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Release notes for Nortel NetID Version 4.5

Version 4.5
June 2005

3500 Carling Avenue
Ottawa, ON
CANADA

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Contents

Release Notes for Nortel NetID Version 4.5

These release notes apply to version 4.5 of the Nortel NetID product family, which includes the following server products:

- NetID Application Server
- NetID DHCP Server
- NetID DNS Server
- NetID Server Manager

The NetID product family also includes the NetID Management Console that you can run using a Java® compliant Netscape Communicator® or Microsoft® Internet Explorer Web browser.

These release notes contain the following information:

New features in the NetID product family

The NetID 4.5-series product family includes the following new features:

- BIND 9.3.1 support. The NetID Name Server supports many BIND 9 directives, including Incremental Zone Transfer (IXFR). The BIND 9.3.1 code includes the new delegation-only zone type, as well as a number of bug fixes. For a list of unsupported BIND directives in NetID, refer to "Unsupported BIND 9 directives" on page 17.

- Log rollover support for all servers. For information on implementing this feature, refer to "Log file rollover feature for NetID servers" on page 16.

- Upgraded database support: Oracle 10g and Sybase 12.5.3.

- Solaris 2.10 support.

- Sun Java Runtime Engine (JRE) 5.0 support.

- BIND Controller metrics collection. Provides a comprehensive view of the NetID system status at run time.

Related publications

For more information about using NetID, refer to the following publications:

- *Installing Nortel NetID* (part number 310209-4.5 Rev 00)

  Provides NetID administrators information about installing and configuring NetID software.

- *Managing IP Addressing in Nortel NetID* (part number 310210-4.5 Rev 00)

  Provides overview and procedural information for NetID administrators and NetID users about setting up and managing a system of IP addressing for a network, using DNS and DHCP.

- *Managing Nortel NetID Server Products* (part number 310207-4.5 (Rev 00)

  Provides NetID administrators information about starting, running, and stopping the Application Server, BIND Controller, DHCP Server, and Server Manager.

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How to get help

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel service program, please contact one of the Nortel Technical Solutions Centers. For technical support contact numbers for your region, go to www.nortel.com/help/contact/global.

An Express Routing Code (ERC) is available for many Nortel products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, go to the http://www.nortel.com/help/contact/erc/index.html URL.

System requirements

Table 1 lists the system requirements for NetID products running on Windows systems. The latest patches for the operating systems supported by NetID must be installed to ensure that NetID products operate as designed.

Table 1 System requirements for Windows

Product	Platform/operating system	Software dependencies	RAM	Disk space
NetID Application Server	Pentium®4, 1.4 GHz (or better) PC Windows 2000 Server or Windows 2003 Server	Oracle 9i client kit (for more information, refer to "Oracle 9i Client Kit" on page 17). Sybase® 12.5.3	512 MB	15 MB
NetID DHCP Server	Pentium®4, 1.4 GHz (or better) PC Windows 2000 Server or Windows 2003 Server	not applicable	256 MB	10 MB
NetID DNS Server	Pentium®4, 1.4 GHz (or better) PC Windows 2000 Server or Windows 2003 Server	not applicable	512 MB	10 MB
NetID Management Console	not applicable	Sun JRE 1.4.2 or 5.0 Netscape 7 series (on Windows or UNIX systems) or Internet Explorer 6 series (on Windows systems only)	n/a	n/a
NetID Server Manager	Pentium®4, 1.4 GHz (or better) PC Windows 2000 Server or Windows 2003 Server	Oracle 9i client kit (for more information, refer to "Oracle 9i Client Kit" on page 17). Sybase® 12.5.3	512 MB	15 MB

Table 2 lists the system requirements for NetID products running on UNIX®. The latest patches for the operating systems supported by NetID must be installed to ensure that NetID products operate as designed.

Table 2 System requirements for UNIX

Product	Platform/operating system	Software dependencies	RAM	Disk space
NetID Application Server	Sun® UltraSPARC® (or better) Solaris 2.8/2.9/2.10 or HP 9000/700 (or better) HP-UX® 11i	Oracle 9i client kit (for more information, refer to "Oracle 9i Client Kit" on page 17). Sybase 12.5.3	512 MB	65 MB
NetID DHCP Server	Sun UltraSPARC (or better) Solaris 2.8/2.9/2.10 or HP 9000/700 (or better) HP-UX 11i	not applicable	256 MB	10 MB
NetID BIND Controller and Name Server	Sun UltraSPARC (or better) Solaris 2.8/2.9/2.10 or HP 9000/700 (or better) HP-UX 11i	not applicable	512 MB	10 MB
NetID Management Console	not applicable	Sun JRE 1.4.2 or 5.0 Netscape 7 series (on Windows or UNIX systems) or Internet Explorer 6 series (on Windows systems only)	n/a	n/a
NetID Server Manager	Sun UltraSPARC (or better) Solaris 2.8/2.9/2.10 or HP 9000/700 (or better) HP-UX 11i	Oracle 9i client kit (for more information, refer to "Oracle 9i Client Kit" on page 17). Sybase 12.5.3	512 MB	15 MB

Obtaining a license for Nortel NetID

A 90-day license is supplied with NetID for installation, setup, and evaluation purposes. After this license expires, you will not be able to access NetID until you renew the license. To avoid this inconvenience, you should obtain a full license immediately after installation.

> **➡** **Note:** After completing the licensing procedure (for a new license or an upgrade license) you must log out of NetID and log back in to make the new license take effect. You must also stop and re-start the Application Server and Server Manager.

To obtain license keys for NetID, follow these steps:

1 Open your Web browser and go to the following URL:

http://www.nortel.com/ops_netidlicense

The NetID Licensing Web page appears.

2 Type your organization name, contact information, and address information in the appropriate fields.

3 Type the server key value in the Server Key field.

4 Type the serial number in the Serial Number field.

The serial number appears in the License Agreement supplied with the NetID CD package.

5 Click the Send button.

A license key and an expiry date are returned.

6 Type the new license key in the License Key field in the Update License dialog box.

7 Type the expiry date of the license in the Update License dialog box.

If an expiry date of `00`/`00`/`0000` is returned, enable the Unlimited option button. Otherwise, enable the Expires On option button, and type the date in the field in the format *YYYY/MM/DD*.

8 Click OK.

NetID operating system and database compatibility matrices

Table 3 and Table 4 list the operating systems and databases on which NetID 4.5 products will run. The latest patches for the operating systems supported by NetID must be installed to ensure that NetID products operate as designed.

Table 3 Operating system-to-NetID version compatibility

Product	Operating system			
	Windows 2000	Windows 2003	Solaris	HP-UX
NetID 4.3.3	Yes (SP3)	Yes	2.8	11.0
NetID 4.4	Yes (SP3)	Yes	2.8/2.9	11i
NetID 4.5	Yes (SP3)	Yes	2.8/2.9/2.10	11i

Table 4 Database-to-NetID version compatibility

Product	Database				
	Oracle client kit	Oracle database		Sybase database and client kit	
	9i (rel. 2)	9i (rel. 2)	10g	12.5	12.5.3
NetID 4.3.3	2000, 2003, UNIX	2000, 2003, UNIX		2000, 2003, UNIX	
NetID 4.4	2000, 2003, UNIX	2000, 2003, UNIX		2000, 2003, UNIX	
NetID 4.5	2000, 2003, UNIX	2000, 2003, UNIX	2000, 2003, UNIX		2000, 2003, UNIX

Guidelines for using NetID

This section describes issues you may need to consider when using NetID.

Log file rollover feature for NetID servers

NetID 4.5 introduces a log file rollover feature for all server products in the NetID family (previous versions of the product included this feature only for the DHCP Server). When you set NetID server debugging levels, you can also set the maximum size for the error log file. When the log file reaches the maximum size, the server backs up this file and starts a new log file. You can also specify the maximum number of log files that can be backed up for each server. When the maximum number of backup log files is exceeded, the oldest log file is deleted.

The log file rollover size and rollover file count settings are specified in registry keys (in Windows) or in the registry.cfg file (on UNIX platforms). The settings can be specified permanently by editing the registry keys/registry.cfg file, or they can be specified for the current session only by adding arguments to the startup syntax at the command line.

The registry keys RolloverSize and RolloverBackupCount (in Windows) or registry.cfg file lines RolloverSize and RolloverBackupCount (in UNIX) are created by each NetID server at start time if they are not found. When created, the rollover size and count values are set to 0, meaning that the log file rollover feature is not enabled.

➥ To permanently set the rollover size and count values for a server product in Windows, open the Windows Registry and navigate to HKEY_LOCAL_MACHINE\SOFTWARE\Nortel Networks\NetID\Current Version\<*server*>, and edit the RolloverSize and RolloverBackupCount keys, specifying appropriate values.

   The valid rollover size value range is 1000-1000000000 bytes. The valid rollover count value range is 1-10.

➥ To permanently set the rollover size and count values for a server product in UNIX, open the registry.cfg file and edit the <*server*>\RolloverSize and <*server*>\RolloverBackupCount lines, specifying appropriate values.

The valid rollover size value range is 1000-1000000000 bytes. The valid rollover count value range is 1-10.

➡ To change the rollover size and count values at startup time for the current session only, add the following arguments to the startup command line syntax:

-r *<size>*[**:**<count>]

The valid rollover size value range is 1000-1000000000 bytes. The valid rollover count value range is 1-10.

For example, the following command would start the Server Manager with a debug level of 9, a log file name of smgr.log, a maximum log file size of 100000 bytes, and a maximum of ten log files:

./nidsvmgr -d 9 -l smgr.log -r 100000:10

Oracle 9i Client Kit

Although NetID supports the Oracle 10g database in this release, you must use an Oracle 9i Client kit when installing the Application Server or Server Manager. Specifically, Nortel recommends installation of the Oracle 9i Client Kit included with the NetID setup.

Unsupported BIND 9 directives

Although the NetID system has been designed to support most BIND 9 directives, there are some exceptions. The following BIND 9 directives are not supported in NetID:

Unsupported BIND 9 directives	
view	recursing-file
controls	ixfr-from-differences
lwres	key-directory
masters	max-journal-size
All IPv6-related directives (listen-on-v6, allow-v6-synthesis, query-source-v6, notify-source-v6, transfer-source-v6, avoid-v6-udp-ports, preferred-glue). Also, any option that supports IP addresses as arguments will support IPv4 addresses only.	
DNSSEC-related options (disable-algorithms, dnssec-enable, dnssec-lookaside, dnssec-must-be-secure)	

DNS zone serial numbers

NetID 4.4 (and later) systems do not allow the user to edit the value in the Serial field for a DNS zone. Because NetID now uses DDNS updates to send changes to the BIND Name Server from the NetID BIND Controller, these DDNS updates also affects a zone's serial number. Allowing the user to modify zone serial numbers would cause problems with the synchronization of zone serial numbers.

Users can migrate to a NetID 4.4 (or later) system with a data store that uses date-formatted serial numbers (yyyymmddxx) for their zones. The version 4.5 Name Server treats date-formatted serial numbers as simple numbers and continues to increment these numbers with each DDNS update. The serial numbers will, for this reason, eventually lose their date-formatted appearance. As the number of updates moves into the 100's and 1000's, the day, month, and year columns will be overwritten as simple numbers.

Upgrading from NetID 4.3 series to NetID 4.5

It is advisable to back up your NetID tablespace before upgrading from a NetID 4.3 series product to NetID 4.5. There have been modifications to the version 4.5 database that would result in incompatibilities if you needed to revert to a NetID 4.3 series Server Manager or Application Server.

It is important that all NetID Application Servers and Server Managers are upgraded at the same time. The NetID 4.5 Server Manager will work with version 4.5, 4.4, and 4.3.x DNS and DHCP servers so that network server upgrades can take place incrementally.

Migrating from BIND 8 to BIND 9

The NetID 4.5 Name Server supports BIND 9.x directives, but will not support all BIND 8 directives, or any NetID 4.3.x proprietary directives. If you are not prepared to migrate your network immediately to BIND 9, you can run NetID 4.3.x servers in a NetID 4.5 environment.

The NetID 4.5 system continues to support NetID Name Servers based on BIND 8 in order to allow existing customers to upgrade their DNS deployments in a controlled manner.

For information on new functionality in BIND 9 and issues around integrating BIND 9 servers into your network, refer to:

- http://www.nominum.com/content/documents/bind9arm.pdf for BIND information
- http://sysadmin.oreilly.com/news/dnsandbind_0401.html for a discussion of important configuration considerations in upgrading from BIND 8 to BIND 9.

Unsupported BIND directives

The following BIND 8 directives and Nortel proprietary directives are not supported in BIND 9. If you are running a NetID 4.3 (or earlier) environment with any of the following directives, they must be removed or reset before you upgrade to the BIND 9 Name Server that is installed with NetID 4.5:

BIND 8 (not supported in BIND 9)	
cachesize	multiple-cnames
check-names (supported in BIND 9.3)	named-xfer
deallocate-on-exit	frc2308-type1
fake-iquery	rrset-order
fetch-glue	serial-queries
has-old-clients	statistics-interval
host-statistics	topology
memstatistics-file	treat-cr-as-space
min-roots	use-id-pool

Nortel proprietary (not supported in BIND 9)	
cachedump-interval	secure-recursive
persistent-cache	secure-source
rr-allow	secure-ttl
secure-mail-addr	secure-zones
secure-nameservers	ddns-allow

New syslog messages from BIND 9 Name Server

The NetID 4.5 Name Server logs a variety of new syslog messages which may be unfamiliar to the user. Users can find explanations for (and discussions around) many of these messages by searching for the message text at the http://marc.theaimsgroup.com/ Web site.

DNS Export limitations

In exported DNS configurations, only the data in the database is exported, without the modifications that the NetID BIND Controller needs to make locally in order to function properly. Because the NetID BIND Controller needs to change the BIND configuration in order to be able to control it, the configuration that is given to Name Servers will be somewhat different from what users see in the management console.

For example, the NetID BIND Controller depends on BIND allowing rndc commands and DDNS updates (authenticated with HMAC-MD5 keys). This can only be achieved by altering the configuration. Since these changes depend on the local settings for each machine (the Server Manager doesn't handle the generation or storage of HMAC-MD5 keys), they are not applied to the database but to the machine were the DNS is running.

Users must address the following issues when exporting BIND 9 configuration data from NetID 4.5:

- A `directory` statement must be added to the exported `named.conf` file to avoid a BIND 9 error. BIND 9 is significantly less tolerant of errors in the configuration file and will generally fail to start when they occur.
- NetID exports the Name Server configuration files with include statements like `include "pre.conf"`. For BIND 9, the full path to the included file must be specified (for example, `include "c:\Program Files\Nortel Networks\netid\dns\etc\pre.conf"`). They are not searched for in the directory specified by the `directory` statement.
- Signed zones and DNSSEC private keys are not stored in the database (only public keys are stored). An exported DNS configuration includes a `named-dnssec.dump` file, which includes the DNSSEC configuration used by NetID. The file can be imported back into NetID and the DNSSEC keys are re-created, but it cannot be used in a clean ISC BIND configuration. Signed zones cannot be exported together with the signature records, since

those records are not stored in the database. The user can only export the zone in unsigned form (without NXT and SIG records). KEY records are not exported for the same reason (private keys are not kept in the database, and exporting private keys would not be secure). Public keys can be seen in the exported `named-dnssec.dump` file. When importing, if the `named-dnssec.dump` file exists, all DNSSEC configurations are imported, but the public keys and the tags of the key pairs are not imported. This leads to a full import of the exported DNSSEC configurations, but key pairs will be regenerated by the NetID BIND Controller when it configures the zones after import.

• A BIND 9 Name Server running with an exported configuration (slightly altered in order to make BIND start) will behave somewhat differently than a NetID-controlled BIND 9 server with regards to DDNS updates and rndc commands. In order to use rndc with the exported configuration, the user must manually add the "controls" section to `named.conf`.

> **Note:** Importing DNS configurations back into NetID 4.5 will work as expected.

DDNS updates from BIND 9 Name Server

For hosts created through DDNS in domains served by BIND 9 Name Servers, the Originator field reports 127.0.0.1 instead of the address of the originating host.

Suggested changes to DNS architecture

In versions of NetID prior to the version 4.4 and 4.5 series, users were encouraged to use a multi-master zone structure (i.e. several master servers with few or no slave servers). This arrangement was suggested because of limitations in the master-slave update mechanism in earlier versions of BIND. With the improvements to Incremental Zone Transfer (IXFR) functionality in BIND 9, it is now feasible to configure additional Name Servers within a zone as slaves instead of as masters, in order to facilitate DNS updates.

Each zone should have two master Name Servers for redundancy purposes, but the rest of the servers in the zone can be slaves.

NetID 4.5 DNS directory structure and key management

This section outlines the DNS directory structure and key management scheme
implemented in version 4.4 and 4.5.

NetID DNS directories and files

The `<NetID_home>/bin` directory contains `nidnbc` (the NetID BIND
Controller). This is a NetID process which starts and stops the BIND Name Server
(you must start/stop `ninbc` in order to start/stop `named`), and manages the update
process between the NetID database/NetID Server Manager and the BIND Name
Server.

The `<NetID_home>/dns/bin` directory contains symbolic links to `opt/csw/`
`sbin` for the following processes:

- `named` is the BIND Name Server daemon, the operation of which is
  controlled by the NetID BIND Controller.
- `rndc` is the administration utility for `named`, through which the user can issue
  command signals directly to the Name Server to reload zones, dump statistics,
  etc.
- `dnssec-signzone` is the DNSSEC zone signing tool.

`<NetID_home>/dns/etc` contains the following:

- The zone data files (`*.db`).
- The journal files (`*.jnl`) store changes to zone data that have occurred. This
  file is used mainly by the Name Server to implement the IXFR mechanism
  and by `nidnbc` to update NetID database.
- The `named.conf` file contains Name Server configuration statements. The
  `named.conf` file includes:
  - The `pre.conf` and `post.conf` files, through which the user can
    configure the Name Server with non-NetID managed BIND statements.
  - The `intern_pre.conf` and `intern_post.conf` files, which are used
    by NetID to define Global BIND Statements. Currently the NetID Server
    Manager is using only `intern_pre.conf` to define global ACLs.

- The intern_keys.conf file (included in intern_pre.conf) is used by NetID to define keys used to secure internal server communications.
- The K*+xxx+xxxxx.key and K*+xxx+xxxxx.private files store DNSSEC asymmetric keys, using BIND encoding.
- The rndc.conf is the configuration file for the rndc utility. At install, a link to this file is created in /etc/rndc.conf.
- A variety of other files: *.old, named.pid, named.run, and possibly some *.tmp files.

Control keys

The keys used to secure channels for communication with the BIND Name Server are HMAC-MD5 keys (symmetric keys, 128 bits in length). The command channel key is called _nbc_command_channel_key_only_ and is used to establish a secure channel for the nidnbc CommandChannel module, which controls the functionality of the BIND Name Server, and is used to issue stop, halt, reconfig, and the Windows NetID Control Panel commands. This key is also used in the rndc.conf file for establishing the channel. In the named.conf file, this key is set as a control key through the following statement:

```
controls {
    inet 127.0.0.1 allow {any;} keys
{_nbc_command_channel_key_only_;};
};
```

The update channel key is called _nbc_update_channel_key_only_ and serves to establish a secure channel for the nidnbc UpdateChannel module, which sends updates to the BIND Name Server via DDNS. In named.conf, this key is set on all Master-type zones by one of the following methods:

1 Through an update-policy directive:

```
update-policy {
grant _nbc_update_channel_key_only_ wildcard * ANY;
grant * name omihnea.itcnetworks. ANY;
};
```

2 Through an allow-update directive:

```
allow-update { key _nbc_update_channel_key_only_; 172.27.143.17;
master_acl; };
```

The update-policy directive is more secure but is only useful when TSIG is supported by all entities that can update the zone. Microsoft Active Directory Domain Controllers do not support TSIG, so the allow-update directive is used to set access control on zones when ACLs are configured through the NetID Global BIND Statements feature.

Key generation

During the NetID installation process, a default set of keys is created in the intern_key.conf file. Any time that configuration is sent to the BIND Name Server (for example, when the BIND Controller contacts the Server Manager and requests the Name Server's configuration files), these keys are recreated and stored with Base 64 encoding. The keys are generated using the operating system's random number generator device, which produces the raw material for the keys. NetID simply encodes and stores them.

Obtaining Oracle database software

The Oracle 10g database software supported by NetID can be obtained from the following location:

• http://www.oracle.com/technology/software/products/database/oracle10g/index.html

The Oracle 9i Client Kit software can be found on the NetID install CD.

Memory settings on HP-UX

If you are encountering "unknown exception" messages on HP-UX and there is no apparent reason for these exceptions, it may be worthwhile to check the maxdsiz parameter and set it to a larger value. The maxdsiz parameter is the kernel parameter on HP-UX that specifies the maximum size for a process data segment, and is set by default to 64MB. While this value is sufficient in most cases, the loading of large DNS zones has on occasion been shown to exceed this limit. When the limit is reached, the Server Manager receives an "unknown exception" message and disconnects the BIND Controller.

To fix this problem, you must run the System Administrator Manager (SAM) utility on HP-UX (as root, with the DISPLAY environment variable set to a valid X server). Select Kernel Configuration, and then select Configurable Parameters. Scroll down the list to find maxdsiz. Double-click on this entry and enter a new value in bytes (for example, 256 MB or 256 x 1024 x 1024 = 268435456 bytes). Then close the window and SAM will prompt you to either compile the new kernel and replace the old one immediately, or wait. Choose the option to recompile right away. After the kernel has recompiled, the system will restart with the new kernel.

Running NetID BIND Controllers on HP-UX

If you are running NetID Name Servers on HP-UX 11i, you may encounter repeated instances of a "no source of entropy found" error message in the syslog file. In order to stop this error message from appearing, the NetID 4.5 BIND Controller requires the installation of a secure random number generator on HP-UX 11i. The secure random number generator is used in the DNSSEC encryption mechanism. This application can be installed from:

http://www.software.hp.com/cgi-bin/swdepot_parser.cgi/cgi/displayProductInfo.pl?productNumber=KRNG11I.

Popup disabling software blocks Import/Export/Report status applets

If you are running popup blocking software on your Web browser, you will not be able to view the status messages generated by the Import, Export, and Report utilities. In order to view the messages, you can configure your popup disabling software to accept popup messages originating from the NetID Application server address.

Microsoft Virtual Machine

As of January 2004, Microsoft no longer distributes or supports the Microsoft Virtual Machine (VM) as part of the Microsoft Internet Explorer package. NetID 4.5 supports the Sun Java Runtime Environment (JRE) with Internet Explorer.

Enabling the SUN JRE

NetID has been designed to support the SUN Java Runtime Environment (JRE). If you are running the NetID management console through Microsoft Internet Explorer, you must ensure that the SUN JRE (version 1.5 or later) is installed and enabled on the same system. The JRE can be installed from the NetID install CD (`\auxiliary` folder).

For information on upgrading the Sun JRE, refer to:

http://java.com/en/download/help/switchvm.jsp

To enable the JRE, follow these steps:

1 In Internet Explorer, click Tools > Internet Options.

2 In the Internet Options dialog box, click on the Advanced tab.

3 In the Settings list, scroll down to the Java (SUN) entry and enable the Use Java *<version_number>* For Applets check box.

4 Shut down and then restart Internet Explorer.

Internet Explorer security warning

Opening the management console in Microsoft Internet Explorer using default security settings could result in the following warning message:

```
Your current security settings prohibit running Active X
controls on this page. As a result, the page may not display
correctly.
```

If you see this warning, you will have to change your Internet Explorer security setting to Medium. For more information, refer to the Internet Explorer documentation.

BIND statement validation cannot be enabled if forward or stub zones were set

Zone type stub or zone type forward statements that were manually set for Name Server objects (those displayed under the Name Servers root object, not under the Zones root object) in previous versions of NetID will not be considered valid by the BIND statement validation feature in NetID 4.5. Therefore, if you are migrating from a prior version of NetID to NetID 4.5 and you want to enable BIND statement validation, you must remove the zone statements from Name Server objects and set the zone type for that Name Server under the zone(s) for which it is associated.

To remove the zone BIND statements from a Name Server object, follow these steps:

1 Under the Name Servers root object, navigate to a Name Server for which zone type stub or zone type forward statements were previously set.

2 Right-click the Name Server object, and choose Properties from the menu.

 The Name Server Properties dialog box appears.

3 Click the BIND Statements tab.

4 From the list, delete the entire zone group.

5 Click OK.

6 Repeat these steps for each Name Server for which zone type stub or zone type forward statements were previously set.

 Once you remove the zone statements from all Name Server objects, you can enable BIND statement validation. (To enable BIND statement validation, right-click the System Options object, and choose Properties from the menu. In the System Options Properties dialog box, click the Admin tab, and enable the Validate BIND Statements check box).

7 To reset the zone type for those Name Servers, you must recreate the zone (follow the steps in "Creating a zone" in *Managing IP Addressing in Nortel NetID)*, then add the name saver to that zone (refer to "Adding a Name Server to a zone" in *Managing IP Addressing in Nortel NetID.)*

 You can define the zone as a type forward or type stub when you add the Name Server to the zone.

Comment text in Name Server statements

Comment text must be placed before or after the group or statement portions of Name Server statements (BIND and those proprietary to NetID) to be properly validated by NetID.

The following example shows acceptable locations for comment text to be placed in relation to a Name Server statement group:

```
/* Acceptable comment location*/
options {
    also-notify {
        199.250.176.1;199.250.176.2;199.250.176.3;199.250.176.4;
    };
};
/* Acceptable comment location*/
```

The following example shows acceptable locations for comment text to be placed in relation to a Name Server statement:

```
options {
    /* Acceptable comment location*/
    also-notify {
        199.250.176.1;199.250.176.2;199.250.176.3;199.250.176.4;
    };
    /* Acceptable comment location*/
};
```

Reference counts in database tables serve as flags

The reference count fields in the NID4_DOMAIN and NID4_IP_ADDRESS tables no longer count how many dependent objects there are. Rather, the reference counts now serve as flags: A value of 1 indicates that there are dependent objects, whereas a value of 0 indicates that there are no dependent objects. As a result of these changes, the *countcheck.sql* and *countfix.sql* scripts, which could be obtained from the Nortel Technical Solutions Support Center, cannot be used for NetID 4.5.

Preparing NetID for Windows DDNS support

By default, the NetID Name Server is not configured to accept dynamic DNS (DDNS) updates from Windows 2000 or Windows 2003 servers. To enable DDNS updates from Windows servers, refer to the "Supporting Windows DDNS updates" section in *Managing IP Addressing in Nortel NetID.*

Importing Microsoft Active Directory DDNS-enabled zones

When you import a zone that contains Microsoft Domain Controller DDNS updates, the host name associated with the domain controller is randomly assigned because the primary domain name for the IP address is determined by the first A record encountered during the import. (This depends upon the order of zones in the *named.conf* file and the order of records in the zone file.) To resolve this problem, you can manually update the host name in the import file, or use the Management Console to set the IP address with the desired host name as primary before importing.

DDNS updates in a multiple master environment

If you are running multiple master Name Servers in the same zone, and both servers are configured to receive DDNS updates for the same zone, temporary discrepancies between serial numbers can occur between master servers as a result of DDNS updates on individual servers. These discrepancies can result in an `Unexpected SOA` message in the slave server's event log. The Server Manager should resolve these discrepancies over time.

If a master server receives a DDNS update while it is in the process of performing a zone transfer to a slave server, the zone transfer is halted. This results in a `premature EOF of <zone>` message in the slave server's event log. This should not affect server functionality.

Clearing the Sybase transaction log

If you are using a Sybase database, it is recommended that you modify and clear the transaction log before you perform a large data import or export. Failure to perform this maintenance task could result in the process running out of memory.

To clear the transaction log, follow these steps:

1 Run isql, and log in as **sa**.

2 Enter the following commands at the prompt:

```
sp_dboption <database_name>, "trunc log on chkpt", true
go
```

3 Manually create a checkpoint for the database by entering the following
commands at the prompt:

```
use <database_name>
go
checkpoint
go
```

4 Examine the size of the transaction log by entering the following commands
at the prompt:

```
use <database_name>
go
dbcc checktable (syslogs)
go
```

The output will look similar to the following:

```
Checking syslogs
The total number of data pages in this table is 1.
*** NOTICE: Space used on the log segment is 0.00 Mbytes, 0.02%.
*** NOTICE: Space free on the log segment is 10.00 Mbytes, 99.98%.
Table has 23 data rows.
```

5 Manually truncate the transaction log by entering the following commands at
the prompt:

```
use master
go
dump transaction <database_name> with truncate_only
```

If the dump transaction command is suspended (which can happen if the log is
very full), you may need to enter the following command at the prompt:

```
dump tran <database_name> with no_log
```

6 Exit from isql.

7 Restart the database.

Import utility

When you start an import process from the Management Console, you cannot use the Windows Task Manager to stop it.

During a DNS import, the Import utility ignores slave zones and sub-zones.

During any import, users other than those running the import may experience a slowdown in the performance of their Management Consoles.

Resource records and fully qualified domain names

NetID automatically changes domain name entries in resource records to fully qualified domain names (FQDNs).

DHCP Server may not recognize multiple VLANs

If you install a VLAN card (NIC card) and its associated drivers on a system on which a NetID DHCP Server already resides, the DHCP Server may not recognize multiple VLANs. To run multiple VLANs and a DHCP Server on the same system, install the VLAN card and its associated drivers before you install the DHCP Server.

Duplicate entries in Sybase client pool table

If you are installing NetID 4.5 against an existing Sybase database, the Application server may occasionally generate an error message if it detects duplicate entries in the client pool, resource record, or Name Server zone tables. The messages are reported in the event log as they are detected by the Application server or Server Manager:

```
Attempt to add a duplicate object to the cache, type T, delta
identifier X.
```

The management console cannot display such duplicate entries. They can be corrected by using the management console to delete and re-create the entries.

Pipe character causes problems

The pipe character (|) causes data to be displayed incorrectly in the Java-based Management Console, because it is pre-defined as an illegal character for Java.

In addition, if you import a DNS database file that has comments within its Name Server statements, the import utility will process the Name Server statements until a | character in a comment is encountered; it will then skip the remaining Name Server statements and resume processing the DNS information in the zones section of the DNS database file. It is recommended that you remove any | characters from your Name Server statement comments before importing a DNS database file.

Spaces in file names cause problems for HP-UX systems

If you are using an Application Server that is running on an HP-UX system, you cannot import, export, or save a file with names that contains spaces. You also cannot save or use import, export, or report templates with names that contains spaces.

DHCP redundancy

If you are implementing DHCP redundancy, you should position your primary and backup servers to ensure that a network failure does not result in DHCP DISCOVER messages from the same subnet reaching both servers. Otherwise, both servers could begin to serve the same addresses at the same time.

In Figure 1, a network failure between hub 1 and hub 2 would result in both servers serving the same addresses. To resolve this problem, it is recommended that you place the primary and backup servers on the same hub (in other words, place the backup server on hub 1).

Figure 1   Scenario 1: Network error
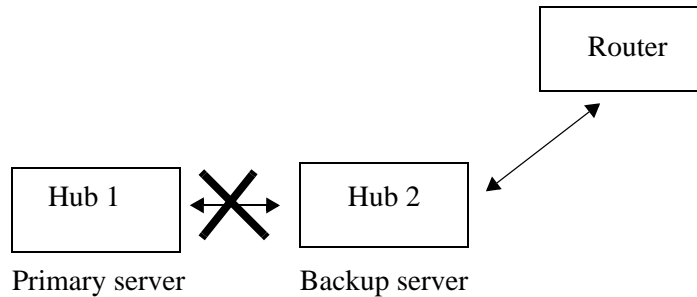

In Figure 2, a network failure between hub 1 and hub 2 would result in both servers serving the same addresses. To resolve this problem, it is recommended that you place the primary server on hub 2 or on a dedicated subnet.

Figure 2   Scenario 2: Network error
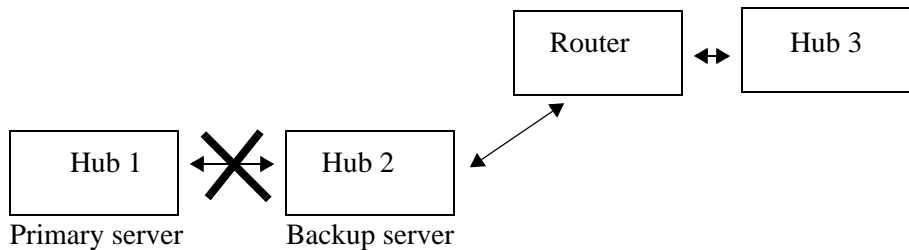
Oracle HTTP server

An Oracle 9i database installed on a Windows system will automatically run the Oracle HTTP server on port 80 when the system starts up. If you have also installed an Application Server on that system and it is configured to use port number 80, when you enter that system's URL in the Location or Address field of your Web browser you will connect to the Oracle HTTP server instead of the Application Server. Therefore, it is recommended that you use another port for the Application Server or use Windows Services to stop the Oracle HTTP server, and change its startup type from automatic to manual.

Management Console performance

The NetID Management Console is tested to run from both the Netscape Communicator and Microsoft Internet Explorer Web browser applications. Although the Management Console has been verified to run properly from both applications, its performance is better when run from Microsoft Internet Explorer.

The use of Norton AntiVirus® on the system from which you are running the Management Console may also reduce its performance when running from Netscape Communicator.

Running the Management Console from a Netscape Web browser on the same system as the Application Server to which it is connecting may reduce the Management Console's performance on a Windows system.

NetID administrators or NetID users will experience very slow response times from their Management Consoles if they are connecting to an Application Server that is processing a large commands file. It is recommended that commands files be processed during times when other NetID administrators or NetID users are not connected to the Application Server, or that an Application Server be dedicated for tasks performed by the CLI utility.

Changing a client's user class prior to IP address release

If you change the user class of a client without first releasing the client's IP address, when that client tries to renew its lease, its request will be ignored because it is for the renewal of an address in a range associated with its former user class. To ensure successful renewal of the client IP address, you must release the address before changing the client's user class.

Microsoft Windows 95 and Windows 98 (FE) DHCP clients

A Microsoft Windows 98 (First Edition) DHCP client will send a DHCP DECLINE packet to the DHCP Server if it discovers that the IP address it is offered is already in use on the network. While the intent is to improve the handling of duplicate IP addresses in a pure Microsoft DHCP environment, the DHCP DECLINE packet lacks the Client ID in the DHCP Options field (as specified in RFC 2131), preventing proper processing by the NetID DHCP Server.

When multiple Windows 95 or Windows 98 FE DHCP clients disconnect from and reconnect to the network, a reconnecting client may receive a 'duplicate IP address' warning during the DHCP lease renewal process. Furthermore, because the Windows 98 client's DHCP DECLINE packet cannot be processed properly, the NetID DHCP Server will not have removed the client's previous lease from the database. In the case of the Windows 95 client, a DHCP DECLINE packet will not even be sent to alert the DHCP Server that it has discovered a duplicate IP address. In each case, the client is refused a new IP address.

Setting the Server Manager blocking threshold

If a database connection or a connection between NetID servers is blocked for some reason, the Server Manager will keep retrying the connection. However, a warning message is displayed when the data is being resent too many times. A sample message follows:

```
ConnectionWrite :: 20000 retries on connection to 47.130.101.202 on
port 34771. Continue retrying.
```

This message is displayed every 20,000 connection retries.

A retry threshold for the Server Manager can be set in the Windows registry, or in UNIX by modifying the *registry.cfg*, to close a problem connection when the threshold is reached. The syntax for this setting is:

```
SOFTWARE\Nortel Networks\NetID\CurrentVersion\Server
Manager\SMBlockedThreshold
```

For example, assigning a DWORD value of 10000 to this registry setting sets the threshold to 10,000, forcing a reset of the blocked connection after 10,000 retries. At each reset interval, a message is appended to the syslog as follows:

```
ConnectionWrite :: Blocking threshold (10000) surpassed
```

Management Console login browser window

The Web browser window that appears when you login to the NetID Management Console cannot be used for Web browsing after login is completed. If you need to access the Web, launch a second instance of your Web browser software.

Electronic documentation

Documentation for NetID is available both online (through the Management Console) and in Portable Document Format (PDF). PDF documentation is available either on the system with installed documentation in the *<NetID_home>/docs* directory or from the www.nortel.com/documentation URL.

Viewing online Help

Viewing Web sites from an online Help window in Internet Explorer can cause an error in the online Help system. To go to a Web site during an online Help session, you must open a second Internet Explorer window.

If you open an online Help topic and minimize the Web browser window, then press another Help button, a new topic appears in the Help browser window, but the Web browser window remains minimized.

If you are using Netscape Communicator on a Solaris system, you may have difficulty viewing the NetID online Help. To resolve this problem, change the font configuration in Netscape Communicator by following these steps:

1 Start Netscape Communicator.

2 Choose Edit > Preferences.

The Preferences dialog box opens.

3 In the Category list area, expand the Appearance object, and choose Fonts.

The Fonts screen appears in the right pane.

4 From the For the Encoding list, choose Western (ISO-8859-1).

5 From the Variable Width Font list, choose Times (Linotype).

6 From the Variable Width Font Size list, choose 12.

7 From the Fixed Width Font list, choose Courier.

8 From the Fixed Width Font Size list, choose 12.

9 Click OK.

PDF documentation

Table 5 lists the NetID manuals available in PDF files.

Table 5   PDF files for NetID

File name	Manual title	Product and topics
relnotes.pdf	*Release Notes for Nortel NetID Version 4.5*	Release notes for NetID 4.5 (this document)
installguide.pdf	*Installing Nortel NetID*	How to install the entire NetID product family (requires administrator access)
serverguide.pdf	*Managing Nortel NetID Server Products*	How to use the NetID server product family, including NetID Application Server, Server Manager, DHCP Server, and DNS Server (requires administrator access)
ipguide.pdf	*Managing IP Addressing in Nortel NetID*	Management Console Application Server Server Manager DHCP Server DNS Server Import, export, report, and ping audit utilities

Known Limitations and Considerations

Open issues

This section covers known issues and limitations with the Version 4.5 release of Nortel NetID. When applicable, workarounds are suggested for each issue. This section is organized under the following categories:

Application server

- (Q00039134) If the database is taken offline using the Oracle Storage Manager while the Application server is running, and then you attempt to log in to the Management Console, you receive a message stating that there is a problem with the user ID or password.

   However, if you are already logged in to the Management Console when you take the database offline using the Storage Manager, and then you attempt to modify the database, you receive an error stating that the current action has created a conflict or that the changes cannot be saved.

- (Q00138539) It is not possible to create a Key ID and an ACL with identical names in the same BIND match list.

Server Manager

- (Q00462164) If you have set Option 81 (allowing client FQDNs) on a dynamic range, non-existent (in NetID) domain names could be admitted to the domain tree. This could result in the accumulation of superfluous information in the domain tree.

  Workaround: If you are using Option 81 on a dynamic range, you must take care to set DHCP client domain names accurately.

- (Q00103080) When you are configuring a Sybase client kit on a Solaris® system to connect to the Sybase server, you cannot use a domain name to identify the Sybase database server.

  Workaround: Use the IP address instead of a domain name.

BIND Controller

- (Q00972702) If the BIND process is down, the ASM icon for DNS still appears as connected because the NetID BIND Controller is connected.

Management console

- (Q01089536, Q00861404) NetID does not support regional characters in domain names.
- (Q00107540) If you make a change to an object in the NetID hierarchy (for example, a dynamic range) that had a user or vendor class associated with it, but that user or vendor class has since been deleted, an error message that the deleted option is still associated with that object appears.

  Workaround: In the Properties dialog box for the object, click the DHCP options tab. Select the vendor or user class option, and click the Remove button.

- (Q00107530) If a Server Manager that is connected to an active DNS or DHCP Server goes offline, the status of the DNS or DHCP Server's connection to that Server Manager is not changed from "Connected" to "Disconnected" in the list area of the Management Console.

Import utility

- Some of the illegal characters in domain names cause problems (such as line breaks in odd places) with viewing or importing data in the GUI.
- After you import a resource record that contains a back-slash character ("\"), it is not possible to update the domain name in the Management Console.

    Workaround: Log out of the Management Console and log in again.

Ping audit utility

- (Q00072400) When a ping audit is run from the Management Console, there is a slight delay before the Web browser window that displays the ping audit results launches. Therefore, some of the results of the ping audit are not displayed in that Web browser window, even though all of the host addresses were pinged. In addition, if you run a ping sync to resolve the results of the ping audit, there is a slight delay before the Web browser window that displays the ping sync results launches. Therefore, some of the results of the ping sync will not appear in the Web browser results window, even though all of the appropriate host addresses will be added or deleted.

Issues resolved in NetID 4.5 series

This section lists issues and limitations that have been found by customers and corrected since the NetID 4.4 release:

(Q01106435-01) NetID BIND Controller is not restarting BIND. Fixed in NetID 4.5.

(Q01110237-01) DHCP Client History Report shows no data. Fixed in NetID 4.5.

(Q00967450-01) Large number of DHCP requests causing Server Manager work queues to fill up. No leases. Fixed in NetID 4.5.

(Q01021902-01) Nested ACLs in Global BIND statements corrupt `named.conf` file. Fixed in NetID 4.5.

(Q01062792-01) Problem with NetID 4.4.0 license calculation. Fixed in NetID 4.5.

(Q00798668-01) Request for View Alarms calendar control to default to current day's date. Addressed in NetID 4.5.

(Q00985991-02) DHCP Server stops assigning IP addresses, resulting in intermittent service loss. Fixed in NetID 4.5.

(Q01073467-01) Cannot create DHCP option whose type is "structure." Fixed in NetID 4.5.

(Q01083715-02) Cannot delete host entry from client pool when name contains "+" symbol. Fixed in NetID 4.5.

(Q01123245-01) Windows `nidnbcd` executable file lacking identifying information. Fixed In NetID 4.5.

(Q01128556-01) Selection/deletion of objects in search results not working properly. Fixed in NetID 4.5.

(Q01126596-02) DHCP server core. Fixed in NetID 4.5.

(Q00977918) Request for changes to DNS/DHCP Server status displayed in the Management Console. Addressed in NetID 4.5.

(Q00203376) Cascading DHCP option groups under the Setup Menu. Addressed in NetID 4.5.

(Q01079743) Domain Controllers should keep their host name as primary name. Addressed in NetID 4.5.

(Q00928023) Login error message should not state which entry was incorrect. Addressed in NetID 4.5.

(Q01058651) nidaudit/nidsync does not work properly from command line. Fixed in NetID 4.5.

(Q01043472) UNIX Host File export is not complete. Fixed in NetID 4.5.

(Q01062244) Functional request to allow the last DHCP host to receive requested FQDN. Addressed in NetID 4.5.

(Q01061947) Invalid resource record warning on DHCP client update. Fixed in NetID 4.5.

(Q00843205) Request to add CLI capabilities for reverse zone generation. Addressed in NetID 4.5.

(Q01052989-01) User unable to modify DNS Domain Name or DHCP option. Fixed in NetID 4.5.

(Q00959132) Request for ability to specify a port for NetID reporting and exports. Addressed in NetID 4.5.

(Q00571193) Enhancement request: rolling log required for the Server Manager. Addressed in NetID 4.5.

(Q00462035) Request for Search button to be default when using Search tool in Management Console. Addressed in NetID 4.5.

(Q00680070) Aggregate DHCP Server summary information by subnet/network. Addressed in NetID 4.5.

(Q00036411) Functional request: Ability to display non-NetID DNS Servers as "Non-NetID" instead of down. Addressed in NetID 4.5.

(Q00870318) Request to use default domain name when adding an alias or CNAME. Addressed in NetID 4.5.

(Q01053617) GUI does not refresh properly when splitting networks. Fixed in NetID 4.5.

(Q01076182) Unable to open object Properties dialog box with double-click. Fixed in NetID 4.5.

(Q00571179) Enhancement request: cannot set DHCP vendor options under a user class. Addressed in NetID 4.5.