

# Novell Modular Authentication Service (NMAS)

2.2

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QUICK START

## Installing

Novell Modular Authentication Service (NMAS™) is designed to help you protect information on your network. NMAS brings together additional methods of authenticating to Novell® eDirectory™ to help ensure that the people accessing your network resources are who they say they are. Also, you can grant or restrict access to network resources based on how a user authenticates to Novell eDirectory.

### OVERVIEW

The NMAS installation adds a set of containers, objects, and attributes to the eDirectory tree to support NMAS. NMAS software is comprised of server software and client software. The server software is installed on NetWare® 5.1 or later, Windows 2000\*, Windows NT\* 4.0, Linux, AIX, or Solaris servers. The client software is installed on Windows client workstations. eDirectory must be installed. See “[Minimum Requirements](#)” on [page 2](#) for more details.

The NMAS server software is installed from a Windows client workstation for Windows 2000/NT and NetWare, and from the server console for UNIX. You must have administrator rights to the Security container at the [Root] of the eDirectory tree for the first installation of NMAS server.

The NMAS client software must be installed on each client workstation where you want to use the NMAS login methods. If you are not using the latest version of the Novell Client™ software, you will be prompted to upgrade your software. The latest Novell Client software is available for download from the [Novell Web site \(http://www.novell.com/download\)](http://www.novell.com/download). The Novell Client for Windows NT/2000/XP version 4.9 or later has the NMAS client integrated into it. If you are running this client, you do not need to install the NMAS client software.

You can only install one set of components during an installation session. For example, if you choose to install the client components the first time you run the install, you must run the installation program a second time to install the server components.

You must also install ConsoleOne™ 1.3.6 or later on the NMAS server or on a workstation. ConsoleOne is available for download from the [Novell Web site \(http://www.novell.com/download\)](http://www.novell.com/download).

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## MINIMUM REQUIREMENTS

### Server Requirements

Before you begin the installation, make sure that your environment meets all of the listed prerequisites.

**IMPORTANT:** This product will not install on NetWare 5.0 or on an eDirectory version earlier than 8.6.2.

#### NetWare 5.1, 6.0, or 6.5

- ♦ NetWare 5.1 with Support Pack 2 or later installed.
- ♦ Novell eDirectory 8.6.2 or later.
- ♦ NetWare Server NCI 2.6 or later must be installed on the server prior to installing NMA 2.2 server components. NetWare Server NCI 2.6 is included with this product and is located in the NCI\NWSERVER directory.

#### Windows NT or 2000

- ♦ Windows NT server 4.0 with Service Pack 6a or later, or Windows 2000 Server with Service Pack 2 or later.
- ♦ Novell eDirectory 8.6.2 or later.

#### AIX

- ♦ AIX 5.0 or later.
- ♦ Novell eDirectory 8.7 or later.
- ♦ NCI 2.6.

#### Linux

- ♦ Novell eDirectory 8.7 or later.
- ♦ NCI 2.6.

#### Solaris

- ♦ Novell eDirectory 8.7 or later.
- ♦ NCI 2.6.

### NMA Client Workstation Requirements

- ♦ Windows 98 SE, Windows NT 4 with Service Pack 6a or later, Windows 2000 Professional, or Windows XP.
- ♦ Novell Client for Windows 95/98 version 3.4 or later, or Novell Client for NT/2000/XP 4.9 or later installed. You can download these clients from the [Novell Web site \(http://www.novell.com/download\)](http://www.novell.com/download).

- ♦ Windows NCI 2.6 or later.

If you run ConsoleOne from Windows 98, NT, 2000, or XP, you will need Client NCI 2.6 or later. Client NCI 2.6 is included with this product in the NCI\WINCLIENT directory.

- ♦ ConsoleOne 1.3.6 or later. ConsoleOne 1.3.6 or later can be downloaded from the [Novell Web site \(http://www.novell.com/download\)](http://www.novell.com/download).

## INSTALLING NMAS SERVER SOFTWARE

### Server Installation for NetWare and Windows Servers

**IMPORTANT:** You cannot remotely install the server components to a Windows NT or 2000 server.

- 1 From a Windows client machine, log in as the administrator to the server that you want to install the server components to.
- 2 Insert the NMAS software image.

**NOTE:** If you receive an error message stating that you need to update the Novell Client software, install the latest Novell Client software and reboot your machine.

For more Novell Client information, refer to the [Novell Client documentation Web site \(http://www.novell.com/documentation/lg/noclienu/docui/index.html\)](http://www.novell.com/documentation/lg/noclienu/docui/index.html).

Also, you may be prompted to upgrade to eDirectory 8.6.2 or later. If so, upgrade the eDirectory software.

- 3 From the root of the NMAS software image, run NMASINSTALL.EXE.
- 4 Check the box next to NMAS Server Components.
- 5 Click OK > follow the on-screen instructions.

**IMPORTANT:** If you receive the error message "You have a newer version of file gams.msg, masv.msg, gamswrap.dll, and nmaswrap.dll on your computer. Do you want to replace the existing file with ... ?" select No so that the files are not replaced.

- 6 Reboot the server upon completion.

### Server Installation for Linux/AIX/Solaris servers

- 1 Log in as root to the server where you want to install the server components.
- 2 Insert the Novell eDirectory CD.
- 3 Go to the Solaris/Linux directory, as required.
- 4 Enter the following command:

```
nds-install
```

- 5 When prompted, accept the license agreement.

The installation program displays a list of eDirectory components that you can install.

- 6 Select Novell Modular Authentication Service (NMAS) as one of the components to be installed.

**NOTE:** Make sure that you select Novell eDirectory 8.7 server components or have already upgraded to Novell eDirectory 8.7 server.

- 7 Enter the following command:

```
ndsconfig
```

This configures the NDS objects in the eDirectory tree.

- 8 Configure NMAS using the NMASInst utility.

**NOTE:** You must configure eDirectory with ndsconfig before you configure NMAS. You must also have administrative rights to the tree.

To configure NMAS and create the NMAS objects in eDirectory, enter the following at the server console command line:

```
nmasinst -i <admin.context> <treename> [-h hostname[:port]]
```

- ♦ <admin.context> - The admin name and context.
- ♦ <treename> - The name of the eDirectory tree that you are installing NMAS into.
- ♦ [-h hostname[:port]] - (Optional) The hostname and port of the server if it is a different server.

Nmasinst will prompt for the user's password. This will create the objects in the Security container that NMAS needs, and install the LDAP extensions for NMAS on the LDAP Server object in eDirectory.

The first time NMAS is installed in a tree, it must be installed by a user with enough rights to create objects in the Security container. However, subsequent installs can be done by container admins with read-only rights to the Security container. Nmasinst will verify that the NMAS objects exist in the Security container before it tries to create them.

Nmasinst does not extend the schema. The NMAS schema is installed as part of the base eDirectory schema.

## INSTALLING NMAS CLIENT SOFTWARE

The following points are important to know before you install the NMAS Client software:

- ♦ If you receive an error message that you need to update the Novell Client software, install the latest Novell Client software and reboot your machine.

For more Novell Client information, refer to the [Novell Client documentation Web site](http://www.novell.com/documentation/lg/noclienu/docui/index.html) (<http://www.novell.com/documentation/lg/noclienu/docui/index.html>).

- ♦ If Client 32 is installed after the NMAS client, you will not have an NMAS tab on the Client 32 login screen.
- ♦ Remove all client methods when you uninstall the NMAS client. If you attempt to use “left-over” methods when the client has been uninstalled and reinstalled, you will receive the error “Selected Method not installed”.

### Client Installation Procedures

- 1 From a Windows client workstation, open the NMAS software image.
- 2 From the root of the software image, run NMASSNAPIN.EXE.
- 3 Check the check box next to NMAS Client Components. Optionally, you can check the check box next to NICI if you need to install these components.

If you are running the Novell Client for Windows NT/2000/XP, the NMAS Client and client NICI is already installed on your workstation.

- 4 Click OK. Follow the on-screen instructions.
- 5 Reboot the client workstation upon completion.

**IMPORTANT:** The NMAS client software must be installed on each client workstation where you want to use the NMAS login methods.

### INSTALLING THE NMAS SNAP-INS USING NMASSNAPIN.EXE

NMASSNAPIN.EXE is provided as a means to manually install the NMAS ConsoleOne snap-ins to either a workstation or a server. This self-extracting executable file is in the CONSOLEONE directory of the software image.

To install the NMAS snap-ins for ConsoleOne, run NMASSNAPIN.EXE. Select a directory for the snap-ins.

By default, the installation program installs ConsoleOne files to C:\NOVELL\CONSOLEONE\1.2.

### NEXT STEPS

- ♦ To set up login methods and sequences on NetWare and Windows, see the *Novell Modular Authentication Service Administration Guide* (NMASSNAPIN.PDF) Chapter 2, “Setting Up Login and Post-Login Methods and Sequences” located in the NMAS software image or on the [Novell Documentation Web site \(http://www.novell.com/documentation\)](http://www.novell.com/documentation) under the NMAS section.
- ♦ To set up graded authentication, see the *Novell Modular Authentication Service Administration Guide* (NMASSNAPIN.PDF) Chapter 3, “Using Graded Authentication” located in the NMAS software image or on the [Novell Documentation Web site \(http://www.novell.com/documentation\)](http://www.novell.com/documentation) under the NMAS section.

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