

Introduction

SmartStart optimizes single-server setup, providing a simple way to deploy reliable and consistent server configurations. SmartStart assists the server deployment process by preparing the system for installing "off-the-shelf" versions of leading operating system software. SmartStart is included in the ProLiant Essentials Foundation Pack, which also includes the Management CD. The Foundation Pack ships standard with ProLiant ML and DL 300, 500 and 700 Servers, and also supports all the ProLiant BL Servers.

ProLiant Software Maintenance Subscription Purchase Information

Keep up-to-date with the latest software for your ProLiant servers by purchasing one of the following options:

ProLiant Software Maintenance Subscription	355060-B21
● Includes 4 releases of CD media of SmartStart, Management, and Firmware Maintenance	
ProLiant Software Maintenance Single Release	356573-B21
● Includes the current release of the following CDs: SmartStart, Management, Software Maintenance, Firmware Maintenance	
ProLiant Foundation Pack Single Release	356604-B21
● Includes the current release of the SmartStart and Management CD	

SmartStart Website

Visit the SmartStart Web site for the latest information about SmartStart and other related software. The SmartStart Web site includes the following and more:

- What's New information
- Subscription purchase information
- Support Information
- Server and OS Support Matrices
- Links to the latest ProLiant Software and Driver download pages
- New - downloadable images of SmartStart, Management and Firmware Maintenance CDs

Visit us at <http://www.hp.com/servers/SmartStart>.

Benefits

- **Integral part of the HP server experience:** SmartStart is part of the ProLiant Essentials Foundation Pack, delivered standard with ProLiant ML and DL 300, 500 and 700 servers. The ProLiant Essentials Foundation Pack provides convenient access to the suite of Intelligent Manageability products. The Foundation Pack provides essential management tools designed to simplify IT management in a dynamic and demanding 7x24x365 environment.
- **Reliable configuration:** By assisting with operating system installations, integrating server support software, and preventing configuration errors, SmartStart ensures consistency, and maximizes reliability and system uptime. SmartStart leverages embedded system utilities that provide either customized configuration or intelligent defaults for server hardware and array controller configuration.
- **Optimized configuration:** SmartStart integrates optimized ProLiant drivers with every assisted OS installation to achieve the maximum performance for your ProLiant server.
- **Manageable-ready system:** SmartStart completes your ProLiant server setup with installation of management agents, ready to be managed with HP Systems Insight Manager.

Overview

SmartStart

SmartStart is an essential single-server deployment tool that simplifies ProLiant server setup, providing a repeatable way to deploy reliable and consistent single server configurations. SmartStart uses embedded ROM-based setup utilities (RBSU) to configure server and array controller hardware. SmartStart assists with the OS installation process by preparing the system for installing "off-the-shelf" versions of leading operating system software and automatically integrating optimized ProLiant server support software drivers, utilities and management agents, known as ProLiant Support Packs.

- SmartStart provides an easy-to-use, intuitive graphical interface that guides you through preparing your system for the OS installation process.
- SmartStart integrates key server software drivers and management agents through ProLiant Support Packs with every assisted installation.
- SmartStart performs dependency and validity checks to ensure that all supported ProLiant software can be installed.

ProLiant Support Pack

The ProLiant Support Pack (PSP) is an integral component for optimizing and managing your ProLiant server. PSPs help you maintain the software versions on your ProLiant servers. PSPs are operating system specific bundles of ProLiant optimized drivers, utilities, and management agents for Windows® 2000, Windows Server 2003, Novell NetWare, and Linux. These bundles of software are tested and released concurrently with HP's SmartStart CD to insure proper installation and functionality. PSPs can be installed in a variety of ways:

- Using SmartStart assisted installation process (PSPs are installed automatically)
- Launching the installation from the Windows and Linux autoruns on the SmartStart CD
- Using the deployment utilities that are provided with the PSPs when downloaded from <http://www.hp.com> or the SmartStart CD

For details view the HP ProLiant Support Pack and Deployment Utilities User Guide.

Server Setup

SmartStart uses ROM-based setup utilities (RBSU) to perform server and array hardware configuration. A complete list of ROM-based systems are available at <http://www.hp.com/servers/smartstart/supportmatrices>. For legacy, non-RBSU server systems use SmartStart 5.5 to perform server deployment. SmartStart 5.5 is available for purchase at: <http://www.hp.com/servers/smartstart>.

Assisted OS Installation

For RBSU systems

To optimize the performance of your hardware platform, use the SmartStart assisted installation to help you prepare your system for the operating system installation process. Using an assisted installation, SmartStart enables you to install the operating system using the vendor-supplied CDs, and provides automated installation of server support software using ProLiant Support Packs (PSPs).

1. Configure server and array controller hardware using RBSU: choose the intelligent defaults from RBSU or launch the array configuration utility by booting the SmartStart CD for more- in-depth configuration of the array controller.
2. Boot the SmartStart CD to validate the hardware configuration and answer interview questions to prepare your server for OS installation.
3. Insert the OS CD to complete the OS installation and automatic installation of the ProLiant Support Pack.

For non-RBSU systems

Use SmartStart 5.5 to complete the server deployment and then apply the latest PSP from the SmartStart CD by launching the Windows or Linux Autorun. (See Software Updates below for more details.)

SmartStart 5.5 supports the following operating systems for an assisted installation: Microsoft® Windows 2000, Microsoft Windows NT® 4.0, Novell NetWare 4.2, 5.1 and 6.0. SmartStart 5.5 supports the following operating systems for a replicated installation: Microsoft Windows 2000 and Microsoft Windows NT 4.0. For server support for SmartStart 5.5, visit the Server Support Matrix available on the SmartStart web page at <http://www.hp.com/servers/smartstart/supportmatrices>.

Overview

Manual OS Installation For RBSU-systems

Use RBSU to configure your server hardware before completing the OS installation. Create driver diskettes from the SmartStart CD autorun, to obtain the latest storage boot controller drivers, for use during your OS installation.

1. Configure server and array controller hardware using RBSU: choose the intelligent defaults from RBSU or launch the array configuration utility by booting the SmartStart CD for more- in-depth configuration of the array controller.
2. Boot the OS CD and follow the instructions to complete the OS installation. If applicable, provide the driver diskette to ensure the latest storage controller driver is installed during the OS installation.
3. Apply the latest PSP obtained from the SmartStart CD by launching the Windows or Linux Autorun or by downloading the latest PSP from <http://www.hp.com/go/support>. (See Software Updates below for more details.)

For non-RBSU-systems

1. Boot the SmartStart 5.5 CD to perform hardware configuration and preparation of system for OS installation. Select Assisted, Manual, or Replication installation for the type of installation you need.
2. Insert the OS CD to complete the OS installation.
3. Apply the latest PSP from the latest SmartStart CD or ProLiant Software Maintenance CD by launching the Autorun either from a Windows or a Linux system or by downloading the latest PSP from <http://www.hp.com/go/support>. (See Software Updates below for more details.)

Software Updates

Autorun Features: The Autorun feature of the SmartStart CD, ProLiant Software Maintenance and ProLiant Firmware Maintenance CDs are now available for the Windows and Linux Environment. The Autoruns provide access to support software and other information about content on the CD.

- To launch the autorun on a Windows system, either insert the CD in a CD-ROM drive and the Autorun will automatically launch, or launch by executing the "autorun" file from the root of the CD.
- To launch the autorun on a Linux system, insert the CD in a CD-ROM drive, log on to the root and mount the CD and run the setup.sh file.

Software Updates

Obtain the latest PSPs and other ProLiant server software from the Software and Drivers download pages at <http://www.hp.com/go/support> or from the SmartStart CD available as a download from the SmartStart Web site at <http://www.hp.com/servers/smartstart>.

Firmware Updates

Updating your firmware can be performed using the various offline (non-OS session) and online (while running in an OS session) methods:

- ROM Update Utility: Provides customized options for updating selected system, option and hard drive firmware in offline mode. To perform firmware updates, access this utility by booting the ProLiant Firmware Maintenance CD.
- ROMPaqs: Floppy-based method for performing firmware updates for selected ProLiant servers and options in an offline mode.
- Online ROM Flash Components: Online method for Windows and Linux systems for performing firmware updates for selected ProLiant servers and options.
Obtain the latest ProLiant firmware from the following locations:
 - The ProLiant Firmware Maintenance CD is available as a downloadable image from the SmartStart Web site
 - The [Software and Drivers](#) download pages from HP.COM are available as a link from the SmartStart Web site.
 - The ROM-BIOS web pages at <http://h18023.www1.hp.com/support/files/server/us/romflash.html>.

Get Proactive Notification of Upcoming Software with Subscriber's Choice

Proactive delivery of Product Change Notifications (PCNs), Customer Advisories (CAs), and software driver alerts are delivered through Subscriber's Choice. We encourage you to begin taking advantage of the feature-rich notifications delivered from HP's Subscriber's Choice at <http://www.hp.com/go/subscriberschoice>.

Overview

Systems Maintenance

Perform Server

Maintenance by

booting the SmartStart CD and launching these utilities

Insight Diagnostics - performs tests on system components. Insight Diagnostics displays information about a server's hardware and software configuration. You can perform hardware and software tests on the following subsystems: Processor, Input devices, Communication ports and devices, Storage devices, Graphics, Memory, Multimedia devices.

Array Configuration Utility (ACU) - enables you to configure newly added array controllers and associated storage devices. It is a web-based tool that has a configuration wizard that allows you to configure your array controller, add additional disk drives to an existing configuration or reconfigure your existing disk drive array.

Array Diagnostics Utility (ADU) - performs device tests on HP array controller hardware

Erase Utility - provides options to clean different areas of the system: attached drives, non-attached drives, BIOS, and non-volatile RAM (NVRAM)

Perform Server

Maintenance through ROM-based embedded utilities

- The ROM-Based Setup Utility (RBSU) performs a wide variety of server configuration activities: viewing system information, selecting the operating system (OS) to prepare the system for installation of the OS, configuring system devices and installed options and selecting the primary boot controller. RBSU is accessible by pressing F9 key after the system has booted.
- The Option-ROM Configuration for Arrays utility (ORCA) is a utility that allows users to configure HP array controllers. ORCA is accessible by pressing F8 key after the system has booted. It allows the user to create and delete logical drives, set interrupts, and set boot controller order.
- The enhanced auto-configuration process will automatically configure the system for a default OS and RAID selection without the user having to launch RBSU and ORCA. The OS default is Windows 2000/Windows Server 2003. The RAID defaults are based on the following number of drives: 1 drive - RAID 0, 2 drives - RAID 1, 3-6 drives - RAID 5. The user always has the option of configuring the server through RBSU and ORCA.
- Dynamic Setup Support enables the Operating System to automatically find necessary boot drivers on the Virtual Install Disk, to complete the OS installation without user intervention. This feature is only supported for Windows Server 2003.
- Selected set of system Diagnostics and Inspect utilities is available by pressing F10 key after the system has booted. F10 launches the System Maintenance Utilities.

Service and Support

HP offers a complete choice of services to ensure the success of your ProLiant Server deployment program. For more information on any of these below, go to <http://www.hp.com/servers/smartstart>.

- **Warranty** - HP will replace defective delivery media for a period of one year (12 months) following the date of purchase of your server.
- **Startup technical software support** - Available for no additional charge by calling HP Support up to 90 days from the date of purchase of your server. Phone support is available to assist customers with installation and set-up and standard usage questions. Worldwide numbers for HP Support are available at http://www.hp.com/hps/carepack/services/cp_sw_technical.html.
- **Software Technical Support Services** - provide easy access to experts for questions regarding use of the SmartStart after the 90-day period. This is also a way to secure extended coverage hours and committed response times (1 or 2 hours) from day one. These HP Care Pack service offerings are available in easy to purchase and convenient to use 5, 10 and 25 incident packages.
- **SmartStart Support Forum** - The HP Support Forum is a community based, user supported tool for HP customers to participate in discussions amongst the customer community about HP products
- **Software and Drivers download pages** - provides latest software and drivers for your ProLiant products.

Operating System and ProLiant Server Support

OS Support

The following released operating systems are supported by SmartStart for an assisted installation and for ProLiant Support Packs

- Microsoft Windows NT 4.0
- Microsoft Windows 2000 and 2000 SBS
- Microsoft Windows Server 2003, Standard, Enterprise and Small Business Edition
- Novell NetWare 5.1 and 5.1 SBS
- Novell NetWare 6.0 and 6.0 SBS
- Novell NetWare 6.5
- Red Hat Professional 8.0, Red Hat Enterprise Linux 2.1 and 3, SuSE Linux Enterprise 7, UnitedLinux 1.0 (for ProLiant Support Packs only)

For an up-to-date list of ProLiant supported operating systems please view the following URL:

<ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>

Server Support

For Server Deployment: Use SmartStart 7.x and later for assisted installation and server maintenance operations on ProLiant BL20PG2, BL40P, ML/DL 300, 500, and 700 RBSU-based systems. Use SmartStart 5.5 for configuring and installing operating systems on pre-RBSU systems.

For Software and Firmware Updates: Access the latest software and drivers from either <http://www.hp.com/go/support>, the ProLiant Software Maintenance CD, and the ProLiant Firmware Maintenance CD. Download the latest HP Systems Insight Manager from <http://www.hp.com/go/hpsim>.

For an up to date list of supported ProLiant servers please view the following URL:

<http://www.hp.com/servers/smartstart/supportmatrices>.

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