



7-Mode Transition Tool 3.1

Release Notes

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Transition to ONTAP by using the 7-Mode Transition Tool

The 7-Mode Transition Tool enables you to collect inventory of 7-Mode controllers, hosts, switches, and applications, and assess their readiness for transition. After assessment, you can migrate your data and configurations from 7-Mode to ONTAP either by using copy-free transition or copy-based transition

New features and enhancements in 7-Mode Transition Tool 3.1

This release of 7-Mode Transition Tool provides support for transitioning SnapLock volumes.

Copy-based transition

7-Mode Transition Tool 3.1 includes the following enhancement to copy-based transition:

Support for transitioning SnapLock volumes to target clusters running ONTAP 9.0 or later.

Note: The integrity of the compliance data post transition can be verified by following the steps mentioned in the technical report [4526](#)

Requirements for transition

You must have the required configuration to install and run the 7-Mode Transition Tool. You should also meet the specific requirements for copy-free transition, copy-based transition, and transition assessment.

The 7-Mode Transition Tool Installation and Setup guide includes the systems requirements to install the 7-Mode Transition Tool on Windows and Linux systems.

[*7-Mode Transition Tool installation and administration*](#)

Related information

[*NetApp Documentation: 7-Mode Transition Tool*](#)

System requirements for the 7-Mode Transition Tool on Windows systems

You must ensure that the Windows host has the required configuration to install and run the 7-Mode Transition Tool.

Hardware requirements

- Dual-core x64 processor, 1.0 GHz or more
- 8 GB RAM
- 40 GB free disk space

Windows system: software requirements

- Your 64-bit Windows system must be running one of the following servers:
 - Windows 7 Enterprise
 - Windows 7 Enterprise SP1
 - Windows Server 2008 Standard
 - Windows Server 2008 R2 Standard
 - Windows Server 2008 R2 Enterprise with SP1
 - Windows Server 2012 Standard
 - Windows Server 2012 R2 Standard
 - Windows 8.1 Enterprise
- 64-bit Oracle Java Runtime Environment (JRE) 1.8 update 45

Note: If the Windows host does not have JRE or has 32-bit JRE installed, the 7-Mode Transition Tool installer automatically installs 64-bit JRE 1.8 update 45. If an earlier version of 64-bit JRE is installed, the installer automatically updates it to JRE 1.8 update 45.

When JRE is updated automatically, the other applications that require earlier versions of JRE might be affected.

Server configuration requirements

To access the web interface, the Windows system on which the tool is installed must be configured as follows:

- Port 8443 must be available.
If port 8443 is not available, or if you want to use a different port, you must change the port specified by the `tool.https.port` parameter in the `$INSTALL_DIR\etc\conf\transition-tool.conf` file.
The best practice is to use HTTPS for accessing the web interface. However, if you want to use HTTP for accessing the web interface, port 8088 must be available. For an alternative to port 8088, you must change the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file.
Note: You must restart the 7-Mode Transition Tool service after changing the port in the configuration file.
- The firewall should be either turned off or configured to allow traffic on the port that is used to access the tool.

To transition netgroups and CIFS local users and groups, the following requirements must be met:

- Port 8088 must be available.
For an alternative to port 8088, you must change the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file, and then restart the 7-Mode Transition Tool service.
- The firewall should be either turned off or configured to allow traffic on port 8088 or the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file.
- The SVM data LIF must be able to ping to the IP address of the system where the 7-Mode Transition Tool is installed.

Client (web interface) requirements

The system that accesses the web interface must have the following:

- One of the following web browsers:
 - Microsoft Internet Explorer 9, 10, or 11
 - Google Chrome 27 or later
 - Mozilla Firefox 20 or later

All browsers must be TLS enabled.

Note: If you are using Microsoft Internet Explorer as your web browser, you must disable SSLv2.

- A screen resolution of 1280 × 1024 or higher

Every time you install a new version of the tool, you must clear the browser cache by pressing Ctrl +F5 on the system.

Related information

[NetApp Interoperability](#)

System requirements for the 7-Mode Transition Tool on Linux

You must ensure that the Linux host has the required configuration to install and run the 7-Mode Transition Tool.

Hardware requirements

- Dual-core x64 processor, 1.0 GHz or more
- 8-GB RAM
- 40-GB free disk space

Linux system: software requirements

- Your Linux system must be running one of the following:
 - Red Hat Enterprise Linux 5.6
 - Red Hat Enterprise Linux 6.0
 - CentOS release 6.4
- 64-bit Oracle JRE 1.8 update 45
- 7-zip utility (rpmforge-release-0.3.6-1.el5.rf.x86_64.rpm)

Note: JRE 1.8 and the 7-zip utility must be installed on the Linux system before configuring the 7-Mode Transition Tool.

Related information

[NetApp Interoperability Matrix Tool](#)

Requirements for copy-free transition

You must be aware of the requirements for the 7-Mode systems, clusters, ONTAP versions, and disk shelves for copy-free transition.

Platform models

Copy-free transition is supported only on mid-end and high-end FAS systems and IBM N series systems. To view the supported platforms for 7-Mode and the target cluster nodes, see the Interoperability Matrix Tool.

[NetApp Interoperability Matrix Tool](#)

Data ONTAP operating in 7-Mode

At the time of this publication, copy-free transition is supported on 7-Mode systems running Data ONTAP 8.1.4P4 - 8.1.4P9 and Data ONTAP 8.2.1 or later. For the latest information about the Data ONTAP versions supported for copy-free transition, see the Interoperability Matrix Tool.

[NetApp Interoperability Matrix Tool](#)

Clustered Data ONTAP

The target cluster must be running ONTAP 8.3.2 or later.

HA configuration

The 7-Mode controllers and target cluster nodes must be in an HA configuration. The HA pairs must be healthy, and none of the nodes must be in takeover mode. Stand-alone controllers are not supported for copy-free transition.

Disk shelf models

The following disk shelf models are supported:

- DS4486
- DS4246
- DS4243
- DS2246
- DS14mk4 FC (not supported in ONTAP 9.0 or later)
- DS14mk2 AT (not supported in ONTAP 9.0 or later)

Note: DS14mk2 FC is not supported.

Disk firmware

You must download and install the latest disk qualification package, disk firmware, and disk shelf and ACP firmware on the 7-Mode systems and target cluster nodes.

[NetApp Downloads: Disk Qualification Package](#)

[NetApp Downloads: Disk Drive and Firmware](#)

[NetApp Downloads: Disk Shelf Firmware](#)

Tool to verify cabling

After connecting the 7-Mode disk shelves to the target cluster nodes during the transition, you must use Config Advisor to verify the cabling.

[NetApp Downloads: Config Advisor](#)

Requirements for copy-based transition

You must be aware of the requirements for the Data ONTAP versions, licensing requirements, and 7-Mode Transition Tool requirements for copy-based transition.

Data ONTAP operating in 7-Mode

For a list of the 7-Mode versions supported for migration by the 7-Mode Transition Tool, see the NetApp Interoperability Matrix Tool.

ONTAP

7-Mode Transition Tool 3.1 supports transition to clustered Data ONTAP 8.2.x or later by using copy-based migration.

Licensing requirements

SnapMirror must be licensed on the 7-Mode storage system. If the 7-Mode system does not have a SnapMirror license, you can obtain a temporary SnapMirror license for transition from your sales representative.

7-Mode Transition Tool service

For the data copy schedules to take effect, the 7-Mode Transition Tool service must be always up and running on the Windows or Linux system on which the tool is installed.

If you access the web interface of the tool from a browser on a different system, you can shut down that system.

Storage, host, and FC switches version requirements for transition assessment

For the list of 7-Mode versions, hosts, and FC switches that are supported for assessment by the 7-Mode Transition Tool, see the NetApp Interoperability Matrix Tool.

Related information

[NetApp Interoperability Matrix Tool](#)

Fixed issues

You should review the bugs that are fixed in this release of the 7-Mode Transition Tool before you upgrade the tool.

Bugs Online provides detailed information about fixed issues. To view information about the status of the bug, you can click the Bug ID hyperlink to access the report in Bugs Online.

Bug ID	Description
1020666	The Volume Mapping page does not filter out SnapLock aggregates while mapping the 7-Mode FlexVol volumes to the target cluster aggregates.

Known issues

To use the 7-Mode Transition Tool most efficiently, you should be aware that performance can be affected by known issues about a particular feature, such as a network, or by features that the 7-Mode Transition Tool do not support, such as a specific version of an operating system. Following are some of the known issues with the 7-Mode Transition Tool.

Often there are workarounds for any limitation that has been identified. Bugs Online provides detailed information about the known issues, including any workaround.

Copy-free transition issues

Bug ID	Description
983697	A few volume-level copy-free transition assessment prechecks are not available.
952166	Inline deduplication and compression are not automatically enabled for transitioned volumes if transitioning to an All Flash FAS platform running clustered Data ONTAP.
933405	In some cases, the tool stops responding in Internet Explorer 9 when mapping SVMs and volumes.

Copy-based transition issues

Bug ID	Description
779835	Cluster becomes unresponsive or access can fail if you use CIFS or NFSv4 clients to access an ASCII directory on a transitioned volume.
749963	The AD Kerberos machine account is created as part of the default Organizational Unit in the AD server.
753632	Cutover takes an excessively long time with a scaled configuration.

7-Mode Transition Tool issues

The following table lists issues common to both copy-free transition and copy-based transition:

Bug ID	Description
1033182	7-C transfer destination looking at out of bound memory
874031	SAN inventory collection fails for Windows 2003 systems.
900864	DNS server timeout causes NFS mount failure after transition.
699190	Automatic conversion of large directories no longer occurs.
831837	LDAP client configurations are not transitioned if the CIFS server is not configured on the SVM.
828493	Unable to resume the data transfer for some paused subprojects.
821993	Snapshot copy naming convention differences might cause issues after transition.
800931	Transition fails while resolving group members by the security identifier (SID) for the CIFS local users and groups.
787153	Audit path configuration is not transitioned when transitioning an NFS-only configuration.

Bug ID	Description
855937	SnapDrive and SnapManager products have limitations with 7-Mode Snapshot copies on transitioned volumes.
919580	CIFS show_snapshot set to on might result in large data transfers if client caching is enabled.

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