PRIMAVERA

Terminal Services and Citrix
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Copyright

Oracle Primavera Terminal Services and Citrix for P6 Professional

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P6 Client Setup Under Windows Terminal Services and Citrix

Overview of Terminal Services and Citrix

> **Note**: In this document, P6 client refers to **P6 Professional** or **P6 Optional Client**.

P6 client fully supports Microsoft Windows 2008 SP2 Terminal Services along with Citrix Presentation Server v4.5 and Citrix XenApp 5.0 (Citrix)

Running P6 client under Windows Terminal Services, published through Citrix is recommended in the following cases:

- P6 client users running thru a WAN connection are having performance issues whereas users on the local LAN are achieving acceptable performance.
- The connect speed between the desktop client and database server is a T1/T3 WAN link or slower with 50 Milliseconds or more of Latency.
- You have sensitive project data that you want to secure thru an SSL connection (Citrix supports SSL/High RCA encryption technologies).
- You do not want to upgrade the hardware of all your desktop clients or maintain remote client configurations, but would rather centralize your users for easier administration.

Windows Terminal Server with Citrix provides users will the ability to run P6 client over slower asynchronous dial up or WAN connection from Windows, UNIX and Mac terminals and get better performance since only screen refreshes and key strokes are sent across the communication line. Windows Terminal Server 2008 without Citrix can also be used to run for P6 client but other considerations need to be taken into account.

The Citrix add-on enhances Terminal Server by adding the ICA protocol which supports IPX/SPX, NetBIOS as well as TCP/IP protocols. Utilizing Citrix adds supports for UNIX, OS/2, Macintosh as well as Microsoft clients. Also, Citrix automatically configures client's as they connect and has the ability to auto-configure local printers.

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Pre-Installation Considerations

Considerations:

- Knowledge of Windows 2008 Terminal Services and Citrix
- Local Administrator account for software installation and Citrix publishing
- It is recommended that a shared drive be used on the LAN for project imports and exports due to WAN performance considerations.

P6 client User requirements:

To run on Windows Terminal Services\Citrix,

- Each P6 client user must use a unique Windows account
- Each P6 client user must use a unique account in P6 client.

Home Directories

Windows 2008 Terminal Server Home Directories (Local Profiles)

Windows 2008 Terminal Services creates local directories (on the Terminal Server) for each client in **C:\Users** (default). In most cases, you will use these default Home directories when storing P6 user specific files under the manually created Windows Folder.

For example, **C:\Users\Default User\Windows\PM.INI**

Under Local Group Policy Editor > Computer Configuration > Administrative Templates > Windows Components > Terminal Services > Terminal Server > Profiles – you can also configure each Terminal Services user to use a different location for the Home directory – either on the Local Terminal Server or on shared network drive. Each local account on the Windows 2008 Terminal Server could have a common letter drive mapped to their own unique folder.

Windows Domain Accounts Home Directories (Roaming Profiles)

Terminal Server/Citrix ICA clients can connect to the Terminal Server/Citrix server using a domain account. For Windows 2008 Active Directory domains, home directories can be configured at the Active Directory Data Store/Global Catalog using the "Active Directory Users and Computers" console.

The domain account's profile can be configured to map a letter drive to a network share and folder upon login. The same result can be accomplished using login scripts for each domain user. The common letter drive should be applied for all users to map to a unique folder for each domain account. For example:

- When User1 logs in, his Terminal Server/Citrix ICA Client shows his P:\ drive mapped to \\SERVER\Share\user1
- When User2 logs in, Terminal Server/Citrix ICA Client shows P:\ drive mapped to \\SERVER\Share\user2.
- Provided that each client sees their own unique location when logging into the Terminal Server/Citrix ICA Client, any available drive letter can be used.

For more information on assigning letter drives via user profiles or login scripts please refer to Microsoft documentation for Windows 2008 Server at ***http://www.microsoft.com/***.

Installing P6 Client on Terminal Services

To install P6 client, the Administrator or an account in the local Administrators group must log into the Terminal Server.

Prerequisites

Install Oracle or SQL Server Client drivers as appropriate on the Windows Terminal Servers as described in their respective docs.

If using an Oracle database platform, confirm the *Create Global Objects* Windows Security Policy is setup on the Terminal Servers and add the domain Users or Groups of the end-users who will be accessing the published application. If the local security policy is not setup, the following steps can be used to add the policy:

1) Click **Start, Programs, Administrative Tools**, and then click **Local Security Policy**.
2) Expand Local Policies, and then click **User Rights Assignments**.
3) In the right pane, double-click **Create Global Objects**.
4) In the Local Security Policy Setting dialog box, click **Add**.
5) In the Select Users or Group dialog box, select the user group that these end users are a part of, click **Add**, and then click **OK**.
6) Click **OK**.

If using an Oracle database platform, the Oracle client software also requires that you give the *Authenticated User Group*, *Read and Execute* privilege to the Oracle Home Directory and **ALL** its sub directories and files on the Terminal Servers.

Installation Steps:

1) Run the P6 client SETUP.

> **Note**: Terminal Services Automatically runs SETUP in Terminal Services install mode).

2) Install P6 client as described in the Administrator's Guide.
3) When SETUP completes, click the Finish dialog to the Terminal Services install mode.
4) Copy PM.INI into each user's respective …*home**user_name**windows*\ directory.
5) PM.INI locations:
   - **P6 Optional Client** - *<local drive>:\Program Files\Oracle\Primavera P6\P6 Optional Client*\PM.INI
   - **P6 Professional** - *<local drive>:\Program Files\Oracle\Primavera P6\P6 Professional*\PM.INI

> **Note:** Be sure to Display Hidden files in this directory, since Default user may be hidden.

6) Rename the above mentioned .INI file from PM.INI to PMINI.OLD otherwise each user's unique*.INI file will be ignored.
7) After configuring database connections as described in the Administrator's Guide, deploy PrmBootStrap.xml to the ALLUsers appdata folder from the admin user's appdata folder. Change DeplyomentVersion in the header of PrmBootStrap.xml file to force a new deployment of PrmBootStrap.xml.

> **Note**: Force a new database connection for user's by changing the deployment version. Neverchange MajorVersion or MinorVersion.
> `<BootStrap MajorVersion="8" MinorVersion="1" PatchVersion="0" DeplyomentVersion="`**`0`**`"`
>
> PRMBootStrap.xml location:
>
> - **P6 Optional Client** - \%ALLUSERSPROFILE%\Application Data\Oracle\Primavera P6\P6 Optional Client
> - **P6 Professional** - \%ALLUSERSPROFILE%\Application Data\Oracle\Primavera P6\P6 Professional

8) Test the application by logging up to 2 users into the Terminal Server. If errors occur, contact Technical Support for assistance.

> **Note**:The Citrix Administrator Application can also publish the application through Citrix.