Tivoli NetView for UNIX
Release Notes
Version 6.0.1

July, 2000
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Introduction

This document provides important information about Tivoli NetView for UNIX, Version 6.0.1. These notes are the most current information for the product and take precedence over all other documentation. Please note that the version of Tivoli NetView described is an upgrade to Tivoli NetView for UNIX V6.0, and presumes that Tivoli NetView for UNIX V6.0 is already installed and working in the customer’s environment.

This document, together with the Tivoli NetView for UNIX V6.0 Release Notes, and the Tivoli NetView for UNIX Installation and Configuration, Version 6.0 book, provides all of the necessary information for planning and performing the installation of Tivoli NetView for UNIX V6.0.1. Please review all notes thoroughly before installing or using this product.

New Features

QuickTest

QuickTest is an enhanced ping tool that polls all managed interfaces and quickly determines the complete status of the node. QuickTest displays the ifAdminStatus and ifOperStatus of each interface for nodes that use SNMP to poll for status. For all other nodes, QuickTest displays the ping result for each interface. If the status of an interface has changed, the map is updated and an event is sent.

QuickTest is available from the NetView console and NetView Web client by selecting Test->QuickTest or Test->QuickTest Critical. You must have one or more nodes selected to access the QuickTest menus. The Test->QuickTest Critical menu item only polls interfaces that are currently marked as down. The Test->QuickTest menu item polls all interfaces, regardless of their current status.

You can also run QuickTest from the command line. The QuickTest command has the following syntax:

```
quicktest nodelist [-z] [-P] [-F]
```
New Features

where nodelist specifies one or more nodes to be polled. This may be either a single node name or a list of nodes separated by spaces or tabs.

Other options include:

- **-z** Only poll down interfaces.
- **-P** Use ping instead of SNMP requests to poll SNMP status nodes.
- **-F** Send an event for all polled interfaces, regardless of whether there is a status change. Normally, an event is only sent when the status has changed.

**Demand Poll Enhancements**

During periods when the netmon daemon is busy, such as during initial discovery or during bursts of status or configuration polling, it is not uncommon for a demandpoll request to fail with a message that netmon was too busy to perform the operation. The netmon daemon has been enhanced to give demandpoll and quicktest operations priority, resulting in fewer such failures.

**Loadhosts Enhancement**

The loadhosts utility now provides the capability to add new interfaces as Unmanaged.

The input file for the loadhosts command specifies the interfaces to be created in the NetView databases. A new token `!` can be added to the beginning of entries in this file to indicate that they should be created as Unmanaged. This option overrides the `-d` switch on the loadhosts command line (which specifies to create all interfaces as down).

In the following sample loadhost input file, the interface 14.8.2.100 is created as Unmanaged:

`!14.8.2.100 myrouter.ibm.com myroute`

When using this loadhosts capability, the netmon `-l` switch should be set to create new nodes as managed. You can do this on the netmon configuration page of Server Setup.
New Features

Unsolicited Generic Traps

The netmon daemon now dynamically verifies and sets the status for the node or interface when it receives the following generic traps: Warm Start, Cold Start, Link Down, and Link Up.

Acknowledged Status Import/Export Capabilities

With the existing map-based behavior for Acknowledge, operators on client machines must refresh the map to be notified that objects have been acknowledged or unacknowledged. The acknowledged action is map-based and only affects the current map. Also, acknowledging objects on read-only maps is not persistent; restarting the console clears all the acknowledged statuses. In addition, you cannot set the Acknowledged status from the command line.

A new global-based mode for Acknowledge is available in Tivoli NetView for UNIX V6.0.1. When global-based mode is set, the Acknowledged status is an object attribute. All NetView clients are notified when an object is acknowledged or unacknowledged immediately, regardless of which map is open and even if the action is performed on a read-only map. In addition, the Acknowledged status can be set on an object from the command line, permitting the transfer of the Acknowledged status to backed up NetView databases.

By default, the behavior for Acknowledged remains map-based. However, you can set an environment variable to activate the new global-based behavior for individual clients. You may want the old behavior for some clients and the new behavior for others. For instance, you may have NetView client users who do not need to see objects being acknowledged by the network operations center.

Global-based Mode

This section describes the global-based mode in more detail.

To activate the global-based mode, set the environment variable NVMAPGLOBALACK equal to 1 on the NetView machine. It must be set before you invoke the NetView console.
New Features

You can acknowledge an object using one of three methods. The first, from the map, uses the graphical user interface. The other two methods, from an event or through nvdbimport, allow users greater control of the Acknowledged state outside of the graphical user interface.

- From the Map. To acknowledge a map object, select the object and choose **Monitor->Acknowledge** to set the field `isAcknowledged` to TRUE for that object and generate an event to update all open maps (local or NFS) connected to the NetView server. If a NetView console running in global-based mode starts up later, the object shows as Acknowledged.

- From an event. To acknowledge an object from the command line, type:

  ```
  event -b openview -e event -a object ID
  ```

  Where `event` is either `ACK_EV` (acknowledge event) or `UNACK_EV` (unacknowledge event), and `object ID` is the object ID of the object to be acknowledged in the OVW database. For more information on this command, see the event man page.

  This event sets the status of the specified object to Acknowledged on all open maps where the object’s status is CRITICAL or MARGINAL. It also sets the Acknowledged field to TRUE in open NetView maps. If no NetView sessions are running in global-based mode, this field is not set. If Netview consoles running in global-based mode start up later, the object shows as acknowledged.

- Using nvdbimport. To directly set the Ovw database field `isAcknowledged` for chosen objects, use nvdbimport. See the nvdbimport man page for more details.

Export/Import Utility for Acknowledged Status

You can review an example of using the event-based approach to set the acknowledged state in the sample import/export utility script `/usr/OV/bin/acknowledgeUtil`.

To use the script, type:
**New Features**

**acknowledgeUtil** `-export -map mapname > filename`

**acknowledgeUtil** `-import < filename`

A complete description of the arguments is given at the top of the script.

Only Critical and Marginal objects are changed to Acknowledged. Attempts to Acknowledge normal objects during the import operation are silently ignored.

**Ping and SNMP Timeout Values**

The netmon daemon no longer dynamically adjusts the ping and SNMP timeout values. These values remain as configured in the SNMP Options dialog.

**Router Fault Isolation Automatically Enabled**

The Router Fault Isolation feature (also known as Event Suppression) is now active by default in NetView. Router Fault Isolation attempts to differentiate between nodes that are actually down and nodes that are simply unreachable when the router servicing them is down. For a detailed explanation of Router Fault Isolation, see the description in `/usr/OV/doc/RouterFaultIsolation.htm`. If this feature is not desired, you can turn it off using the `-K 0` option for netmon.

This option has the following syntax:

```
-K 0 | 1
```

| 0 | Turn Router Fault Isolation OFF |
| 1 | Turn Router Fault Isolation ON. This is the default. |

To turn this feature off, add `-K 0` to the `netmon.lrf` file and enter the following commands:

```shell
/usr/OV/bin/ovstop netmon
/usr/OV/bin/ovdelobj /usr/OV/lrf/netmon.lrf
/usr/OV/bin/ovaddobj /usr/OV/lrf/netmon.lrf
/usr/OV/bin/ovstart netmon
```
Reduced Polling to Routers

As a part of the Router Fault Isolation feature, a new option `-k 2` has been added to netmon to prevent status polling to any router with a current status of Unreachable.

Note: If this option is used, it may be necessary to manually ping a node in an occluded area to start recovery for some isolated routers.

This option has following syntax:

```
-k 0 | 1 | 2
```

0  Don’t suppress any pings or SNMP requests.
1  Suppress pings and all SNMP requests to non-routers in Unreachable nodes. This is the default.
2  Suppress pings and all SNMP requests to Unreachable routers.

To prevent status polling to any routers whose current status is Unreachable, add `-k 2` to the `netmon.lrf` file and enter the following commands:

```
/usr/OV/bin/ovstop netmon
/usr/OV/bin/ovdelobj /usr/OV/lrf/netmon.lrf
/usr/OV/bin/ovaddobj /usr/OV/lrf/netmon.lrf
/usr/OV/bin/ovstart netmon
```

Collecting MLM MIB Variables Synchronously

Mid-Level Manager for UNIX has added a new threshold environment variable `@sync` which allows you to collect MIB variables synchronously (all at the same time). For example,

```
@sync(MIB1, MIB2, MIB3...)
```

In the above example wildcarding is allowed. To collect a MIB variable from several hosts:

```
@sync(host1:MIB1, host2:MIB1, ...) or
@sync(alias1:MIB1, alias2:MIB2, ...) or
```
System Requirements

alias:@sync(MIB1,MIB2)

However, MIB variable expressions such as the one shown below are not supported:

@sync(MIB1, @sum(MIB2, MIB3), MIB4) or
@sync(MIB1 + MIB2)

Thresholding is allowed but the USER SHOULD BE AWARE that the thresholding applies against ALL of the MIB variables regardless of type.

The results are placed in the MLM Threshold Results table. The results of the first MIB variable is located by its Name in the Threshold Results table. The results of each successive MIB variable is located by its Name concatenated with a unique number id -n- where n is a number.

Improved NetView Client Synchronization

The map synchronization process between the NetView client and server has been enhanced to improve the synchronization time of client maps.

System Requirements

In addition to the requirements described in the Tivoli NetView for UNIX Installation and Configuration, Version 6.0 manual, the Tivoli NetView for UNIX V6.0.1 installation temporarily requires an additional 150 Mb of disk space in /usr/OV during the installation, and will use 40 Mb more of disk space in /usr/OV after the installation is complete.

Installation Notes

1. Execute the “snapshot” function of the nvpseq script, found in the /BCK directory of the Tivoli NetView for UNIX V6.0.1 installation media, on each system containing a NetView server or client. For information on how to use this script, see the README file found in the /BCK directory.
Installation Notes

2. Install the Tivoli NetView for UNIX V6.0.1 Server Patch on all machines running the Tivoli NetView V6.0.1 Server:

   a. On the Desktop menu of the Tivoli Framework graphical user interface, click on Install -> Install Patch and select Tivoli NetView Server V6.0.1 Patch 6.0-NVS-0001. Read each panel completely and correct any reported problems before proceeding.

   b. Verify that the patch installed successfully and that all daemons and application are working correctly by examining the log files in the /tmp directory, specifically the update.log file and any 6.0-NVS-0001_BIN_after.* files. Search the update.log file for the following strings:

       SEV_
       ERROR
       WARNING

      and correct any errors associated with the strings.

      If an error occurred during the patch installation process, there will be a 6.0-NVS-0001_BIN_after.error file in the /tmp directory; if no error occurred, then there will be a 6.0-NVS-0001_BIN_after.debug file in the /tmp directory.

   c. If a patch installation fails or a severity 1 or severity 2 error occurs, the reported problem must be corrected and the installation repeated. Prior to re-performing the patch installation, do one of the following:

      - Perform the nvpach script “backout” function (see the README file found in the /BCK directory of the Tivoli NetView for UNIX V6.0.1 installation media).

      - Remove the appropriate patch flag files stored within the Tivoli Framework for the patch whose installation failed. The appropriate flag files are listed in the table below. The $BINDIR environment variable is set by the Tivoli Framework setup script found in the /etc/Tivoli directory.
Once the patch installation has been attempted, Tivoli NetView is in an unknown state and may not execute correctly until either the nvpatch script “backout” function has been executed, or the patch installs successfully.

3. In the same manner as described for the server, install and verify the installation of the Tivoli NetView for UNIX V6.0.1 Client Patch on each of the client machines.

Please note that the installation window(s) from the server installation (in the previous step) MUST BE CLOSED prior to beginning the client patch installation; otherwise, the client installation will fail with several Tivoli Framework error messages.

If the patch installation succeeds, there will be a 6.0-NVC-0001_BIN_after.debug file in the /tmp directory; if it did not, then a 6.0-NVC-0001_BIN_after.error file will exist in the /tmp directory which contains a description of the failure.

4. In the same manner as described for the server, install and verify the installation of the Tivoli NetView for UNIX V6.0.1 Databases Patch on the NetView servers.

If the patch installation succeeds, there will be a 6.0-NVD-0001_BIN_after.debug file in the /tmp directory; if it did not, then a 6.0-NVD-0001_BIN_after.error file will exist in the /tmp directory which contains a description of the failure.
Patches Required for this Release

5. If the Tivoli NetView Mid-Level Manager (MLM) update is desired, install it at this time. For information on how to perform the installation, see the `readme` files in the appropriate platform subdirectory under the `/MLM` directory on the Tivoli NetView V6.0.1 installation CD-ROM.

6. Verify that all NetView daemons start and run properly on all machines that had a NetView patch applied.

Patches Required for this Release

No additional patches are required for Tivoli NetView for UNIX V6.0.1.

Defects Fixed in this Release

The following customer-reported problems were fixed in Tivoli NetView for UNIX V6.0.1:

<table>
<thead>
<tr>
<th>APAR #</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>IY00488</td>
<td>OVW_Binary core due to multiple Xwindow callbacks</td>
</tr>
<tr>
<td>IY00835</td>
<td>NVSecD memory leak on security authorization</td>
</tr>
<tr>
<td>IY03331</td>
<td>OVWDBMap won’t delete object after NVTurboDatabase used</td>
</tr>
<tr>
<td>IY04379</td>
<td>Entries in oid_to_command not being translated properly</td>
</tr>
<tr>
<td>IY05734</td>
<td>NetMon cores on HP device</td>
</tr>
<tr>
<td>IY06092</td>
<td>Trapd cores when receiving bad trap</td>
</tr>
<tr>
<td>IY06361</td>
<td>XNMAppmon coring when closing due to non-null pointer</td>
</tr>
<tr>
<td>IY06629</td>
<td>Background lost on submap during close/reopen on DEC</td>
</tr>
<tr>
<td>IY06633</td>
<td>Deleting vertices not working on closed maps</td>
</tr>
<tr>
<td>IY06684</td>
<td>User can create map despite being restricted</td>
</tr>
<tr>
<td>IY06890</td>
<td>NVEvents cores when clicking outside of current event area</td>
</tr>
</tbody>
</table>
## Defects Fixed in this Release

<table>
<thead>
<tr>
<th>APAR #</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>IY06910</td>
<td>Trapgend not working after being pushed to remote system</td>
</tr>
<tr>
<td>IY06988</td>
<td>NetMon loops on HSRP interfaces with 1 SNMP address</td>
</tr>
<tr>
<td>IY06997</td>
<td>XNMLoadMIB2 fails to parse the &quot;bits&quot; construct</td>
</tr>
<tr>
<td>IY07219</td>
<td>NVColToSQL &quot;CollectTime&quot; var has only a 2 digit year</td>
</tr>
<tr>
<td>IY07220</td>
<td>Cisco 7206 Router not discovered by netmon</td>
</tr>
<tr>
<td>IY07308</td>
<td>Mnemonic character conflict in OVW &quot;Edit&quot; menu</td>
</tr>
<tr>
<td>IY07562</td>
<td>GTMD Memory Leak</td>
</tr>
<tr>
<td>IY07915</td>
<td>GTMD Icons not retaining customization on GUI restart</td>
</tr>
<tr>
<td>IY08209</td>
<td>OVW_Binary coring on bad pointer in NavTree</td>
</tr>
<tr>
<td>IY08325</td>
<td>OVW_Binary coring on Xwindows closecallback function</td>
</tr>
<tr>
<td>IY08822</td>
<td>NVSniffer hangs on Solaris when polling unreachable nodes</td>
</tr>
<tr>
<td>IY08824</td>
<td>NVSniffer -t hangs for timeout values under 1000</td>
</tr>
<tr>
<td>IY09037</td>
<td>Problem transferring MLM data to Oracle</td>
</tr>
<tr>
<td>IY09325</td>
<td>Multiple up events when NetMon &amp; MLM on same box</td>
</tr>
<tr>
<td>IY09330</td>
<td>Collection rule fails when IPSTATUS=ACKNOWLEDGED</td>
</tr>
<tr>
<td>IY09476</td>
<td>Unnecessary messages filling netmon trace log</td>
</tr>
<tr>
<td>IY09812</td>
<td>Tell users ACKNOWLEDGE status shouldn’t be propagated</td>
</tr>
<tr>
<td>IY09841</td>
<td>NVTecia -stop not sending &quot;NVServerD Ending&quot; event</td>
</tr>
<tr>
<td>IY09874</td>
<td>Icons going to wrong place on cut &amp; paste operation</td>
</tr>
<tr>
<td>IY09934</td>
<td>Unable to configure NetView daemons via smitty</td>
</tr>
<tr>
<td>IY10027</td>
<td>XXMAP cores when show protocol is used</td>
</tr>
<tr>
<td>IY10052</td>
<td>Saving dynamic workspaces more than once gives error</td>
</tr>
<tr>
<td>IY10063</td>
<td>OVW_Binary cores when doing a cut/paste on the map</td>
</tr>
</tbody>
</table>
# Product Limitations and Workarounds

<table>
<thead>
<tr>
<th>APAR #</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>IY10451</td>
<td>NetView not showing DNS IP address sending trap to TEC</td>
</tr>
<tr>
<td>IY10623</td>
<td>On Solaris, cut/paste operation takes over an hour</td>
</tr>
<tr>
<td>IY10712</td>
<td>NVSecD memory leak on nvauth login/logout</td>
</tr>
<tr>
<td>IY10768</td>
<td>Running owtexit produces core file on NetView NT 6.0</td>
</tr>
<tr>
<td>PJ26956</td>
<td>NVWakeUp -n doesn’t work with interface names with spaces</td>
</tr>
<tr>
<td>PJ26960</td>
<td>Use of ruleset containing event attribute as origin fails.</td>
</tr>
</tbody>
</table>

## Product Limitations and Workarounds

1. Some NetView man pages are not visible to the man command on the Solaris 2.6 operating system. Until the correct operating system patch can be determined, set the environment variable `MANPATH` to `/usr/share/man:/usr/OV/man`.

2. If either the Tivoli desktop or Netscape runs at the same time as the NetView graphical user interface on Tru64, an X resource problem can cause part or all of the graphical user interface to core. To avoid this problem, exit both Netscape and the Tivoli desktop prior to starting the NetView graphical user interface.

3. The new QuickTest functions are not available from the NetView GUI or the Web client when NetView is running in the Simplified Chinese, Japanese, or Korean locales. These functions will be available for the NetView Language kits in a future release.

4. On Solaris, after installing the Tivoli NetView V6.0.1 client and server patches, it may be necessary to refresh the snmp daemon on the server in order to restore the client/server connection. If the client and server cannot communicate after the patches have been installed, simply stop and restart the snmp daemon on the NetView server machine.
Documentation Changes

1. In the *Tivoli NetView for UNIX Administrator’s Guide, Version 6.0*, table 4 on page 69 incorrectly indicates that the default compound status for a symbol is acknowledged when all of the symbols in its child submaps are in an Acknowledged state. The table should state that the node will be normal when all nodes in its child submaps are acknowledged. The acknowledged state is not propagated and is ignored for upwards propagation.

Product Notes

**Solstice Enterprise Agent (SEA) Issues**

In order to fix SEA problems on Solaris 2.8, the following patch must be installed on both the client and server machines:

108869-02  (Solaris 2.8 kernel patch)

The following problems may occur when the NetView server is on a machine running Solaris 2.7 and SEA 1.0.3:

1. The NetView graphical user interface does not come up on the client system, or the client cannot connect to the server. The error message "ERROR: Cannot connect to server daemons" or "Cannot contact the mgragentd daemon for daemon status. Make sure that the mgragentd daemon is running on the server" may display on the client.

2. NetView server machines are not recognized as NetView managers (isManager field is not set to TRUE). The NetViews SmartSet is not populated when this occurs.

To fix these problems, install the latest versions of the following patches on both the client and server machines:

106541-10  (Solaris 2.7 kernel patch)

107709-06  (SEA 1.0.3 patch)

Reboot your system after installing these patches.
If you have an MLM installed on the same machine as the NetView server, then you must also make the following change to the midmand.acl file:

Change:

```plaintext
acl = {
    communities = public, private
    access = read-write
    managers = *
}
```

to:

```plaintext
acl = {
    communities = private
    access = read-write
    managers = *
}
```

```plaintext
    communities = public
    access = read-only
    managers = *
}
```

### Solaris 2.8 Support

On Solaris 2.8, a system directory is missing that is required by the Tivoli NetView installation process. You must create the directory `/usr/lib/locale/en_US/LC_MESSAGES` manually if it does not exist in order for the installation to complete successfully.

### AIX 4.1.5 Support

The NetView Web client, Web server, Seed File Editor, and Submap Explorer are not supported on AIX 4.1.5 because JRE version 1.1.8 is not supported on AIX 4.1.5.

### AIX 4.3.3 Support

APM distribution may hang for AIX users when running `bos.net.tcp.client` at the 4.3.3.10 code level. Applying `bos.net.tcp.client` 4.3.3.14 resolves this issue.
Tivoli NetView Web Client

If you are running the NetView Web Client as a standalone application, you will need to download and reinstall the Web Client code from the URL http://host:8080/download, where host is the name of your Tivoli NetView V6.0.1 server. For more information on configuring and running the NetView Web Client as a standalone application, see the URL http://host:8080/Running.html and the Tivoli NetView for UNIX Release Notes, V6.0

Cisco Works 2000 Integration


NetView Language Kit Support

The following language upgrades were made in this release:

1. When the Tivoli NetView Web client Event Browser connects to a Unix Web server:
   - Event dates and severities are translated
   - Filtering by severity and the graph feature work correctly
2. Applications, such as the SNMP Configuration window, that run on the NetView server and are displayed on the client now translate correctly when displayed on Solaris.
3. The initial window size of the Server Setup and Client Setup applications has been increased and no longer displays as only a title bar.
4. Additional text strings were translated in the following applications:
   - Agent Policy Manager
   - SmartSet Editor
   - Event Display
   - Security Administration

If you are planning on installing the Tivoli NetView Language kit, it must be installed prior to installing Tivoli NetView for UNIX V6.0.1. If the language kit is installed after Tivoli NetView for UNIX V6.0.1, then Tivoli NetView V6.0.1 must be reinstalled.

**NetView Mailing List**

A public mailing list named NV-L is maintained by the The Kernel Group for the discussion of Tivoli NetView and related topics. The primary use of this forum is for NetView users to exchange ideas and is not an official customer support channel. Tivoli employees may respond if they wish, but no one is required to do so. Customers who seek an official response from IBM/Tivoli should call their local IBM/Tivoli support number. In the USA, customers may use 1-800-Tivoli-8 for this purpose.

All routine administrative requests (including subscriptions and unsubscriptions) concerning this mailing list are handled by an automated server. Instructions for subscribing, unsubscribing, policies, posting, digest version, and searchable archives are available at [http://www.tkg.com/nv-l](http://www.tkg.com/nv-l).

This mailing list replaces the netview-users mailing list that was run by The University of California at Santa Barbara and the previous one maintained by Stanford University.