

Novell Novell BorderManager 3.7

3.7

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QUICK START

Installing Novell BorderManager

This section provides instructions for installing the Novell® BorderManager® 3.7 (NBM 3.7) software.

SYSTEM REQUIREMENTS

Novell® BorderManager® 3.7 is installed on a NetWare® server and is administered using NetWare Administrator from a client Windows* 98, Windows* 2000, Windows* NT, Windows* XP or Windows* ME workstation. Review the following requirements to ensure that your server and client environments meet the installation prerequisites.

Server Requirements

For Installing on NetWare 5.1 SP4

Server Hardware	Server Software
PC with a Pentium* or later processor	NetWare 5.1 Support Pack 4
Minimum of 256 MB of RAM for NBM 3.7	Note: For NetWare 5.1 MLA servers, you must have a server-based license on the target server.
Additional 512 MB RAM for SurfControl	
Minimum of 160 MB of disk space, with an additional 40 MB available during installation	Run INETCFG once and transfer the commands from AUTOEXEC.NCF
500 MB of disk space to support caching services	Installation server and all servers holding a copy of the Partition where the NBM 3.7 Server object resides should be NDS 8 or greater (which includes eDirectory™ 8.5, eDirectory 8.6, and eDirectory 8.7)
SVGA or higher-resolution monitor recommended.	
PS/2* mouse (recommended) to support the Java* interface	Novell Licensing Service (NLS) Kit (installed automatically with NetWare 5.1)
CD-ROM drive that can read ISO 9660 formatted disks	

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For Installing on NetWare 6.0 Support Pack 1

Server Hardware	Server Software
PC with a Pentium II or higher processor	NetWare 6.0 SP 1 or later
Minimum of 256 MB of RAM for NBM 3.7	Installation server and all servers holding a copy of the Partition where the NBM 3.7
Additional 512 MB RAM for SurfControl	Server object resides should be NDS 8 or greater (which includes eDirectory 8.5, eDirectory 8.6, and eDirectory 8.7)
Minimum of 160 MB of disk space, with an additional 40 MB available during installation	
500 MB of disk space to support Proxy Services	Novell Licensing Service (NLS) Kit
CD-ROM drive that can read ISO 9660 formatted disks	TCP/IP network interface bound and configured
	Run INETCFG once and transfer the commands from AUTOEXEC.NCF

NOTE: Because Novell BorderManager 3.7 is a Novell Licensing Services (NLS) enabled application, the first Novell BorderManager 3.7 server installed into a tree or partition must be installed on a NetWare server that holds an eDirectory read/write replica of that partition. All Novell BorderManager 3.7 servers installed into the same partition at a later time are not required to have a read/write replica.

CLIENT REQUIREMENTS

Client Hardware	Client Software
Windows 98, 2000, NT, XP or ME	Windows 98, 200, NT, XP or ME
Minimum of 28 MB of free disk space	Netscape* Navigator* 4.7 or later
Minimum of 32 MB of RAM	Microsoft* Internet Explorer 5.5 or later.

END USER LICENSE AGREEMENT (EULA)

Before installing Novell BorderManager 3.7 you need to go through the End User License Agreement (EULA). The EULA in the either of following languages English, Portugese, French, Italian, German, Spanish, Japanese, Czech, Polish and Dutch is present in the relevent language folder under root of the CD > \LICENSE.

UPGRADING

Novell BorderManager 3.7 can be installed as an upgrade to BorderManager 3.5 and BorderManager Enterprise Edition 3.6. Novell BorderManager 3.7 installation will preserve the existing server configuration. The upgrade will do a file copy of the basic configuration, extend the schemas and migrate the filters. After install a migrate should be done.

DOCUMENTING YOUR ENVIRONMENT

Review this list of items and record information as required to complete the installation:

- Location of license diskettes or path to the license file
- Server IP address
- Public and private interfaces and their IP address bindings
- Domain Name System (DNS) domain name
- IP addresses for up to three DNS name servers on the network

INSTALLING NOVELL BORDERMANAGER 3.7 ON A NETWARE 5.1 SP 4 OR 6.0 SP 1 SERVER

To install Novell BorderManager 3.7 on the server:

- 1 If you do not have above mentioned NetWare OS, install the NetWare 5.1 Support Pack 4 or NetWare 6.0 Support Pack 1 or later software on your server.
- 2 Mount NBM 3.7 CD from server by typing CDRON on server console.
- 3 On the server side, go to X-Server Graphical Console. If X-Server Graphical Console is not loaded, type **STARTX** on server console.

If STARTX was already loaded, press Cntrl-Esc and select the X-Server Graphical Console.

Installation of Novell BorderManager 3.7 from NWCONFIG is disabled. Install can be done only from the X-Server graphical console.

- 4 Click the Novell logo, then select Install to display the currently installed products.
- 5 Click Add > browse to the root of the CD and click OK.
- 6 On the Welcome page > Next.
- 7 Read the license agreement. If you accept the terms of the agreement, click I Accept.
- 8 Check the check box for each BorderManager service you want to install.

NOTE: Irrespective of what BorderManager services you select, licenses for all the services will be installed.

- 9 To install the license now, insert the Novell BorderManager 3.7 License diskette and enter the path to the license (for example A:\LICENSE) and click Next. Otherwise, check the Skip License Install check box and click Next so that it can be installed later.

Valid licenses are located on the diskette in the A:\LICENSE directory. Trial licenses are located on the CD-ROM in the SAMPLE LICENSE directory. You can install the system files without installing the license; however, Novell BorderManager 3.7 will not load until a valid or trial license is installed.

- 10 At the login dialog, log in to the eDirectory tree with a fully distinguished name (with administrative rights).

You must have administrative rights to the root of the eDirectory tree. This requirement applies to any user who is a trustee with Supervisor rights at a container at the same level as the server. Administrative rights are required to extend the eDirectory schema, install product licenses, and configure Novell BorderManager 3.7 for the first time.

If you are installing BorderManager firewall/caching services or BorderManager VPN services, review the list of network interfaces and their IP bindings. Specify each interface as public, private, or both.

- 11 For both firewall/caching and VPN services, you must specify a public IP address to use with BorderManager to secure your network border. Public IP addresses specify server interfaces to a public network, typically the Internet. Private IP addresses specify server interfaces to a private network or intranet.

11a Specify a public IP address.

Specifying an interface as public makes the Set Filters to Secure All Public Interfaces check box available. Check this check box to deny all traffic from into and out of the public interfaces. If this is an upgrade, existing filters are preserved and deny all filters are not set on public interfaces.

11b Specify a private IP address.

11c Enter the default gateway and if the gateway field is empty add a default gateway before proceeding with install.

11d Click Next.

If you have not specified a private IP Address go to [Step 14 on page 4](#), else go to [Step 12 on page 4](#).

- 12 Check the check boxes for the services that you want to enable. Filter exceptions for these services will be created on the public interface. Click Next.

The Mail and News Services would have to be manually configured.

NOTE: If there is only one interface and that is a public filter, exceptions will not be created.

- 13 The check box for Access Control is enabled by default. We recommend that you accept the default. Access control enforces additional security by denying all traffic. Access control rules can be set using the NetWare® Administrator utility. Access rules are used to allow or deny access from any source or to any destination. This option comes up only if you select Any Services on the previous screen.

14 Enter a unique DNS domain name for your network > click Next.

15 Click Add to enter at least one or up to three DNS server IP addresses.

By default the existing DNS entry would be taken.

16 Click Finish if you are done or click Back to return to previous windows and modify your selections.

17 Do one of the following:

- ◆ Click Readme to view the Readme file.
- ◆ Click Reboot for Novell BorderManager 3.7 services to come up.
- ◆ Click Close to complete the installation and return to the GUI screen.

18 After rebooting make sure that FILTSRV.NLM is not loaded. If it is loaded, unload it. If it fails to unload, unload IPFILTER.NLM and FILTER.NLM and then unload FILTSRV.NLM.

19 Enter **FILTSRV MIGRATE** on the console prompt to migrate existing filters to eDirectory.

20 Unload FILTSRV and load it in normal mode (Enter **FILTSRV** on the console prompt).

NOTE: In case of a web download of the trial version:

Restart your server at the console prompt by entering

server

From the client side, map the server on which you wish to install the Novell BorderManager 3.7 product and revert to [Step 3 on page 5](#).

INSTALLING THE NOVELL CLIENT SOFTWARE

The Novell Client™ software provides access to Novell BorderManager from Windows 98, 2000, NT, XP and ME workstations. For administrative workstations you should have the Novell Client but for VPN Client having the Novell Client is optional. If the Novell Client is to be installed, the version should be Novell Client 2.2 or later. Also, to support the Novell IP Gateway, you must install the Novell IP Gateway client component on all client workstations.

The Novell Client setup utility installs the Novell Client software and the Novell IP Gateway client component. When you use this utility, you can select the client you want to install from a list of available clients.

To install the Novell Client software:

- 1 Insert the Novell Client CD into the CD drive.

If the Novell Client setup utility does not start automatically, run WINSETUP.EXE from the Products directory.

- 2 Click a language for the installation > click the Windows client platform you want to install > click Install Novell Client.

- 3 Select Typical or Custom installation > click Next.

If the client requires Novell IP Gateway access, you must select Custom.

- 4 If you selected Custom, complete the following substeps:

- 4a Check the Novell IP Gateway check box > click Next.
 - 4b Select the protocol that the client will use.
 - 4c Click Next and follow the on-screen instructions until you click Finish.
- 5 When prompted, restart your workstation.

INSTALLING NETWARE ADMINISTRATOR SNAP-IN MODULES

NetWare Administrator snap-in modules allow you to enable, configure, and manage Novell BorderManager 3.7 components, such as Proxy Services, the Novell IP Gateway, VPN, BorderManager Authentication Services, and access control.

The Novell Clinet version 4.8 or later is required for Windows NT, 2000 and XP. Novell Client version 3.3 or later is required for Windows 98 and ME.

The Novell BorderManager 3.7 installation utility installs the 32-bit client NetWare Administrator snap-in modules on the server. You may administer your BorderManager servers by running NWADMN32.EXE from the server's SYS:\PUBLIC\WIN32 directory.

If you prefer to manage your Novell BorderManager 3.7 servers and other eDirectory objects from a single, centralized administrative console, you must install the NetWare Administrator snap-in modules to the desired NetWare Administrator workstation deployed in your network.

To install the snap-in modules:

- 1 Launch the version of NetWare Administrator to which you want to install the snap-in modules, verify that it is working properly, then exit the utility.
- 2 From your administrator workstation, map a drive to the SYS: volume of the Novell BorderManager 3.7 server and launch the Novell BorderManager 3.7 Setup program (SETUP.EXE).

The Novell BorderManager 3.7 SETUP.EXE program is located on the server in the path SYS:\PUBLIC\BRDRMGR\SNAPINS.

- 3 Follow the instructions provided by the installation wizard.

During the snap-in module installation, you are prompted for the location of your administrator files. Usually, administrator files are located on SYS: volume of the server in the \PUBLIC\WIN32, \PUBLIC\WIN95, or \PUBLIC\WINNT directories. If you want to install the Novell BorderManager 3.7 snap-in modules into a centralized NetWare Administrator 32 location, specify the directory where your centralized NWADMN32.EXE resides (for example, SYS:\PUBLIC\WIN32).

- 4 After the snap-in modules are installed, exit the installation wizard.