

Perspective by PPM™

Version 4.6.2

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Contents

System Requirements	3
Update Instructions	4
Database Upgrade	4
Updating SQL Reports	5
Perspective Services Update	5
Testing Perspective Implementation	8
Contact Information	9
Technical Support	9
PPM 2000	9

System Requirements **Version 4.6.2**

The following requirements are for Perspective™ operating in a traditional LAN/WAN environment with the web server component running on a separate Microsoft® 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. 4.6.2 and Perspective Focal Point™ V.1.2.

	Minimum	Recommended
Client Machine		
Processor Speed	1.5 GHz	3 GHz+
Memory	1 GB	2 GB+
Operating System	Windows® Vista SP 3, Windows 7 SP 1, Windows 8, Windows 8.1	
.NET Framework	Version 4.5	
Web Browser – Launch Perspective	Internet Explorer® versions 8.0, 9.0, 10.0, 11.0	
Web Browser – Web Portal	Internet Explorer 10.0+, Chrome™ v29+, Safari® iOS 6, Android™ Browser 4.2+	
Third Party Application	Adobe® Reader® 9.4.0+	
Mobile iOS App	Sun Java™ Runtime Environment 7 U71, 8 U25 ² QlikView™ Analyzer Plug-in for Internet Explorer ³ iOS 6, iOS 7, iOS 8	
Web Services Server⁴		
Available Disk Space⁵	1 GB	1 GB
Processor Speed	2 GHz	2 GHz multicore or better
Memory	4 GB	8 GB+
Operating System	Windows Server® 2012, Windows Server 2012 R2 Microsoft Distributed Transaction Coordinator (MSDTC), IIS with net.tcp binding on port 8086	
.NET Framework	Version 4.5 with http and non-http activation	
C++ Runtime Libraries	C++ 2010 SP1 Runtime Libraries (x64) 10.40219	
QlikView™ Server⁶	64-bit Version 11.20 SR1	
SQL Server® Machine⁴		
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 Server¹⁰	SQL Server® versions 2008 SP3, 2008 R2 SP2, 2012 SP1, SQL 2014	
Reporting Services	SQL Server 2008 Reporting Services, SQL Server 2012 Reporting Services	

Deployment Note: Perspective client is deployed as a ClickOnce application, launched from Internet Explorer; 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® is used, the Active Directory Services must be enabled on the Perspective Web Server.

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

1. This requirement only applies if using the Visual Analysis component.
2. This requirement only applies to Perspective Focal Point.
3. These requirements are for systems with 5 to 25 users. For Perspective systems with more than 25 users, please contact your PPM account manager for a specific assessment of your needs.
4. Depending on the size of your Perspective database, more disk space may be required for Perspective Focal Point and the Workflow component.
5. The net.tcp binding only required if using Dispatching (included with Perspective SOC and Perspective EIM).
6. This requirement only applies to Perspective Focal Point. A limited QlikView Server license is included with Focal Point.

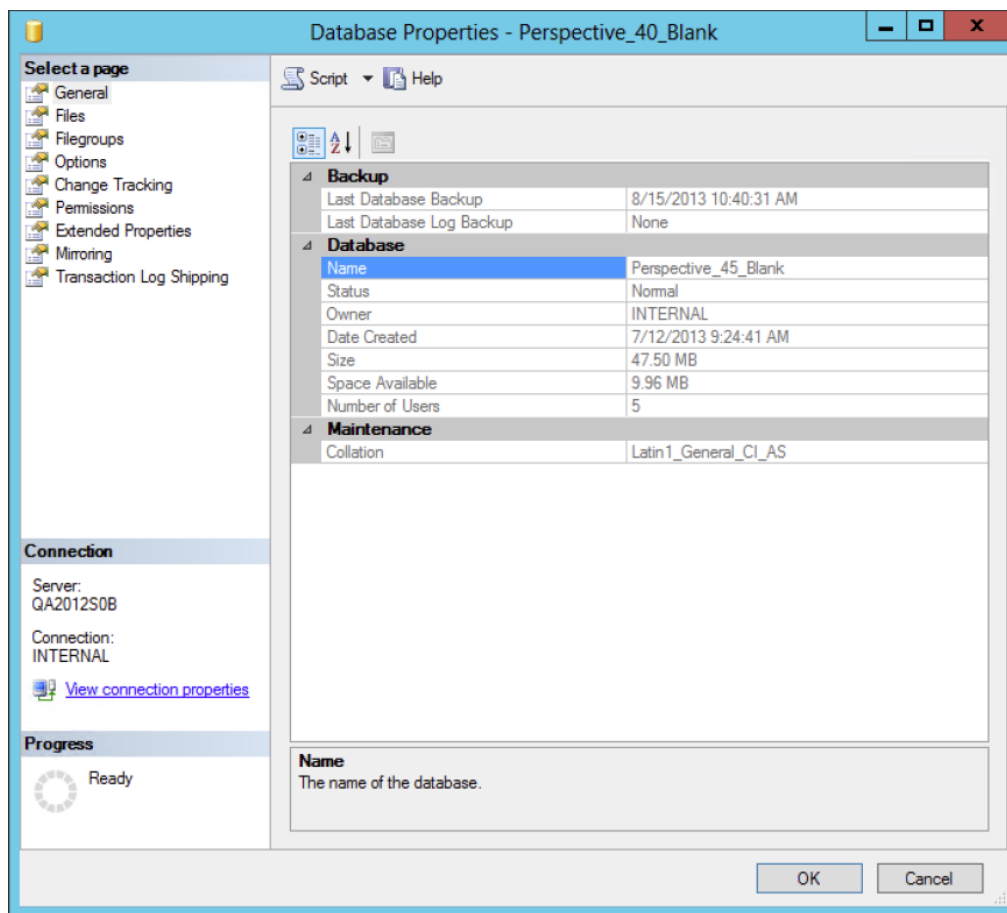
Update Instructions

Database Upgrade

Note: The following instructions are for updating from 4.5 or later to 4.6.2. To update from Version 4.0 or earlier, go to [PPM's Client Site](#) and refer to the Perspective Update Instructions 1.0 to 4.6.2 document.

1. Back up your Perspective SQL database.
2. Back up the **Perspective_Default.config** file in the Perspective Services Virtual Directory. This file contains all necessary information on how your system was configured.
3. Ensure that your database is already upgraded to **Perspective v.4.5**.
4. In the **Compatibility Settings** of your SQL database, ensure your database is in compatibility mode for SQL 2008.

If it's not, open the **Microsoft SQL Management Studio**, expand **Databases**, right-click your Perspective database and select **Properties**. On the left-hand column, select **Options**. In the **Compatibility level** field, select **SQL Server 2008 (100)**.



5. Legacy update scripts are provided in the previous updates folder with this installation. Please verify which version of Perspective you are running before proceeding with upgrading your database. If you require assistance please contact Technical for assistance.
6. Update the Perspective database using the **Perspective Install > Database Setup > Update** folder. Using a SQL query tool (e.g., SQL Server Management Studio), execute update scripts against the Perspective database.
 - a. Run **SQLScript_Update_45_To_46.sql**.
 - b. Run **SQLScript_Update_4.6.0_to_4.6.1**.
 - c. Run **SQLScript_Update_4.6.1_to_4.6.2**.
 - d. **Optional:** The SQL script **BackFill_SiteRollups.sql** can be run to check if a child value (Building, Location, or Section) has a latitude and longitude. If it's empty, it will match to the parent value. If all of the items in the tier are in the same location and you're comfortable with this being implemented for mapping purposes, you can set up the Site only, and then use this to populate the lower tiers. If you're a Hosted client, please make this request via our Support team at 1-877-776-2995 once you have all of your Site Rollups updated.
 - e. **Optional:** The SQL script **Update_Inc_Act_Site_Geos.sql** can be run to populate the Geo Co-ordinates of all Activities and Incidents with a SiteRollup associated to them. This will only be run against Activities and Incidents without Geo Co-ordinates.
7. Repeat step 6 for each Perspective database you're running (e.g., test, production, archive).

Updating SQL Reports

8. Update reports using the **Perspective Install > Reports Setup** folder (please refer to *Perspective Installation Guide* for more detailed outline of SQL reports setup):
 - a. Edit the **PublishServerReports.bat** file to target the SQL Reporting Services server.
 - b. Save and execute the file.

Note: If you're using Windows authentication, additional configuration of the Reports data source may be required.

Perspective Services Update

For more information on running the installs, refer to the *Perspective Installation Guide*.

9. Uninstall **Perspective Services**. In Windows 7 and earlier versions, click **Start > Control Panel > Programs > Programs and Features > Uninstall**.

If you're running Windows 8 or 10, uninstall **Perspective Services** by clicking **PC Settings > Control Panel > Programs > Uninstall a program**.

Note: If updating from version 2.1 or earlier, you will need to have already uninstalled the Perspective client from each client machine.

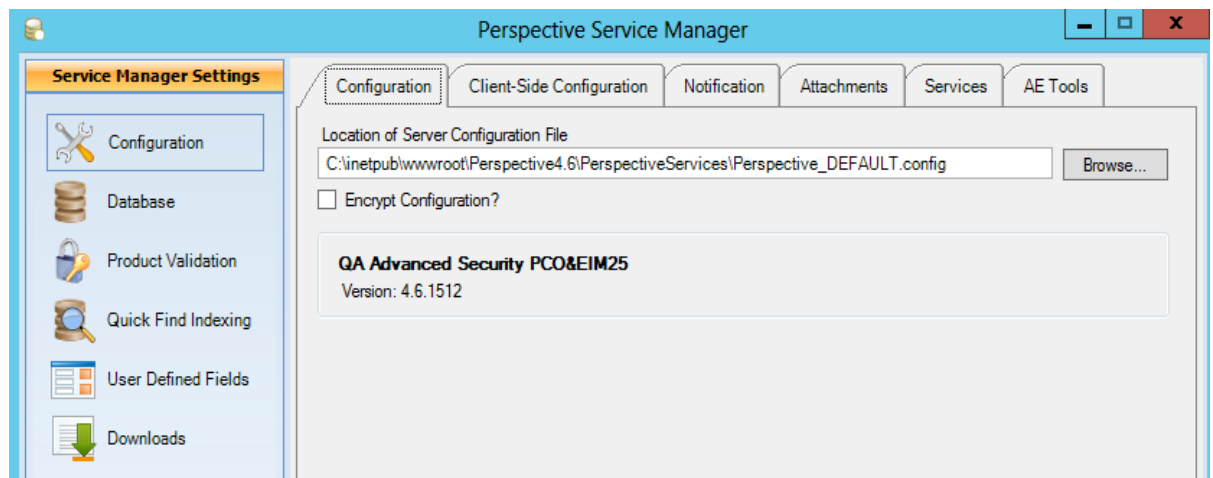
10. If installed, uninstall any earlier versions of **Perspective Integration Services** and **Service Manager**. Check your Perspective directory and IIS for any remnants of your previous Perspective Services installation. Remove any remaining files or folders.
11. Install Perspective Services 4.6 using the **Perspective Install > Web Service Setup > Perspective Services** folder. Run (as an administrator) **Perspective.Services.exe** to install the updated Perspective Services.

If this is your first time working with Perspective Services, please read through the *Perspective Installation Guide*.

If you're completing a Custom Install and your edition includes the Dispatching component (**SOC** or **EIM**), ensure that Real Time Services is installed. Refer to the Installation Guide for configuration details.

Note: If Perspective Services prompts you to install C++ runtime libraries, refer to the Standard Install > Perspective Services (Application Web Server) section of the Perspective Installation Guide.

12. Install Perspective Service Manager (see the *Perspective Installation Guide* for details).
13. Configure connections using Perspective Service Manager:
 - a. To access Perspective Service Manager, open it from your desktop or go to C:\Program Files\PPM 2000 Inc\Perspective\4.6\ServiceManager. Launch **Perspective 4.6 Service Manager** as an **administrator**. You will be asked to provide the Database Connection information. Refer to the *Perspective Installation Guide* if needed.
 - b. Under the **Configuration** tab, verify the location specified in the **Location of Server Configuration File** field. The field should be automatically populated with the default location of the **Perspective_Default.config** file in the **Perspective Services Virtual Directory**. If necessary, use the **Browse** button to point to the correct location.



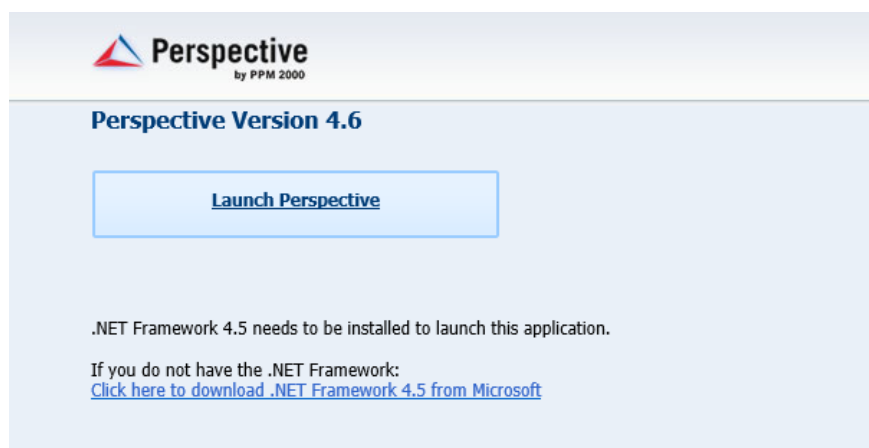
- c. Under the **Database** tab, enter the primary database information. This information can be copied from within the **Perspective_Default.config** backup file. Add secondary databases, if required.
- d. Under the **Product Validation** tab, enter your **Hard Coded Company Name** and **Master Key**, and click **Validate**.

Note: This step requires an Internet connection to download your encrypted license file from the licensing server. If your web server can't access the Internet, contact Technical Support at 1-877-776-2995 to get a license file for validation.

- e. In the **Client-Side Configuration** sub-tab, enter the **Server URL** for the client folder if the field is empty.
- f. Verify the **Notification** and **Attachments** settings, and make any required changes.
- g. Verify the **Quick Find Indexing** and **Services** settings, and make any required changes.
- h. Click **Save Changes**, then click **Yes** when prompted for confirmation.
- i. Close Perspective Service Manager and restart IIS.

For detailed instructions on using the Perspective Service Manager, see the *Perspective Installation Guide*.

- 14. Launch the Perspective Version 4.6 client from the host Perspective Services default web page (e.g., <http://IISServer/PerspectiveServices>) on each client machine. Your default web page should look like the screenshot below. Refer to the *Perspective Installation Guide* for more information.

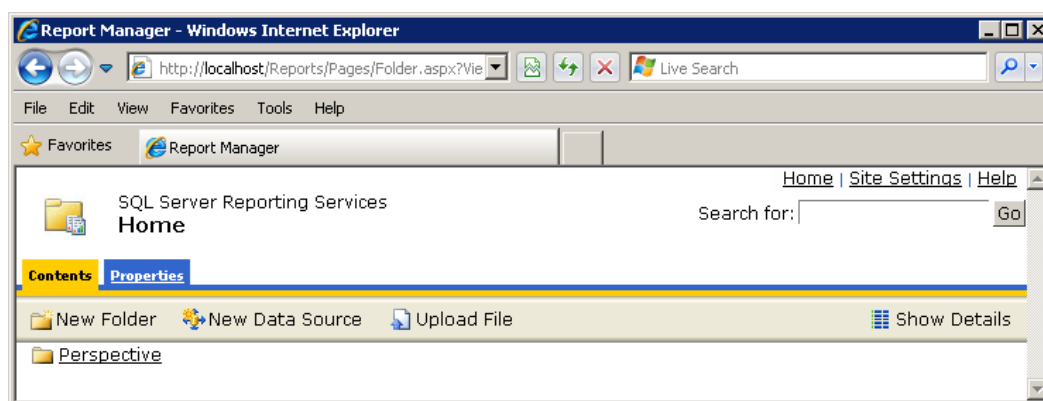


Note: If installing clients using the MSI package, ensure that previously installed Perspective applications on client machines have been uninstalled first. To install Perspective on client machines using the MSI package, please refer to the Perspective Installation Guide.

Testing Perspective Implementation

1. Go to the Perspective Services URL and confirm that the page loads properly:
http://<localhost>/perspectiveservices, where **<localhost>** is the appropriate local host address on your network.
2. Go to the Perspective Services page and confirm that the page loads properly:
http://<localhost>/perspectiveservices/service.asmx, where **<localhost>** is the appropriate local host address on your network.
3. Go to the Report Manager page and confirm that the page loads properly:
http://<reportservername>/reports, where **<reportservername>** is the appropriate address for the reports server on your network.

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



4. Logon 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.
6. To confirm that the server-side reports are working, select **Test Report** and click **Preview**. If you receive an error message, please call the Technical Support team at 1-877-776-2995.

Note: The Report version should display as 4.6, while the database version should display as 4.6.0.

7. To also confirm you are connected to the correct database, run the **Workgroup List** report and verify the workgroups listed.

Contact Information

Technical Support

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

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