

# HP Version Control Installation Guide



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## Typographic Conventions

We use the following typographical conventions.

<i>Book Title</i>	Title of a book. On the web and on the Instant Information DVD, it may be a hot link to the book itself.
<b>Command</b>	Command name or qualified command phrase.
ComputerOut	Text displayed by the computer.
<i>Emphasis</i>	Text that is emphasized.
<b>Emphasis</b>	Text that is strongly emphasized.
<b>KeyCap</b>	Name of a keyboard key. Note that <b>Return</b> and <b>Enter</b> both refer to the same key.
<i>Term</i>	Defined use of an important word or phrase.
<b>UserInput</b>	Commands and other text that you type.
<i>Variable</i>	Name of a variable that you may replace in a command or function or information in a display that represents several possible values.
[ ]	Contents are optional in formats and command descriptions. If the contents are a list separated by  , you must choose one of the items.
{ }	Contents are required in formats and command descriptions. If the contents are a list separated by  , you must choose one of the items.
...	Preceding element may be repeated an arbitrary number of times.
	Separates items in a list of choices.

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# Chapter 1. Product Overview

Today's distributed enterprise networks are some of the most complex ever constructed. As companies deploy more business-critical applications, these networks continue to rapidly expand, becoming more sophisticated and requiring servers that support the latest technological innovations. In this fast-changing environment, any loss of availability translates into a loss of time and money, and manageability has become the leading success criterion for today's highly competitive businesses.

HP systems provide maximum uptime with minimal maintenance. HP has developed advanced server management technologies such as the HP Version Control Repository Manager, HP Version Control Agent, and HP Systems Insight Manager. The tight integration of these advanced technologies reduces server management efforts, enabling administrators to work issues, resolve problems, and install server software from remote locations by means of a standard web browser.

## HP Version Control Repository Manager

The Version Control Repository Manager is an HP Insight Management Agent that enables you to manage software from HP that is stored in a repository.

The Version Control Repository Manager catalogs system software and firmware that is stored where the Version Control Repository Manager is installed. The software and firmware can be manually downloaded from <http://www.hp.com> directly to the file system, or you can use the Version Control Repository Manager to automatically download software or manually upload software from any web client. Software is organized into groups by function and operating system. You can view detailed information about each piece of software by clicking the software component name. The Version Control Repository Manager also enables you to create customized groupings of software, which can then serve as a system software baseline for the entire managed environment or a subset of your environment.

## HP Version Control Agent

The Version Control Agent is an Insight Management Agent that is installed on a server to enable you to see the HP software and firmware that is installed on that server. The Version Control Agent can be configured to point to a repository being managed by the Version Control Repository Manager, enabling easy version comparison and software update from the repository to the server on which the Version Control Agent is installed.

The Version Control Agent provides version control and system update capabilities for a single HP system. The Version Control Agent determines server software status by comparing each component installed on the local system with the set of individual components or a specified ProLiant Support Pack or Integrity Support Pack listed in the Version Control Repository Manager. You can also update individual components or entire ProLiant Support Packs or Integrity Support Packs by clicking the **install** icon located next to the system software status icon.

## HP Systems Insight Manager Integration

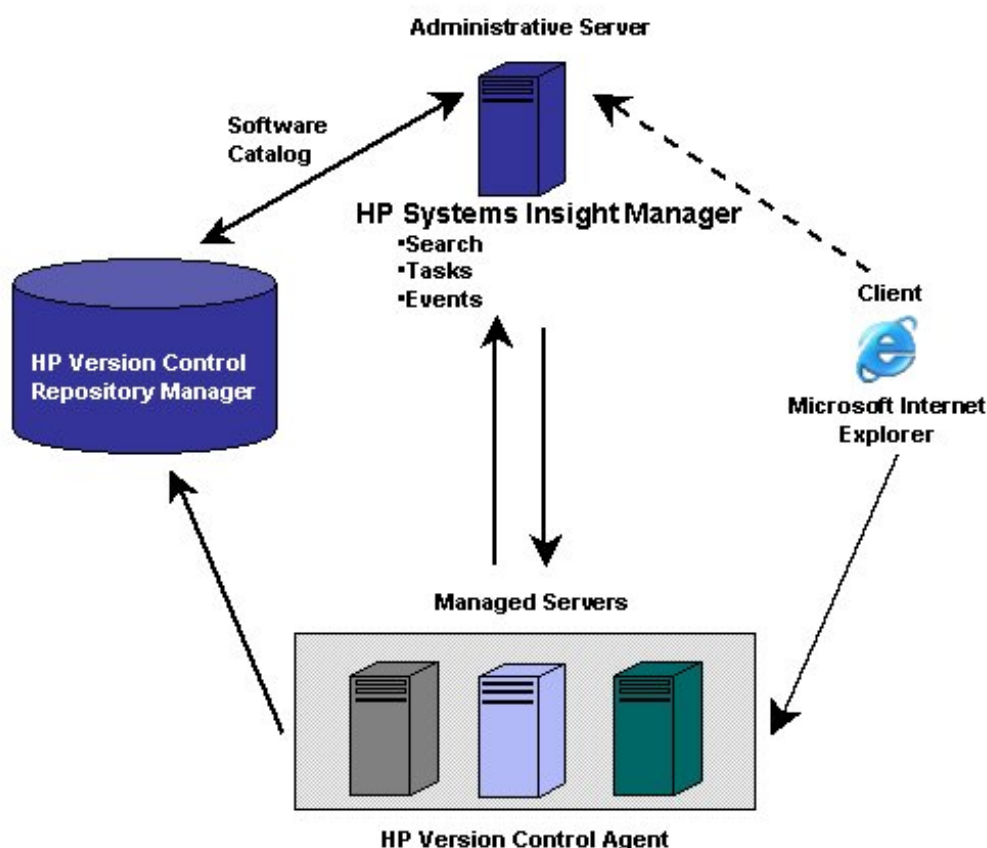
For software versioning and updating, HP Systems Insight Manager relies on the Version Control Repository Manager and the Version Control Agent. By using these applications, HP Systems Insight Manager provides a single view of the software status for all managed ProLiant or Integrity servers, plus the capability to update software and firmware on those servers through its powerful query

and task features. Updates can be scheduled and applied to specific sets of servers based on predetermined criteria, including applying updates only to those systems that require an update.

To take full advantage of the software update capabilities of HP Systems Insight Manager, ensure that:

- Every managed target server on the network has the Version Control Agent installed and is configured to use a repository
- Every repository that is to be used has the Version Control Repository Manager installed
- You use the automatic update feature of the Version Control Repository Manager to update all repositories with the latest software from HP automatically

The following diagram illustrates the interaction of HP Systems Insight Manager with the Version Control Repository Manager and the Version Control Agent to perform software updates.



## Basic Functions of Version Control Repository Manager and Version Control Agent

The Version Control Repository Manager and the Version Control Agent are integrated with the System Management Homepage, which is the standard single-system management tool in the ProLiant Essentials Foundation Pack. HP Systems Insight Manager, also part of the ProLiant Essentials Foundation Pack, uses the Version Control Repository Manager and the Version Control Agent to facilitate software versioning, updates, and related tasks.

## Version Control Repository Manager

The Version Control Repository Manager is designed to manage a repository containing ProLiant Support Packs, Integrity Support Packs and individual server software and firmware components.

The repository can be kept current by using the automatic update feature of the Version Control Repository Manager or by copying software directly to the repository from the SmartStart CD, SmartSetup CD, another repository, or the HP website.

## Version Control Agent

The Version Control Agent is available for Microsoft® Windows® and Linux operating systems. The Version Control Agent is an integrated part of the System Management Homepage that is designed to display the available software inventory of the server on which it is installed. The Version Control Agent also enables the installation, comparison, and update of server software from a repository that is managed by the Version Control Repository Manager.

Users with administrator or operator privileges can access the Version Control Agent to maintain the software inventory of the server manually. The installation of components and configuration activities are saved to a log file at the server. The Version Control Agent logs activities, such as software installations are saved in this log. However, installations performed outside the Version Control Agent do not appear in this log.

## HP Systems Insight Manager

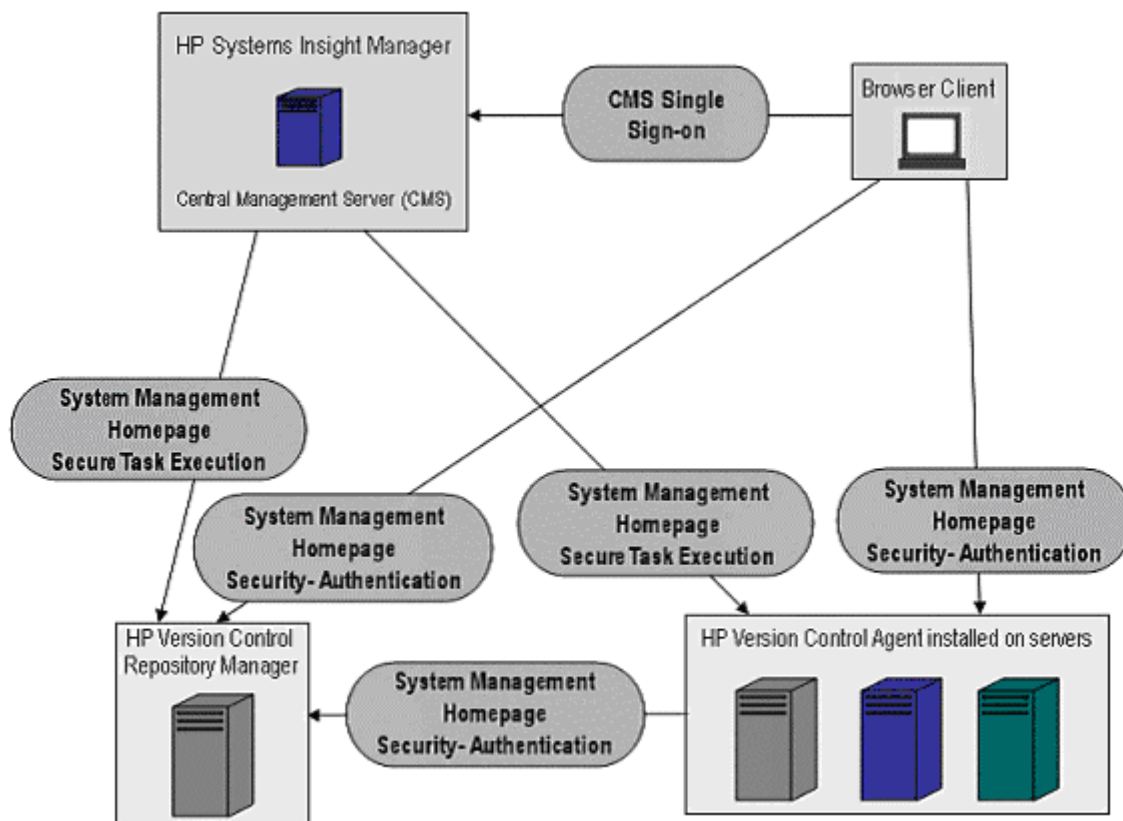
HP Systems Insight Manager is a web-based server management application that leverages the power of the Internet to provide web-based systems management. When integrated with the Version Control Agent and the Version Control Repository Manager, HP Systems Insight Manager provides a proactive, easy-to-use, automated, and cost-effective solution for managing distributed systems and updating software on the managed systems remotely.

HP Systems Insight Manager transforms management of standards-based, distributed computing environments. By enabling browser access to its components, HP Systems Insight Manager provides efficient management of HP and third-party devices and groups of systems using Simple Network Management Protocol (SNMP), Desktop Management Interface (DMI), and Hypertext Transfer Protocol (HTTP), automatically consolidating and integrating the management data and displaying the information on demand. With HP Systems Insight Manager, you can monitor and manage groups of servers, clients, clusters, and networking products anywhere, at any time, from a standard web browser.

## Security Considerations

Three distinct types of secure connections are employed in the version control architecture. The following diagram illustrates the connections.





All connections and data are transferred using Secure Sockets Layer (SSL) communications over HTTP. Interactive users connect using a web browser (client) application. The specific security depends on which web application they are browsing.

HP Systems Insight Manager uses operating systems authentication, based on the server where it is installed. Single sign-on enables a user that browses to the HP Systems Insight Manager system to follow links from that system to other managed systems without being prompted to login again.

When the same user browses directly to a managed server, they must authenticate through the System Management Homepage, using an account and password that is valid on that system.

HP Systems Insight Manager communicates with web applications, such as the Version Control Agent and the Version Control Repository Manager, using Secure Task Execution, which is enabled by configuring the System Management Homepage to trust that Central Management Server (CMS). Refer to the *System Management Homepage Installation Guide* for information regarding configuring the System Management Homepage.

Finally, when the Version Control Agent communicates with a Version Control Repository Manager, it acts as a client application, and requires the same kind of authentication information, such as an account and password, that an interactive user needs to login to the System Management Homepage on which the Version Control Repository Manager is installed. The System Management Homepage requires a valid operating system account and password. Refer to the Version Control Agent online help for more information regarding configuring these settings for the Version Control Agent.

For more information regarding the System Management Homepage, refer to the *System Management Homepage Installation Guide*. For more information regarding HP Systems Insight Manager, refer to the *HP Systems Insight Manager User Guide*.

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# Chapter 2. Migrating Version Control to the System Management Homepage

## Migrating Version Control with ProLiant Support Pack 7.1 and earlier

Legacy Version Control Agent continues to report accurately after upgrading Management HTTP Server to System Management Homepage since System Management Homepage detects installed Web Agents and migrates the administrator credentials.

Legacy Version Control Agent uses legacy System Management Homepage account names including **administrator**, **operator**, and **user**.

## Migrating Version Control with ProLiant Support Pack 7.2 and later

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### Important:

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This section is specific to the HP Version Control Agent (starting with the ProLiant Support Pack 7.2 and later).

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The HP Version Control Agent and HP Version Control Repository Manager login to the management web server by way of the System Management Homepage. The System Management Homepage is security software that must be configured in order to allow the Version Control Agent to connect to the Version Control Repository Manager using operating system authentication.

Previous versions of the System Management Homepage, known as Management HTTP Server, provided three levels of account access, including **administrator**, **operator** and **user**. Access was granted using the Management HTTP Server's built-in, local accounts, **administrator**, **operator** and **user**, with a password configured at the Management HTTP Server.

When the System Management Homepage is installed, the login changes to use operating system accounts that are authenticated at the system where the System Management Homepage is installed. The concept of an administrator or operator level still exists, however, and is accomplished by associating, in the System Management Homepage security settings, an operating system user group with that privilege level, and adding the user accounts to the groups that provide the level or privilege desired.

**Note:** There are no specific operating privilege requirements, other than login, that need to be granted to the operating system groups or user accounts. Privilege is granted solely by configuring the group in the System Management Homepage settings.

**Note:** Once the System Management Homepage is installed, the Management HTTP Server's built-in account and password pairs are no longer valid for interactive login on that system, though existing Management HTTP Server credentials can be used by a Version Control Agent to connect to a Version Control Repository Manager. For example, in the case where an existing Version Control Repository Manager system is upgraded from Management HTTP Server to System Management Homepage.

**Note:** If you are using HP Systems Insight Manager or Insight Manager 7, the **Software Status** column on the **Home** page displays **Unknown** for any Version Control Agent that cannot connect.

Operating system accounts that are in user groups that have been assigned the System Management Homepage administrator or operator level privileges, have full access to all Version Control Agent or Version Control Repository Manager features. Operating system accounts that are in user groups that have been assigned anonymous or user access have read-only access to page data.

## Migrating the Version Control Agent and the Version Control Repository Manager from Management HTTP Server to System Management Homepage to use Operating System Authentication

Although Version Control will continue to report accurately after upgrading Management HTTP Server to System Management Homepage, HP recommends that you configure System Management Homepage to use operating system authentication for Version Control Agent access, and re-configure the systems running Version Control Agent to point to the new account for added security.

Use the following steps as a guideline to reconfigure version control to use operating system authentication:

1. Identify the versions of the Version Control Agents that are installed that are being reconfigured to use operating system authentication.
2. Determine whether you intend to update all of the systems with Version Control Agents installed with ProLiant Support Pack 7.20 or Integrity Support Pack 3.20.
3. From the system where the Version Control Repository Manager is installed, create a local user account and user group specifically for version control use. If the installed Version Control Agents are 2.0.7.10 or later, any account name can be used, for example, **vcadmin**. If earlier versions of the Version Control Agent are installed and you are not planning to upgrade the Version Control Agent, you must use an account name that matches one of the non-administrator accounts the earlier versions of the System Management Homepage defined, for example, **operator** or **user**.

By default, the Version Control Agent is unable to login with an account named **administrator** using operating system authentication, to prevent an accidental lockout of the local administrator account.

To add operating system accounts:

1. Select **Start->Settings->Control Panel**.
2. Double-click **Users and Passwords**. The **Users and Passwords** dialog box is displayed.
3. From the **Users** tab, click **Add**. The **Add New User** dialog box is displayed.

4. In the **User name** field, enter a user name for this account.
  5. In the **Full name** field, enter a full name for this account.
  6. In the **Description** field, enter a brief description of this account.
  7. Click **Next**. The **Add New User** dialog box is displayed.
  8. In the **Password** field, enter a password for this account.
  9. In the **Confirm Password** field, re-enter the password exactly as you entered it in the **Password** field.
  10. Click **Next**. The **Add New User** dialog box is displayed asking you to indicate what level of access you want to grant this user.
  11. Select the appropriate access level for this user:
    - **Standard User.** Users can modify the computer and install programs, but cannot read files that belong to other users.
    - **Restricted User.** Users can operate the computer and save documents, but cannot install programs or make potentially damaging changes to the system files and settings.
    - **Other.** This option enables you to specify a custom level.
      - **Administrators.** Administrators have complete and unrestricted access to the computer/domain. This level is required to connect from the Version Control Agent to the Version Control Repository Manager.
      - **Backup Operators.** Backup Operators can override security restrictions for the sole purpose of backing up or restoring files.
      - **Guests.** Guests have the same access as members of the Users group by default, except for the Guest account which is further restricted.
      - **Power Users.** Power Users possess most administrative powers with some restrictions.
      - **Users.** Users are prevented from making accidental or intentional system-wide changes.
  12. Click **Finish**. The account is created and appears in the **Users for this computer** list.
  13. Click **OK** to close the **Users and Passwords** dialog box.
- 
4. Create a user group that includes the System Management Homepage's **Administrator** or **Operator** list, for example, **VCOperators**. Add the account that you created to that group.
  5. If you used one of the *legacy* account names, and you have not upgraded to System Management Homepage yet, change the existing **operator** or **user** account's password to match the identically named operating system account.

6. If you intend to upgrade, add the created user group to the **Administrator** or **Operator** group list in the System Management Homepage-**Operating System Groups** page during installation. If you have already upgraded to System Management Homepage, add the the created user group to System Management Homepage through the System Management Homepage **Settings** page. For more information regarding assigning accounts in System Management Homepage, refer to the System Management Homepage online help.

The user group must be added to the **Administrator** or **Operator** lists in the System Management Homepage for the Version Control Agent to have the ability to download and install software using the Version Control Repository Manager on this system.

Login to the System Management Homepage using the newly created account and password to verify that it logs in successfully.

7. Change the configuration of the Version Control Agents that are already installed. There are several ways to change the configuration, including:

- a. HP Systems Insight Manager users should use **Replicate Agent Settings** to configure one Version Control Agent to the account and password previously created in step 3, and then deploy that configuration to all installed Version Control Agents.

**Note:** This is the lowest impact solution, and it does not cause a reboot or restart of the affected systems.

- b. Pre-configure a Version Control Agent component using the Version Control Repository Manager, and use HP Systems Insight Manager or Insight Manager 7 to create a software deployment task to deploy this component.

If you choose to deploy the Version Control Agent from the 7.20 Support Pack, you must deploy the System Management Homepage component first before the Version Control Agent can install.

**Note:** This method causes a reboot of the systems where the Version Control Agent is upgraded, since it is being used to upgrade itself.

- c. Use the **HP Remote Deployment Utility** to pre-configure a Version Control Agent for Windows component. If you choose the Version Control Agent from the 7.20 Support Pack, you must deploy the System Management Homepage component first before the Version Control Agent can install.

8. Verify that the settings are correct and functioning by browsing to one of the systems where an updated Version Control Agent is installed, and confirming the software status is accurate. If you are an HP Systems Insight Manager or Insight Manager 7 user, run the **Software Status Polling** task to display updated status.

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# Chapter 3. Obtaining the Software

This chapter provides information regarding obtaining the HP Version Control Repository Manager and HP Version Control Agent.

## Obtaining HP Systems Insight Manager, Version Control Agent, and Version Control Repository Manager

### HP Version Control Agent

The HP Version Control Agent is available from the following sources:

- **ProLiant Support Pack or Integrity Support Pack.** To download the latest version of the ProLiant Support Pack or Integrity Support Pack, go to <http://www.hp.com/servers/swdrivers>. The ProLiant Support Pack is also available on the SmartStart CD and the Software Update CD. The Integrity Support Pack is available on the SmartSetup CD.
- **SmartStart CD.** For more information regarding the SmartStart CD, refer to the documentation included on the SmartStart CD or go to <http://www.hp.com/servers/manage>.
- **Software Update CD.** The Software Update CD provides software maintenance functionality. For more information regarding the Software Update CD, refer to the documentation included on the Software Update CD or go to <http://www.hp.com/servers/manage>.
- **SmartSetup CD.** For more information about the SmartSetup CD, refer to the documentation included on the SmartStart CD or go to <http://www.hp.com>.

### HP Version Control Repository Manager

The HP Version Control Repository Manager is available from the following sources:

- **HP Website.** Go to <http://www.hp.com/servers/manage>.
- **HP Management CD.** When web access is not available or download speeds are too slow, the Version Control Repository Manager can be obtained from the HP Management CD 7.20 or later. For more information about the HP Management CD, refer to the documentation included on the HP Management CD or go to <http://www.hp.com/servers/manage>.

### HP Systems Insight Manager

HP Systems Insight Manager is available from the following sources:

- **HP Website.** Go to <http://www.hp.com/servers/manage>.

- **HP Management CD.** When web access is not available or download speeds are too slow, HP Systems Insight Manager can be obtained from the HP Management CD 7.20 or later. For more information about the HP Management CD, refer to the documentation included on the HP Management CD or go to <http://www.hp.com/servers/manage> .



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# Chapter 4. Installing the Version Control Agent Remotely Using the HP Remote Deployment Utility

The HP Remote Deployment Utility for Windows is a graphical application that provides enhanced Support Pack deployment capabilities. Using a point and click interface, the utility enables you to deploy and maintain Support Packs and Smart Components on a local server or remote server accessible over a network connection.

To run the HP Remote Deployment Utility, invoke the Setup.exe which is present as part of the Support Pack corresponding to each operating system. The Support Pack is identified based on the operating system installed on the server. The components that are supported for installation are listed in the right side of the frame. The HP Version Control Agent can be installed as a part of the complete Support Pack, or you can install the Version Control Agent component individually. The Version Control Agent component also provides support for pre-configuration, which allows the configurations of the component to be configured and saved as part of the component itself prior to installing on target machines. This facilitates the installation of the pre-configured component without any user intervention, and the installed component has the configurations, which are saved during pre-configuration.

All configurable components are listed at the top of the left frame under **All configurable components**.

## Pre-configuring the Version Control Agent for Windows Using the HP Remote Deployment Utility

To pre-configure the Version Control Agent component:

1. Under **All configurable components**, right-click on the **Version Control Agent for Windows** component and select **Configure**. The **Version Control Agent Setup** page is displayed.

The Version Control Agent must be configured to connect to a Version Control Repository Manager to determine software status of installed software, availability of updates, and to download software for installation. The **Version Control Agent Setup page enables you to specify a system that has the Version Control Repository Manager installed**.

2. In the **Computer Name** field, enter the name of the system that has the Version Control Repository Manager installed.
3. In the **Login Account** field, enter the login account for the System Management Homepage of that system. If you have created an account specifically for version control, use that account name.
4. In the **Login Password** field, enter the password for the login account on the Version Control Repository Manager system specified.

5. Enable or disable the **Overwrite corresponding settings of an already installed Version Control Agent when this version is installed as an upgrade or re-installed. If not checked, the values saved here will apply only on the initial installation of this copy of Version Control Agent software.** Enable this option if you are upgrading or reinstalling and you want to overwrite the existing Version Control Agent settings.

**Note:** This option is enabled by default. If you do not want to overwrite existing Version Control Agent settings, you must deselect this option.

6. Click **Save** to save your settings for the Version Control Agent component. Click **Cancel** to discard the settings and close the **Version Control Agent Setup** page.

You can install this pre-configured component to target systems without the need for you to configure settings in the Version Control Agent after installation. For more information regarding using the HP Remote Deployment Utility, refer to chapter 2 of the *HP ProLiant Support Pack and Deployment Utilities User Guide* on the SmartStart CD for more information regarding deploying Support Packs in Windows.

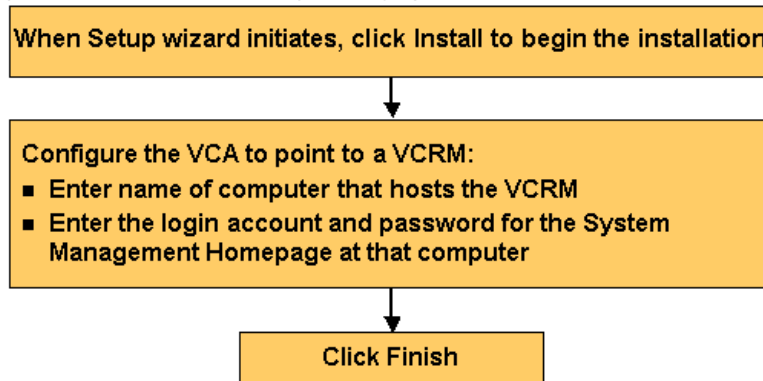
**Note:** HP recommends that you install the System Management Homepage component, which is required to use the Version Control Agent, along with the Version Control Agent component.

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# Chapter 5. Installing the HP Version Control Agent on Windows Operating Systems

## HP Version Control Agent for Windows Minimum Requirements

The HP Version Control Agent can be used in conjunction with HP Systems Insight Manager and the HP Version Control Repository Manager. The options must be configured for full functionality. The following diagram illustrates a logical order for the initial Version Control Agent installation process on a Windows operating system.



## Version Control Agent for Windows System Requirements

To install the Version Control Agent on a Windows system, the system must meet the minimum requirements listed below.

### Hardware and Software Requirements

- Operating system
  - Windows Server 2003
  - Windows Server 2003 ES for 64-bit Extended Systems (starting with the ProLiant Support Pack 7.2 and later)
  - Windows Server 2003 64-bit Enterprise Edition and Datacenter Edition (starting with the ProLiant Support Pack 7.2 and later)
  - Windows 2000 - Server, Advanced Server, or Terminal Server Edition (not Datacenter) with Service Pack 2 or later
- Server software
  - TCP/IP installed

- SNMP services installed and active with at least one community string defined to allow read access
- Foundation Agents 5.40 or later or Insight Management Agent 6.30 or later required for software inventory and status features to be functional
- Insight Management Agents 3.0 or later for Integrity systems
- System Management Homepage installed (starting with the ProLiant Support Pack 7.2 and later)
- Hardware
  - ProLiant Server
  - Integrity Server (rx1620, rx2600, rx2620, rx4640, rx5670, rx7620, rx8620, Superdome)
- Disk space
  - 10 MB
- System memory
  - 256 MB of RAM for Windows Server 2003
  - 256 MB of RAM for Windows 2000
  - 256 MB of RAM for Windows 2003 Server ES for 64-bit Extended Systems (starting with the ProLiant Support Pack 7.2 and later)
  - 256 MB of RAM for Windows 2003 Server 64-bit Edition (starting with the ProLiant Support Pack 7.2 and later)

## Version Control Agent for Windows Client Requirements

Minimum requirements for client access to the Version Control Agent are outlined below.

### Hardware and Software Requirements

- Operating system
  - Windows Server 2003
  - Windows XP
  - Windows 2000
- Browser
  - Internet Explorer 6.0 with Service Pack 1 or later
  - Mozilla 1.6 or later
- System memory
  - 256 MB of RAM for Windows XP or Windows Server 2003
  - 128 MB of RAM for Windows 2000

# Version Control Agent for Windows Installation Overview

1. Verifies the presence of a previously installed version of the Version Control Agent or performs new installation on systems with no previous installation or upgrades current installation on systems with existing installation

**Note:** You do not need to initiate the upgrade process because the installation of the Version Control Agent does it for you.

2. Copies the necessary files to the correct location
3. Registers Version Control Agent
4. Initiates the operation of the Version Control Agent

The Version Control Agent installation executable is located in the following locations:

1. <http://www.hp.com/servers/manage>
2. SmartStart CD
3. SmartSetup CD
4. Software Update CD
5. A repository managed by the Version Control Repository Manager that contains the latest Windows Support Pack.

## Installing the Version Control Agent for Windows

The Version Control Agent installation wizard initiates the HP Insight Management Agent configuration settings in interactive mode when the installation executable is run from the command line or launched from Windows Explorer.

After the wizard initiates, the **HP Setup** dialog box is displayed.

If a previous version of the Version Control Agent is installed, the Version Control Agent upgrade is initiated. The **HP Setup** dialog box is displayed and indicates the software is installed but not current. Click **Install** to upgrade.

If a current version of the Version Control Agent is installed, the Version Control Agent reinstall is initiated. The **HP Setup** dialog box is displayed and indicates the software is installed and current. Click **Install** to reinstall over the currently installed software.

If you have a newer version of the Version Control Agent installed, and you want to downgrade, uninstall the current Version Control Agent, reboot the machine, and run the new installation.

Click **Install**. If this is the initial installation, the **Version Control Agent Configuration** dialog box is displayed.

**Note:** The **Setup** dialog box may display text indicating the HP Insight Management Agents have not been installed if the Version Control Agent is the first Insight Management Agent installed on the system.

## Configuring the Version Control Agent

The Version Control Agent Configuration wizard is displayed during the initial installation of the Version Control Agent enables you to configure the Version Control Repository Manager, which provides a reference point for available HP software.

**Caution:** Enter the account and provide the appropriate password for the Version Control Agent to download software from the Version Control Repository Manager. If anonymous access is disabled by the System Management Homepage at the Version Control Repository Manager's host computer, select at least a user-level account and provide the appropriate password for the Version Control Agent to provide software status by comparing the inventory with what is available at the Version Control Repository Manager. However, anonymous access does not allow the Version Control Agent to download and install software.

To configure the Version Control Agent's settings for the Version Control Repository Manager it will use for software status and software downloads:

1. In the **Repository Manager Device** field, enter the name of the system that hosts the Version Control Repository Manager. You can enter an IP address or system name.
2. In the **Login Account** field, enter a login that has the appropriate security level for the System Management Homepage on the specified system. The type of account, account name and password depend on whether the System Management Homepage or Management HTTP Server is installed at the system specified in the previous step. This account must have **Operator** or **Administrator** level at the Version Control Repository Manager system, so it is recommended that you use a browser to verify the login account and password before entering it.

**Note:** This account is at the Version Control Repository Manager system, not the Version Control Agent system.

**Note:** To avoid any potential administrator lockouts from the System Management Homepage, the account named **Administrator** cannot be used to connect to the Version Control Repository Manager from the Version Control Agent. Do not use that account if the Version Control Repository Manager system has the System Management Homepage installed. For more information regarding migrating version control to System Management Homepage, refer to *Migrating Version Control to the System Management Homepage* [11].

3. In the **Password** field, enter the password for the login account.
4. In the **Password Confirm** field, re-enter the password exactly as you entered it in the **Password** field.
5. Click **Finish**. The **HP Setup** dialog box is displayed and the installation begins. When it completes, the results of the installation are displayed.
6. Click **Close**. The installation is complete.

---

# Chapter 6. Installing the Version Control Agent Using the Linux Deployment Utility

The Linux Deployment Utility provides an easy and efficient method to upgrade and manage system software. The utility enables you to deploy and maintain Support Pack software on local servers through use of the terminal window and on remote servers through use of the ssh (secure shell) utility. The Linux Deployment Utility is shipped with the Linux Support Pack, which is available on the SmartStart CD. The Linux Deployment Utility enables you to install components or Support Packs in-place, but not remotely.

The Linux Deployment Utility parses the .XML files associated with each component and verifies whether the installation of those components is supported on the specific environment. The components that are supported for installation are listed with a status icon indicating whether the component should to be installed, and whether it should be configured. Configuring or pre-configuring the Version Control Agent component is optional.

## Pre-configuring the Version Control Agent Component

**Note:** All pre-configuration settings are saved in the component XML file.

To pre-configure the Version Control Agent component:

1. Run the `insta11720.sh` script. The **HP ProLiant LDU** page appears.
2. Select **Version Control Agent for Linux**
3. Right-click and select **Configure Component**. The **Configuration Options** page is displayed.
  - a. In the **Server Name** field, enter the Version Control Repository Manager system name.
  - b. In the **Login Name** field, enter the login name for the Version Control Repository Manager system.
  - c. In the **Password** field, enter the password associated with the Version Control Repository Manager specified.
  - d. Click **Save**. The **Save Configuration Parameters?** page is displayed.
  - e. Enter the absolute path name or click **OK** to accept the default path name for storing the configuration settings.
  - f. Click **OK** to complete the Version Control Repository Manager configuration. The **Config?** column displays **Completed**.
4. After pre-configuration is complete, installation can be initiated through the Linux Deployment Utility as part of the complete Support Pack or the single component can be installed independently.

## Installing the Version Control Agent as a Single Component

You can install the Version Control Agent independently of other components included in the Support Pack.

To install the Version Control Agent as a single component:

1. Run the **install720.sh** script. The **HP ProLiant Linux Deployment Utility** page is displayed.
2. Select all components *except* the Version Control Agent component.
3. Right-click all other components and select **Do Not Install component**.

**Note:** The Version Control Agent component can also be installed by invoking the following command from the shell prompt:

```
./install720#####.sh -c hpvca-7.2.0-x.linux.rpm
```

4. This process installs the component with the configurations that are provided through the Linux Deployment Utility.

For more information regarding using the Linux Deployment Utility, refer to the *HP ProLiant Support Pack and Deployment Utilities User Guide*.

## Installing the Version Control Agent Without Pre-configuration

You can install the Version Control Agent component interactively without any configurations. After installation, you can configure the Version Control Agent settings at any time by browsing to Version Control Agent with System Management Homepage's **Administrator** or **Operator** privileges.

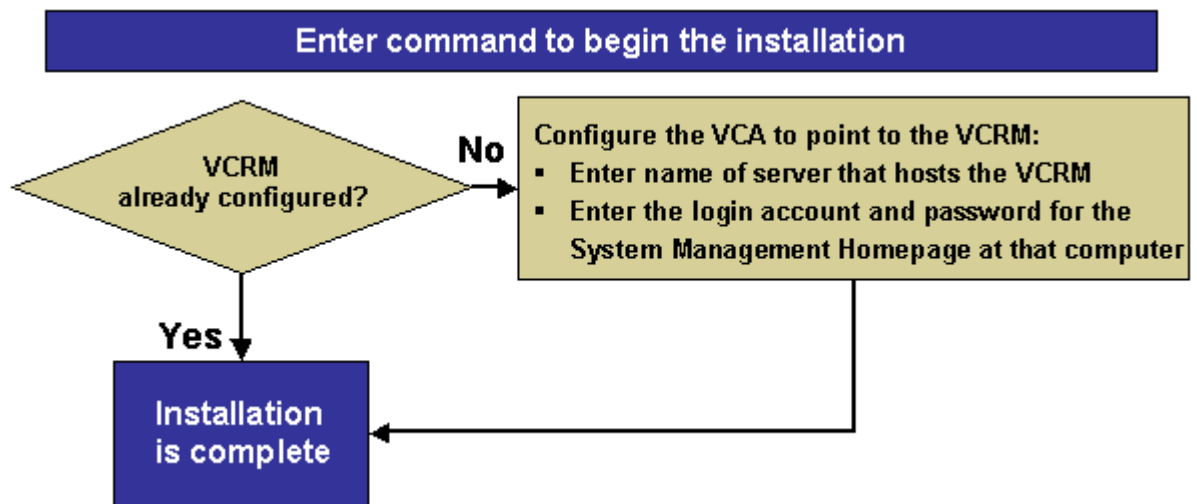


---

# Chapter 7. Installing the HP Version Control Agent on Linux Operating Systems

## Version Control Agent for Linux Minimum Requirements

The HP Version Control Agent can be used in conjunction with HP Systems Insight Manager and the HP Version Control Repository Manager. The options must be configured for full functionality. The following diagram illustrates a logical order to the Version Control Agent installation process on a Linux operating system.



## VCA for Linux System Requirements

To install the Version Control Agent on a Linux system, the system must meet the minimum requirements listed below.

### Hardware and Software Requirements

- Operating system
  - Red Hat Enterprise Linux 3 Update 3 for x86
  - Red Hat Enterprise Linux 3 Update 3 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
  - Red Hat Enterprise Linux 2.1 Update 5
  - SuSE Linux Enterprise Server 9 for x86
  - SuSE Linux Enterprise Server 9 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
  - SuSE Linux Enterprise Server 8 for AMD64 (starting with the ProLiant Support Pack 7.2 and later)
  - UnitedLinux 1.0

- Server software
  - System Management Homepage (**hpsmh RPM**) installed
  - HP Server Management Application and Agents (**hpasm RPM**) 7.00 or later required for software inventory and status features to be functional
- Hardware
  - ProLiant Server
- Disk space
  - 36 MB
- System memory
  - 256 MB of RAM
- Hp Server Management Drivers and Agents
  - hpasm RPM 7.0 or later

## Version Control Agent for Linux Client Requirements

Minimum requirements for client access to the Version Control Agent from Linux operating systems are outlined below.

### Hardware and Software Requirements

- Operating system
  - Red Hat Enterprise Linux 3 Update 3 for x86
  - Red Hat Enterprise Linux 3 Update 3 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
  - Red Hat Enterprise Linux 2.1 Update 5
  - SuSE Linux Enterprise Server 9 for x86
  - SuSE Linux Enterprise Server 9 for AMD64 and Intel EM64T (starting with the ProLiant Support Pack 7.2 and later)
  - SuSE Linux Enterprise Server 8 for AMD64 (starting with the ProLiant Support Pack 7.2 and later)
  - UnitedLinux 1.0
- Browser
  - Mozilla 1.6 (local or remote access) or later
- System memory
  - 128 MB of RAM

**Note:** You can browse to a Linux server from a Windows system using Internet Explorer 6.0 or higher.

# Installing the Version Control Agent for Linux

The Version Control Agent installation process installs the necessary files and starts the services, which are registered for automatic execution on the next system initialization. A reboot is not necessary after the installation process.

The Version Control Agent for Linux requires the Version Control Repository Manager 2.0.1.30 or later.

To install the Version Control Agent on a Linux system:

**Note:** You must be logged in as root to perform the initial install, reinstall, or upgrade of the Version Control Agent.

1. For an initial install or upgrade, enter the following command:

```
# rpm -Uvh hpvca-2.1.0-x.linux.i386.
```

Starting with ProLiant Support Pack 7.2, Version Control Agent for Linux can be installed or upgraded as part of the Support Pack installation.

2. If the System Management Homepage has not been configured, then it must be configured. For more information regarding configuring the System Management Homepage, refer to the System Management Homepage Online Help System.
3. The initial installation of the Version Control Agent enables you to configure the Version Control Repository Manager. The Version Control Repository Manager host address, login name, and password may be specified. For example:

**Please, set the required fields for version control agent configuration**

**Repository.....:** <enter the name or IP of the system where the repository is installed>

**Login.....:** <enter a login name with administrator privileges. For example, **vcadmin.** >

**Password.....:** <enter the password associated with the login name above>

**Confirm Password:** <re-enter the password exactly as you entered it previously>

**Confirm data? Y/N:** <enter Y or N>

**vcagent configuration complete**

**press any key to continue...**

**Note:** If you do not specify a Version Control Repository Manager, a message displays asking you if you want to specify the Version Control Repository Manager. If you select **No**, a warning message is displayed indicating a repository has not been configured.

4. The Version Control Agent configuration is complete. A reboot is not necessary.

## Verifying the Version Control Agent Service is Running

To verify the Version Control Agent service is running on the system, enter the following:

1. For UnitedLinux and SuSE Linux:

```
# /usr/sbin/rchpvca status
```

The output that is displayed is similar to:

```
Checking for process hpvca: running
```

2. For Red Hat Linux:

```
# service hpvca status
```

The output that is displayed is similar to:

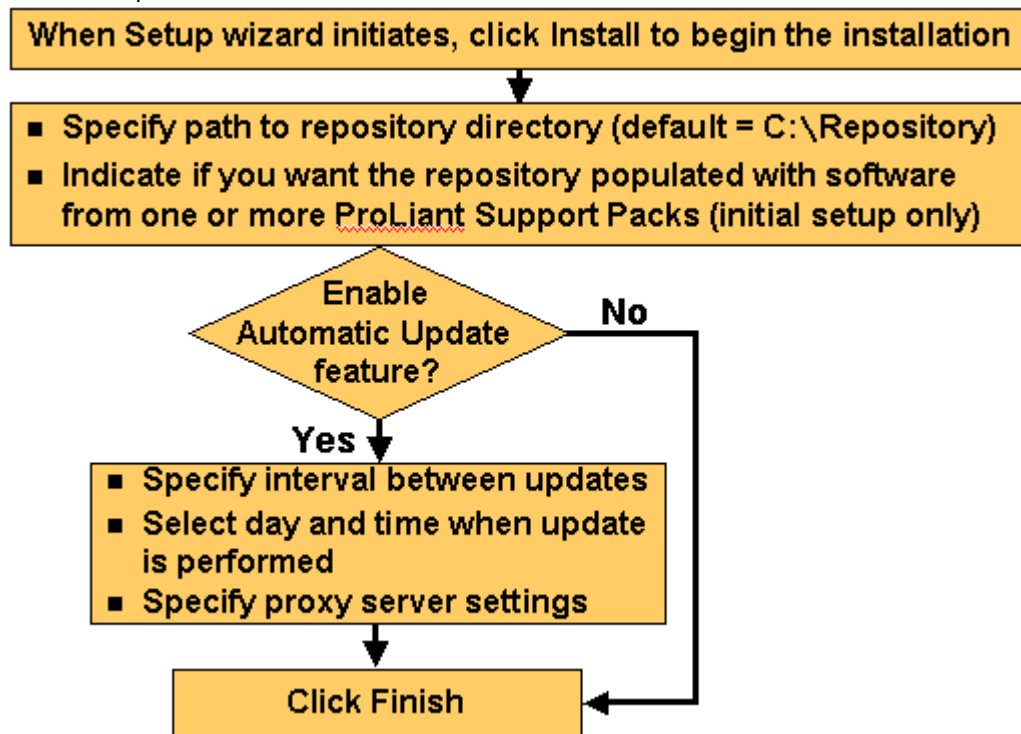
```
vcagentd (pid 698 697 696 695 694 657) is running...
```

---

# Chapter 8. Installing the HP Version Control Repository Manager on Windows

## HP Version Control Repository Manager Minimum Requirements for Windows

The following diagram illustrates a logical order to the HP Version Control Repository Manager installation process.



## System Requirements

To install the Version Control Repository Manager, the computer must meet the minimum requirements listed.

### Hardware and Software Requirements

- Operating system
  - Microsoft Windows Server 2003
  - Windows Server 2003 ES for 64-bit Extended Systems
  - Windows Server 2003 64-bit Enterprise Edition and Datacenter Edition
  - Windows XP

- Windows 2000 - Professional, Server, or Advanced Server (not Datacenter) with Service Pack 2 or later
- Server software
  - TCP/IP installed
  - System Management Homepage installed
- Hardware
  - ProLiant Server
  - HP Business Desktops
  - Integrity Server (rx1620, rx2600, rx2620, rx4640, rx5670, rx7620, rx8620, Superdome)
- Disk space
  - 14-15 MB (Installation files only)
  - 1 GB for the repository. This must be on a local, writeable drive.
- System memory
  - 256 MB for Windows XP and Windows Server 2003
  - 256 MB of RAM for Windows 2000

---

### Important:

---



The disk space requirements shown above are specific to the installation of the Version Control Repository Manager. The size of the repository depends on the files contained in the repository directory.

---

## Client Requirements

Minimum requirements for client access to the Version Control Repository Manager are outlined below.

### Hardware and Software Requirements

- Operating system
  - Windows Server 2003
  - Windows XP
  - Windows 2000
- Browser
  - Internet Explorer 6.0 with Service Pack 1 or later
  - Mozilla 1.6 or later

**Note:** Uploading software by way of the Mozilla browser interface is not supported.

- System memory

- 256 MB of RAM for Windows XP or Windows Server 2003
- 128 MB of RAM for Windows 2000

## Configuring Internet Explorer settings for the Version Control Repository Manager

Some features of the Version Control Repository Manager's browser interface depend on browser settings at the client system from which the Version Control Repository Manager. The security settings in Microsoft Internet Explorer must be set to initialize the **Version Control Repository Manager Upload** process.

To configure the Microsoft Internet Explorer security settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box is displayed.
2. Click **Custom Level**. The **Security Settings** dialog box is displayed.
3. Under **ActiveX controls and plug-ins, Download signed ActiveX controls**, select **Enable**.
4. Under **Run ActiveX controls and plug-ins**, select **Enable**.
5. Under **Script ActiveX controls marked safe for scripting**, select **Enable**.

The advanced settings in Microsoft Internet Explorer must be set to ensure that saving a copy of the Version Control Repository Manager log functions when the log is cleared.

To configure the Microsoft Internet Explorer advanced settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box is displayed.
2. Select the **Advanced** tab.
3. Scroll down to the **Security** section, and disable **Do not save encrypted pages to disk**.
4. Click **OK** to save your changes and close the **Internet Options** dialog box.

## Installing the Version Control Repository Manager

The Version Control Repository Manager installation wizard initiates the HP Insight Management Agent configuration settings in interactive mode when the installation executable is run from the command line or launched from Windows Explorer. After the wizard initiates, the **HP Setup - Version Control Repository Manager** dialog box is displayed.

If you have a previous version of the Version Control Repository Manager installed on a machine, the installation wizard detects it and initiates the upgrade with the current version displayed in the dialog box.

If you have the current version of the Version Control Repository Manager installed on a machine, the installation wizard detects it and initiates the reinstallation. The **HP Setup - Version Control**

**Repository Manager** dialog box indicates that the software is installed and current and that you can reinstall it.

If you have a newer version of the Version Control Repository Manager installed and you want to downgrade, uninstall the current Version Control Repository Manager, reboot the machine, and run the new installation.

1. Click **Install**. The **Version Control Repository Manager Setup - Repository Directory** dialog box is displayed.
2. Click **Cancel** to exit the setup and abort the installation.

## Version Control Repository Manager Setup - Repository Directory

The **Version Control Repository Manager Setup - Repository Directory** dialog box enables you to specify the directory where HP software is located so the Version Control Repository Manager can monitor it. The default repository directory path is `%SystemDrive%\repository`. In addition, you can select to have the repository initially populated if you are installing the Version Control Repository Manager for the first time.

**Note:** If you are upgrading or reinstalling the Version Control Repository Manager, the **Perform an initial repository population** option is unavailable.

To change the repository directory:

1. Click **Browse**.
2. Select the directory where the HP software is to be stored. The path to the directory appears in the **Repository Directory** field.
3. Select **Perform an initial repository population** if you want to have the repository updated with Support Packs. (If **Perform an initial repository population** is deselected, or the option is not displayed, the **Automatic Update** wizard page is displayed next.)
4. Click **Next** to accept the selected directory. If you selected **Perform an initial repository population** on the previous dialog box, the **Version Control Repository Manager Setup - Initial Repository Configuration** dialog box is displayed. If you did not, the **Version Control Repository Manager Setup - Automatic Update** dialog box is displayed and you can proceed to "Configuring Automatic Update" [33].

The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

**Note:** If you do not want to use the automatic update feature, refer to *Updating a Repository* [35] to update the repository manually.

## Repository Population - Initial Installation

1. Click **Add** to select a directory that contains a Support Pack. The **Browse for Folder** dialog box is displayed.
2. Navigate to the directory that contains a Support Pack, and click **OK** or **Cancel** to abort the selection.



All Support Packs found in the selected directory are added to the list shown in the **Initial Repository Configuration** dialog box. You can choose as many directories as you want, and then delete any Support Packs from the list you do not want copied.

3. Click **Next**. The **Version Control Repository Manager Setup - Automatic Update** dialog box is displayed.

## Configuring Automatic Update

The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

**Note:** If you do not want to use the automatic update feature, refer to *Updating a Repository* [35] to update the repository manually.

To configure an automatic update:

1. Select **Enable Automatic Update** to automatically download Support Packs and components at a specific time.
2. In the **Interval between updates** field, select an interval from the dropdown menu.
3. In the **Day of Week** field, select a day of the week from the dropdown menu to update the repository.
4. In the **Time of Day** field, select a time from the dropdown menu for the update to occur.
5. Use the **Set Proxy** option to configure a proxy server for Version Control Repository Manager.

To set proxy server:

- a. Click **Set Proxy**. The **Proxy Server Settings** dialog box displays.
  - b. In the **Server Name** field, enter the name of the proxy server. Clearing this field removes all proxy server settings, and the automatic update is performed without connecting through a proxy server.
  - c. In the **Port** field, enter the proxy server port. For example, enter **8080**. If the **Server Name** field is blank, this value is ignored.
  - d. In the **Server Login** field, enter a valid login for the proxy server. Leave this field blank if a server login is not required.
  - e. In the **Password** field, enter a valid password for the login on the proxy server. If the **Server Login** field is blank, this field is ignored.
  - f. Click **OK** to save your settings or **Cancel** to discard the settings.
6. Click **Finish** to save the Version Control Repository Manager settings.

If **Automatic Update** is enabled and a proxy server is configured, the connection with the proxy server is verified before continuing. If the proxy server cannot be reached, a message is displayed indicating there was an error testing the download of the auto-update catalog. Click **Yes** to save your settings or click **No** to re-enter the proxy server information.

7. The **HP Setup** wizard page is displayed, and the installation begins. When it completes, the result of the installation is displayed.
8. Click **Close**. The installation is complete.

**Note:** You can install the Version Control Repository Manager during the HP Systems Insight Manager installation. Refer to the *HP Systems Insight Manager User Guide* for more details.

---

# Chapter 9. Updating a Repository

The **Auto Update** feature of the HP Version Control Repository Manager is the preferred solution for updating repositories automatically. The **Auto Update** feature of the Version Control Repository Manager keeps servers connected to HP for proactive delivery of the latest Support Packs and components directly to a specified repository. You can configure the automatic population of the repository during the Version Control Repository Manager installation, or in the event you cannot use the **Auto Update** feature, you can populate the repository from the SmartStart CD as indicated in the Updating the Repository from the SmartStart CD [35] section. If you must update the repository manually, for example, because you deleted a Support Pack from the repository and you later needed it, refer to the Updating the Repository Manually from the SmartStart CD [35] section.

## Updating the Repository from the SmartStart CD

To populate the repository with ProLiant Support Packs from the SmartStart CD 6.0 or later:

1. Insert the **SmartStart CD** in the CD-ROM drive. The **SmartStart welcome** screen is displayed.
2. Click **Populate a version control repository with the ProLiant Support Pack available on this SmartStart CD**. A screen is displayed asking you to enter a machine name.
3. In the **Machine Name** field, enter the name of the machine that has the repository installed.
4. Click **Populate**. Click **Clear** to clear the **Machine Name** field or **Back** to return to the previous screen. The **System Management Homepage** is displayed.
5. In the **User** field, select the appropriate login from the dropdown menu.
6. In the **Password** field, enter the password associated with the login that you selected.
7. Click **OK**. The **Upload Support Pack(s)** page is displayed.
8. To upload a ProLiant Support Pack, refer to the Updating the Repository Manually from the SmartStart CD [35].

## Updating the Repository Manually from the SmartStart CD

To populate the repository manually with ProLiant Support Packs from the SmartStart CD version 6.0 or later:

1. Insert the **SmartStart CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the SmartStart CD.
3. Click **Compaq** to open the directory.
4. From within the **Compaq** directory, click **CSP** to open the directory.

5. The `CSP` directory contains a `NW` directory that contains the Netware-related Support Packs, a `Linux` directory for Linux-related Support Packs, and a `Windows NT®` directory that contains all of the components and support packs and an XML file for each supported Microsoft operating system. Click **Linux** or **NT** depending on the type of Support Packs with which you want to populate your repository.
6. After you have opened one of the directories, select all of the Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From Windows Explorer, navigate to the repository directory, for example, `c:\repository`. Click the repository directory.
8. From the **Microsoft Windows Explorer** toolbar, click **Edit** and select **Paste**. The Support Packs are copied into the `c:\repository` directory. The repository is now populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the Version Control Repository Manager to allow component configuration, a component cannot be read-only. Deselect the read-only attribute and click **OK**.

## Updating the Repository Manually from the SmartSetup CD

To populate the repository with Integrity Support Packs from the SmartSetup CD 3.2 or later:

1. Insert the **SmartSetup CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the SmartSetup CD.
3. Click `Contents` to open the directory.
4. From within the `Contents` directory, click `supportpack` to open the directory.
5. The `contents` directory contains a `supportpack` directory that contains all Integrity Support Packs.
6. After you have opened the directory, select all of the Integrity Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From **Windows Explorer**, navigate to the repository directory. For example, `c:\repository`. Select the `repository` directory.
8. From the **Windows Explorer** toolbar, click **Edit** and select **Paste**. The Integrity Support Packs are copied into the `c:\repository` directory. The repository is populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the Version Control Repository Manager to allow component configuration, a component cannot be read-only. Deselect the read-only attribute and click **OK**.

---

# Chapter 10. Uninstalling the HP Version Control Agent on Windows

To uninstall the HP Version Control Agent:

1. Select **Start->Settings->Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs Properties** dialog box is displayed with a listing of installed software.
3. Select **Version Control Agent**.
4. Click **Change/Remove**. The **Remove** dialog box is displayed asking you to confirm your intention to remove the Version Control Agent.
5. Click **Yes**. The **Version Control Agent Remove** dialog box is displayed again indicating whether the Version Control Agent has been successfully removed.
6. Click **OK**. Reboot the system manually to completely remove all of the Version Control Agent files.

**Note:** Reboot the system before reinstalling the Version Control Agent.

---

# Chapter 11. Uninstalling the HP Version Control Agent on Linux Operating Systems

To uninstall the HP Version Control Agent for Linux:

To uninstall the HP Version Control Agent, log in as root, and execute the following command:

```
# rpm -e hpvca
```

The HP Version Control Agent is uninstalled.

**Note:** After the Version Control Agent has been removed, the configuration options and logs are deleted.

---

# Chapter 12. Uninstalling the HP Version Control Repository Manager on Windows

To uninstall HP Version Control Repository Manager:

1. Select **Start->Settings Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs** dialog box is displayed with a listing of installed software.
3. Select **Version Control Repository Manager**.
4. Click **Change/Remove**. The **Remove** dialog box is displayed asking you to confirm your intention to remove the Version Control Repository Manager.
5. Click **Yes**. If you decide you do not want to uninstall the Version Control Repository Manager, click **No** to cancel. The **Reboot Required** dialog box is displayed indicating that a reboot is required to remove files that are currently in use by Windows.
6. Click **OK**. You must manually reboot the machine to complete the uninstall process.

**Note:** After an uninstall, reboot the system before reinstalling the Version Control Repository Manager.

**Note:** The designated repository directory is not deleted during uninstallation. The directory must be manually deleted.

---

# Glossary

available software	A listing of the software components available in the repository that the Version Control Agent has been configured to point to. When browsing directly into a Version Control Agent, these additional components can be selected for installation.
component	A component is a single, self-describing, installable (interactive or silent) binary file containing a single piece of software, such as firmware image, driver, agent, or utility, that is supported by the management and update tools.
Custom Software Baseline	A set of HP software components that have been bundled together as a baseline by the customer. Modifying the contents of an existing Support Pack provides customers with the flexibility to define their own baselines for their environment.
graphical user interface (GUI)	A program interface that takes advantage of the computer's graphics capabilities to make the program easier to use. HP Systems Insight Manager's GUI is Web-enabled and displays in a Web browser.
HP Systems Insight Manager	<p>System management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables.</p> <p>HP Systems Insight Manager combines the strengths of HP Insight Manager 7, HP Tootools, and HP Servicecontrol Manager to deliver a single tool for managing HP ProLiant, Integrity, and HP 9000 systems running Windows, Linux, and HP-UX. The core HP Systems Insight Manager software delivers the essential capabilities required to manage all HP server platforms. HP Systems Insight Manager can also be extended to deliver unparalleled breadth of system management with plug-ins for HP storage, power, client, and printer products. Plug-ins for rapid deployment, performance management, and workload management enable systems administrators to pick the value added software required to deliver complete lifecycle management of their hardware assets.</p>
HP Web-enabled System Management Software	Software that manages HP web-enabled products.
HP Insight Management Agent	A program that regularly gathers information or performs some other service without the user's immediate presence.
HP Version Control Agent	An Insight Management Agent that is installed on a server to enable the customer to see the HP software that is installed on that server. The Version Control Agent can be configured to point to a repository being managed by the Version Control Repository Manager, enabling easy version comparison and software deployment from the repository to the server that the Version Control Agent is installed upon.



HP Version Control Repository Manager	An Insight Management Agent that enables a customer to manage software from HP that is stored in a directory/repository known as the Version Control Repository.
installed version	A particular HP software component that is installed on the server the Version Control Agent is installed on.
latest version	The latest version of a particular HP software component that is contained in the repository.
overall software status	This section indicates whether the software on the server that the Version Control Agent is installed on has any updates available within the repository in which it has been configured to monitor.
Support Pack	A Support Pack, Integrity Support Pack, or Custom Software Baseline is a set of HP software components that have been bundled together by HP, and verified to work with a particular operating system. A Support Pack contains driver components, agent components, and application and utility components. All of these are verified to install together.
Reference Support Pack	A baseline bundle of HP software components that the Version Control Agent can be configured to point to in the repository. This setting enables users to indicate that they want to keep all of their software up to a certain Support Pack level.
repository	A directory containing Support Pack and Smart Components.
Red Hat Package Manager (RPM)	The Red Hat Package Manager is a powerful package manager that can be used to build, install, query, verify, update, and uninstall individual software packages. A package consists of an archive of files and package information, including name, version, and description.
Replicate Agent Settings	A tool that can be used to copy Web-based agent settings to a group of systems.
Secure Task Execution (STE)	Secure execution of a task from a managed system. This feature of HP Systems Insight Manager ensures that the user requesting the task has the appropriate rights to perform the task, and encrypts the request to protect data from snooping.
Simple Network Management Protocol (SNMP)	One of the management protocols supported by HP Systems Insight Manager. Traditional management protocol used extensively by networking systems and most servers. MIB-2 is the standard information available consistently across all vendors.
single login	Permission granted to an authenticated user browsing to HP Systems Insight Manager to browse to any of the managed systems from within HP Systems Insight Manager without re-authenticating to the managed system. HP Systems Insight Manager is the initial point of authentication and browsing to another managed system must be from within HP Systems Insight Manager.

software inventory	A listing of the HP software installed on the system where the Version Control Agent is installed.
support pack version	A field that displays the version of a particular HP software component that is contained in the Reference Support Pack that the Version Control Agent has been configured to use as a baseline. There may be a later version than this available in the repository, but this is the latest version of this particular component in the Reference Support Pack.
System Management Homepage	An integrated piece of software used by the HP suite of HP Web-enabled System Management Software to communicate over HTTP and HTTPS. It provides a uniform set of functionality and security to HP Web-enabled System Management Software.
version control	<p>A feature that checks the versions of HP operating system drivers, HP Systems Insight Manager Agents, HP utilities, and firmware on the user's system. It compares them with the Version Control Database (VCDB) of current software and firmware versions. Version Control then indicates that the software is up-to-date or that an upgrade is available, and provides reasons for upgrading.</p> <p>Version information appears as a system link for a system.</p>
Version Control Agent log	A listing of all the software maintenance tasks completed by the Version Control Agent and reports resulting from those tasks.

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