

Data ONTAP™ 5.3.3

Release Notes

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Data ONTAP 5.3.3

Purpose of this release

Data ONTAP™ 5.3.3 software provides specific enhancements to NIS services to those customers who have requested them. Data ONTAP 5.3.3 includes Data ONTAP 5.3.2 software plus two bug fixes and the NIS enhancements.

Upgrade instructions

Data ONTAP 5.3.3 is only available on NOW. See the on-line *Software and Firmware Upgrade Guide* to locate the step-by-step upgrade instructions for downloading software files from NOW.

Supported filers

Data ONTAP 5.3.3 runs on Network Appliance™ filer models in the NetApp® F200, F300, F500, F600, and F700 series.

Bugs fixed

Data ONTAP 5.3.3 fixes two bugs.

Bug ID number	Description
5393	Local /etc/passwd is ignored if NIS is enabled.
7515	TCP connection limit is too low
13312	Crash may occur when forcegroup is used on CIFS share
16656	Filer might at times fail with Assertions failure in ../common/lib/mallac.c.

New features

Data ONTAP 5.3.3 includes all the features and bug fixes fo Data ONTAP 5.3.2 and enhancements to NIS services functionality, as follows:

- ◆ Performance improvements
- ◆ Two new options commands:
 - ❖ `options nis.servers`
 - ❖ `options nis.group_update_schedule`
- ◆ New `ypgroup` command
- ◆ Improvements to the `setup` command
- ◆ Improvements to error handling

Performance improvements

Data ONTAP 5.3.3 improves the performance of NIS services by processing multiple threads simultaneously and by caching the NIS group files locally.

New options commands

options nis.servers: This command replaces the extended `ypset` command. It enables you to invoke selective binding by specifying an ordered list of NIS servers you want clients to bind to. As with `ypset` commands, you can enter them at the Data ONTAP prompt or use the FilerView® interface. The NIS server list is stored in the registry.

The list of NIS servers you specify should begin with the closest NIS server and list each subsequent NIS server, with the furthest one being last.

Each of these NIS servers must be listed in the `/etc/hosts` file along with its IP address, if host names are used in the list of NIS servers. This list is also stored in the registry, and these registry entries are used when binding.

The syntax for this command is as follows:

```
options nis.servers ip_address,server_name,*
```

The asterisk (*) specifies that broadcast is used to identify NIS servers in the event the servers in the list are not responding; this is the default.

The following example lists two servers and uses the default:

```
options nis.servers 172.15.16.1,nisserver-1,*
```

In this example, the filer tries to bind to 172.15.16.1. If this fails, the filer tries to bind to nisserver-1. If this fails also, the filer binds to any server that responds to the broadcast. While bound to the NIS server that responded to the broadcast, the filer continues to poll the preferred servers. As soon as one of the preferred servers is found, the filer binds to the preferred server.

Note

Do not use the broadcast feature if you want secured NIS services.

Note

When you upgrade to Data ONTAP 5.3.3, any existing `ypset` commands in the `/etc/rc` file are automatically converted and executed as `options nis.servers` commands; however, the `/etc/rc` file remains unchanged. You must manually update the `/etc/rc` file to delete the `ypset` commands.

options nis.group_update_schedule: This command enables you to specify when the local NIS group files are cached. The default is 24 hours.

The syntax for this command is as follows:

```
options nis.group_update_schedule hours_list
```

You can specify the hours you want the files to be updated. The hour of the day is based on a 24-hour clock. Use *now* if you want the files updated immediately.

The following example specifies that the files are updated at 12 p.m. (noon) and 12 a.m. (midnight):

```
options nis.group_update_schedule 12,24
```

New ypgroup command

The `ypgroup` command lists the group entries that are cached locally by Data ONTAP 5.3.3.

The syntax for this command is as follows:

```
ypgroup username
```

Using the `ypgroup` command without the *username* option lists group entries for every user. Using the `ypgroup` command with a specified user lists group entries for that user only.

Improved setup command

The `setup` command has been modified to enable you to run NIS domain names by responding to the following prompts:

```
Please enter the new hostname [%s]:  
...  
Do you want to run NIS client [n]:  
Please enter NIS domain name []:  
Please enter list of preferred NIS servers [*]:  
Please enter NIS group update schedule [24]:
```

Based on your entries, `setup` updates the `/etc/rc` file and the registry to activate NIS, as appropriate.

Improved error handling

Data ONTAP 5.3.3 sends messages to the *syslog* file when the NIS client on the filer does not receive a response from the NIS server before the timeout period elapses. If none of the listed NIS servers respond and if you specified broadcasting with the `options nis.server` command, the NIS client binds to the server that responded to the broadcast. The NIS client continues trying to contact the listed NIS servers periodically. When one of the listed servers

responds, the NIS client on the filer binds itself to this server. If you did not specify broadcasting, NIS services are disrupted until one of the preferred servers responds.

Additional messages are sent to the *syslog* file when the NIS binding changes to a different server.