INEIGHT

InEight Integration

(Cloud) Estimate-Primavera Installation

InEight® ESTIMATE

Changelog

This changelog contains only significant or other notable changes to the document revision. Editorial or minor changes that do not affect the context of the document are not included in the changelog.

Rev	Date	Description
1.0	18-FEB-2025	Initial publication.
2.0		

©2024 InEight Inc. All rights reserved.

Contents

Setting up Primavera integration 4

Server Configuration and Setup 4

Determine the TCP/IP Port Number of the Primavera Database 6

Installing the Primavera Integration API 7

Timeout Setting and Expiration Check Rate 9

Create a named user for Primavera Integration API 10

Set Up a Named User for the Primavera Integration API (Primavera v6.x or P6 v7) 10

Set Up a Named User for the Primavera Integration API (P6 v8 – P6 v15.1) 10

Installing the Primavera Integration Server 12

Setting up Primavera integration

NOTE:	Primavera integration with Estimate is supported with Primavera v6.x, P6 v7, and P6 v8 - P6 v15.1. When installing and configuring Primavera, it is necessary that all Primavera applications installed on your environment are the same version. This includes the database server, client application, and Integration API.

Primavera integration with Estimate requires that you have an existing implementation of Primavera v6.x or P6 in your network environment. This includes but is not limited to the following:

- A Microsoft SQL Server or Oracle Database for Primavera (Primavera Database Server).
- A named user license for the Primavera Integration API. (Contact Primavera to obtain this license).

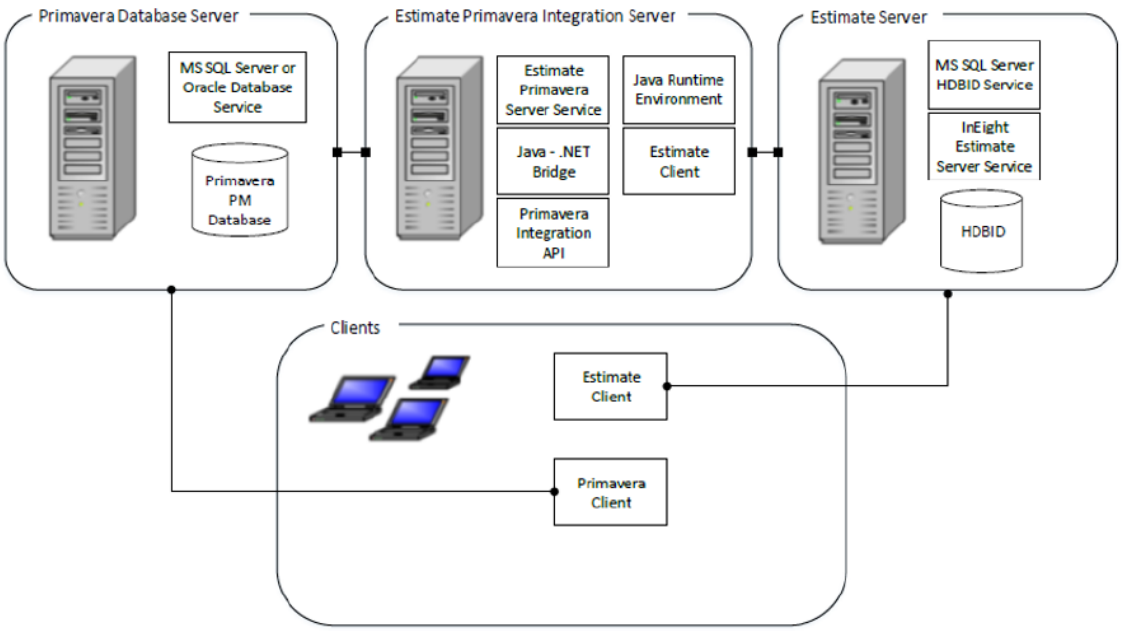
Prior to installing the Estimate Primavera Integration Server, you will be required to install additional applications and define configuration settings to complete the integration with Estimate.

Server Configuration and Setup

While all server components can be installed on the same physical server, they can also be installed on separate servers. There can be three different servers when setting up the Primavera integration with Estimate:

- **Primavera Database Server** – This server runs the Microsoft SQL Server or Oracle database service and holds the Primavera Project Management (PM) database.
- **Estimate Primavera Integration Server** – This server contains the Java Developer's Kit (JDK), the Java Runtime Environment (JRE), Primavera Integration API, InEight Estimate Primavera Integration Server service, Java .NET Bridge components, and the JNBridge license file.
- **Estimate Server** – This server contains the Microsoft SQL Server database instance for Estimate (HDBID), and as a result, the Microsoft SQL Server HDBID service and the InEight Estimate Server service.

The screenshot below shows how the Primavera Integration with Estimate would look if the deployment method chosen were to occur on three separate servers.


Primavera Database Server
MS SQL Server or Oracle Database Service
Primavera PM Database
Estimate Primavera Integration Server
Estimate Primavera Server Service
Java Runtime Environment
Java - .NET Bridge
Estimate Client
Primavera Integration API
Estimate Server
MS SQL Server HDBID Service
InEight Estimate Server Service
HDBID
Clients
Estimate Client
Primavera Client

Determine the TCP/IP Port Number of the Primavera Database

The Estimate Primavera Integration connects to the Primavera database using a host name and port number. You will need to know what port number to use in a later setup step.

Use the following step-by-step to view the Primavera TCP/IP Port Number.

Find the TCP/IP Primavera port number

1. From the main Primavera client menu, choose **Help**.
2. Then select **About**.
3. Select the **System** tab.
4. Locate the **Bre Database** line.

NOTE:	Primavera v6.x and P6 v7 require Java Runtime Environment (JRE) version 1.4 or above. P6 v8 - P6 v8.4 require the i586 version of the Java Developer's Kit (JDK) version 1.6.0_23 or above. The Primavera integration with Estimate will not function correctly with older versions of Java.

5. The port number displays after the server (host) name and before the database instance name.
    - In the following example, the port number for the Microsoft SQL Server Primavera Database Server is **49251**:
        - BRE Database: com.microsoft.sqlserver.jdbc.SQLServerDriver, jdbc:sqlserver://server1:**49251**;database=pmdb; 8.0, INTERNAL_PLUGINS)
    - In this example, the port number for the Oracle Database Server is **1521**:
        - BRE Database: oracle.jdbc.driver.OracleDriver, jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=Server2)(PORT=**1521**))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=XE))) (, 7.0, INTERNAL_PLUGINS)
6. Take note of the port number. Then select **Close** to exit the About Primavera dialog box.

NOTE:	The integration of Primavera v6.x or P6 v7 with Estimate requires the Java Runtime Environment (JRE) to be installed on the Primavera Integration Server machine. The integration of P6 v8 - P6 v8.4 with Estimate requires the Java Developer's Kit (JDK) to be installed on the Primavera Integration Server machine. If you are running 64-bit Windows, a 64-bit JDK is required. Install these files after following the previous step-by-step.

Installing the Primavera Integration API

The version of the Primavera Integration API application that is required for Primavera to interact with Estimate depends on the version of the Primavera database server that you have installed. You must install the same version of all Primavera components. For example, if you installed version 8.1 of the P6 EPPM database server, you are required to install version 8.1 of the P6 EPPM Integration API.

NOTE:	The installation files for this application can be found on your Primavera installation media.

Use the following step-by-step at the server console where the Estimate Primavera Integration Server will be installed.

Install the Primavera integration

1. Locate and start the **setup.exe** file on your installation media for the Primavera Integration API.

NOTE:	If you get the Media Pack from the Oracle e-delivery website, you will find the Integration API in the Web Services download.

2. On the Welcome to the Primavera Integration API Installer screen, click **Next** to continue.
3. If prompted on the Software License screen, select **I Agree**. Click **Next** to continue.
4. On the Installation Type screen, select **Local Mode Packages Only**. Click **Next** to continue.
5. Browse to the location of where you want to install the Primavera Integration API.
6. On the Select Components screen, select both **Demo Applications** and **Integration API Javadoc**.
7. If prompted, specify the location of the **JRE** or **JDK** file that you installed. Click **Next** to continue.
    - Example JRE Java.exe file location: *C:\Program Files\Java\jre6\bin\java.exe*
    - Example JDK folder location: *C:\Program Files\Java\jdk1.6.0_23*
8. Click **Next** and then **Install** to continue the installation.
9. On the Database Configuration screen, select either **Oracle** or **Microsoft SQL** as appropriate. Click **Next** to continue.
10. In the User Name field, enter the Primavera database user name **pubuser**.
11. In the Password field, enter the Primavera database password **pubuser**.
12. In the Database Name field, enter the Primavera database name **pmdb** or **pmdb$primavera**.
13. For Oracle, enter the SID name **XE**.
14. In the Database Host Address field, enter the **IP address** or **DNS** name of the server where the Primavera database resides.

15. In the Database Port field, enter the port number you documented in the TCP IP Port Number topic.
16. Click **Next** to continue.
17. If you have an existing Primavera database configuration, you can select the existing configuration or create a new one. Click **Next** to continue.
18. Click **Exit** to complete the Primavera Integration API installation.

Timeout Setting and Expiration Check Rate

Use the following step-by-step at the server console where the Estimate Primavera Integration Server will be installed.

Set the timeout setting

1. Browse to the **Primavera Integration API [version No.]** folder. Then select **Primavera Administrator**.
2. Enter your privileged user name **privuser** for the Primavera database.
3. Enter your password **privuser** for the Primavera database and click **OK**.
4. On the Primavera Administrator form, select the **Configuration** tab.
5. Click the **+** icon to expand the Primavera P6 Configuration folder.
6. Click the **+** icon to expand the Services folder.
7. Clicking on the **+** icon to expand the License Service or Module Access Service.
8. Triple-click **Epiration checkrate** to edit it. Change the value to **30s**.
9. Select another folder in the tree list to exit the field.
10. Further down the tree list, click the **+** icon to expand the Integration API Server folder and RMI folder.
11. Triple-click **Session Timeout** to edit it. Change the value to **24d**.
12. Select another folder in the tree list to exit the field.
13. Click **Save Changes** located to the lower right of the form.
14. Click **OK** on the dialog box.
15. Click on the **x** in the upper right to close the Primavera Administrator.

Create a named user for Primavera Integration API

Set Up a Named User for the Primavera Integration API (Primavera v6.x or P6 v7)

Use the following step-by-step at the server console where the Estimate Primavera Integration Server will be installed.

Set a named user (P6 version 6.x or 7)

1. Launch Primavera Project Management. From the Primavera menu, select **Admin**, and then **Users** to open the Users dialog box.
2. Highlight the **Admin login name** in the list of users.

   You can also choose a special user designated for use by the Estimate Primavera integration. This is the user that is specified in Job Properties for every job configured to send updates to Primavera. You can avoid permission problems by making this user an **Admin Super User**. The special user does not need access to any module besides the Integration API.
3. In the bottom portion of the dialog, select the **Licensing** tab.
4. Select the **Named User** check box in the Integration API row.
5. Click **Close** to exit the dialog box.

Set Up a Named User for the Primavera Integration API (P6 v8 – P6 v15.1)

Use the following step-by-step in a web browser.

Set a named user (P6 V8 – V15.1)

1. Launch the Primavera P6 Web Application. At the top of the screen, choose **Administer**. Then select **User Access**.
2. Highlight the Admin login name in the list of users.

   You can also choose a special user designated for use by Estimate Primavera integration. This is the user that will be specified in Job Properties for every job configured to send updates to Primavera. You can avoid permission problems by making this user an **Admin Super User**. The special user does not need access to any module besides the Integration API.
3. In the lower portion of the dialog box, view the **Module Access** tab.
4. Double-click the **Access** check box in the Integration API row.

5. Click **Save**.

Installing the Primavera Integration Server

The Primavera Integration Server network component is required to allow for the dynamic integration of Primavera with Estimate. The Primavera Integration Server can be installed on a dedicated server or on a server that contains other Estimate applications.

Estimate supports manual configuration of the Primavera Integration API using **admin.cmd** to connect to multiple Primavera databases. This advanced configuration allows a single Primavera Integration Server to sync with more than one Primavera database.

NOTE:	Do not connect more than one Primavera Integration Server instance to the same Primavera database.

If your enterprise uses multiple Primavera databases in locations distant from each other, it is better to install multiple Primavera Integration Server services. Each must be installed on a different computer, and you must give them unique instance names.

NOTE:	Java and the Primavera Integration API applications must be installed on each Primavera Integration Server.

Use the following step-by-step at the server console where the Estimate Primavera Integration Server will be installed.

Install Primavera integration server

1. Start Windows as you normally would and then exit out of any programs that are currently running.
2. Launch the Estimate installer downloaded from the InEight website.
3. At the User Account Control screen, click **Yes** to allow the InEight Estimate application to make changes to your computer.
4. On the Installation Package screen, click the **Install** button to continue.
5. Click **Install Estimate** to continue.
6. At the License Agreement screen, select **I Accept the Agreement**. Then click **Continue** to continue.
7. If other Estimate client or server applications have already been installed on the server, select **Install** on the Upgrade, or Install dialog. Then click **Next** to continue.
8. At the Components screen under Third Party Integration Components, select the **Primavera Integration Server** check box, and then click **Next** to continue.
9. If you are installing the Primavera Integration Server on a server where no other Estimate applications are installed, at the Select Destination Location screen, **define the installation folder** where the Primavera Integration Server application will be installed.
    - To accept the default installation folder, you do not need to do anything.

- To define a different installation folder, click on the **Browse** button and navigate to the desired folder.
- Click **Next** to continue.

10. At the Ready to Install dialog, click **Install** to continue.

NOTE:	If you are installing the Primavera Integration Server network component on a dedicated server, the Estimate Framework will also be installed.

11. On the Estimate Configuration dialog, select the **Primavera Integration** tab.
12. In the Paths data block:
    - **If you are using 32-bit Windows**: Click the **Find Paths** button. Define the paths to the Java Virtual Machine DLL file and the Primavera Integration API Folder.

NOTE:	In the event that either of the paths is not defined after clicking on the Find Paths button, you can click on the **browse** button next to each path field to browse to the appropriate location.

    - **If you are using 64-bit Windows**: Click on the **Find Paths** button. Define the path to the Primavera Integration API Folder. Then define your path for the Java Virtual Machine DLL by browsing to the jvm.dll file.

NOTE:	Your path for the Java Virtual Machine DLL will be similar to *C:\Program Files\Java\jre6\bin\server\jvm.dll*. With the Java JDK installed, your path for the Java Virtual Machine DLL will be similar to *C:\Program Files\Java\jdk1.7.0_45\jre\bin\server\jvm.dll*.

13. In the Java data block, **define the maximum memory setting** from the Predefined Value drop down list. The Java memory setting defines how much you want to allow Java to use for the Primavera integration with Estimate. The default value is **512**.

NOTE:	If you have not yet installed Java and/or the Primavera Integration API, click **OK** to continue the installation of the Primavera Integration Server. Once you have completed the installation of Java and/or the Primavera Integration API, you can use the Estimate Configuration Tool to open this dialog again and define the paths and Java memory settings.

14. In the Instance data block, specify the **Instance Name** if more than one Primavera Integration Server connects to the same Estimate Server.

NOTE:	If you have only one Primavera database, this field may be left blank.

15. Click **OK** to continue.
16. On the Attention dialog, click **OK** to continue.
17. At the Update Registry and Finalize screen, click **Next** to continue.
18. Click **Finish** to complete the Primavera Integration Server installation and exit the setup program.