



7-Mode Transition Tool 3.3

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 3.3

This release of the 7-Mode Transition Tool provides additional feature enhancements.

Copy-based transition

7-Mode Transition Tool 3.3 includes the following enhancements to copy-based transition:

- Support for transitioning 7-Mode volumes to NetApp Volume Encryption (NVE) based destination volumes using copy-based transition.
You must manually create NVE based volumes prior to the transition and use these volumes as destination volumes of copy-based transition. You must use the 7-Mode Transition Tool CLI to perform such transitions because only the CLI supports the use of preexisting ONTAP volumes as destination volumes of copy-based transition.
The “Transitioning volumes by using the 7-Mode Transition Tool CLI” section in the *Copy-Based Transition Guide* contains details about using the 7-Mode Transition Tool CLI to transition volumes.
[ONTAP 9 NetApp Encryption Power Guide](#)
- Support for ONTAP Select platforms as a destination of copy-based transition.
- Support for ONTAP Edge as a source for copy-based transition (with FAS and ONTAP Select as target platforms).
- Support for FabricPool is disabled (composite aggregate).

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*](#)

Requirements for copy-free transition

You must be aware of the requirements for 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 through 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*](#)

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 (not supported in ONTAP 9.2 or later)
- 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 ONTAP version requirements, 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 3.3 supports transition to 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. However, it does not require the web interface to be active or open for the schedules to take effect. You can close the web interface and re-login whenever required.

Storage, host, and FC switch 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

Before you upgrade the 7-Mode Transition Tool, you should review the bugs that are fixed in the release.

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
1064420	The 7-Mode Transition Tool aborts SnapMirror transfers every Saturday at midnight in certain scenarios.
1081675	The 7-Mode Transition Tool does not set the <code>show-previous-versions</code> option on the transitioned shares.

Known issues

To use the 7-Mode Transition Tool most efficiently, you should be aware of the known issues that might affect performance. You should also be aware of the features that the 7-Mode Transition Tool does not support.

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.
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	Service disruption can occur in destination controller during SnapMirror transfer from Data ONTAP 8.0.x operating in 7-Mode to ONTAP 9.0.
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.
855937	SnapDrive and SnapManager products have limitations with 7-Mode Snapshot copies on transitioned volumes.

Bug ID	Description
919580	CIFS show_snapshot set to on might result in large data transfers if client caching is enabled.
1048524	Transition fails if NIS/LDAP servers on the 7-Mode system are configured with FQDN.

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