complete the setup, follow the wizard's guidelines.
  - a. If you already have Visual C++ 2010 SP1 Runtime Libraries (x64) and .NET
     Framework 4.0 installed, skip to step 2c. Otherwise, you will be prompted to install the Runtime Libraries and/or .NET Framework.

Note: As of Perspective Version 3.3, the full Microsoft .NET Framework 4.0 pre-requisite installer is bundled into the Perspective installer. .NET Framework 4.0 is required; if it is not yet installed, it can be done so as part of this installation process.

b. Click Install and wait for the process to complete.

ent Visual C++ 2010 SP1 Re	distributable Pa	ickage (x64)	

Note: This process may trigger Windows' UAC (User Access Control) security feature. If prompted, click **Yes** to allow Perspective Services to install.



c. Wait for the Perspective Service Setup Wizard to start.

d. Read the License Agreement. If you accept the terms and conditions, select the appropriate radio button and click **Next**.

		PM 2000 Inc. License Agreement	Ê
HIS SOF	이 집에 가지 않는 것이 안 집에 안 한 것이 같이 많이 했다.	ENT APPLIES TO THE FOLLOW	ING SOFTWARE
÷	Perspective by PPM 2000™ Perspective by PPM 2000™ Perspective DispatchLog® Perspective e-Reporting™ Perspective Focal Point™	Premium	

e. Select the appropriate installation directory. Click Next.

Perspec	tive 3.3 Service - InstallShi	eld Wizard		
	<b>ion Folder</b> xt to install to this folder, or clic	k Change to install	to a different folde	
~	Install Perspective 3.3 Servic	25		
0	C:\inetpub\wwwroot\Perspec			Change
tallShield				

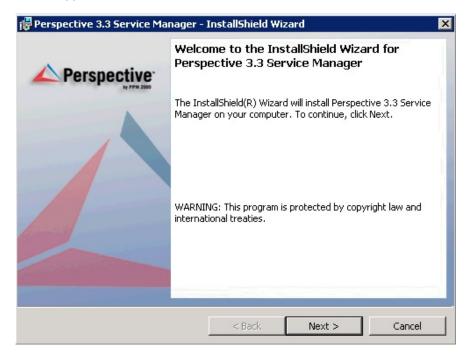
f. In the following screen, click **Next** to confirm the installation. Wait while Perspective Services is being installed.

Perspective 3.3 Service - InstallShi	eld Wizard		
Ready to Install the Program The wizard is ready to begin installation			$\wedge$
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation	settings, click Back.	Click Cancel to
istallShield	< Back	Install	Cancel

g. Click **Finish** once the installation is complete.

## Configure Connections Using Service Manager

- 1. Install Perspective Service Manager:
  - a. From your Perspective installation folder, run Service Manager Setup. The installation wizard appears; click **Next** to continue.



b. Read the License Agreement. If you accept the terms and conditions, select the appropriate radio button and click **Next**.

🙀 Perspective 3.3 Service Manager -	InstallShield Wiz	ard	×
License Agreement Please read the following license agreer	ment carefully.		
	M 2000 Inc. .icense Agreeme	ent	<u> </u>
THIS SOFTWARE LICENSE AGREEME PRODUCTS:	NT APPLIES TO 1	THE FOLLOWING	SOFTWARE
<ul> <li>Perspective by PPM 2000™</li> <li>Perspective by PPM 2000™</li> <li>Perspective DispatchLog®</li> <li>Perspective e-Reporting™</li> <li>Perspective Focal Point™</li> </ul>			<b>_</b>
<ul> <li>I accept the terms in the license agreen</li> <li>I do not accept the terms in the license</li> </ul>			Print
InstallShield.	< Back	Next >	Cancel

c. Select the appropriate installation directory. Click Next.

🙀 Perspec	tive 3.3 Service Manager - InstallShield Wizard 🛛 🛛 🗙
	ion Folder xt to install to this folder, or click Change to install to a different folder.
	Install Perspective 3.3 Service Manager to: C:\Program Files\PPM 2000 Inc\Perspective\3.3.0\ServiceManager\
InstallShield -	< <u>B</u> ack <u>Next</u> Cancel

d. In the following screen, click **Next** to confirm the installation. Wait while Perspective Service Manager is being installed.

🚏 Perspective 3.3 Service Manager - InstallShield Wizard 🛛 🛛 🔀
Ready to Install the Program       The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< <u>Back</u> Install Cancel

- e. Click **Finish** once the installation is complete.
- From the Start menu, launch (as an administrator) Perspective Service Manager. You'll be prompted to select a Perspective configuration file. Navigate to the installed location of Perspective Services, select the Perspective\_Default.config (default location: C:\inetpub\wwwroot\PerspectiveServices) and open the configuration file.

Database Connec	ction	×
Perspective		
	Connection ID Sample SQL Server [(local)	
	Default Language ID	
	Username: psv Password: ••••••	
	Databases	
	Perspective_Default	
	OK Cancel	

You'll be prompted for database information.

3. Enter a new name for **Connection ID.** 

Note: The Connection ID cannot contain the word "Default".

- In the SQL Server lookup list, select your SQL Server or type the name of your server in the text box.
- 5. Leave **Default Language ID** set to **0**, unless instructed otherwise by PPM 2000.
- 6. Ensure **SQL Authentication** is selected, and enter the SQL **Username** and **Password** created when installing the database.
- 7. Select your Perspective database from the **Databases** lookup list.

Note: If you receive an "Unable to connect to the named server" message, you have entered either the wrong SQL server name or credentials.

- 8. Open the **Product Validation** component from the menu on the left, then click **OK** to save and add the primary connection.
- 9. In the top field, enter your **Company Name**, as listed on the email provided to you with your license keys.
- 10. Enter the **Master Key** that applies to the Company Name entered. Note it is case-sensitive.
- Click the Validate button. The fields below will indicate the number of active licenses, License Expiry Date, Product Level and specifications of individual Licensed Modules (i.e., Product, Number of Users and Expiry Date).

Note: The **Validate** function will access a central licensing service hosted by PPM 2000 Inc. Internet connection is required to download your license file.

Optional: If you do not have Internet connection available, you may contact Technical Support for your license file and manually update it in the **License Location** field.

rspective Service Manager				_
vice Manager Settings	Company Name:			
Configuration	PPM 2000 Ind			
Conliguration	Master Key:			
Database	PXPERS3815X00500000		Validate	
Product Validation	Number Of Licenses:			
	25			
Quick Find Indexing	License Expiry:			
	12/31/2099			
User Defined Fields	Product Level:			
	Premium On Premise			
Downloads	Licensed Modules:			
	Product	Number of Users	Expiry Date	
	Visual Analysis	5	12/31/2099	
	Mobile Blackberry	5	12/31/2099	
	e-Reporting	5	12/31/2099	
	License Location:			
			Up	idate

- 12. Open the Database component from the menu on the left, double-click your database, open the **Report Service** tab and type the report server URL in the **Report Server URL** box.
- Click the **Test** button. You should receive a prompt telling you the URL is valid. If not, then double-check that your configuration is correct and try again. If you keep receiving an error message, please call the Technical Support team at 1-877-776-2995 for assistance.
- 14. Enter the name of your **Reports Folder**.
- 15. Proceed to the Report Service User section below. Enter the **Domain**, **Username** and **Password** that were granted browser rights when setting up the server-side reports.
- 16. Click **OK**.

Database Connection
Database Connection       Report Service         Perspective       Analysis Expert Connection         Report Service Host       Authentication Mode         Report Service Host       Test         http://myserver/reportserver       Test         Reports Folder       Perspective         Perspective       Report Service User         Domain       User_DomainName         User_LoginName       Password         eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee
OK Cancel

- 17. Select the **Configuration** component from the Perspective Service Manager menu.
- 18. To encrypt the Perspective\_Default.config file, select the **Encrypt Configuration?** checkbox.
- 19. Open the Client-Side Configuration tab.
- 20. Enter the **Download URL for Client-Side Reports** for the client reports configuration files to update automatically (i.e., http://<server name>/perspectiveservices/client).

http:// <servername>/pers</servername>	pectiveservices/client/		
Location of Updated Client	side Reports:	Browse	
Reports Exist on Server			
Clientside Reports Version 3.3.xxxx	1		
	-1		

Note: 'xxxx' in the above screenshot denotes the latest Perspective build number.

- 21. Click **Save Changes** and click **Yes** on the save changes prompt. Then, close the Service Manager.
- 22. Double check your IIS settings:
  - a. View settings of the Perspective Services 3.3 Application Pool.
  - b. Ensure Enable 32 Bit Applications is set to FALSE. If it is not, change accordingly.
- 23. Restart IIS.

#### Advanced Configurations Warning

Many options in the Service Manager are not covered in this step-by-step Standard Install walkthrough. For the list of supported advanced setup configuration options, please, refer to the "Advanced Configurations" section that appears later in this guide. It is recommended that all setups follow the standard setup procedures outlined in this section as an initial starting point. Advanced features can then be configured as needed, after the standard setup is running and connections have been verified.

## **Client Machines**

- 1. Ensure Microsoft .NET 4.0 Framework is installed on the client machine.
- Browse to the Perspective Services URL: http://<IISServer>/PerspectiveServices.
   "IISServer" refers to the Perspective Web server installed in the previous section.

a. Click the Launch Perspective button.

Perspective	
Perspective Version 3.3	
Launch Perspective	
.Net Framework 4.0 needs to be installed to launch the	nis application.
If you do not have the .NET Framework: <u>Click here to download .NET Framework 4.0 from Mic</u>	rosoft

b. In the dialog box that opens, click **Run**.

Note: If you are using the MSI Package installer, follow the procedures below.

 Browse to the Perspective Services URL: http://<IISServer>/PerspectiveServices/default.aspx?opt=2

If you are using **?opt=1**, only the Click-Once installer will be displayed.

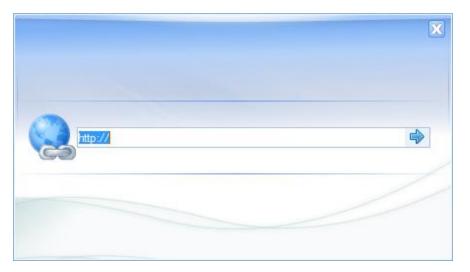
If you are using **?opt=0** or if Java Script is disabled or the Web Service is not a trusted site, both the Click-Once and MSI Package installer will be displayed.

 Click the "Click here to Download MSI Package" and follow the on-screen instructions. If you experience any problems during the download of the MSI Package or the installation of the MSI client, please call the PPM 2000's Technical Support team at 1-877-776-2995 for assistance.

rspective Version 3.3		
Download MSI Package		
Framework 4.0 needs to be installed t	a lounch this application	

 After Perspective downloads and installs, you're prompted to enter a URL. The URL should be automatically populated; if so, move to the next step. If not, enter your Perspective Services URL as before: http://<IISServer>/PerspectiveServices. <IISServer> refers to the Perspective Web server installed during the installation of Perspective.

#### Click the $\Rightarrow$ icon right of the URL to proceed.



4. Now you should be able to test the default Perspective logon. From this point onward, users must navigate to the Perspective Services URL to launch the Perspective application.

Perspective Default Logon		
User Name:	Admin	
Password:	Security	

To create a shortcut to the application on the client machine's desktop, proceed as follows:

- 1. Navigate to the **Perspective Services URL**.
- 2. Right-click the Launch Perspective button and select Copy Shortcut.
- 3. Right-click the client desktop and select **Paste Shortcut**.

#### Default Admin Master vs. Users with Administrator Rights

As of Perspective Version 3.3, there are differences between the default Admin Master account and a Perspective User with Administrator rights. Specifically, the Admin Master has select features available that other Users, even with Administrator rights, do not.

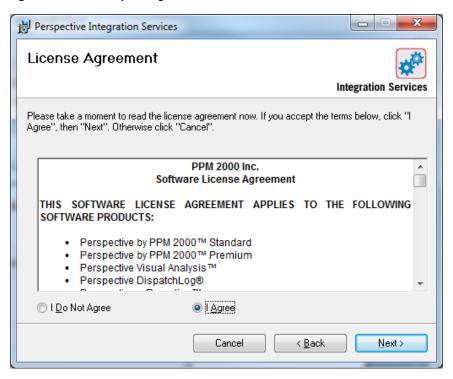
However, the default Admin Master **can only access the Administration and Dashboard panels of Perspective**. Other components are unavailable to the Admin Master; this account cannot be used for data entry.

## Install Perspective Integration Services (Optional)

#### DTC Note

Perspective Integration Services requires the Microsoft<sup>®</sup> Distributed Transaction Coordinator (DTC) service to be installed and enabled on the IIS Web Server and the Microsoft<sup>®</sup> SQL Server<sup>®</sup> for Perspective.

- From the Perspective Install > Web Service Setup > Integration Services directory, run setup.exe.
- 2. Perspective Integration Services Setup Wizard dialog box will appear. Read the information contained within and proceed to follow the steps in the Wizard required to complete the installation process. Click **Next**.
- Read the PPM 2000 Software License Agreement in the following dialog box and select "I agree" to indicate your agreement with the terms outlined. Click Next.



4. Select a Web location for the Integration Services installation by either accepting the provided default values or entering other applicable settings.

Perspective Integration Services	
Select Installation Address	*
	Integration Services
The installer will install Perspective Integration Services to the following web	location.
To install to this web location, click "Next". To install to a different web locat	ion, enter it below.
Site:	
Default Web Site 🔹	Disk Cost
⊻irtual directory:	
IntegrationServices	
Application Pool:	
DefaultAppPool 🗸	
Cancel < <u>B</u> ack	<u>N</u> ext>
Cancel < <u>B</u> ack	<u>N</u> ext >

- 5. At this point, the installer is ready to begin the installation. Confirm your intention to start the installation process by clicking **Next**.
- 6. At some point during the installation you will see another screen appear that will request you to specify the location of the **Perspective directory**.

📌 Integration Services	
Configuration Settings	Integration Services
Location of Perspective directory:	
C:\Inetpub\www.root\PerspectiveServices	Browse
	Next

7. Wait while Integration Services is being installed. Click **Close** once installation is complete.

#### HTTP and SSL Note

Perspective Integration Services' Standard Install is configured to use the secure HTTPS setting and the SSL protocol. To change these and other default settings, please contact Technical Support at 1-877-776-2995 for the "Technical Support Knowledge Base— Perspective Integration Services Configuration" document.

## **Testing Perspective Implementation**

Once you have completed the steps outlined on the previous sections, please, go through the following steps to ensure that all Perspective's components have been set up properly.

- 1. Go to the Perspective Services URL and confirm that the page loads properly: http://<localhost>/perspectiveservices.
- 2. If the above fails, go to the Perspective Services page and confirm that the page loads properly: http://<localhost>/perspectiveservices/service.asmx.
- 3. Go to the Reports page and confirm that the page loads properly: http://<reportservername>/reports.

Note: If your Reports page does not display correctly, run the **PublishServerReports.bat** file included in the Perspective Install > Reports Setup folder.

🙋 Report Manager - Windows Internet Explorer	
🚱 🗢 🖉 http://localhost/Reports/Pages/Folder.aspx?Vie 💌 🖄 🐓	X K Live Search
File Edit View Favorites Tools Help	
🔆 Favorites 🖉 Report Manager	
	Home   Site Settings   Help 🔺
SQL Server Reporting Services Home	Search for: Go
Contents Properties	
📸 New Folder 🛛 🎭 New Data Source 🛛 🖓 Upload File	📰 Show Details
Derspective	
	Y

- 4. Log on to the Perspective client—preferably not on the server itself—using your Perspective Administrator user name and password.
- 5. Once you have logged on successfully, click on the **Reports** button in the Navigation pane (on the left-hand side of the screen) and confirm that all reports are listed. The easiest way to confirm that the client-side reports are working is to verify that there are reports listed under the <Detail Reports> heading, such as the Incident, Person and Vehicle Reports. Try to run any of the reports by clicking **Preview**.
- To confirm that the server-side reports are working, try running the **Test Report** under the <Administrative Only> node. If you receive an error message, please call the Technical Support team at 1-877-776-2995 for assistance.

Note: The Report version should display as 3.3, while the Database version should display as 3.3.0.

# **Advanced Configurations**

With Perspective, your organization has a number of advanced configuration options available. Before attempting to implement any of the following options, we recommend that you complete the standard installation first; then, contact Technical Support (support@ppm2000.com) for further instructions.

SSL on Your Web Service	To secure and encrypt data sent to and from the Web service to client machines.	
Windows Authentication	To allow users to log on to Perspective and to connect to SQL service using their Windows authenticated account	
IIS Compression	To compress information sent from Web services to the client. (Recommended for installs with remote users who are not connected directly to the network. If all users are internal, compressing data may take longer than sending uncompressed data over a high-speed network.)	
Transparent Data Encryption (SQL 2008)	For encrypting data at rest (for use with Microsoft SQL Server 2008 Enterprise Edition only).	
Setting up Sample/Training Database	Default setup supports one database only. If additional databases are required, these can be set up with assistance from Technical Support.	
AE Mirroring For sites with high volumes of data that require SQL intensiv searches to be executed against a separate SQL server.		
Custom PaginationBy default, the pagination feature is set to 100 records per This number can be modified (to any value from 20 to 1000 records per page) by manually editing the <paginationpagesize>100</paginationpagesize> tag in th Perspective_Default.config file.		
Custom Legal Notice and Privacy Statement	To customize Perspective's legal notice and/or privacy statement for your organization, navigate to the Legal folder in the Perspective Services Virtual Directory, open the LegalNotice.mht or PrivacyStatement.mht file in an HTML editor (such as Microsoft Word), apply your edits, and save the file as an MHTML document with the original file name.	

# Set Up Additional Features Using Service Manager

**Perspective Service Manager** is an external application available only on the Web server hosting Perspective services. It is used to manage configuration files, databases, licenses and keys, as well as to set up a number of important features in Perspective (i.e., email and mass notifications, attachments, Quick Find indexing, user-defined fields, Custom Search integration and Integration Services URL).

To access Perspective Service Manager, go to C:\Program Files\PPM 2000 Inc\Perspective Services or open it from the Startup menu.

Remember to complete each editing action in Perspective Service Manager by clicking **Save Changes**. To implement your settings in Perspective, restart **Internet Information Services** (IIS) (and the Perspective Web server). Note that restarting IIS will affect anyone currently logged on to Perspective. Ensure that all users have saved their work and exited the program prior to completing this step.

## Configuration

Select the **Configuration** component from the Perspective Service Manager menu and open the **Configuration** tab. Click **Browse** to navigate to the **Location of Server Configuration File**.

Note: This option would be used when Perspective Services has been installed in a different location than the default options.

/	Configuration	Client-Side Configuration	Notification	Attachments	Services	AE Tools	
		on of Server Configuration File					
	C:\ine	tpub/wwwroot/PerspectiveSer	vices\Perspective	e_Default.config	Brow	se	
	PP	4 2000					
	Vers	sion 3					
					Save Changes	E <u>x</u> it	

## **Client-Side Configuration**

- 1. Select the **Configuration** component from the Perspective Service Manager menu and open the **Client-Side Configuration** tab.
- To update the configuration with a .zip file provided by the Technical Support, click Browse to navigate to the Location of Updated Client-Side Reports. The field below will indicate the Version of the client-side reports.
- 3. Click **Update Reports to Server** to complete the update.

Note: This option would be used if a newer version of client-side reports is available.

http:// <servername>/perspectiveservi</servername>	ces/client/	_		
Location of Updated Clientside Reports	:	_	1	
		Browse		
Reports Exist on Server:				
Clientside Reports Version:				
3.3.xxxx				
1				
Update Reports to Server				

Note: 'xxxx' in the above screenshot denotes the latest Perspective build number.

## **Email Notifications**

In Perspective, users may send email notifications containing incident or case details or report attachments. Otherwise, email notifications may be sent, when new investigators are assigned to an investigation, or when assignments are created, modified or completed.

Note: The Case and Investigation components are only available in the Perspective Premium.

To set up email notification options, select the **Configuration** component in the Perspective Service Manager menu and open the **Notification** tab.

There are two options for configuring email settings in Perspective: **Outlook**<sup>®</sup> or **SMTP** integration. Alternatively, email functionality can be disabled by selecting the **"Do not use mail options"** radio button.

#### **Option A: Outlook Integration**

Select **Outlook** (only) to order Perspective to utilize the active user's local Outlook 2007 or 2010 client to send emails. These emails are sent through the central Exchange Server and stored in the user's Sent Items folder.

#### **Option B: Connect to an External SMTP Server**

To use an SMTP server to send emails from Perspective, switch the radio button from Outlook to **SMTP** and enter the appropriate information for connecting to the SMTP server:

- **Host**: The domain name of the SMTP service.
- **Port**: The port the SMTP service will be listening on for connections.
- Username: A valid user name to connect to the SMTP service.
- **Password**: The appropriate password for the user name.
- **Use Default Credentials**: Rather than entering a particular user name and password, you can specify that a user's Windows credentials be used to connect to the SMTP service.
- **Use Anonymous Access**: As an alternative option, if the SMTP server does not require user credentials to connect and send email, you can enable users to connect anonymously.
- Enable SSL: Select this option to encrypt the SMTP connection with Secure Socket Layer (SSL).
- **Reply Address**: When sending email messages, the SMTP service must include a reply address. Enter the email address that you would like to appear on any email messages sent via SMTP.
- The email settings outlined above will be used as system defaults for every client. With the exception of the reply address, all of these settings can be overridden for individual clients by specifying alternative settings under the client's *Settings > Options* menu in Perspective. (The reply address is a global setting and will be used for anyone using SMTP.) If you do not want individual clients to have the option of overriding any of these settings, select the "Force all clients to use these settings" box.

Configuration Client-Side Configuration Notification Attachments Services	AE Tools	
O Do not use mail options		
C Dutlook 1 Notification works on 32 bit Outlook only		
SMTP		
Host: mail.example.com		
Port: 12345		
Username:		
Password:		
🔲 Use Default Credentials 🔲 Use Anonymous Access		
Enable SSL		
Reply Address: noreply@ppm2000.com		
Force all clients to use these settings		
Save Chan	ges	Exit

## **Uploading Attachments**

Perspective allows users to attach any file type to any data record in the application. These files are stored directly in the SQL database and their size can be the greatest factor in determining how much space will be required in SQL.

To set up the maximum attachment size, select the **Configuration** component in the Perspective Service Manager menu and open the **Attachments** tab.

Perspective can support files up to 2 GB in size (SQL's limit for binary data types); however, due to restrictions you may have on the space available for your Perspective database or bandwidth in your network, we do include an option to decrease this 2-GB limit to a size that can be better supported in your environment.

- On SQL Standard or Enterprise, this value can be set between 1 MB and 2000 MB. The default is set to 250 MB.
- On SQL Express, this value can be set between 1 MB and 50 MB. The default is 10 MB.

Note: SQL Server Express is only supported for the Standard Edition of Perspective.

Configuration Client-Side Configuration Notification Attachments	Services AE Tools
Specify maximum allowed attachment size for the client.	
Max attachment size: 250 MB	•••
(Upper limit is 2GB for SQL Server 2005/2008 and 50MB for SQL Ex	(press)
	Save Changes Exit

To change this value to an appropriate value for your organization, move the slider.

## Integration Services URL

- 1. To enable event trigger in Integration Services, select the **Configuration** component from the Perspective Service Manager menu and open the **Services** tab.
- 2. Enter the URL set up with the Integration Services in the Integration Services field.
- 3. To enable trigger events on create and update, check the "Enable Trigger Notification" box. To enable context-sensitive events, check the "Allow Hot Key Events" box.

Integration Services https://staging.ppm2000.com/Integratio	n Services 30		
Enable Trigger Notification	Allow Hot Key Events		
Et hie Coston Cearch (with foglio	*//////	1111	11
		·····	

## **Custom Search Integration**

With Perspective's Custom Search feature, you can integrate Perspective with the Infoglide Identity Resolution Engine<sup>™</sup> (IRE) to search several data sources at once. Complete the following steps to enable this integration. Note that you must first configure your Perspective database within the Identity Resolution Engine before proceeding.

To set up the Custom Search feature, select the **Configuration** component from the Perspective Service Manager menu and open the **Services** tab. Check the "**Enable Custom Search (with Infoglide)**" box and enter the URL for the Infoglide Identity Resolution Engine in the field below.

Note: To access the Custom Search feature, users must be granted the appropriate access rights in Perspective. For details on administering Custom Search access for roles and users, see "Select general role rights" and "Set general user rights" in the "Roles" and "Users" sections of the Perspective Administrator's Guide.

4	Configuration Client-Side Configuration Notification	Attachments	Services AE T	ools
	Integration Services			
	https://Staging.ppm200.com/IntegrationServices			
	Enable Trigger Notification	key Events		
	Enable Custom Search (with Infoglide)*			
	http://www.sampleurl.com			
	*****			
		[	Save Changes	Egt

#### **Mass Notifications**

In Perspective, users can integrate their MIR3<sup>sм</sup> inEnterprise<sup>™</sup> solution into Perspective in order to send mass notifications about selected activities via Perspective DispatchLog.

To set up the Mass Notification feature, select the **Configuration** component from the Perspective Service Manager menu and open the **Services** tab. Check the "**Enable Mass Notification (with MIR3)**" box and enter the **Mass Notification URL**, **Username** and **Password** provided by MIR3 in the field below.

Configuration Client-Side Configuration Notification Attachments	Services AE 1	Tools
Integration Services		
https://Staging.ppm2000.com/IntegrationServices30		
Enable Trigger Notification     Allow Hot Key Events		
Enable Custom Search (with Infoglide)*		
Enable Mass Notification (with MIR3)		
Mass Notification Url		
http://inwebservices.mir3.com/services/v1.2/mir3		
Usemame: QATest		
Password: •••••		
Custom Search should not be enabled unless integrating an external search tool from Infoglide to search several data sources at once.		
	Save Changes	Egt

## Analysis Expert Tools

If you experience difficulties with the correct Analysis Expert (AE) query display, this function must be used to update the AE **.dat file** provided by the Technical Support.

- 1. Select the **Configuration** component from the Perspective Service Manager menu and open the **AE Tools** tab.
- 2. Specify the **SQL Server**.
- 3. Select either the **Windows** or **SQL Authentication**. If you selected SQL Authentication, enter the correct **Username** and **Password**.
- 4. Choose the **Database** you wish to update your queries on.
- 5. Specify the correct path to the AE .dat file provided by the Technical Support in the **File** Location field.
- 6. Click Update.

Configuration	Client-Side Configuration Notification Attachr	ments Services AE Tools
Database Conn	ection	
SQL Server:	4658GD1 💌 😰	
	Windows Authentication	
	C SQL Authentication	
	Usemame:	
	Password:	
Databases:	Perspective 💌 😰	
AE File Location	ı ———	
File Location:	\\ppm2000	
		Update
		Save Changes Exit

## **Quick Find Indexing**

With Perspective's Quick Find tool, you can quickly search for text anywhere in the database, including text within attachments. This works by scanning an index file generated on the server.

- 1. To set up indexing on your database, select the **Quick Find Indexing** component in the Perspective Service Manager menu.
- 2. To enable this feature, select **Allow Quick Find**.
- 3. Select an **Index Directory** to store the index files. IIS must have access to read this directory.
- 4. Optional: If large index files are expected, you can force the index cache to use a separate directory by checking "Specify folder in alternate drive to store cache while indexing?" and then selecting a directory.
- Optional: If you would like certain common words to be ignored when indexing (e.g., a, the, an, at, to, etc.), select "Use noise word file?" and specify the directory where your Noise.dat file exists.
- 6. *Optional:* If you would like hyphenated words to be indexed as two separate words, you can select **"Treat hyphens as spaces"**.
- 7. Optional: If you would like the index files to ignore any numeric text, you can select "**Do not** index numeric values".

- 8. Select the **Database** you want to index.
- 9. Expand the nodes listed under **Tables** and select each table you want data to be indexed from individually. Note that attachments are indexed separately from the main entities and can be found at the bottom of the list.
- 10. Click Save Changes.
- 11. Click **Index** to do an initial index of the database.
- 12. Optional: Repeat steps 8-11 for additional databases.
- 13. As data is added, deleted, or modified in the database, the index must be kept up-to-date. You can schedule the database to re-index using command line arguments and Windows scheduled tasks. To do this, create a scheduled task to run Perspective.ServerManager.exe with the option *-index=* (or use the shorthand *-i=*) followed by the Database ID.

For example:

C:\Program Files\PPM 2000 Inc\Perspective Services\ Perspective.ServerManager.exe -i=Sample

Allow Quick Find	
Index directory	
C:VPSV_Index\Sample\Default	Browse
Specify folder in alternate drive to store cache while indexing? Cache drive/directory	
Please specify path to index cache directory	Browse
Use noise word file?	
Path where noise word file exists	
c:\windows\system32	Browse
Database to Index           Default           Treat hyphens as spaces            Default           Do not index numeric values	\$
Tables to index	
Incidents     Variatives     Variatives     Volvements     Volvements     Onvolvements     Ordenes     Volvements     Ordenes     Volvements     Volvements     Ordenes     Volvements     Volvement	Index
Indexing Progress	Stop Indexing
J	
	Stop Immediately
Powered by dtSearch <sup>o</sup>	® <u>www.dtsearch.com</u>
	Save Changes Exit

## **User-Defined Fields**

Although user-defined fields (UDFs) can only be created by specialized users with access to both the server machine and the Service Manager, they are maintained by Administrators in the same manner as all other fields within Perspective. Visibility and access rights to a user defined field can be controlled under System Privileges, Role Privileges or User Privileges. UDF labels can be modified and created for other languages under Form Labels. Moreover, if the UDF is a lookup field, lookup values and workgroup visibility for these values can be customized under Lookups.

You may add user defined fields to the Item, Person, Organization and Vehicle forms under the General tab, as well as to numerous sections of the Incident and Case forms.

Note: The case component is only available in the Premium Edition of Perspective.

- 1. To set up user defined fields for Perspective, select the **User Defined Fields** banner at the bottom of the Perspective Service Manager menu and open the **General** tab.
- 2. In the Server Authentication section, specify the **Database Name**. Ensure that this information is correct before proceeding. The Form lookup list will become available.
- 3. From the **Form** lookup list, select the data form in which you would like the new user defined field to appear. Your options are as follows:
  - Incidents
  - Incident Items (Involved Items)
  - Incident Organizations (Involved Organizations)
  - Incident Persons (Involved Persons)
  - Incident Vehicles (Involved Vehicles)
  - Items
  - Organizations
  - Persons
  - Vehicles
  - Cases
  - Activities
- 4. From the Section lookup list, select the specific section of the form that you would like the user defined field to appear in. For all forms except Incidents and Cases, the only option available is the General tab. For the Incidents form, you may choose the General, Investigations (Details) or Controls tab. For the Cases form, you may choose either the General or Controls tab.

Note: The Investigations tab is only available in the Premium Edition of Perspective.

- 5. Click the **Add** button at the bottom of the window. An Add UDF dialog box will open.
- 6. Enter the new user defined field's name in the **Field Name** text box. Note that no special characters or spaces may be used—letters only. Then, assign the field its default System English **Label**. The System English label is what users will see on the Perspective form.

7. Choose the field type from the Data Type lookup list. The available field type options for UDFs are Number [for whole numbers], Decimal Number [for numbers with up to two decimal places], Text, Date, Yes/No [for a checkbox field] and Lookup List. If you selected Text as the data type, you may also specify the maximum number of characters that can be entered in the field under Text Length.

Perspective Service Manager				
Service Manager Settings Configuration Database	Database: Sample Form Incidents General Layout	Primary Connection     Section     General	<b>_</b>	
Product Validation	Field Name	Label	Туре	Required
Quick Find Indexing				
User Defined Fields				
Downloads				
	Please do not forget to restart the Perspe server after making changes.	ctive web	Add UDF Edit	UDF Delete
			Save	Cancel
				11/8/2012

- 8. Not Recommended: If you wish to make the user defined field a required field, check the System Required box. If you check this box, you will not be able to adjust the field-level security at any point in the future. If you wish to make the user defined field required, it is best to do so within Perspective at the system, Role or User levels. This allows greater flexibility for the future use of the field.
- 9. Click Apply. The user defined field's details will now appear under the General tab.

Add UDF			
Field Name udfMaritalStatus	Label Marital Status		
Data Type	Text Length		
System Required	Apply	Cancel	
		Cancer	

- To edit the user defined field, click the arrow to the left of the Field Name to select the entire row and click the **Edit** button. Make changes in the Edit UDF dialog box and click Apply.
- To delete the user defined field, click the arrow to the left of the Field Name to select the entire row and click the **Delete** button. A Delete UDF confirmation window will open warning you of potential loss of data. If you choose to delete the selected UDF and click Yes, any data previously tracked in the UDF will be erased as well. Instead, it is recommended that you hide or lock the UDF within Perspective, if you no longer wish to use it to track data.
- 10. To view the user defined field with its default form location, select the Layout tab. The Top and Left values indicate the number of pixels that the UDF will be located from the top left corner of the User Defined Fields section of the form. The User Defined Fields section always appears at the bottom of the form.

Form Incident Persons		Secti Genera		•	
General Layout					
	udfMaritalStatus Top: 100 - Left: 210				
			Default Layout	Previous Layout	Save Layout

- Click and drag the UDF label to move the UDF to an alternative location on the form. The entire scrollable window beneath the Layout tab is representative of the User Defined Fields section of the form. Click **Save Layout** to save the chosen UDF location on the form.
- At any time, you may click **Default Layout** to return the UDF to its original assigned position on the form. To return the UDF to its last saved location, click **Previous Layout**.

# Troubleshooting Tips

## **Perspective Server**

#### Finsure Perspective Services are set up

- 1. Open IIS manager, navigate to the Perspective Services Virtual Directory, and try to browse the **Service.asmx** file.
- 2. If the page that is displayed reads "Service", the install was successful.

If you get an error code page:

- a. Check the properties of the Perspective Services Directory and ensure it is running under Microsoft .NET 4.0 on the ASP.NET tab.
- b. Re-install Microsoft .NET 4.0 with ISS using the following command line: C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\aspnet\_regiis.exe

#### Connect to the database using ODBC

- Select Control Panel > Administrative Tools > Data Sources (ODBC), and open the System DSN tab.
- 2. Click Add to create a data source, select SQL Server. Click Finish.
- 3. Enter the name "Perspective" and select the name of your SQL Server.
- 4. Click **Finish**, and then click **Test Data Source**.

#### Test the application pool

An application pool is used to connect to the database server. To test if there is an issue with the Web application pool, change the account to **Network Services** and see if it runs.

#### 💡 Restart IIS

Right-click your Computer icon and select **Manage**. Expand the **Services and Applications** folder and right-click **Internet Information Services (IIS)**. Select **AII Tasks**, then restart IIS and click OK. Another way to restart IIS is to run the command line *issreset* from the Start menu.

## Database Server

#### Ensure that the database login account has been assigned DBO access rights

- 1. In Enterprise Manager, select Security > Logins.
- 2. Double-click the domain user account that the Perspective server uses to connect to the database (e.g., the test account "PerspectiveDBCon").
- 3. On the **Database Access** tab, select the Perspective database and ensure that **dbo** access is assigned.

#### $\heartsuit$ Ensure that your database is in compatibility mode for a SQL version other than SQL 2000

In the Compatibility Settings in your SQL Database, ensure that your database is in compatibility mode for a SQL version **other than SQL 2000**. If it is not, follow the steps below:

- 1. Open the Microsoft SQL Management Studio and expand Databases.
- 2. Right-click on your Perspective Database and select Properties.
- 3. On the left-hand column, select **Options**.
- 4. In the Compatibility level field, select SQL 2008.

## **Reporting Services Server**

For assistance and information on setting up **SQL Reporting Services**, view the deployment guide on Microsoft's Web site: http://technet.microsoft.com/en-us/library/ms159868(SQL.90).aspx

#### Check the version of the Microsoft .NET Framework

If .NET Framework 3.5 is enabled on the machine, only client-side components of Reporting Services will be installed. If necessary, remove the .NET Framework 3.5 before installing Reporting Services, and re-install 3.5 afterwards using the following command line: *C:\WINDOWS\Wicrosoft.NET\Framework\v2.0.50727\aspnet\_regiis.exe* 

#### Specify path for .bat file

- 1. Using the Windows Start menu's Search function, search for the **rs.exe** file.
- 2. Place a copy of the rs.exe file in the *Perspective Install > Reports Setup* folder.

## **Perspective Client**

#### **Connect to the Web site**

Open your Web browser and enter the following URL:

http://<IIS Server Name>/PerspectiveServices/Service.asmx

#### Ensure SQL login account is configured properly

The SQL login account (e.g., the test account "PerspectiveDBCon") needs permissions.

#### Troubleshoot Windows authentication issues

If you are having issues with the Active Directory<sup>®</sup> single sign-on authentication, verify that the **Server** service has been started on the Web Server.

File Action View Help  = 🔿   🖄 📰 🔯 🔒									
Computer Management (Local	Services							Actions	
▲	Name	Description	Status	Startup Type	Log On As	*	Services	-	
		Secondary Logon	Enables star Provides su		Manual Manual	Local Syste Local Service		More Actions Server	
	Security Accounts Security Center	The startup The WSCSV	Started Started	Automatic Automatic (D	Local Syste Local Service		More Actions	,	
Storage     Storage     Storage     Services and Applications	these functions will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.	Server Shell Hardware De Smart Card	Manages ac	Started Started	Automatic Automatic Manual	Local Syste Local Syste Local Service			
<ul> <li>W Internet Information Set</li> <li>Services</li> <li>WMI Control</li> </ul>		SNMP Trap Software Protection			Manual Manual Automatic (D				
• III •	Extended Standard	A COD MILCOLO LO	0 11 0			1. 10. 1	_		

If the problem persists, switch to the standard Perspective authentication to check if the connection is working.

- 1. To diagnose if the problem is in the Windows authentication, test with Perspective authentication. On the Perspective Server, edit the Perspective\_Default.config file as follows:
  - Change the authentication type to <Perspective>.
  - Change <Integrated Security=SSPI> to the SQL user and password.
- 2. Restart IIS, and then attempt to logon again.

#### Troubleshoot application download issues

1. If the client machine's operating system is **Windows XP**, clear the contents of the following folder: *C:\Documents and Settings\cusername>\Local Settings\Apps\2.0.* 

If the client machine's operating system is **Windows Vista** or **Windows 7**, clear the contents of the following folder: *C:\Users\<username>\AppData\Local\Apps\2.0*.

Note: If you delete the contents of the folders, all Click-Once applications will be deleted.

At any time, contact the Technical Support team at 1-877-776-2995 for assistance.

- 2. Browse to the Perspective Services URL: http://<IIS server name>/PerspectiveServices.
- 3. Click the Launch Perspective button to re-download the entire Perspective application.
- 4. In the dialog box that opens, click **Run**. The Perspective client will automatically launch.
- 5. Enter the Perspective Services URL (e.g., *http://IISServer/PerspectiveServices*), and click OK.
- 6. Proceed to log on.

### **Integration Services**

Integration Services requires MS DTC (Microsoft<sup>®</sup> Distributed Transaction Coordinator). Ensure the following options are enabled and refer to the information on Microsoft's website using the links provided.

- Enable Network DTC Access for MS DTC transactions. Follow the instructions in the To enabled Network DTC Access for MS DTC transactions section on this page: <u>http://technet.microsoft.com/en-us/library/cc753620(v=ws.10).aspx</u>
- 2. Enable XA Transactions. While on the same tab opened in the previous step, select the **Enable XA Transactions** check box.
- 3. Enable Firewall Exceptions for MS DTC. Follow the instructions on this page: http://technet.microsoft.com/en-us/library/cc725913(v=ws.10).aspx

## Error Messages

Error Message	Explanation				
No Connection.	Perspective Client error				
·	Perspective server and attempt to logon. er of the IIS_WPG group on the Perspective server.				
Response is not well formed .XML.	Perspective Client error				
<ul> <li>Solution</li> <li>May be due to a missing bracket or othe Perspective_Default.config file.</li> <li>May also be a permissions issue. See y</li> </ul>					
Connection to the service not found/SQL Exception/Login failed for user.	Perspective Server error				
<b>Solution</b> Ensure the application pool account has account perspective server is using to connect to the identity, and requires membership in the IIS_	database must be specified as the Application Pool				

# **Contact Information**

## **Technical Support**

Toll Free:	1-877-776-2995
Phone:	(780) 448-0616
Email:	support@ppm2000.com

## PPM 2000

Toll Free:	1-888-PPM-9PPM (1-888-776-9776)
Phone:	(780) 448-0616
Fax:	(780) 448-0618
Email:	information@ppm2000.com
Website:	http://www.ppm2000.com



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