Novell
NetWare® 6.5

NLM REFERENCE FOR NETWARE 6.5

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Contents

About This Guide

This guide contains a list of NetWare Loadable Modules included in NetWare 6.5. The list includes all module names and descriptions of the module. For each NLM located in the sys:\system and c:\nwserver directories, more documentation is provided.

This guide is intended for network administrators and is divided into the following sections:

- Chapter 1, "Overview," on page 9
- Chapter 2, "NetWare Loadable Modules List," on page 11

Documentation Updates

For the most recent version of the *NLM Reference for NetWare 6.5*, see the NetWare 6.5 Documentation Web site (http://www.novell.com/documentation/lg/nw65).

Documentation Conventions

In this documentation, a greater-than symbol (>) is used to separate actions within a step and items within a cross-reference path.

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1 Overview

A NetWare Loadable Modules (NLM) is server utility software that enhances or provides additional functions in a NetWare 3.x or higher server. Examples are support for print server and database engines.

This section is a general introduction to NLMs and how to manage them.

Introduction to NLMs

Some NLM programs are loaded whenever you start the server, some are loaded by other NLM programs when they are needed, and some must be loaded manually.

When loaded, an NLM program is dynamically linked to the operating system and the NetWare server allocates a portion of memory to it.The amount of memory an NLM program uses depends on the task. Some tasks make calls that cause the operating system to allocate more memory. The NLM uses the memory to perform a task and then returns control of the memory to the operating system when the NLM is unloaded. When an NLM is unloaded, all allocated resources are returned to the operating system.

Most NLM programs included with NetWare are copied to sys:system during installation. As you acquire additional NLM programs, decide where you want to copy them. The operating system must be able to find the NLM programs when a load command is issued.

NLM programs can be copied to any of the following areas:

- sys:system directory
- Any network directory on the NetWare server
- A local drive of the NetWare server

There are many modules that must reside on the server startup partition (c:\nwserver) that are not needed for basic server operation. Some examples are Unicode modules and diagnostic and debugging utility modules. There are also modules in the nwserver directory that are used during the install or upgrade or migration process, but not during basic server operation.

For more information on NLMs, see [[[[link to server operating system administration guide]]].

Managing NLMs

NetWare Remote Manager lets you access a list of NLMs to view information about them and perform different operations with them.

To view a list of NLM programs and manage them, access the NetWare Loadable Module Information page by clicking the List Modules link in the navigation frame.

From the NetWare Loadable Module Information page, you can do the following:

- View a list of all the NLM programs that are loaded on the server or in an address space

- Load an NLM program on the server

- View the search path for loading modules or .NCF file

For more information on the List Module utility, see Monitoring Server Health in NetWare Remote Manager Administration Guide.

What's Next

For a list of every module in NetWare 6.5 with an .nlm extension, see Chapter 2, "NetWare Loadable Modules List," on page 11.

2 NetWare Loadable Modules List

The following tables contain a list of NetWare Loadable Modules (NLM) programs contained in NetWare 6.5. The tables are organized alphabetically.

0 to 100 and _a through _z , A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

0 to 100 and _a through _z

name	Description	Purpose
_adrot.nlm	NSN - Ad Rotator UCX Component	
_apc.nlm	NSN - Power Supply UCX Component	
_bind.nlm	NSN - Bindery UCX Component	
_browser.nlm	NSN - Browser capability UCX Component	
_btx.nlm	NSN - Btrieve UCX Component	
_cliskt.nlm	NSN - Client Socket UCX Component	
_comport.nlm	NSN - COM Port UCX Component	
_controt.nlm	NSN - Content Rotator UCX Component	
_counter.nlm	NSN - Counter UCX Component	
_dirctry.nlm	NSN - Directory UCX Component	
_doc.nlm	NSN - HTML Document UCX Component	
_dosfmgr.nlm	NSN - DOS File Manager UCX Component	
_env.nlm	NSN - Environment UCX Component	
_error.nlm	NSN - Error UCX Component	
_fax.nlm	NSN - FAX UCX Component	
_filesys.nlm	NSN - File System UCX Component	
_fio.nlm	NSN - File I/O UCX Component	

name	Description	Purpose
_ftpfmgr.nlm	NSN - FTP File Manager UCX Component	
_lptport.nlm	NSN - LPT Port UCX Component	
_myinfo.nlm	NSN - MyInfo UCX Component	
_nextlnk.nlm	NSN - Next Link UCX Component	
_nsni.nlm	NSN - Script Interpreter	
_nwdir.nlm	NSN - eDirectory UCX Component	
_nwevent.nlm	NSN - NetWare Events Manager UCX Component	
_nwfmgr.nlm	NSN - NetWare File System Manager UCX Component	
_pcheck.nlm	NSN - Permission Checker UCX Component	
_pgcntr.nlm	NSN - Page Counter UCX Component	
_profile.nlm	NSN - Profile UCX Component	
_queue.nlm	NSN - QUEUE UCX Component	
_sema.nlm	NSN - Semaphore UCX Component	
_server.nlm	NSN - Server UCX Component	
_snmp.nlm	NSN - SNMP UCX Component	
_srvskt.nlm	NSN - Server Socket UCX Component	
_textwin.nlm	NSN - Text Window UCX Component	
_tools.nlm	NSN - Tools UCX Component	
_volmgr.nlm	NSN - Volume Manager UCX Component	
_zipfile.nlm	NSN - ZipFile UCX Component	

A

name	Description	Purpose
a2p.nlm	Perl 5.8.0 - Awk to Perl Translator	required
a3112.nlm	OS Support For NetWare 4.x NLMs	required
ab.nlm	Apache 2.0.44 Benchmark Utility for NetWare	

name	Description	Purpose
access36.nlm	mod_perl-2.0 Extension (Access) XS_VERSION: 0.01	
acpica.nlm	ACPI Component Architecture (CA) for NetWare	
adagent.nlm	Novell Advanced Audit Service Agent	◆ Collects audit data from services and stores it in a local cache. ◆ Can't unload. ◆ Dependent on ds.nlm. ◆ Loaded by default from autoexec.ncf.
adagtset.nlm	Novell Advanced Audit Service Agent Initialization NLM	
admattrs.nlm	ADM Attribute Creation Utility	◆ Supports management of common objects between BorderManager and NMAS. ◆ Unloaded by default.
adserver.nlm	Novell Advanced Audit Service Server	◆ Unloadable by unloading Java. This will impact data collection and report generation. ◆ Dependent on ds.nlm. ◆ Loaded by default from autoexec.ncf.
adsp.nlm	AppleTalk Data Stream Protocol MOAB.B21	Protocol that allows applications to communicate over AppleTalk networks. (required)
adsrvset.nlm	Novell Advanced Audit Service Server Initialization NLM	◆ Thisis an executable and runs only once for configuration. ◆ Dependent on ds.nlm. ◆ Not loaded by default.
afptcp.nlm	AFPTCP (Build 149 SP)	Unloads and reloads the AFPTCP.NLM program with the GUEST option to make the Guest button available on the login screen.AFPTCP.NLM is loaded automatically on the server by the AFPSTRT.NCF file, which is automatically added to the AUTOEXEC.NCF file during the Native File Access Protocols portion of the NetWare 6 and later installation. (required)
agcrypto_jni.nlm	Java Native Cryptography Support for eXtend	
agdbregistry.nlm	SilverStream (R) Command-line Loader for AgDBRegistry	

name	Description	Purpose
agdigitalidstep1.nlm	AgDigitalIDStep1.nlm	
agdigitalidstep2.nlm	AgDigitalIDStep2.nlm	
aglicreg.nlm	SilverStream License Utility	
agremovedb.nlm	AgRemoveDB	
aguploadlicense.nlm	AgUploadLicense.nlm (Install exteNd AppServer license)	
aguuid_jni.nlm	Java Native UUID Support for eXtend	
aio.nlm	NetWare Asynchronous I/O Library	◆ Asynchronous I/O is a library of functions that runs as an NLM application and that includes AIOCOMX.NLM (an asynchronous I/O communication driver for the COM ports on a NetWare® server). The Asynchronous I/O NLM presents a single point of control through which applications can access all asynchronous communications services in the NetWare 3.1 and later environment. Individual Asynchronous I/O drivers register with Asynchronous I/O and identify the asynchronous ports provided by each driver. Asynchronous I/O adds these ports to the pool of ports that it provides. Applications can either request ports from the whole pool of ports or request a specific port, board, or driver hardware type. ◆ If unloaded, asynchronous I/O will not be possible. ◆ Unloaded by default.
aiobcmsm.nlm	Broadcom Modem Driver	required
aiocomx.nlm	Novell AIO Serial Port Driver	◆ Dependent on aio.nlm. ◆ Unloaded by default.
aiocon.nlm	AIO Port Configuration	◆ Configures asynchronous ports. ◆ Dependent on cssysmsg.nlm, nwsnut.nlm, and aio.nlm. ◆ Unloaded by default. ◆ For more information, see AIOCON in Utilities Reference.

name	Description	Purpose
aiopptp.nlm	Remote Access AIOPPTP Module PRODUCTION_31MAY2002	◆ Remote access asynchronous I/O PPTP driver. ◆ Unloaded by default.
apache2.nlm	Apache Web Server 2.0.44	
apitest.nlm	perl 5.8.0 - APItest Extension XS_VERSION: 0.01	
apjava.nlm	Java Native Method Library for NWIAP.NLM	
appletlk.nlm	AppleTalk Stack/Router ndn19206	Loads the AppleTalk router and AppleTalk protocol stack on the server. The AppleTalk router connects an AppleTalk network with other AppleTalk networks or NetWare networks, so that all the nodes on each network can access services and nodes on any of the other networks. The AppleTalk protocol stack is a suite of AppleTalk protocols used to support AppleTalk applications, such as print and file services. (required)
apr.nlm	mod_perl-2.0 Extension (APR) XS_VERSION: 0.01	
aprlib.nlm	Apache Portability Runtime Library 0.9.2	
arp.nlm	TCPIP Arp Configuration Command	◆ Utility manipulates the system arp cache. ◆ No consequence if unloaded. ◆ Dependent on conman.nlm. ◆ Unloaded by default.
atcfg.nlm	AppleTalk Configuration Console MOAB_NDK_1	required
atcon.nlm	SMILE/PTUI AppleTalk Console MOAB.B21	Lets you: ◆ Monitor the activity of AppleTalk* network segments ◆ Examine the configuration of the local AppleTalk router ◆ Diagnose operational problems in network segments that support AppleTalk ◆ Verify the connectivity of an AppleTalk router to the rest of the internetwork ◆ Monitor the status of AppleTalk Update-based Routing Protocol (AURP) (REQUIRED)

name	Description	Purpose
atflt.nlm	AppleTalk Filter Support Module MOAB.B21	Lets you restrict how routers see and communicate with each other. (REQUIRED)
auditjv.nlm	Java Native Method Library for Audit File Conversion	
audnlm32.nlm	NetWare NWAud Runtime Library	required
aurp.nlm	AppleTalk Update-Based Routing Protocol MOAB.B21	Allows AppleTalk to be tunneled through IP, which lets AppleTalk networks connect to each other through an through an IP network. (REQUIRED)
authanon.nlm	Authentication Anonymous Module	\Apache2\modules
authdbm.nlm	Database Authentication Module	
authldap.nlm	Apache 2.0.44 LDAP Authentication Module	
awt.nlm	AWT - 1.2 Graphics	

B

Name	Description	Purpose
backupcr.nlm	eDirectory Management Tool Box DSBackup eMTool 8.7	Automatically loaded and unloaded by embox.nlm (required)
backuptl.nlm	eDirectory Management Tool Box DSBackup eMTool 8.7	Automatically loaded and unloaded by embox.nlm (required)
base64.nlm	Perl 5.8.0 - Base 64 Extension XS_version: 2.12	
base6415.nlm	mod_perl-2.0 Extension (Base64) XS_version: 0.01	
bcallcfg.nlm	Backup Call Configuration Console	required
bcallsrv.nlm	Backup Call Server MOAB_NDK2	required
bootpfwd.nlm	BOOTP Forwarder	BOOTP is a protocol that enables end nodes to receive their IP addresses from a BOOTP server at startup time. If your internetwork has a BOOTP or DHCP server, you can configure your IP router to accept and forward BOOTP or DHCP requests to that server. (REQUIRED)
brgcfg.nlm	Source Route Bridge Configuration Console MOAB_NDK_1	required
brgcon.nlm	MPR Bridge Console IP0200.G01	required

Name	Description	Purpose
brglanm.nlm	NetWare MPR SR Bridge LAN Manager IP0200.G01	required
bridge.nlm	NetWare MPR SR/T Bridge IP0200.G01	required
brigad14.nlm	mod_perl-2.0 Extension (Brigade) XS_version: 0.01	
broker.nlm	NDPS Broker	◆ Host for the regsrvr.nlm, ntfysrvr.nlm, and rmansrvr.nlm. ◆ If unloaded, the three hosted services will be unloaded. ◆ Dependent on clib.nlm, ws2_32.nlm, dsapi.nlm, dprpcnlm.nlm, nwsnut.nlm, clxnlm32.nlm, and calnlm32.nlm. ◆ Unloaded by default. ◆ For more information, see NDPS Broker in Utilities Reference.
bsdsock.nlm	Novell BSDSOCK Module	◆ Provides the BSD standard sockets interface. ◆ Cannot be unloaded. ◆ Dependent on all applications written over BSD layer. ◆ Loaded by default.
bspxcom.nlm	BSPXCOM.NLM v7.90.000, Build 230	The SPX communications agent for Btrieve. (required)
btcpcom.nlm	BTCPCOM.NLM v7.90.000, Build 230	required
btimsg.nlm	BTIMSG.NLMv4.0.100 Build 230	required
btrieve.nlm	BTRIEVE.NLM v7.90.000	required
bucket13.nlm	mod_perl-2.0 Extension (Bucket) XS_version: 0.01	
bulkload.nlm	Bulkload	◆ Used to allow you to use industry-standard LDAP Data Interchange Format (see LDIF) data files to create, modify, or delete NDS objects. Now it notifies you to use Novell Import Convert Export (ICE) instead. ◆ Unloaded by default.
byteload.nlm	Perl 5.8.0 - Byteloader Extension XS_version: 0.04	

C

Name	Description	Purpose
call.nlm	Perl 5.8.0 - Call Extension XS_version: 1.06	
callmgr.nlm	Call Connection Manager	◆ Console utility to view the PPP(WAN call status).
		◆ Dependent on tui.nlm
		◆ Unloaded by default.
calnlm32.nlm	NetWare NWCalls Runtime Library	required
ccscheck.nlm		
cdbe.nlm	NetWare Configuration DB Engine	required?
cdrom.nlm	NSS (Novell Storage Services) CD Support (Build 41 MP)	◆ Use at the server console to allow a CD-ROM disk to function as a Novell® Storage Services (NSS) volume. Your NSS volume will mount immediately.
		This version of cdrom.nlm replaces the version used in previous NetWare releases. (The previous version of cdrom.nlm is now named cdinst.nlm and should be used only for NetWare 5 installation.)
		◆ The NetWare 6 version of cdrom.nlm is a simple NetWare module that loads the following: nss.nlm, cd9660.nss, and cdhfs.nss.
		◆ In NetWare 6.5, cddvd.nss replaces the cdrom.nlm.
cernmeta.nlm	Apache 2.0.44 CERN Meta Module	\Apache\modules
certtool.nlm	jBroker ORB Certification Tool	
charset.nlm	Display Character Set Support For NetWare	Sets codepage for the server keyboard. required?
chngserv.nlm	jBroker ORB Change Server Utility	
cifs.nlm	CIFS Semantic Agent (Build 223 MP)	Lets the NetWare server communicate with the CIFS (SMB) file sharing protocol. (required)
cifsprox.nlm	NMAS Proxy for CIFS (Build 38 MP)	required
cios.nlm	Consolidated IO System	required?
ciosshim.nlm	Novell CIOS Platform Shim	required?

Name	Description	Purpose
cli.nlm	License Install Library	required
clib.nlm	Novell Standard C Runtime Library for NLMs	The standard C runtime library containing ANSI-mandated functions. required?
clibaux.nlm	Novell NLM Auxiliary Shim	required?
clibctx.nlm	Clib Context Agent for NLM Programs	required?
clnnlm32.nlm	NetWare NWCLX Runtime Library	required
clstrlib.nlm	Novell Cluster Configuration Library	required
clxnlm32.nlm	NetWare NWCLX Runtime Library	required
cma.nlm	Cluster Management Agent bUILD nUMBER = 02122003	required
cmdpar35.nlm	mod_perl-2.0 Extension (CmdParms) XS_version: 0.01	
cmm.nlm	Java cmm (based on 1.4.1_01)	
cmon.nlm	Cluster Membership Monitor Build Number =02122003	required
cmpsuper.nlm	Compression Subsystem Supervisor PRODUCTION_31MAY2002	- If unloaded, PPP subsystem will not work. - Dependent on pred.nlm and nlzs.nlm. - Unloaded by default.
comman34.nlm	mod_perl-2.0 Extension (Command) XS_version: 0.01	
comp_err.nlm	No description	
conlog.nlm	System Console Logger	- Console logging utility - If unloaded, console logs will not be available. - Loaded by default. - For more information, see CONLOG in Utilities Reference.
conlogj.nlm	Java - GUI Conlog JNI Support Build 030227	
conlogo.nlm	Java - GUI Conlog Native Support Build 030227	

Name	Description	Purpose
conman.nlm	NetWare TCPIP Configuration and Management Library	◆ SNMP interface for command line utilities. ◆ If unloaded, netstat.nlm, ifconfig.nlm, arp.nlm, and routecon.nlm will fail to load. ◆ Dependent on snmp.nlm, netdb.nlm, and csl.nlm. ◆ Unloaded by default.
connaud.nlm	NLS - Connection Metering	◆ Licensed connection usage metering application ◆ Automatically reloaded if unloaded. ◆ Depends on clib.nlm and nlsmeter.nlm. ◆ Loaded by default.
connmgr.nlm	NetWare Connection Manager NLM	Executes the following command-line commands: broadcast, clear station, cm busy, cm conn, cm kill, cm stats, disable login, enable login, idcache conn, idcache stats, send (required?)
connec33.nlm	mod_perl - 2.0 Extension (Connection) XS_VERSION: 0.01	
const37.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
const39.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
const41.nlm	mod_perl-2.0 Extension (Const) XS_version: 0.01	
convinet.nlm	MPR 2.x-3.0 Conversion Utility	required
cpdata.nlm	NetWare Install Data Store/Retrieve Module	required?
cpdatajv.nlm	Java Native Method Library for cpdata.nlm	
cpecfg.nlm	CPE Configuration Console MOAB_NDK	required
cpucheck.nlm	NetWare Processor Checking Utility	required?

Name	Description	Purpose
creatobj.nlm	Novell Advanced Audit Service Object Creation NLM	• Used by NAAS install and NAAS troubleshooting utility.
		• Cannot be unloaded manually because it will be loaded by Java. Used only at install time.
		• Dependent on ds.nlm.
		• Not loaded by default.
crm.nlm	Novell Cluster Resource Manager Build Number = 02122003	required
csatpxy.nlm	CS Audit Trail Proxy Agent	required
csaudit.nlm	CSLIB: Audit Trail Facility	• Audit Trail Logging utility.
		• Unloaded by default.
csl.nlm	NetWare Call Support Layer For NetWare	required
cslcnvrt.nlm	CSL Conversion	• CSL conversion sublayer.
		• Unloaded by default.
cslind.nlm	TCPIP CSL Independence Module 7Dec99	• TCP/IP CSL Independence module.
		• If unloaded, TCP/IP will not function.
		• Dependent on tcpip.nlm.
		• Loaded by default.
css.nlm	Cluster System Services Build = 02122003	required
cssysmsg.nlm	CSLIB: System Messages Facility	• Unloaded by default.
custom.nlm	NIS Example Remote Custom Service Provider	
cvb.nlm	Novell Cluster Volume Broker Build Number = 02122003	required
cwd.nlm	Perl 5.8.0 - Cwd Extension XS_version: 2.06	

D

Name	Description	Purpose
date12.nlm	mod_perl-2.0 Extension (Date) XS_version: 0.01	

Name	Description	Purpose
dbi.nlm	Perl 5.0.8 - DBI Extension XS_version: 1.14	
dbinit.nlm	jBroker MQ Database Initialization	
dbnet6.nlm	Debug Network IO Support (Beta Build 4)	required
dbtelnet.nlm	Kernel Debugger Telnet Daemon	◆ Telnet server for kernel debugger. ◆ No consequence if unloaded. ◆ Dependent on libc.nlm and nwterm.nlm. ◆ Not loaded by default.
dclient.nlm	NetWare JClient-Native (Build 1.0.17)	
dclientr.nlm	NetWare JClient-Native Resources (Build 1.0.17)	
dcpr.nlm	Java dcpr (based on 1.4.1_01)	
debuglog.nlm	Debug Log Manager	required?
delay.nlm	Delay for specified amount of time (seconds). Build Number =10152001	required
delim.nlm	Novell Import Convert Export Utility	◆ Facilitates the import and export of delimited data in conjunction with the ICE utility. ◆ Unloaded by default.
dfslib.nlm	DFS Common Library (Build 332 MP)	required
dhcpclnt.nlm	NetWare DHCP Client	required?
dhcpsrvr.nlm	DHCP Server	required
dhcputil.nlm	DHCP Utility for Installation	required?
dhost.nlm	Novell DHost Portability Interfacec1.0.0 SMP	required
diag500.nlm	Diagnostic/coredump utility for NetWare 6	required?
dibmig.nlm	Dib Migration utility for Novell eDirectory 8.7	required
digest.nlm	Digest Authentication Module	apache\modules
direct32.nlm	mod_perl-2.0 Extension (Directive) XS_version: 0.01	
dirload.nlm	Novell Import Convert Export Utility	◆ Generates test data in conjunction with the ICE utility. ◆ Unloaded by default.

Name	Description	Purpose
dm.nlm	Novell XTier Directory Manager	
dmgmt.nlm	Device Management NLM	• If unloaded, external device support for WAN will not function. • Autoloaded by ppptsm.nlm. • Unloaded by default.
dmndap.nlm	Novell XTier Directory Manager NDAP Provider	
dnipinst.nlm	eDirectory Integrated Novell DNS Server	• Installs DNS\DHCP Schema. Extends the DNS\DHCP Schema and creates the base object. It also functions as a Schema Repair utility. • Unloaded after install is complete. • Dependent on dsapi.nlm, tui.nlm, netdb.nlm, nlsi.nlm, and cli.nlm. • Unloaded by default.
dns.nlm	Novell DNS/NDS Services Version 0	required
dnsadmin.nlm	DNSADMIN	Autoloads nwsnut.nlm, nut.nlm, and tui.nlm (required)
dnscnvrt.nlm	Schema extend for eDirectory integrated Novell DNS Server	• Converts Btrieve DNS Zone data files to a DNS Zone master Text file. • Unloaded after conversion is complete. • Dependent on dsapi.nlm, tui.nlm, netdb.nlm, nlsi.nlm, and cli.nlm. • Unloaded by default.
dplsv386.nlm	NetWare 5.x, 6.x Distributed Print Library - DPLSV386	• NDPS client library used to form requests to NDPS services and to administer NDPS objects in eDirectory. • If unloaded, communication from the server to NDPS services ceases. • Dependent on dprpcnlm.nlm, nipped.nlm, netnlm32.nlm, clxnlm32.nlm, calnlm32.nlm, and clib.nlm. • Unloaded by default.

Name	Description	Purpose
dprpcnlm.nlm	Novell NDPS RPC Library NLM	◆ Provides the communication layer for NDPS. It marshalls the packets and sends and receives them between NDPS components.
		◆ Because dprpcnlm.nlm provides the communications layer between NDPS components, the other components are dependent upon it for communication.
		In order to use dprpcnlm.nlm, you need to unload all the other NDPS components which have built in dependencies to it. This includes the NDPS library (dplsv386.nlm); because the NDPS library is used by the NDPS iManager plug-in, which provides a class used by the Java components on the server, it may not be possible to unload it.
		◆ Uses the CLIB libraries (clib.nlm, nlmlib.nlm, and threads.nlm) for standard C function calls and threading. Calls into server.nlm for Mutexes and SpinLocks. Uses ws2nlm.nlm to send and received packets.
		◆ Loaded automatically by the NLMs that have a dependency on it.
ds.nlm	Novell eDirectory Version 8.7 SP1 SMP	required
dsapi.nlm	NetWare NWNet Runtime Library	required
dsbacker.nlm	Install for Novell eDirectory 8.7	required
dsbrowse.nlm	Browse utility for Novell eDirectory 8.7	◆ Browse and search the eDirectory tree. Used for troubleshooting and diagnosis.
		◆ Unloaded by default.
dsevent.nlm	NetWare DSEvent Runtime Library	required
dsi.nlm	Install for Novell eDirectory 8.7	required
dsijv.nlm	Java Native Method Library for NWIDS.NLM	
dsisch.nlm	Install for Novell eDirectory 8.7	required

Name	Description	Purpose
dsmerge.nlm	Merge/Graft Utility for Novell eDirectory 8.7	◆ Merge two eDirectory trees into a single tree. ◆ Unloaded by default. ◆ For more information, see Dsmerge in Utilities Reference
dsrepair.nlm	Repair utility for Novell eDirectory 8.6 - 8.7	◆ Use at the server console to repair and correct problems in the eDirectory database. Such problems might include bad records, schema mismatches, bad server addresses, and external references. ◆ Unloaded by default. ◆ For more information, see DSREPAIR in Utilities Reference
dsshim.nlm	Novell Advanced Audit Service Shim for Novell eDirectory	◆ Used for eDirectory auditing. ◆ Can't unload. ◆ Dependent on adagent.nlm and ds.nlm. ◆ Loaded by default from autoexec.ncf.
dssnmpsa.nlm	SNMP support for eDirectory 8.7.0	required
dstrace.nlm	Trace utility for Novell eDirectory 8.7.0	◆ Filter and display eDirectory trace messages. ◆ Unloaded by default.
dt_skt.nlm	Java dt_skt (based on 1.4.1_01)	
dxevent.nlm	DirXML Event Handler for Novell Directory Services 8.7.0	required

E

Name	Description	Purpose
echo.nlm	Apache 2.0.44 Echo Module	f:\system
echo.nlm	Perl 5.8.0 - DOS Echo emulation for Perl testing	f:\nwserver (required)

Name	Description	Purpose
edit.nlm	NetWare Text Editor	◆ Use at the server console to create or modify a text file on either a DOS or NetWare partition. ◆ Dependent on nwsnut.nlm and nlmlib.nlm. ◆ Unloaded by default. ◆ For more information, see EDIT in Utilities Reference
embox.nlm	eDirectory Management Tool Box Engine 8.7	required
emboxmgr.nlm	eDirectory Management Tool Box Manager 8.7	Loads and unloads the following NLM programs: ◆ embox.nlm ◆ xis11.nlm ◆ langman.nlm ◆ ht2soap.nlm ◆ emboxmngr.nlm ◆ emboxmsg.nlm ◆ secure.nlm ◆ logger.nlm ◆ statuslg.nlm ◆ backuptl.nlm ◆ backupcr.nlm ◆ mergetl.nlm ◆ repairtl.nlm ◆ repaircr.nlm ◆ schematl.nlm ◆ servictl.nlm (required)
emboxmsg.nlm	eDirectory Management Tool Box Message API 8.7	required
epsoncon.nlm	Epson Printer Gateway Console	required
epsongw.nlm	Epson NDPS Gateway	required
epsonlib.nlm	Epson Printer Gateway Library	required
epsonpap.nlm	Epson Printer Gateway Plug and Print	required
ethertsm.nlm	Novell Ethernet Topology Specific Module	required
eventmgr.nlm	Novell XTier Event Manager	

Name	Description	Purpose
expat.nlm	Perl 5.8.0 Expat Extension XS_version: 2.31	
expatlbc.nlm	Scripting - Expat XML Parser Library (LibC Based)	required
expatlib.nlm	Scripting- Expat XML Parser Library (Clib Based)	required
expires.nlm	Apache 2.0.44 Expires Module	
extfiltr.nlm	Apache 2.0.44 External Filter Module	

F

Name	Description	Purpose
fatfs.nlm	FAT Filesystem Module for NetWare	required?
fcntl.nlm	Perl 5.8.0 - Fcntl Extension XS_version: 1.04	
fdditsm.nlm	Novell FDDI Topology Specific Module	required
filecpy.nlm	Novell Advanced Audit Service Install Utility NLM	• Used only during installation. • Not loaded by default.
filesys.nlm	NetWare File System NLM	required?
filtcfg.nlm	MPR Filter Configuration	Use at the server console to set up and configure filters for IPX, and AppleTalk* protocols. In NetWare 6.5, TCP/IP filters are stored in eDirectory, whereas all others filters are stored in the filters.cfg file. Hence, TCP/IP filters will be read from eDirectory and other filters will continue to be read from filters.cfg by all applications. (required)
filtconv.nlm	MPR Filter Convertion	required
filter30.nlm	mod_perl-2.0 Extension (FilterRec) XS_version: 0.01	
filter31.nlm	mod_perl-2.0 Extension (Filter) XS_version: 0.01	
filtsrv.nlm	Filter Services	For TCP/IP, the filters are read by filtsrv not from the filters.cfg file but from eDirectory, whereas for all other filters (except TCP/IP) the information is read from filters.cfg. (required)

Name	Description	Purpose
fixup.nlm	fixup	
fixupsp.nlm	fixupsp	
flextrap.nlm	NetWare Flexible Trap Configurator	required
fontmn.nlm	Java 1.4 Font Manager and Rendering Engine for NetWare	
fpsm.nlm	Novell Floating-Point Support Module for NLMs	A library of functions providing floating-point support for NLM programs. required?
fsshim.nlm	Novell Advanced Audit Service Shim for Legacy File System	- Used for NWFS auditing. - Can't unload. - Dependent on adagent.nlm. - Loaded by default from autoexec.ncf.
ftpif.nlm	Interface Module for NetWare FTP Server and Statistics	- Dependent on netnlm32.nlm and clxnlm32.nlm. - Loaded by default if nwftpd.nlm is present in autoexec.ncf.
ftpstat.nlm	NetWare FTP Server Statistics Utility	- If unloaded, FTP statistics will not be available. - Dependent on ftpif.nlm. - Unloaded by default.
ftpupgrd.nlm	NetWare FTP Server Configuration Upgrade Utility	Loaded at install time.

G

Name	Description	Purpose
gams.nlm	Graded Authentication Management Service	- Nmas.nlm and ds.nlm are dependent on it. - Loaded by default.
gateway.nlm	jBroker ORB Gateway Server	
gencfg.nlm	Generic Configuration Console, Production_22Apr2002	required
gestegw.nlm	Geste NDPS Gateway	required
gipc.nlm	Group Protocol Build Number = 02122003	required
glob.nlm	Perl 5.0.8 - Glob Extension XS_version: 1.01	

Name	Description	Purpose
global1.nlm	mod_perl-2.0 Extension (Global) XS_version: 0.01	
guimgr.nlm	Graphical User Interface Manager	

H

Name	Description	Purpose
hbnnsp.nlm	Novell XTier GetHostByName Name Server Provider	
hdetect.nlm	NetWare Hardware Installation Utility	required?
headers.nlm	Apache 2.0.44 Headers Module	
hookru29.nlm	mod_perl-2.0 Extension (HookRun) XS_version: 0.01	
hostmib.nlm	NetWare 5.x/6.x Host Resources MIB	• SNMP agent implementation of RFC1514.MIB and nwhostx.mib. • If unloaded, SNMP manager will not receive the date. • Dependent on clib.nlm. • Unloaded by default.
hostname.nlm	Perl 5.8.0 Hostname Extension XS_version: 1.1	
hpgate.nlm	Hewlett-Packard NDPS Gateway	required
hprof.nlm	Java hprof (based on 1.4.1_01)	
ht2soap.nlm	eDirectory Management Tool Box HTTP to SOAP shim 8.7	required
htdbm.nlm	Apache 2.0.44 HT Database Management Utility for NetWare	
htdigest.nlm	Apache 2.0.44 HT Digest Utility for NetWare	
htpasswd.nlm	Apache 2.0.44 HT Password Utility for NetWare	
httpstk.nlm	Novell Small Http Interface	Executes the following command-line commands: httpbind, httpcloseport, httpopenport, httpunbind, mailto, nrmdebug, smtp
hwdetect.nlm	Novell Hardware Insertion/Removal Detection	required?

Name	Description	Purpose
ice.nlm	Novell Import Convert Export Utility	◆ Imports and exports data to and from eDirectory in a variety of formats. ◆ Dependent on dirload.nlm, delim.nlm, ldaphdlr.nlm, ldapsdk.nlm, ldapssl.nlm, and ldif.nlm. ◆ Unloaded by default.
icelib.nlm	IceWM Dynamic Library - 1.1 for NetWare	
icenativ.nlm	ICE ConsoleOne native interface for Novell eDirectory 8.7	required
icewm.nlm	IceWM - 1.1 for NetWare	
icm_spx.nlm	SPX Manual Connection Manager	required
icmd.nlm	NetWare Installation Command Utility	
idl2java.nlm	jBroker ORB IDL to Java Compiler	
ifconfig.nlm	TCPIP Ifconfig Interface Configuration Command	◆ Configure network interface parameters. ◆ No consequence if unloaded. ◆ Dependent on conman.nlm. ◆ Unloaded by default.
ifolder.nlm	ifolder	
ifolderu.nlm	ifolderu	
imghost.nlm	Host Coredump Image Receiver	required

Name	Description	Purpose
inetcfg.nlm	Internetworking Configuration	Internetworking Configuration utility used for configuring network adapters, protocols, and bindings.
		Used to configure load balancing and fault tolerance
		Use at the server console to set up and customize your internetworking configuration for IPX, IP, and AppleTalk.
		INETCFG simplifies the process of configuring local area networks (LANs) to work with network and routing protocols supported by NetWare.
		INETCFG lets you configure the stack with the help of tcpcfg.nlm. The configuration is stored in sys:\etc\tcpip.cfg and sys:\etc\netinfo.cfg. (required)
inetd.nlm	NetWare 386 INETD	required
inetlbjv.nlm	Java Native Method Library for inetlib.nlm	
inetlib.nlm	Netinfo.cfg Maintenance Library Production_28Mar2002	required
inews.nlm	Inews UCX Component	Universal Component eXtension or an UCX component is an abstract unit of functionality.
		Inews UCX component let a developer write scripts for accessing NNTP (Network News Transfer Protocol) compliant News servers
info.nlm	Apache 2.0.44 Info Module	
infotgw.nlm	Infot NDPS Gateway	required
initcert.nlm	Certificate Initialization for XTier/ NetIdentity	
initnici.nlm	NICI Initialization module	required
initsdi.nlm	INITSDI from Novell, Inc.	required
instprox.nlm	Installation Supplement	required
io.nlm	Perl 5.8.0 - IO Extension XS_version: 1.20	
ioctl.nlm	ENG TEST - NetWare ioctl manager	required
ioser12.nlm	Java ioser12 (based on 1.4.1 _01)	

Name	Description	Purpose
ipclinfo.nlm	IP Client Info Module 17Dec99	required
ipctl.nlm	Novell XTier Transport Layer	
ipcu.nlm	NSS (Novell Storage Services) (Build 97)	required
ipflt.nlm	Novell TCP/IP Filter Support Module	- Wrapper NLM that loads ipflt31.nlm. - If unloaded, unloads ipflt31.nlm, which makes the system vulnerable to attacks. - Unloaded by default.
ipflt31.nlm	Novell TCP/IP Filter Module	- Provides the firewall functionality and secures the system. - If unloaded, the system is vulnerable to attacks. - Depends on the following NLMs: filtsrv.nlm, which maintains firewall configuration policies; tcpip.nlm for control. - Unloaded by default.
ipmcfg.nlm	Web Interface for NetWare IP Address Management and Configuration	- Provides the user interface for IP address management in NetWare Remote Manager. You can access this interface by clicking the IP Address Management link in NetWare Remote Manager. This utility lets you change IP address or port that an application running on NetWare is using. - If unloaded, there are no side effects. Functionality will not be available from NRM. - Automatically loads ipmgmt.nlm. No hard coded dependencies. Imports APIs from npkiapi.nlm and portal.nlm. - Loaded by default.
ipmgmt.nlm	TCPIP - NetWare IP Address Management	- Provides the basic framework to handle all IP address and port configuration. - If unloaded, all the applications that use IP address management will fail to get and manage their address configurations. - Loaded by default.

Name	Description	Purpose
ipmjava.nlm	TCPIP - NetWare IP Address Management JAVA NATIVE INTERFACE	required
ippsrvr.nlm	Novell iPrint Server	- Provides internet-based print service to IPP (iPrint) clients. - If unloaded, iPrint service is not available to iPrint clients. - Coordinates iPrint requests to the NDPS Manager (ndpsm.nlm). Retrieves information about printer drivers and the drivers themselves from the Resource Management Service (rmansrvr.nlm). - Loaded by the ndpsm.nlm when printer agents are enabled for IPP (iPrint) service.
iprelcfg.nlm	IPRELAY Configuration Console	required
iptrace.nlm	Trace Route Utility	required
iptrace6.nlm	Trace Route Utility	
ipv6.nlm	Novell IPv6 Module Wave-I	
ipxcfg.nlm	IPX Configuration Console	required
ipxcon.nlm	IPX Router Management Console	Use at the server console to - Monitor and troubleshoot IPX routers and network segments throughout your IPX internetwork - View the status of an IPX router or network segment - View all paths through which IPX packets can flow - Locate all active IPX routers on your internetwork - Monitor remote IPX routers that are running NetWare IPX Router software (required)
ipxf.nlm	IPX Fragmentation Layer	required
ipxflt.nlm	IPX NLSP Filter	required
ipxping.nlm	IPX Ping Console	Use at the server console to check connectivity to an IPX server on your internetwork. (required)
ipxrtr.nlm	IPX NLSP Router Production_02Dec2001	required

Name	Description	Purpose
ipxrtrnm.nlm	IPX Router Network Management	required
ipxs.nlm	NetWare STREAMS IPX Protocol	Provides IPX protocol to NLM programs that require STREAMS-based IPX. (required)
ipxspx.nlm	NetWare IPX/SPX Protocol Stack NLM	required?
isamchk.nlm	MySQL ISAM Table Check Tool	
iscsilib.nlm	ENG TEST - NetWare iSCSI Library	required
iscsinit.nlm	ENG TEST - NetWare iSCSI Initiator	required
iscsinrm.nlm	ENG TEST - NetWare iSCSI NRM Plugin	required
iscsitar.nlm	Novell iSCSI Target	required
iscsixml.nlm	ENG TEST - NetWare iSCSI XML Interface	required
isslib.nlm	Install Server-To-Server I/O Library	required?

J

Name	Description	Purpose
jaas_nw.nlm	Java jaas_nw (based on 1.4.1_01)	
jadagent.nlm	Novell Advanced Audit Service Agent NLM for JNI components	• Can be unloaded by unloading Java. Consolidation of audit data will be stopped. • Dependent on adagent.nlm. • Loaded by default from autoexec.ncf.
java.nlm	java.nlm (based on 1.4.1_01) Build 03022715	Starts the Novell JVM for NetWare product at the server. The Novell JVM product is comprised of several NLM programs that let the NetWare server run Java*-based applications and applets, including multi-threaded applications and applications that use a graphical interface. Executes the following command-line commands: applet, appletviewer, envset, extcheck, htmlconverter, idlj, jar, jarsigner, java, javac, javadoc, javah, javap, keytool, native2ascii, orbd, policytool, rmic, rmid, rmiregistry, serialver, servertool, tnameserv
java2ucs.nlm	Novell UCS - Java Extension	

Name	Description	Purpose
javawtch.nlm	Install Java Watcher	
jbconsole.nlm	jBroker ORB Console	
jbroker11.nlm	jBroker ORB Native Library (JDK 1.1.x)	
jbroker12.nlm	jBroker ORB Native Library	
jbrunner.nlm	jBroker ORB Client Runner	
jclnt.nlm	NetWare JClient-Native (Build 1.2.1133)	• Provides JNI interface for jclient.jar. JClient consists of jclient.jar, jclntr.nlm and jclnt.nlm. JClient provides DClient functionality to Java Application that run on Netware. • If unloaded, the application that is making JClient calls will receive exceptions until the NLM has been reloaded. • Dependent on jclntr.nlm, dsloader.nlm and ds.nlm. • Unloaded by default.
jclntr.nlm	NetWare JClient-Native Resources (Build 1.2.1133)	• Resource for jclnt.nlm. • If unloaded, the application that is making JClient calls will receive exceptions until the NLM has been reloaded. • Dependent on jclnt.nlm, dsloader.nlm and ds.nlm. • Unloaded by default.
jcov.nlm	Java jcov (based on 1.4.1 _01)	
jcryptor.nlm	Novell Advanced Audit Service Cryptography Module	• Unloadable by unloading Java. This will impact the communication between NAAS components. • Dependent on nicisdi.nlm. • Loaded by default from autoexec.ncf.
jdbc.nlm	Java Jdbc (based on 1.4.1_01)	
jdwp.nlm	Java jdwp (based on 1.4.1_01)	
jmqcfg.nlm	jBroker MQ Configuration Utility	
jmqmon.nlm	jBroker MQ Server Monitor	
jmqrun.nlm	jBroker MQ Client Runner	

Name	Description	Purpose
jmqserv.nlm	jBroker MQ Server	
jmqutil.nlm	jBroker MQ Destination Utility	
jnaasapi.nlm	NLM 1 for UDDI testing	◆ Novell Advanced Audit Service NLM for Java API native component. ◆ Can be unloaded by unloading Java. This will impact the auditing of registered Java services. ◆ Dependent on adagent.nlm. ◆ Loaded by default from autoexec.ncf.
jncpv2.nlm	Native Wrapper Java Class Libraries for NetWare	
jndps.nlm	Native Wrapper Java Class Libraries for NDPS	required
jnet.nlm	Java jnet (based on 1.4.1_01)	
jnsftp.nlm	Native Interface Module for NFS and FTP Administration	◆ If unloaded, NPS UI-based Administration of NFS and FTP will fail. ◆ In NFS, dependent on xnfs.nlm and nfsclust.nlm for configuration information. ◆ Unloaded by default. Loads when NFS and FTP Administration page is first accessed.
jorbd.nlm	jBroker ORB Daemon	
jpeg.nlm	Java jpeg (based on 1.4.1_01)	
jsas.nlm	Java Secure Authentication Services for NetWare	required
jsmsg.nlm	Jetstream Message Layer (Build 424 MP)	required
jsock.nlm	Support For Java Sockets (loader)	
jsock6x.nlm	NetWare 6.x Support For Java Sockets (JDK 1.4.1)	
jsound.nlm	Java jsound (based on 1.4.1_01)	
jstcp.nlm	Jetstream TCP Transport Layer (Build 413 MP)	required
jvm.nlm	Java Hotspot 1.4.1_01 Interpreter	
jvmlib.nlm	Java jvmlib (based on 1.4.1_01)	

K

Name	Description	Purpose
keyb.nlm	NetWare National Keyboard Support	required?
kycon.nlm	Kyocera Printer Gateway Console	required
kygate.nlm	Kyocera NDPS Gateway	required
kylib.nlm	Kyocera Printer Gateway Library	required
kypnp.nlm	Kyocera Printer Gateway Plug and Print	required

L

Name	Description	Purpose
ladd.nlm	ladd	required
langman.nlm	Novell Cross-Platform Language Manager	required
langmani.nlm	Novell Cross-Platform Language Manager	required
laniegw.nlm	Lanie NDPS Gateway	required
lburp.nlm	LDAP Bulkload Update/Replication Protocol service extension for Novell eDirectory 8.7	required
ldaphdlr.nlm	Novell Import Convert Export Utility	required
ldapsdk.nlm	LDAP SDK Library (Clib version)	◆ Provides LDAP Client access to eDirectory and any LDAP V3 directory. ◆ Only needed when applications are using it. ◆ Unloaded by default.
ldapssl.nlm	NetWare SSL Library for LDAP SDK (Clib version)	◆ TLS / SSL support for LDAP. ◆ Cannot be unloaded without unloading ldapsdk.nlm. ◆ Dependent on ldapsdk.nlm. ◆ Unloaded by default.

Name	Description	Purpose
ldapx.nlm	NetWare Extension APIs for LDAP SDK (Clib version)	◆ LDAP Client Extensions, such as supporting LDAP extended calls for events and partition and replica information. ◆ Cannot be unloaded without unloading ldapsdk.nlm. ◆ Dependent on ldapsdk.nlm. ◆ Unloaded by default.
ldapxs.nlm	(Clib version)	◆ The server portion of the LDAP extensions. ◆ Should not be unloaded without unloading nldap.nlm. ◆ Dependent on nldap.nlm. ◆ Loaded by default.
ldelete.nlm	ldelete	required
ldif.nlm	Novell Import Convert Export Utility	required
lexgate.nlm	Lexmark International NDPS Gateway	required
lfs.nlm	Logical File System NLM	Executes the following command-line commands: add name space, dismount, mount, vmdismount, vmmount, vmvolumes, Executes the following command-line commands: add name space, dismount, mount, vmdismount, vmmount, vmvolumes, volume (required?)
lib0.nlm	Ring 0 Library for NLMs	The message library, containing system and error messages for most of the other server library NLM programs. (required?)

Name	Description	Purpose
libc.nlm	Novell Kernel Services and Standard C Runtime Library for NLMs [optimized, 3]	Libraries for C (LibC)-formerly Novell Kernel Services (NKS)-consists of a library and interfaces for implementing multithreaded, multiprocessor-aware applications, and other programs for NetWare.
		These libraries include a standard C library (LIBC.NLM), which includes standard C interfaces as well as NKS and new Unicode interfaces (UniLib).
		LibC is the standard C runtime library on NetWare® and replaces CLib. LibC supports the NetWare 5.0 and above multiprocessing kernel, virtual memory, address space protection, and other new technologies. They also point toward the future Novell platform.
		For more information, see libc online documentation in the Novell NDK (http://developer.novell.com/ndk/doc/libc/libc_enu/data/a643llf.html) (required?)
libcclib.nlm	need description	required?
libmysql.nlm	MySQL Client Library	required
libnss.nlm	Generic Library used by NSS (Build 101	required?
lic_api.nlm	License APIs IP020A.G03	required
licmaint.nlm	License Maintenance IP0200.G01	required
lictool.nlm	jBroker ORB License Tool	
listnc.nlm	jBroker ORB List Name Service Utility	
listserv.nlm	jBroker ORB List Server Utility	
llad.nlm	llad	required
llc8022.nlm	Novell 802.2 Stack	required
lldapsdk.nlm	LDAP SDK Library (LibC version)	required
lldapssl.nlm	NetWare SSL Library for LDAP SDK (LibC version)	required
lldapx.nlm	NetWare Extension APIs for LDAP SDK (LibC version)	required
lldelete.nlm	lldelete	required
llmodify.nlm	llmodify	required
llmodrdn.nlm	llmodrdn	required
llsearch.nlm	llsearch	required

Name	Description	Purpose
lmodrdn	lmodrdn	required
loadtest.nlm	Load Test program 4.2,5.1+	
locnlm32.nlm	NetWare NWLocale Runtime Library	required
log28.nlm	mod_perl-2.0 Extension (Log) XS_version: 0.01	
logger.nlm	eDirectory Management Tool Box Logger 8.7	required
logres.nlm	Apache 2.0.44 Logresolve Utility for NetWare	
lpr2ndps.nlm	NDPS Utility to Accept UNIX jobs via LPR	◆ Allows LPR-based clients (Unix, Mac, etc.) to submit jobs to iPrint. Sometimes called the LPR server or LPR front-end to iPrint.. ◆ Unloading breaks the ability to support LPR-based clients and is not recommended when the print manager is running. ◆ Dependent on dplsv386.nlm, dsapi.nlm, clib.nlm, the OS, and others. Its primary value is through communication with the print manager. ◆ Loaded by the print manager (ndpsm.nlm) when the manager starts a Printer Agent for which LPR-client support has been enabled.
lsapi.nlm	NLS LSAPI Library	◆ Licensing client library for NLM applications. ◆ If unloaded, it will be reloaded by polimgr.nlm. ◆ Depends on clib.nlm. ◆ Loaded by default.
lsearch.nlm	lsearch	required
lsl.nlm	Novell NetWare Link Support Layer	Executes the following command-line commands: bind, protocol, protocol register, unbind (required)

M

Name	Description	Purpose
makenis.nlm	NetWare NFS - NIS Map Migration Utility	◆ Dependent on ndsilib.nlm. ◆ Unloaded by default.
malhlp.nlm	NSS Configure help messages	required
malhlp9.nlm	NSS Configure help messages	required
map3xids.nlm	SMS NetWare 4.1x Map 3.1x Bindery IDs to NDS Names	◆ Helps to map Bindery IDs to NDS names ◆ If unloaded, no consequence. ◆ Not dependent on other NLMs. ◆ Not loaded by default.
mapdav.nlm	Novell XTier Mapped Drives DAV Store	
masv.nlm	Mandatory Access Control Service	◆ Provides graded authentication to volumes and ds attributes. ◆ If unloaded, ds.nlm and nss.nlm will not load. ◆ Dependent on nmas.nlm and ds.nlm. ◆ Loaded by default.
mathlib.nlm	NetWare Math Library Auto-Load Stub	required
mathlibc.nlm	NetWare Math Emulator Library Auto-Load Stub	required
mdmcvt.nlm	Modem Script Conversion NLM IP0200.G01	◆ Scripting utility to create and edit modem and login scripts. ◆ Unloaded by default.
mem_cach.nlm	Apache 2.0.44 Memory Cache Sub-Module	
mergecr.nlm	eDirectory Management Tool Box DSMerge eMTool 8.7	required
mergetl.nlm	eDirectory Management Tool Box DSMerge eMTool 8.7	required
miglib.nlm	Migration Library	required
mimemagi.nlm	Apache 2.0.44 Mime Magic Module	
minogw.nlm	Minolta PageScope NDPS Gateway	required
mkc.nlm	MicroKernel Cursor Library	required

Name	Description	Purpose
mkslave.nlm	NetWare NFS - NIS Slave Server Support Utility	◆ Dependent on pkernel.nlm, netdb.nlm, nisbind.nlm, dsapi.nlm, clib.nlm. ◆ Unloaded by default.
mlib.nlm	Java 1.4 Imaging and Media Library for NetWare	
mm.nlm	NetWare 6.1 Media Manager	Executes the following command-line commands: display, list, mm (required)
mmnative.nlm	Media Manager Java Native Methods	required
mod_cach.nlm	Apache 2.0.44 Cache module	
mod_dav.nlm	Apache 2.0.44 DAV module	
mod_edir.nlm	Apache 2.0.44 eDirectory Authorization Module (BETA)	
mod_ipp.nlm	iPrint Module	
mod_jk.nlm	Apache 2.0 plugin for Tomcat	
mod_nsn.nlm	NSN - Apache interface Module	
mod_perl.nlm	Apache 2 extension for running perl scripts and modules	
mod_php.nlm	PHP 4.2.3 - Apache 2.0 Module	
mod_wsi.nlm	Apache WSI Module	
mod_xsrv.nlm	Novell XTier Server (Apache2 Module)	
moddavfs.nlm	Apache 2.0.44 DAV FileSystem Sub-Module	
modlogio.nlm	Apache 2.0.44 IO Logging Module	
module27.nlm	mod_perl-2.0 Extension (Module) XS_version: 0.01	
monitor.nlm	NetWare Console Monitor	◆ Server configuration and statistics. ◆ Dependent on nwsnut.nlm. ◆ Unloaded by default. ◆ For more information, see Monitor in Utilities Reference.

Name	Description	Purpose
mondata.nlm	NetWare 5.x/6.x Monitor MIB	• SNMP agent that provides monitor information.
		• If unloaded, SNMP Manager will not receive monitor information.
		• Dependent on clib.nlm.
		• Unloaded by default.
mpkagent.nlm	NetWare 5.x/6.x MPK Instrumentation	• SNMP Agent that provides MPK information.
		• If unloaded, SNMP Manager will not receive MPK information.
		• Dependent on clib.nlm.
		• Unloaded by default.
mqigatew.nlm	Minolta-QMS, Inc. NDPS Gateway NLM	required
msm.nlm	Novell Multi-Processor Media Support Module	• Media Support Module, used by LAN drivers.
		• Typically cannot be unloaded without unloading the LAN driver.
		• Modules like EtherTSM depend on msm.nlm.
		• Loaded by default.
my_print_defaults.nlm	MySQL Print Defaults Tool	
myisamchk.nlm	MySQL MyISAM Table Check Tool	
myisamlog.nlm	MySQL MyISAM Table Log Tool	
myisampack.nlm	MySQL MyISAM Table Pack Tool	
mysql.nlm	MySQL Monitor	
mysql_install_db.nlm	MySQL Initial Database Installer	
mysqladmin.nlm	MySQL Admin Tool	
mysqlbinlog.nlm	MySQL Binary Log Dump Tool	
mysqlcheck.nlm	MySQL Check Tool	
mysqld.nlm	MySQL Database Server	
mysqld_safe.nlm	MySQL Database Server Monitor	
mysqldump.nlm	MySQL Dump Tool	
mysqlimport.nlm	MySQL Import Tool	
mysqlmanagerc.nlm	need description	
mysqlmanager-pwgen.nlm	need description	

Name	Description	Purpose
mysqlshow.nlm	MySQL Show Tool	
mysqltest.nlm	MySQL Test	
mysql_test_run.nlm	MySQL Test Case Tool	
mysql_waitpid.nlm	need description	

N

Name	Description	Purpose
n_prddat.nlm	n_prddat	required
naasjni.nlm	Novell Advanced Audit Service Agent NLM for JNI components	◆ An interface for Java applications to use NAAS. ◆ Can be unloaded by unloading Java. This will impact the auditing of registered Java services. ◆ Dependent on adagent.nlm. ◆ Loaded by default from autoexec.ncf.
naaskmo.nlm	Novell Advanced Audit Service NLM to Create KMO	required
naaspfx.nlm	Novell Advanced Audit Service Server Certificate Extraction module	◆ Used only for install. ◆ Unloadable by unloading Java. This will impact the communication between NAAS components. ◆ Dependent on npkiapi.nlm and npki.nlm. ◆ Not loaded by default.
named.nlm	eDirectory integrated Novell DNS Server	◆ Provide the DNS server functionality. ◆ Should be always loaded on the NetWare servers which are behaving as a DNS server. Unloading the NLM will make DNS Server services unavailable from the NetWare server. ◆ Dependent on ipmcfg.nlm, snmp.nlm, clib.nlm, tcpip.nlm, netdb.nlm, csatpxy.nlm, and csaudit.nlm. ◆ Unloaded by default.

Name	Description	Purpose
nat.nlm	Novell Network Address Translator (NAT)	◆ Provides Network Address Translation functionality. ◆ If unloaded, internal addresses will be exposed to external world. ◆ Depends on tcpip.nlm for control. ◆ Unloaded by default.
nbi.nlm	NetWare Bus Interface	required
nc.nlm	NControl - NLM Library	required
ncfs.nlm	Novell Remote File System Access Module	
ncfupd.nlm	Update NCF file	required
nciom.nlm	Novell XTier File I/O Manager	
ncm.nlm	Novell Configuration Manager	Manages the Hot Plug system and ensures proper system behavior. Its primary function is to sequence Hot Plug operations to ensure stability of the system. To achieve this function, the Configuration Manager properly shuts down the adapter's device driver before removing power from the slot. The Configuration Manager also maps hardware resources to device driver software. (required)
ncma.nlm	Remote Access Management Agent MOAB.NDK	◆ Netware connect management agent. ◆ Unloaded by default.
ncmcon.nlm	Novell Configuration Manager Console	Provides the interface for controlling all hot plug operations and functions in NetWare systems. In addition, it displays slot configuration details, including adapter driver information and status. It allows you to remove and add PCI Hot Plug Adapters. (required)
ncp.nlm	NetWare Core Protocol (NCP) Engine	Executes the following command-line commands: ncp addresses, ncp dump, ncp stats, ncp trace (required)
ncpfsp.nlm	Novell XTier NCP File System Provider Driver	
ncpip.nlm	NetWare NCP Services over IP	required
ncpipx.nlm	Novell NCP/IPX Stack NLM	required
ncpl.nlm	Novell XTier Base Services	

Name	Description	Purpose
ncpnlm32.nlm	NetWare NWNCP Runtime Library	required
ndo.nlm	NSN - NetWare Data Object	
ndpds.nlm	NDPS Print Device Subsystem for NetWare Servers	• An iPrint gateway. Functions with ph.nlm to provide communication between iPrint and the actual printer for job data and printer status and control. This is an older gateway that provides little or no status and control, but is useful where older protocols are required to communicate with the printer. Protocols supported for job transmission include server-connected parallel and serial ports and Remote Printer (RP) protocol on IPX. LPR on IP is also supported, but is better supported by the ndpsgw nlm gateway. • Unloaded automatically when the print manager shuts down the last Printer Agent for which they are operating. Unloading the ph.nlm will cause an unload of the ndpds.nlm. • The ndpds.nlm is dependent on dplsv386.nlm, pfpnpd.nlm, pfplib.nlm, dsapi.nlm, clib.nlm, the OS and others. Its primary value is through communication with the print manager and the ph.nlm. • Loaded by the print manager when the manager starts a Printer Agent that is configured to use these particular nlms for its gateway. They can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded, and the ph.nlm must be loaded before the ndpds.nlm will load successfully.

Name	Description	Purpose
ndpsgw.nlm	NDPS Gateway for NetWare Servers	• An iPrint gateway. Provides communication between iPrint and the actual printer for both job data and printer status and control. The current version uses LPR-type job transmission and SNMP for status and control. This is the recommended gateway.
		• Unloaded automatically when the print manager shuts down the last Printer Agent for which it is operating. It can also be unloaded manually on a per-PrinterAgent basis or as a whole for test purposes. Doing so will change the status on any affected Printer Agent to "Not Bound [to a Gateway]".
		• The nlm is dependant on dplsv386.nlm, dsapi, clib, winsock2 and Berkeley sockets, the OS and others. Primary value is through communication with the print manager.
		• Loaded by the print manager when the manager starts a Printer Agent that is configured to use this particular nlm for its gateway. It can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded.

Name	Description	Purpose
ndpsm.nlm	NDPS Manager	◆ Provides NDPS print service to NDPS (client32) clients. Supports legacy print queues. Accepts requests from other NLMs that support LPR, iPrint, etc. Accepts management and query requests from jndps.nlm. ◆ If unloaded, NDPS print service is not available. Other print protocols (including iPrint and LPR) are not available. ◆ Interacts with NDPS brokered services: ntfysrvr.nlm, regsrvr.nlm, rmansrvr.nlm. Depends on dplsv386.nlm and dprpcnlm.nlm. Depending on configuration, loads ndpds.nlm, ndpsgw.nlm, ippsrvr.nlm, and lpr2ndps.nlm. ◆ For more information, see NDPS Manager in Utilities Reference.
ndpsmib.nlm	NetWare 5.x/6.x NDPS Resources MIB	required
nds2ldap.nlm	Novell Directory Services nds2ldap	required
nds4.nlm	Novell XTier Directory Manager NDAP Provider	
ndsaudit.nlm	Directory Services Audit	required
ndsilib.nlm	NetWare NFS - eDirectory Interface Library	◆ Dependent on dsapi.nlm, clib.nlm, netdb.nlm, nss.nlm, and nisbind.nlm. ◆ Loaded by default.

Name	Description	Purpose
ndsimon.nlm	NDS iMonitor 2.1.0	• Web-based alternative or replacement for many of Novell's traditional server-based eDirectory tools such as DSBROWSE, DSTRACE, DSDIAG, and the diagnostic features available in DSREPAIR.
		• If unloaded, users will not be able to use a browser to connect to and diagnose the Novell eDirectory server, unless an instance of NDS iMonitor is running on another server that can itself query the affected server.
		Even then, certain privileged functions like repair, trace, and report scheduling will not be available without NDS iMonitor running on the affected server.
		• Direct dependencies on the following modules: sal.nlm, httpstk.nlm, dhost.nlm, and langmani.nlm.
		• Loaded by default.
ndslpp.nlm	Novell XTier NDS Logical Path Provider Driver	
neb.nlm	Novell Event Bus	required
netbasic.nlm	NSN - NetBasic To NSN Redirector	required
netdb.nlm	Network Database Access NLM	• NetWork Database Access Module for DNS and NIS queries.
		• If unloaded, netdb resolution APIs will not be available.
		• Many modules use name resolution APIs of netdb.nlm.
		• Loaded by default, mostly as dependent modules are loaded via autoexec.ncf.
netlib.nlm	Novell TCPIP NETLIB Module	A library of the entire stack of tcp.nlm, tcpip.nlm, bsdsock.nlm NLM-one version which runs with both the secure and non-secure versions of these NLM programs. (required)
netlib11.nlm	mod_perl-2.0 Extension (NetLib) XS_VERSION: 0.01	
netnlm32.nlm	NetWare NWNet Runtime Library	required

Name	Description	Purpose
netstat.nlm	NetWare TCPIP Statistics Command	◆ Prints network connections, routing tables, interface statistics, protocol statistics. ◆ No consequence if unloaded. ◆ Dependent on conman.nlm and netdb.nlm. ◆ Unloaded by default.
nfap4nrm.nlm	NFAP Simple Password Management NLM	required
nfauupg.nlm	NetWare NFS - Configuration Upgrade Utility	◆ Automatically invoked to upgrade the default configuration of NetWare NFS Services 2.x or 3.0 when you choose Native File Access for UNIX while upgrading the operating system from NetWare 4.x or NetWare 5.x to NetWare 6.0. When invoked during installation, the upgrade utility retains the existing configuration into the new configuration files, nfs.cfg, nis.cfg, and nfsserv.cfg located in sys:\etc. The existing configuration files nfsthost, and nfsexprt are retained. During installation, if N4S schema is detected, then the UAM schema will get extended automatically to support features, such as, multiple domain support, RFC2307 compliance for NIS, starting and stopping NIS services from ConsoleOne. ◆ Loaded at install time.
nfsadmin.nlm	NetWare NFS - ConsoleOne Administration Support Module	◆ If unloaded, ConsoleOne administration will not be available. ◆ Dependent on netdb.nlm and pkernel.nlm. ◆ Loaded by default.
nfsclust.nlm	NetWare NFS - Cluster Support Module	◆ If unloaded, NFS functionality in clustered environment will not be available. ◆ Unloaded by default.
niagent.nlm	NIS Remote NLM Services	required
niam.nlm	Novell XTier Identity Manager	

Name	Description	Purpose
nidelay.nlm	NIS Delay	required
nifif.nlm	Novell XTier WebDav iFolder Namespace	
nile.nlm	Novell Secure Socket Services NLM With Debug Symbols	required
nindex.nlm	nindex	required
ninnetbs.nlm	NIS NetBasic Interface	
ninpdatb.nlm	NIS PRODUCTS.DAT Interface	
ninspawn.nlm	NIS Native Spawn Interface	
ninw.nlm	NIS Java Native Library	
nio.nlm	Java nio (based on 1.4.0)	
nipped.nlm	NetWare 5.x, 6.x INF File Editing Library - NIPPED	• INF file editor • Used to read and modify .inf, .ini, and .reg files; integral to print. • Dependent on clib.nlm. • Unloaded by default.
nippzlib.nlm	General Purpose ZIP File Library for NetWare	• Zip and unzip technology used for compress and decompress of driver files. • Integral to print. • Dependent on clib.nlm and zlib.nlm. • Unloaded by default.
nirman.nlm	TCPIP - NetWare Internetworking Remote Manager	• NetWare Remote Manager (NRM) based snap-in for remote configuration of TCP/IP. • If unloaded, remote configuration of TCP/IP through NRM will not be possible. • No hard-coded dependencies. Imports APIs from npkiapi.nlm and portal.nlm. • Loaded by default through ipminit.ncf, which is loaded through autoexec.ncf.
nirmv.nlm	NIS Initialization for UNINSTALL	

Name	Description	Purpose
nisbind.nlm	NetWare NFS - NIS Client Module	◆ Provides NIS client functionality. ◆ Dependent on unicrypt.nlm, netdb.nlm, pkernel.nlm, dsapi.nlm, and clib.nlm. ◆ Loaded by default.
nisetup.nlm	NIS Setup Screen	
nisinst.nlm	NetWare NFS - NIS Server Install Utility	◆ Dependent on ndsilib.nlm. ◆ Loaded at install time.
nisp.nlm	NIS Service Provider	required
nisp2.nlm	NIS Service Provider 2	
nisserv.nlm	NetWare NFS - NIS Server	◆ Network Information Service (NIS) software lets you administer both UNIX and NetWare from a single point, namely eDirectory. ◆ If unloaded, NIS services are not available. ◆ Dependent on unicrypt.nlm, ndsilib.nlm, nisbind.nlm, and nisswdd.nlm. ◆ Loaded by default.
nisswdd.nlm	NetWare NFS - NIS Password Management Support Module	◆ Used to encrypt UNIX passwords. ◆ Dependent on pkernel.nlm, unicrypt.nlm, and nisbind.nlm. ◆ Loaded by default.
nisw.nlm	NativeMethods Java Native Library	
nit.nlm	NetWare Interface Tools Library for NLMs	A library of NetWare interface tools needed by some NLM programs. (required)
nldap.nlm	LDAP Agent for Novell eDirectory 8.7 SP1	required
nldapi.nlm	nldapi	required
nlmlib.nlm	Novell NLM Runtime Library	A library of functions that provide basic runtime support for NLM programs, including POSIX-mandated functionality. (required)

Name	Description	Purpose
nls.nlm	NLS License Service Provider Loader	◆ Autoloads nlslsp.nlm for any legacy applications that originally autoloaded nls.nlm.
		◆ Can be unloaded.
		◆ Depends on CLib and nlslsp.nlm.
		◆ Not loaded by default.
nlsadapt.nlm	NLS and Metering Adapter for iManager Plug-in	◆ Backend component for responding to license management and software usage requests made by the iManager licensing snap-in.
		◆ If unloaded, license management and software usage requests made by the iManager licensing snap-in will fail.
		◆ Depends on clib.nlm, nlsapi.nlm, and nlslrup.nlm.
		◆ Loaded by default.
nlsapi.nlm	NLSAPI	◆ Licensing client library for NLM applications.
		◆ If unloaded, it will be reloaded by polimgr.nlm.
		◆ Depends on clib.nlm.
		◆ Loaded by default.
nlsbtrv.nlm	NLS Btrieve Database Engine	◆ Btrieve database engine used for NLS if set as preferred licensing database engine.
		◆ Cannot be unloaded if loaded by nlslsp.nlm.
		◆ Depends on CLib and Pervasive/ Btrieve.
		◆ Not loaded by default.
nlsflaim.nlm	NLS FLAIM Database Engine	◆ Flaim (Novell) database engine used for NLS if set as preferred licensing database engine.
		◆ Cannot be unloaded if loaded by nlslsp.nlm.
		◆ Depends on CLib.
		◆ Loaded by nlslsp.nlm.

Name	Description	Purpose
nlsi.nlm	NLS Install Library	◆ License system installation and configuration component used by install.nlm when installing and configuring a server. ◆ Automatically loaded during installation and unloaded after installation completes. ◆ Depends on clib.nlm and ds.nlm. ◆ Not loaded by default.
nlslrup.nlm	NLS - Usage Metering	◆ Software usage metering middleware (server-to-server communications and database interface). ◆ Not easily unloaded without unloading a sequence of other NLMs. If unloaded, the software usage metering aspect of iManager will be inaccurate and incomplete. ◆ Depends on libc.nlm, nlsmeter.nlm, and winsock.nlm. ◆ Loaded by default.
nlslsp.nlm	NLS - License Service Provider	◆ License server ◆ If unloaded, it will be reloaded by polimgr.nlm. ◆ Depends on clib.nlm and ds.nlm. ◆ Loaded by default.
nlsmeter.nlm	Software Usage Metering Database	◆ Software usage metering database manager ◆ Not easily unloaded, but if unloaded it is automatically reloaded. ◆ Dependencies on clib.nlm and the Pervasive database engine. ◆ Autoloaded by connaud.nlm and nlslrup.nlm.
nlspauto.nlm	AUTOEXEC.NCF/NETINFO.CFG Update Utility MOAB_NDK	required
nlstrap.nlm	NetWare License Server Trap	◆ SNMP traps for NLS. ◆ If unloaded, specified NLS traps will not be processed. ◆ Depends on CLib. ◆ Loaded by nlslsp.nlm.

Name	Description	Purpose
nlzs.nlm	Novell - Stac LZS Compression Driver	◆ If unloaded, PPP subsystem will not function.
		◆ Unloaded by default.
nmas.nlm	Novell Modular Authentication Service	◆ NMAS server
		◆ Needed for NMAS and universal password.
		◆ Dependent on ds.nlm, gasm.nlm, and masv.nlm.
		◆ Loaded by default.
nmasgpxy.nlm	NMAS Generic Proxy	◆ Allows proxies to invoke NMAS.
		◆ If unloaded, SAS won't run.
		◆ Dependent on nmas.nlm.
		◆ Loaded by default.
nmasinst.nlm	NMAS Install	◆ Utility to configure NMAS and NMAS LSMs.
		◆ Dependent on nmas.nlm, nici.nlm, ds.nlm, and spmdclnt.nlm.
		◆ Unloaded by default.
nmasldap.nlm	NMAS LDAP Extension	◆ NMAS for LDAP support.
		◆ If unloaded, no LDAP support for NMAS.
		◆ Dependent on ldap.nlm, ds.nlm, and nmas.nlm.
		◆ Loaded by default.
nmasmon.nlm	NMAS Monitor	◆ Utility to monitor NMAS activity.
		◆ Dependent on nmas.nlm.
		◆ Unloaded by default.
normaliz.nlm	Perl 5.8.0 - Normalize Extension XS_VERSION: 0.17	
npkiapi.nlm	Public Key Infrastructure Services	◆ Provides current client API interface to the PKI server.
		◆ If unloaded, cannot perform client API access to PKI server, such as through iManager PKI plug-in or through applications written to npkiapi.nlm.
		◆ Dependent on nici.nlm, ldapsdk.nlm, sal.nlm, and dsloader.nlm.
		◆ Loaded by default.

Name	Description	Purpose
npkijni.nlm	Public Key Infrastructure Services	◆ Java Native Interface to npkiapi.nlm.
		◆ If unloaded, cannot perform iManager PKI operations through PKI plug-in.
		◆ Dependent on npkiapi.nlm and its dependencies.
		◆ Unloaded by default.
npkit.nlm	Public Key Infrastructure Services	◆ Provides client API interfaces for certificate validation, PKCS #12 processing, and X.509 certificate parsing.
		◆ If unloaded, cannot perform iManager PKI operations through PKI plug-in and cannot run apps written directly to npkit interface.
		◆ Dependent on nici.nlm, ldapsdk.nlm, and sal.nlm.
		◆ Loaded by default.
npkitjni.nlm	Public Key Infrastructure Services	◆ Java Native Interface to npkit.nlm.
		◆ If unloaded, cannot perform iManager PKI operations through PKI plug-in.
		◆ Dependent on npkit.nlm and its dependencies.
		◆ Unloaded by default.
nprinter.nlm	Network Printer Driver	required
nptd9598.nlm	Network Printer Driver for NEC PC98	
nptdrv95.nlm	Network Printer Driver	
nptr95.nlm	Network Printer Driver Control	
nrggw.nlm	Nrg NDPS Gateway	required
nrobot.nlm	NRobot - 1.1	
ns311.nlm	NControl NLM Slave 311 Specific Library	required
nsadmin.nlm	Novell NetStorage Administrator	
nscm.nlm	Novell XTier Security Context Manager	
nsindex.nlm	NetWare Web Search Indexer	
nslookup.nlm	NSLookup for NetWare	required
nsn2ucs.nlm	NSN - UCS Interface	
nsninit.nlm	NSN - Runtime	required

Name	Description	Purpose
nsns.nlm	Novell XTier Simple Name Service	
nsp.nlm	NSN - Novell ScriptPages Standard Objects	
nspdhcp.nlm	NetWare Winsock 2.0 NSPDHCP.NLM Name Service Providers	required
nspdns.nlm	NetWare Winsock 2.0 NSPDNS.NLM Name Service Providers	required
nspnds.nlm	NetWare Winsock 2.0 NSPNDS.NLM Name Service Provider	required
nspsap.nlm	NetWare Winsock 2.0 NLM NSPSAP.NLM Name Service Provider	required
nspslp.nlm	NetWare Winsock 2.0 NSPSLP.NLM Name Service Provider	required
nsrch21.nlm	NetWare Web Search Console	
nsrchjw.nlm	NetWare Web Search Native Query Qrapper	
nss.nlm	NSS (Novell Storage Services)	The NSS Management Utility that is loaded from the command line of the System Console prompt. This utility gives you limited creation and management of the following NSS components: devices (including RAID), partitions, volumes, and pools. This utility is not meant to replace ConsoleOne, iManager, or any other Web based management utility. This is the only management tool that can access your server from if you accidentally delete or rename volume sys:. (required)
nssidk.nss	NSS Pool Configuration Manager	
nssmib.nlm	NetWare 5.x/6.x NSS MIB	required
nssmngr.nlm	Novell NetStorage Administrator	
nssmu.nlm	NSS Storage Management	required
nsspr.nlm	NSS Protect (Buid 3 MP)	required
nssshim.nlm	Novell Advanced Audit Service Shim for Novell Storage Service	• Used for NSS auditing. • Can't unload. • Dependent on adagent.nlm. • Loaded by default from autoexec.ncf.

Name	Description	Purpose
nsswin.nlm	NSS ASCI Window API Library (Build 186 MP)	required
nterm.nlm	Java - GUI Server Console Native Support Build 030227	
ntermj.nlm	Java - GUI Server Console JNI Support Build 030227	
ntfysrvr.nlm	NDPS Notification Server	◆ NDPS event notification service engine. ◆ If unloaded, event notification reverts to other event notification services that are loaded on the network. These are used by ndpsm.nlm to report events as configured by the administrator. ◆ Loads all *.enm (Event Notification Method) NLMs that are configured .
ntls.nlm	Novell TLS Library	required
ntpdate.nlm	NTPv3 Time/Date Set Utility	◆ Synchronizes time of the time provider and come close enough for xntpd.nlm to run smoothly. ◆ Used before loading xntpd.nlm. ◆ Unloaded by default, but the server can be configured to load this by default.
ntpq.nlm	NTPv3 Query Utility	◆ Queries NTP parameters and progress. ◆ Used when xntpd.nlm is loaded and running on the host machine. Also used in debugging. ◆ Unloaded by default.
ntptrace.nlm	NTPv3 Trace Utility	◆ Queries the essential parameters of all the time providers up to the root. ◆ Used when xntpd.nlm is loaded. Also used in debugging. ◆ Unloaded by default.
nut.nlm	NetWare NLM Utility User Interface	required
nuwagent.nlm	NetWare Upgrade Wizard Agent	required
nvaltdb.nlm	NMVT Alerts Database Install	◆ Install utility ◆ Unloaded by default
nwaif103.nlm	nwaif103.nlm v7.94, Build 251 ()	required

Name	Description	Purpose
nwbsrvcm.nlm	nwbsrvc.nlm v7.90.000, Build 230	required
nwccss.nlm	Character Code Set Support	required
nwconfig.nlm	NetWare Configuration Utility	required
nwenc103.nlm	nwenc103.nlm v7.90.000 (Text Encoding Conversion Library)	required
nwftpd.nlm	NetWare FTP Server	- If unloaded, FTP services will not be available. - Dependent on netdb.nlm, ftpif.nlm, calnlm32.nlm, clxnlm32.nlm, and netnlm32.nlm. - Loaded by default if selected during install.
nwftpd6.nlm	FTP Server	
nwi.nlm	NetWare Install (NWI) Module	required
nwiap.nlm	NetWare Install Application Object (NWIAP) Module	required
nwicf.nlm	NetWare Install Configuration File (NWICF) Module	required
nwicl.nlm	NWI CLIB Context	required
nwidk.nlm	CDWare Volume Module	required
nwids.nlm	NetWare Install Directory Services (NWIDS) Module	required
nwihw.nlm	NetWare Install Hardware (NWIHW) Module	required
nwindexw.nlm	Novell Web Search Native Indexer Wrapper	
nwipr.nlm	NetWare Install Protocol (NWIPR) Module	required
nwiprjv.nlm	Java Native Method Library for nwipr.nlm	
nwirf.nlm	NetWare Install Response File (NWIRF) Module	required
nwitz.nlm	NetWare Install Time Zone (NWITZ) Module	required
nwiws.nlm	NetWare Install WinSock (NWIWS) Module	required
nwiwsjv.nlm	Java Native Method Library for nwiws.nlm	
nwkcfg.nlm	NetWare Kernel Config NLM	required

Name	Description	Purpose
nwmkde.nlm	nwmkde.nlm v7.94.251.000	required
nwpa.nlm	NetWare 6 NetWare Peripheral Architecture NLM	required
nwpaload.nlm	NetWare 5 NWPA Load Utility	required
nwping.nlm	NetWare Ping Command	◆ Network connectivity verification utility. ◆ No consequence if unloaded. ◆ Unloaded by default.
nwpsrv.nlm	NetWare 4.15 Print Services Library - NWPSRV	required
nwrsa.nlm	NetWare Remote Server Access NLM	◆ Allows for basic file system access via NetWare Remote Manager (NRM) on NetWare 4 servers. ◆ If you unload it, NRM will not be able to access the file system on these machines. ◆ This NLM is not useful if portal.nlm and httpstk.nlm are not loaded. Nwrsa.nlm will autoload portal.nlm and httpstk.nlm if they aren't loaded.Nwrsa.nlm is not loaded by default.
nwsdkerr.nlm	NSN - NetWare SDK Error Message Manager	required
nwsec.nlm	Scripting - Security Library	required
nwsnut.nlm	NetWare NLM Utility User Interface	◆ Provides APIs for c-worthy screens. ◆ Many NLMs are dependent on it. ◆ Loaded by default.
nwterm.nlm	Secure Shell/Telnet Terminal Emulation	◆ VT100 and ANSI terminal emulation. ◆ Can't be unload until dependent nlms are unloaded. ◆ Dependent on libc.nlm. ◆ Not loaded by default.
nwtrace.nlm	Traceroute: TCPIP Diagnosis Command	◆ Packet path/route to destination finding utility. ◆ No consequence if unloaded. ◆ Unloaded by default.

Name	Description	Purpose
nwtrap.nlm	NetWare 5.x/6.x Trap Monitor	◆ SNMP agent that maps Netware alerts to traps. ◆ If unloaded, SNMP traps will not be mapped. ◆ Dependent on clib.nlm. ◆ Unloaded by default.
nwucinit.nlm	nwucinit.nlm v1.5 Build 230	required
nwucmgr.nlm	nwucmgr.nlm v1.5 Build 230	required
nwutil.nlm	Novell Utility Library NLM ()	required
nwxlt101.nlm	nwxlt101.nlm	required

O

Name	Description	Purpose
odbc.nlm	Perl 5.8.0 - ODBC Extension XS_version: 0.28	
odineb.nlm	Novell ODI to Novell Event Bus Interface Module	The odineb.nlm is the Open Data-link interface and the Novell Event Bus (NEB) combined into one NLM program that enables NEB to control device drivers. The function of this module is to intercept requests to unload a device driver and ensure that the instance unload function is supported. It prevents false attempts to unload an unsupported driver and eliminated potential failures. (required)
opcode.nlm	Perl 5.8.0 - Opcode Extension XS_version: 1.03	
os10.nlm	mod_perl-2.0 Extension (OS) XS_version: 0.01	

P

Name	Description	Purpose
pack_isam.nlm	MySQL ISAM Table Pack Tool	
parseior.nlm	jBroker ORB Parse IOR Utility	
parser.nlm	Perl 5.8.0 - Parser Extension XS_version: 3.26	Found in \perl\lib\auto\HTML\Parser

Name	Description	Purpose
parser.nlm	NetWare MPR Command Parser	required
partapi.nlm	Partition APIs for NetWare 6.1	required
pcisinfo.nlm	PCI Slot Information for Portal	◆ Provides PCI and hot-plug information to NRM (optional). ◆ If you unload it, statistics for PCI and hot-plug components will not show up in NRM. ◆ This NLM autoloads ncm.nlm and odineb.nlm; not useful without portal.nlm and httpstk.nlm. ◆ Not loaded by default.
pcluster.nlm	Novell Cluster Portal Interface Build Number =0212203	required
peldr.nlm	Portable Executable Loader	required
perl.nlm	Perl 5.8.0 - Script Interpreter for NetWare	required
perl2ucs.nlm	Perl 5.8.0 - Perl2UCS Extension	
perror.nlm	MySQL Error Code Description Tool	
pfplib.nlm	NDPS PerfectFit Printing Library	◆ With pfpnpd.nlm, acts as a library for using npd files which contain general information on a large number of older printers. Used by Novell's older gateway implementation (ndpds.nlm and ph.nlm) and some older third-party gateways. Used by part of the registry server (rmanserv. nlm) in some cases. Usage is being phased out. ◆ Dependent on the CLib nlms. ◆ Loaded as a dependency when ndpds.nlm is loaded. Depended on by and loaded with rmansrvr.nlm.

Name	Description	Purpose
pfpnpd.nlm	NDPS PerfectFit Printing Interface	◆ With pfplib.nlm, acts as a library for using npd files which contain general information on a large number of older printers. Used by Novell's older gateway implementation (ndpds.nlm and ph.nlm) and some older third-party gateways. Used by part of the registry server (rmanserv. nlm) in some cases. Usage is being phased out. ◆ Pfpnpd.nlm is dependent on pfplib.nlm, dplsv386.nlm, and the CLib nlms. ◆ Loaded as a dependency when ndpds.nlm is loaded.
pftdlbs.nlm	Java Class Libraries for NetWare - 4.x Loader Aide	
pgm.nlm	Novell PGM Module	required

Name	Description	Purpose
ph.nlm	NDPS Port Handler for NetWare Servers	◆ An iPrint gateway. Functions with ph.nlm to provide communication between iPrint and the actual printer for job data and printer status and control.
		This is an older gateway that provides little or no status and control, but is useful where older protocols are required to communicate with the printer.
		Protocols supported for job transmission include server-connected parallel and serial ports and Remote Printer (RP) protocol on IPX. LPR on IP is also supported, but is better supported by the ndpsgw nlm gateway.
		◆ Unloaded automatically when the print manager shuts down the last Printer Agent for which they are operating.
		For test purposes, the ph.nlm can also be unloaded manually on a per-PrinterAgent basis and either can be unloaded as a whole. Doing so will change the status on any affected Printer Agent to "Not Bound [to a Gateway]".
		Unloading the ph.nlm will cause an unload of the ndpds.nlm.
		◆ The ph.nlm is dependant on dsapi.nlm, clib.nlm, winsock2 and Berkeley sockets, the OS and others. Its primary value is through communication with the print manager via the ndpds.nlm.
		◆ Loaded by the print manager when the manager starts a Printer Agent that is configured to use these particular nlms for its gateway.
		They can also be loaded manually for test purposes and to get help and current configuration information, but only if the print manager is already loaded, and the ph.nlm must be loaded before the ndpds.nlm will load successfully.
php_ldap.nlm	PHP 4.2.3 - LDAP Extension	
php_xml.nlm	PHP 4.2.3 - XML Extension	

Name	Description	Purpose
phplib.nlm	PHP 4.2.3 - Script Interpreter and Library	
phpmysql.nlm	PHP 4.2.3 - MySQL Extension	
pim.nlm	Protocol Independent Multicast Routing DM Production_13Dec2001	required
ping.nlm	TCPIP Ping Utility 24Jan2000	required
ping6.nlm	Novell IPv6 PING6 Utility IPV6	
pinstall.nlm	NIS PInstall Screen	
pkernel.nlm	NetWare NFS - Portmapper and RPC Module	◆ Dependent on rpcbstub.nlm and dsapi.nlm. ◆ Loaded by default.
pki.nlm	Novell Certificate Server	◆ Provides X.509 Public Key Infrastructure (PKI) services for the server. ◆ If unloaded, cannot mint X.509 certificates, cannot view certificates, and cannot manage certificates. ◆ Dependent on nici.nlm, ldapsdk.nlm, sal.nlm, and dsloader.nlm. ◆ Loaded by default.
pkiapi.nlm	Public Key Infrastructure Services	◆ Provides old client API interface to the PKI server. ◆ If unloaded, cannot perform client API access to PKI server, such as through the ConsoleOne PKI snap-in or through applications written to pkiapi.nlm. ◆ Dependent on nici.nlm, clib.nlm, dsapi.nlm, calnlm32.nlm, clxnlm32.nlm, locnlm32.nlm, nit.nlm, nlmlib.nlm, requestr.nlm, and threads.nlm. ◆ Loaded by default.
pkijni.nlm	Public Key Infrastructure Services Install	
pkisinst.nlm	Public Key Infrastructure Services Install	
plstnsrv.nlm	Novell NDPS Programmatic Event Notification Module	◆ Programmatic notification listener available on NetWare. ◆ Available to any NLM requiring NDPS programmatic notification.

Name	Description	Purpose
pmportal.nlm	NetWare License Information Portal	required
pmysql.nlm	Perl 5.8.0 - mysql Extension XS_version: 2.1017	
polimgr.nlm	Policy Manager Installer	required
pool9.nlm	mod_perl-2.0 Extension (Pool) XS_version: 0.01	
portal.nlm	NetWare Remote Manager NLM	- Along with httpstk.nlm, this is what enables the NRM functionality. - If unloaded, there is no remote management capability; NRM is not accessible. - Dependent on primarily httpstk.nlm; other plug-in modules provide expanded capability. - Loaded by default.
posix.nlm	Perl 5.8.0 - POSIX Extension XS_version: 1.05	
pppcfg.nlm	PPP Configuration Console	- PPP routing configuration snap-in. - Loaded by inetcfg.nlm. - Unloaded by default.
pppcon.nlm	PPP Monitoring Console	- Management console to access PPP interface configuration and statistical information. - Dependent on tui.nlm, nwsnut.nlm, and mathlibc.nlm. - Unloaded by default. - For more information, see PPPCON in Utilities Reference
ppptrace.nlm	PPP Trace Utility	- Console utility to view PPP packet traces. - Dependent on wsm.nlm and lic_api.nlm. - Unloaded by default. - For more information, see PPPTRACE in Utilities Reference.

Name	Description	Purpose
ppptsm.nlm	PPP Topology Specific Module (TSM)	• Implements the PPP protocol subsystem that is present between the CSL and the WAN drivers. • Dependent on dmgmt.nlm, spoofer.nlm, nlzs.nlm, cmpsuper.nlm, and pred.nlm. • Unloaded by default.
pred.nlm	Predictor Compression Driver	• Important for PPP subsystem to work. • Dependent on cmpsuper.nlm. • Unloaded by default.
proces26.nlm	mod_perl-2.0 Extension (Process) XS_version: 0.01	
prodsync.nlm	need description	required
proxy.nlm	Apache 2.0.44 Proxy Module	
proxycon.nlm	Apache 2.0.44 Proxy Connection Sub-Module	
proxyftp.nlm	Apache 2.0.44 Proxy FTP Sub-Module	
proxyhtp.nlm	Apache 2.0.44 Proxy HTTP Sub-Module	
ps2.nlm	Java - PS/2 Mouse Port Driver Build 030227	
pserver.nlm	NetWare Print Server PTF v1.12 (000830)	required
psregsvr.nlm	PCOM Server Registration Utility	
psvcs.nlm	Portability Services	required
ptrace.nlm	P-Class Trace Console	required

Q

Name	Description	Purpose
qfind215.nlm	QuickFinder Engine v2.15.22(v)	

Name	Description	Purpose
qman.nlm	SMS - Backup Queue Manager	◆ Facilitates multiple job scheduling and manages backup queue. ◆ If unloaded no consequence unless a job is scheduled. ◆ Dependent on sbcon.nlm. The user interface can be loaded after you load the Q Manager. ◆ Loaded by default with sbcon.nlm.
queue.nlm	NetWare Queue Services NLM	required

R

Name	Description	Purpose
rconag6.nlm	RConsole Agent for NetWare	◆ Remote access to Netware servers. ◆ Dependent on sas.nlm and tli.nlm. ◆ Unloaded by default. ◆ For more information, see RCONAG6 in Utilities Reference.
rconprxy.nlm	Novell RConsole Proxy v6.00.00	◆ Proxy module for rconag6.nlm. ◆ Dependent on clib.nlm and tli.nlm. ◆ Unloaded by default. ◆ For more information, see RCONPRXY in Utilities Reference.
rdbhost.nlm	Remote Debug Console Host	required
realmtool.nlm	jBroker ORB Realm Tool	
regjni.nlm	Registry Wrapper API	
regserv.nlm	jBroker ORB Register Server Utility	
regsrvr.nlm	NDPS Service Registry Service	◆ At least one SRS must be loaded per network for NDPS Public Access Printers, ENSes, and RMSes to be discoverable. ndpsm.nlm is capable of discovering the ENS and RMS on the same server without an SRS being loaded anywhere. ◆ Dependent on dsapi.nlm, clib.nlm, dprpcnlm.nlm, and calnlm32.nlm. ◆ Unloaded by default.

Name	Description	Purpose
regsvr.nlm	Novell NetStorage Administrator	
remote.nlm	NetWare Remote Console	• IP/IPX remote control. • Unloaded by default.
repaircr.nlm	eDirectory Management Tool Box DSRepair eMTool 8.7	required
repairtl.nlm	eDirectory Management Tool Box DSRepair eMTool 8.7	required
replace.nlm	MySQL Text Replacement Tool	
reques23.nlm	mod_perl-2.0 Extension (RequestUtil) XS_version: 0.01	
reques24.nlm	mod_perl-2.0 Extension (RequestRec) XS_version: 0.01	
reques25.nlm	mod_perl-2.0 Extension (RequestIO) XS_version: 0.01	
requestr.nlm	Novell NCP Requestor for NLMs	A library of functions that make up the NetWare requester. (required)
resolv.nlm	Novell DNS Resolver	
resolve_stack_dump.nlm	need description	
resolveip.nlm	MySQL IP/Hostname Resolve Tool	
respon22.nlm	mod_perl-2.0 Extension (Response) XS_version: 0.01	
rewrite.nlm	Apache 2.0.44 Rewrite Module	
ricohgw.nlm	Ricoh NDPS Gateway	required
rmannpd.nlm	NDPS Resource Manager - NPD Creation Library	• NPD file generation library. • Only needed when new NPD files are generated. After NPDs are created, can be unloaded. • Dependent on pfplib.nlm and clib.nlm. • Unloaded by default. Loaded on demand by rmansrvr.nlm.

Name	Description	Purpose
rmansrvr.nlm	NDPS Resource Manager	◆ NDPS Resource Management Service ◆ At least one RMS must be loaded per network for access to banners, printer drivers, etc. ◆ Dependent on dsapi.nlm, clib.nlm, dprpcnlm.nlm, locnlm32.nlm, unicode.nlm, clxnlm32.nlm, calnlm32.nlm, dplsv386.nlm, nipped.nlm and nippzlib.nlm. Optionally loads rmannpd.nlm ◆ Unloaded by default.
rmi.nlm	Java rmi (based on 1.4.1_01)	
rmi2idl.nlm	jBroker ORB RMI to IDL Compiler	
rmi2iiop.nlm	jBroker ORB RMI to IIOP Compiler	
rollcall.nlm	RollCall NLM (101, API 1.0)	required
rotlogs.nlm	Apache 2.0.44 Log Rotation Utility for NetWare	
routecon.nlm	TCPIP Route Configuration Command	◆ Manually manipulates the routing tables. ◆ No consequence if unloaded. ◆ Dependent on conman.nlm. ◆ Unloaded by default.
rpcbstub.nlm	NetWare NFS - Portmapper and Rpcbind Co-existence Support Module	◆ Loaded by default.
rspx.nlm	NetWare Remote Console SPX Driver	required
rss.nlm	eDirectory Management Tool Box Remote Subscription Service 8.7	required
rsync.nlm	RSync 2.5.5	
rsyncdn.nlm	Semaphore-based NLM Stopper	
rsyncrm.nlm	Novell Nterprise Branch Office RSYNC NRM interface	required

Name	Description	Purpose
rtdm.nlm	NetWare Real Time Data Migration NLM	◆ Real-Time Data Migration support module. ◆ If unloaded, third-party data migration software utilities (CaminoSoft and others) would not function correctly. ◆ No dependencies on other NLMs, but third-party utilities may depend on it for their data migration capability. ◆ Not loaded by default.

S

Name	Description	Purpose
sal.nlm	Novell System Abstraction Layer Version 2.2.0	required
sas.nlm	Secure Authentication Services	required
sasl.nlm	Simple Authentication and Security Layer	◆ Provides Simple Authentication Security Layer (SASL) to LDAP. ◆ If unloaded, no SASL functionality. ◆ Dependent on ldap.nlm, nmas.nlm, and ds.nlm. ◆ Loaded by default.
savingw.nlm	Savin NDPS Gateway	required
sbcon.nlm	SMS - Backup Management Console	◆ The user interface through which you can set the parameters and options for a backup or restore operation. SBCON queues the job request and leaves the rest to the engine. ◆ Unload through interface only. ◆ Dependent on smdr.nlm. ◆ Not loaded by default.
sbd.nlm	Cluster Split Brain Detector Build Number = 02122003	required
sbdlib.nlm	Cluster Split Brain Detector Library Build Number = 02122003	required
scan.nlm	ZLSS Volume Scanner (Build 344 MP)	required

Name	Description	Purpose
sch_ext.nlm	Novell Advanced Audit Service NLM for Schema Extension	◆ Used only for install. ◆ Dependent on ds.nlm. ◆ Not loaded by default.
schemacr.nlm	eDirectory Management Tool Box Schema eMTool 8.7	required
schematl.nlm	eDirectory Management Tool Box Schema eMTool 8.7	required
schhdlr.nlm	Novell Import Convert Export Utility	required
schinst.nlm	NetWare NFS - Schema Extension Utility	◆ Dependent on netdb.nlm. ◆ Loaded at install time.
schmig.nlm	NetWare NFS - RFC 2307 Schema Migration Support Utility	◆ Loaded at install time.
scmd.nlm	Compatibility Mode Driver	required
scp.nlm	OpenSSH scp client (NICI)	◆ Scp (secure copy) client ◆ If unloaded, connection to ssh server will be dropped. ◆ Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and ssh.nlm. ◆ Not loaded by default.
scrcb.nlm	CLIB context provider for mod_perl & mod_nsn	required
scrsaver.nlm	NetWare 6 Screen Saver	◆ Dependent on nwsnut.nlm and clib.nlm. ◆ Unloaded by default. ◆ For more information, see SCRSAVER in Utilities Reference.
sdbm_fil.nlm	Perl 5.8.0 - SDBM_File Extension XS_version: 1.03	
secure.nlm	eDirectory Management Tool Box Security Service 8.7	required

Name	Description	Purpose
server.exe	Core Server Executable	◆ The following modules are bound into server.exe: server.nlm, pver500.nlm, and pmlodr.nlm. ◆ They cannot be unloaded; they are part of the core server executable. ◆ They depend on each other. ◆ For more information, see Server in Utilities Reference.
server20.nlm	mod_perl-2.0 Extension (ServerUtil) XS_version: 0.01	
server21.nlm	mod_perl-2.0 Extension (Server) XS_version: 0.01	
servictl.nlm	eDirectory Management Tool Box DSService eMTool 8.7	required
servinst.nlm	NetWare 5.x/6.x Instrumentation	◆ SNMP agent that implements the NetWare server MIB. ◆ If unloaded, the SNMP Manager will not get this information. ◆ Dependent on clib.nlm. ◆ Unloaded by default.
servman.nlm	NetWare 5 ServMan Shim	required
setbg.nlm	Java - X Window Set Background Frontend Build 030227	
setbgj.nlm	Java - JNI Set Background Build 030227	
setmd4.nlm	Windows Native File Access CIFS Library (Build 25 SP)	required
setupnls.nlm	NLS Setup	◆ Server utility used for license system installation and configuration. ◆ Not a problem if unloaded. ◆ Depends on nwsnut.nlm, clib.nlm, and nlsi.nlm. ◆ Not loaded by default.
setxkbmap.nlm	Java - Keyboard mapping utility for x Build 030227	

Name	Description	Purpose
sftp.nlm	OpenSSH sftp client (NICI)	◆ Sftp (secure ftp) client. ◆ If unloaded, connection to ssh server will be dropped. ◆ Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and ssh.nlm. ◆ Not loaded by default.
sftp-svr.nlm	OpenSSH sftp server (NICI)	◆ Services sftp clients. Loaded by sshd.nlm. ◆ If unloaded, sftp client connection being serviced will be dropped. ◆ Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. ◆ Not loaded by default.
sguid.nlm	NetWare 5 GUID Services	required
showlogo.nlm	Novell Logo Viewer	required
silexgw.nlm	Silex technology NDPS Gateway	required
silvercachemgr.nlm	Silverstream Command-line Loader for SilverCacheMgr	
silvercmd.nlm	silvercmd.nlm (exteNd AppServer Tool)	
silverdebugger.nlm	silverdebugger.nlm	
silverdispatcher.nlm	silverdispatcher.nlm	
silverj2eeclient.nlm	silverj2eeclient.nlm	
silverlaunch.nlm	silverlaunch.nlm	
silverloadmgr.nlm	silverloadmgr.nlm (Load Balancer)	
silvermasterinit.nlm	silvermasterinit.nlm (Initialize database for exteNd AppServer)	
silverserver.nlm	silverserver.nlm (exteNd AppServer)	
sjava.nlm	Stays loaded until the Java process terminates	

Name	Description	Purpose
slp.nlm	Service Location Protocol (RFC2165/ RFC2608)	◆ Executes the following command-line commands: display slp addresses, display slp attributes, display slp da, display slp info, display slp services, display slp types, slp addresses, slp attributes, slp close, slp da, slp info, slp open, slp services, and slp types. ◆ If unloaded, no service location support. ◆ Loaded by default.
slpda.nlm	Service Location NDS Directory Agent (RFC2165/RFC2608)	◆ If unloaded, no service location directory agent support. ◆ Dependent on slp.nlm. ◆ Unloaded by default.
slptcp.nlm	Service Location TCP/UDP Interface (RFC2165/RFC2608)	◆ If unloaded, no service location support over IP. ◆ Dependent on slp.nlm. ◆ Loaded when slp.nlm is loaded and at least one bound IP address.
smc.nlm	Server Management Console (SMC)	
smdr.nlm	SMS - Storage Management Data Requestor	◆ Communication module in the SMS architecture. Provides remote connectivity and abstracts the details of any communication between servers. Provides transparent access to SMS services in an intranet as it allows access to local or remote SMS services. Uses TCP Port Number 413. ◆ If unloaded, no consequence if there is no active connection. ◆ The smdr.nlm APIs are used by sbcon.nlm and other third-party applications as well. ◆ Not loaded by default.

Name	Description	Purpose
sme.nlm	SMS - Backup Management Engine	• Storage Management Engine (SME) is central to the SMS architecture and is the core used for backup and restore operations. SME is the controller which actually initiates and calls into functionality provided by other modules of SMS. • If unloaded, no consequence if no job is active. • Dependent on sbcon.nlm. • Loaded by default.
smsdi.nlm	SMS - Backup Device Interface	• Provides a common view of all media devices, such as tapes. Provides a device independent interface to other modules that need to interact with a media device. • Loaded automatically on the server by qman.nlm. • If unloaded, no consequence if no job is active. • Dependent on sbcon.nlm. • Loaded by default.
snmp.nlm	NetWare 4.x/5.x/6.x SNMP Service	• SNMP implementation on NetWare. • Cannot unload it. • Dependent on clib.nlm. • Loaded by default.
snmpinst.nlm	SNMPINST for Novell eDirectory 8.7.0	required
snmplog.nlm	NetWare 4.x/5.x/6.x SNMP Trap Logging Service	• SNMP trap logging NLM. • If unloaded, traps cannot be received. • Dependent on snmp.nlm and clib.nlm. • Unloaded by default.
soaps11.nlm	XML Integration Service	required
sockadd8.nlm	mod_perl-2.0 Extension (SockAddr) XS_version: 0.01	
socket.nlm	Perl 5.8.0 - Socket Extension XS_version: 1.75	
socket7.nlm	mod_perl-2.0 Extension (Socket) XS_version: 0.01	

Name	Description	Purpose
speling.nlm	Apache 2.0.44 Speling Module	
spinst.nlm	NetWare NFS - Upgrade and Cluster Enabling Support Utility	◆ Unloaded by default.
spmdclnt.nlm	Novell SPM Client for DClient	◆ Universal password management support. ◆ If unloaded, no support for universal password. ◆ Dependent on nmas.nlm and ds.nlm. ◆ Loaded by default.
spmnwcc.nlm	Novell SPM Client for NWCC	◆ DSAPI version of spmdclnt.nlm. ◆ If unloaded, no universal password support. ◆ Dependent on nmas.nlm and ds.nlm. ◆ Loaded by default.
spoofer.nlm	SPOOFER	◆ Spoofing utility ◆ Unloaded by default
spxconfg.nlm	SPX Configuration Control Program	required
spxs.nlm	NetWare SPX/SPXII Protocol (PTF)	required
srtcfg.nlm	Source Route Configuration Console, MOAB_NDK_1	required
ssh.nlm	OpenSSH client (NICI)	◆ OpenSSH client program ported to NetWare that is used to log into another computer or to execute commands on another computer. ◆ If unloaded, connection to ssh server will be dropped. ◆ Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. ◆ Not loaded by default.
sshd.nlm	OpenSSH Daemon (NICI)	◆ Listens for ssh client connections and services them. ◆ If unloaded, all ssh client connections will be dropped. No new ssh connections can be established. ◆ Dependent on libc.nlm, sshlogd.nlm, nwterm.nlm, and lldapssl.nlm. ◆ Not loaded by default.

Name	Description	Purpose
sshjni.nlm	Secure Shell JNI Web Support	◆ Provides support for OpenSSH Manager. ◆ Can't be unload until dependent nlms are unloaded. ◆ Dependent on clib.nlm and sshlogd.nlm. ◆ Not loaded by default.
ssh-kgen.nlm	OpenSSH Key Generation Utility (NICI)	◆ Generates OpenSSH key pairs. ◆ If unloaded, key being generated will not be completed. ◆ Dependent on libc.nlm, sshlogd.nlm, and nwterm.nlm. ◆ Not loaded by default.
sshlogd.nlm	Secure Shell Log Daemon	◆ The daemon (program) that services OpenSSH requests to log SSH activity on the NetWare server. ◆ Can't be unloaded until dependent nlms are unloaded. ◆ Dependent on clib.nlm. ◆ Not loaded by default.
startserv.nlm	jBroker ORB Start Server Utility	
static6.nlm	Novell SR6 Module Ripple Release	
staticon.nlm	IPX Static Route Configuration Utility	required
status.nlm	Apache 2.0.44 Status Module	
statuslg.nlm	Report and notification service	required
stopnfs.nlm	NetWare NFS - Unload Support Module	◆ Unloaded by default.
stopserv.nlm	jBroker ORB Stop Server Utility	
storable.nlm	Perl 5.8.0 - Storable Extension XS_version: 2.04	
streams.nlm	NetWare STREAMS PTF	required
string6.nlm	mod_perl-2.0 Extension (String) XS_version: 0.01	
subpro19.nlm	mod_perl-2.0 Extension (SubProcess) XS_version: 0.01	
subreq18.nlm	mod_perl-2.0 Extension (SubRequest) XS_version: 0.01	
svccost.nlm	Novell XTier Service Costing Module	

Name	Description	Purpose
syscalls.nlm	NetWare Operating System Call and Marshalling Library	◆ Part of the marshalling layer, which allows modules running in protected memory (Ring 3) to communicate with the kernel (Ring 0). ◆ If unloaded, no protected memory functionality. ◆ Nearly every module that loads and runs in Ring 3 requires this module. ◆ Loaded by default.
syslog.nlm	NetWare Logfile Manager	required

T

Name	Description	Purpose
table5.nlm	mod_perl-2.0 Extension (Table) XS_version: 0.01	
tar.nlm	GNU Tar - Watcom	required
tcp.nlm	Novell TCP/IP Stack - Transport module (NULL encryption)	◆ Provides Transport-layer TCP and UDP interfaces. ◆ Cannot be unloaded. ◆ Dependent on all applications written over Transport Layer. ◆ Loaded by default.
tcpcfg.nlm	Novell TCPIP Configuration	A utility used to configure the TCP/IP stack. (required)
tcpcon.nlm	Novell TCPIP Monitoring Console	TCPCON is an NLM utility that provides access to statistics and information about the status of various components of the TCP/IP protocol suite. TCPCON uses SNMP to access this information from any local or remote system on the network. TCPCON operates over TCP/IP and IPX networks. (required)
tcpip.nlm	Novell TCP/IP Stack - Network module (NULL encryption)	◆ Provides IP, ICMP, IGMP, Routing, and other Network-layer protocols. ◆ Cannot be unloaded. ◆ Dependent on all applications using TCPIP layer. ◆ Loaded by default.

Name	Description	Purpose
tcpstats.nlm	Web Interface for Protocol Monitoring	- NRM based snap-in for remote monitoring of Protocol Information - If unloaded, remote monitoring of TCP/IP and other related protocols will not be possible. - No hard-coded dependencies. Imports APIs from portal.nlm. - Loaded by default through ipminit.ncf, which is loaded through autoexec.ncf.
techwalk.nlm	MPR Technical Support Capture Utility For NetWare	(required)
telnet.nlm	Telnet Client	- No consequence if unloaded. - Dependent on libc.nlm and nwterm.nlm. - Not loaded by default.
telnetd.nlm	Telnet daemon for XConsole and TN3270	- Telnet Daemon to access NetWare Server Console throough Telnet protocol. - If unloaded, Telnet services will not be available. - Dependent on remote.nlm. - Loaded by default if enabled in inetcfg.
testpat.nlm	Java - X11 Graphics Test Pattern Generator Build 030227	
thread.nlm	Perl 5.8.0 - Thread Extension XS_version: 2.00	
threads.nlm	Novell Threads Package for NLMs	A library of functions that constitute the NetWare threads package. (required)
timesync.nlm	NetWare Time Synchronization Services	required
tli.nlm	NetWare Transport Level Interface Library	required
tnamesrv.nlm	jBroker ORB Transient Name Service	
tokentsm.nlm	Novell Token-Ring Topology Specific Module	required
tping.nlm	TCPIP TPING Utility Production_25Jan2002	required
trustbar.nlm	TrustBar	required

Name	Description	Purpose
tsafs.nlm	SMS - File System Agent for NetWare 6.5	◆ Target Service Agent (TSA) provides transparency by abstracting details of the specific target being backed up. TSAFS is the file system target service agent that is capable of providing transparent access to the legacy or NSS file systems on NetWare 6.5. ◆ If unloaded, no consequence if a job isn't active. ◆ Dependent on smdr.nlm. ◆ Not loaded by default.
tsands.nlm	TSA for Novell eDirectory 7.x, 8.x	required
tsatest.nlm	TSA Test with statistical analysis	◆ No consequence if unloaded. ◆ Dependent on tsafs.nlm. ◆ Not loaded by default.
tui.nlm	Textual User Interface MOAB_B40.528	required
type.nlm	Perl 5.0.8 - DOS Type emulation for Perl testing	required
typemap.nlm	Perl 5.8.0 - Typemap Extension XS_version: 0.01	
tzjv.nlm	Java Native Method Library for nwitz.nlm	

U

Name	Description	Purpose
ucs2java.nlm	Novell UCS - Java Provider	required
ucs2rmt.nlm	Novell UCS - Remote ActiveX Provider	required
ucs2ucx.nlm	Novell UCS - UCX Provider	required
ucscore.nlm	Novell UCS Core NLM	required
ucxmgr.nlm	NSN - UCX Library Manager	required
uinstall.nlm	NetWare Generic Product Uninstall NLM	required
ukbdshim.nlm	Novell USB Keyboard Shim	required
umsshim.nlm	Novell USB Mouse Shim	required

Name	Description	Purpose
uni_1250.nlm	NetWare Unicode conversion API for code page 1250, V1.01	required
uni_1251.nlm	NetWare Unicode conversion API for code page 1251, V1.01	required
uni_1252.nlm	NetWare Unicode conversion API for code page 1252, V1.01	required
uni_1253.nlm	NetWare Unicode conversion API for code page 1253, V1.01	required
uni_1254.nlm	NetWare Unicode conversion API for code page 1254, V1.01	required
uni_1255.nlm	NetWare Unicode conversion API for code page 1255, V1.01	required
uni_1256.nlm	NetWare Unicode conversion API for code page 1256, V1.01	required
uni_1257.nlm	NetWare Unicode conversion API for code page 1257, V1.01	required
uni_1258.nlm	NetWare Unicode conversion API for code page 1258, V1.01	required
uni_437.nlm	NetWare Unicode conversion API for code page 437, V1.01	required
uni_737.nlm	NetWare Unicode conversion API for code page 737, V1.01	required
uni_775.nlm	NetWare Unicode conversion API for code page 775, V1.01	required
uni_850.nlm	NetWare Unicode conversion API for code page 850, V1.01	required
uni_852.nlm	NetWare Unicode conversion API for code page 852, V1.01	required
uni_855.nlm	NetWare Unicode conversion API for code page 855, V1.01	required
uni_857.nlm	NetWare Unicode conversion API for code page 857, V1.01	required
uni_860.nlm	NetWare Unicode conversion API for code page 860, V1.01	required
uni_861.nlm	NetWare Unicode conversion API for code page 861, V1.01	required
uni_862.nlm	NetWare Unicode conversion API for code page 862, V1.01	required
uni_863.nlm	NetWare Unicode conversion API for code page 863, V1.01	required

Name	Description	Purpose
uni_864.nlm	NetWare Unicode conversion API for code page 864, V1.01	required
uni_865.nlm	NetWare Unicode conversion API for code page 865, V1.01	required
uni_866.nlm	NetWare Unicode conversion API for code page 866, V1.01	required
uni_874.nlm	NetWare Unicode conversion API for code page 874, V1.01	required
uni_932.nlm	NetWare Unicode conversion API for code page 932, V1.01	required
uni_936.nlm	NetWare Unicode conversion API for code page 936, V1.01	required
uni_949.nlm	NetWare Unicode conversion API for code page 949, V1.01	required
uni_950.nlm	NetWare Unicode conversion API for code page 950, V1.01	required
uni_mon.nlm	NetWare Unicode Lower Case API, V1.01	required
uni_upr.nlm	NetWare Unicode Upper Case API, V1.01	required
unicode.nlm	NetWare Unicode Runtime Library	required
unicrypt.nlm	TCP/IP Encryption NLM	◆ NIS Encryption Support Module. ◆ Loaded by default.
uninstif.nlm	uninstif	
uniqueid.nlm	Apache 2.0.44 Unique ID Module	
unregsrv.nlm	jBroker ORB Un-register Server Utility	
unzip.nlm	unzip utility	required
updncf.nlm	Novell Advanced Audit Service NLM to Update autoexec.ncf file	◆ This is a executable and will not stay in memory . ◆ Not loaded by default.
ups_aio.nlm	NetWare Serial Port UPS Monitor	◆ Server port UPS interface. ◆ Dependent on aio.nlm. ◆ Unloaded by default. ◆ For more information, see UPS_AIO in Utilities Reference.
uri17.nlm	mod_perl-2.0 Extension (URI) XS_VERSION: 0.01	

Name	Description	Purpose
uri4.nlm	mod_perl-2.0 Extension (URI) XS_VERSION: 0.01	
userlib.nlm	NetWare Operating System Function Library	◆ Library of functions used by modules running in protected memory (Ring3). ◆ If unloaded, there is no protected memory functionality. ◆ Most modules in protected memory require the functionality provided by userlib.nlm. ◆ Loaded by default.
usertrk.nlm	Apache 2.0.44 User Track Module	
util.nlm	Perl 5.8.0 - Util Extension XS_VERSION: 1.07_00	
util0.nlm	mod_perl-2.0 Extension (Util) XS_VERSION: 0.01	
util16.nlm	mod_perl-2.0 Extension (Util) XS_VERSION: 0.01	
util3.nlm	mod_perl-2.0 Extension (Util) XS_VERSION: 0.01	
utiljv.nlm	Java Native Method Library for Misc. Functions	
utilldap.nlm	Apache 2.0.44 LDAP Authentication Module	
uuid2.nlm	mod_perl-2.0 Extension (UUID) XS_VERSION: 0.01	

V

Name	Description	Purpose
v_long.nlm	NetWare Volume Repair Long Name Space Support	◆ Dependent on vrepair.nlm. ◆ Unloaded by default.
v_mac.nlm	NetWare Volume Repair MAC Name Space Support	◆ Dependent on vrepair.nlm. ◆ Unloaded by default.

Name	Description	Purpose
v_nfs.nlm	VRepair NFS Name Space Support	- Vrepair.nlm support module for NFS NameSpace for traditional volumes. - If unloaded, repair of NFS NameSpace on traditional volumes is not possible. - Dependent on vrepair.nlm, which verifies and loads and unloads this nlm. - Unloaded by default.
vcu.nlm	NSS Volume Copy Upgrade (Build 246 MP)	Lets you - Copy and restore NSS volumes. - Determine whether IRFs were moved correctly during a copy or restore. - Rename an NSS volume's default eDirectory object. For more information, see the *Storage Services Administration Guide* in the NetWare 6.5 online documentation. (required)
vdqad.nlm	DFS Volume Location Database (VLDB) (Build 412 MP)	required
verdump.nlm	VERDUMP - Version Display Utility	required
verify.nlm	Java verify (based on 1.4.1_01)	
vesa.nlm	Java - VESA JNI Build 030227	
vgadisp.nlm	NetWare 5.x Font Processor	required
vhost.nlm	Apache 2.0.44 Vhost Alias Module	
view.nlm	Textual User Interface	- Netware file viewer. - Unloaded by default. - For more information, see VIEW in Utilities Reference.
vipx.nlm	Virtual Interface Architecture Extensions Build Number = 02122003	required
vldb.nlm	DFS Volume Location Database (VLDB) (Build 417 MP)	required
vll.nlm	Novell VI Architecture Link Layer Build Number = 02122003	required
vlmsg.nlm	DFS Volume Location Database (VLDB) (Build 417 MP)	required

Name	Description	Purpose
vlrpc.nlm	DFS Volume Location Database (VLDB) RPC Interface (Build 360 MP)	required
vlrpr.nlm	DFS Volume Location Database (VLDB) Repair (Build 417 MP)	required
vls.nlm	Novell XTier Volume Location Service	
vmrpc.nlm	DFS Volume Manager RPC Interface (Build 225 MP)	required
volagent.nlm	NetWare 5.0 Directory Services Volume Agent	required
volsms.nlm	NSS Distributed Volume Manager (Build 113 MP)	required
vrepair.nlm	NetWare Volume Repair Utility	◆ Traditional volume repair utility. ◆ Dependent on nwsnut.nlm. ◆ Unloaded by default. ◆ For more information, see VREPAIR in Utilities Reference.

W

Name	Description	Purpose
w0inst.nlm	PKI: W0 Install	
w0jni.nlm	PKI: W0 Install JNI layer	
whaiocfg.nlm	WHSMAIO Board Configuration	◆ WHSMAIO board configuration snap-in. ◆ Dependent on aio.nlm. ◆ Unloaded by default.
whois.nlm	Whois: TCPIP Diagnosis Command	◆ Internet domain name and network number directory service. ◆ No consequence if unloaded. ◆ Unloaded by default.
wnicsmem.nlm	WNIC Shared Memory Utility MOAB_NDK	required
wpsd.nlm	ServiceDescriptor Natives NLM	
ws2_32.nlm	NetWare Winsock 2.0 NLM	
wsm.nlm	WAN Support Module	◆ Loaded when WAN interfaces are configured. ◆ Unloaded by default.

Name	Description	Purpose
wspdsi.nlm	NetWare Winsock Service 1.0 NLM for Data Stream Interface	required
wspip.nlm	NetWare Winsock Service 1.0 NLM for TCP and UDP	required
wspipx.nlm	NetWare Winsock Service 1.0 NLM for IPX and SPX	required
wspssl.nlm	NetWare Winsock Service 1.0 NLM for SSL	required
wtm.nlm	NetWare WAN Traffic Management Utility	required

X

Name	Description	Purpose
xaccel.nlm	Java - Accelerated-X Display Server	
xconsole.nlm	NetWare - Xconsole Loader	• Telnet Support Module • If unloaded, Telnet services will not be available. • Dependent on telnetd.nlm and remote.nlm. • Loaded by default if enabled in inetcfg.
xconssrv.nlm	XConsole: Remote Administration Utility	• Telnet Support Module • If unloaded, Telnet services will not be available. • Dependent on telnetd.nlm and remote.nlm. • Loaded by default if enabled in inetcfg.
xdav.nlm	Novell XTier WebDAV Handler	
xeroxpnp.nlm	NDPS Plug and Print for Xerox Printers	required
xfile.nlm	Novell XTier NetWare FileSystem Handler	
xgateway.nlm	NDPS Gateway for Xerox Printers	required
xhost.nlm	Java - X Window server access control program Build 030227	
xi18n.nlm	Novell Cross-Platform Internationalization Package	required

Name	Description	Purpose
xidev.nlm	Java - X Window Input Driver Build 030227	
xinit.nlm	Java - X Window Systems Initializer Build 030227	
xis11.nlm	XML Integration Service	required
xlib.nlm	Java - XFree86 4.X X11R6 Library (LIBC) Build 030227	
xminit.nlm	Java - Motif Toolkit Init utility Build 030227	
xmlparse.nlm	expat - XML Toolkit Parser Toolkit v1.2 Copyright (c) 1998 1999 2000 Thai Open Source Software Center Ltd.	
xmnterm.nlm	Java - GUI Server Console Native Support Build 030227	
xmodmap.nlm	Java - Keyboard/Pointer modifier utility for X Build 021009	
xnfs.nlm	NetWare NFS - NFS Server for NetWare 6.5	◆ Provides NFS Server functionality on NetWare 6.5. ◆ If unloaded, NFS File Services will not be available. ◆ Dependent on ndsilib.nlm. ◆ Loaded by default.
xntpd.nlm	NTPv3 Time Synchronization Service	◆ Synchronizes time; runs like a daemon constantly. ◆ If unloaded, time will not be syncrhonized and DS will report "Time not synchronized." ◆ Loaded and initialized before DS and other applications that need time to be synchronized. ◆ Unloaded by default, but the server can be configured to load this NLM by default. By default, timesync.nlm is loaded.
xntpdc.nlm	NTPv3 Query/Remote Configuration Tool	◆ Used to remotely configure a server running xntpd.nlm. ◆ The server you are managing should have xntpd.nlm running. ◆ Unloaded by default.
xprndrv.nlm	Xerox Print Driver Un/Installer for NetWare	required

Name	Description	Purpose
xscrdump.nlm	Java - X Window Screen dump Utility Build 030227	
xset.nlm	Java - User Preference Utility for X Build 030227	
xsetbg.nlm	Java - X11 Image Loading Utility Build 030227	
xsetroot.nlm	Java - Root window parameter setting utility for X Build 030227	
xtaddr.nlm	Novell ZEN Address Update Handler	
xtlog.nlm	Novell XTier Logger	
xtncp.nlm	Novell XTier NCP Session Layer Driver	
xtnetid.nlm	Novell XTier NetIdentity Password Module	
xtutil.nlm	Novell XTier Utility Functions	
xvesa.nlm	Java - XFree86 4.2.0 Kdrive VESA XServer Build 030227	

Y

Name	Description	Purpose
ypcat.nlm	NetWare NFS - Ypcat Utility to display contents of a specified NIS map	◆ Provides a "YPALL" for an NIS domain. ◆ Dependent on nisbind.nlm. ◆ Unloaded by default.
ypmatch.nlm	NetWare NFS - Ypmatch to lookup and display an NIS Record	◆ Finds an entry in the NIS domain. ◆ Dependent on nisbind.nlm. ◆ Unloaded by default.
yppush.nlm	NetWare NFS - Yppush Utility to initiate NIS Map Replication	◆ Used by the master server to distribute data to slave databases. ◆ Dependent on nisbind.nlm. ◆ Unloaded by default.
ypset.nlm	NetWare NFS - Ypset Utility to set NIS Domain and Server	◆ Binds to a domain. ◆ Dependent on nisbind.nlm. ◆ Unloaded by default.

Name	Description	Purpose
ypwhich.nlm	NetWare NFS - Ypwhich Utility to Query Map Information	◆ Dependent on nisbind.nlm. ◆ Unloaded by default.
ypxfr.nlm	NetWare NFS - Ypxfr Utility to Replicate NIS Maps	◆ Used by slave NIS to find the master server. ◆ Dependent on nisbind.nlm. ◆ Unloaded by default.

Z

Name	Description	Purpose
zip.nlm	Java Zip (based on 1.4.1_01)	
zlib.nlm	ZLIB 1.1.4 General Purpose Compression Library for NetWare	◆ General Purpose Compression Library, freeware by Jean-Loup Gailly and Mark Adler ported to NetWare by Novell, Inc. ◆ Required by Print (Driver upload/download in rmansrvr.nlm) and nippzlib.nlm. ◆ Dependent on clib.nlm. ◆ Unloaded by default.
zone.nlm	Novell Import Convert Export Utility	◆ Performs the import and export of the DNS configuration and data. ◆ Loaded when ice.nlm is loaded with zone as the source handler for the import operation and zone as both the source and destination handler for the export operation. NLM will be unloaded once the import or the export operation completes. ◆ Dependent on ice.nlm and ldaphldr.nlm. ◆ Unloaded by default.