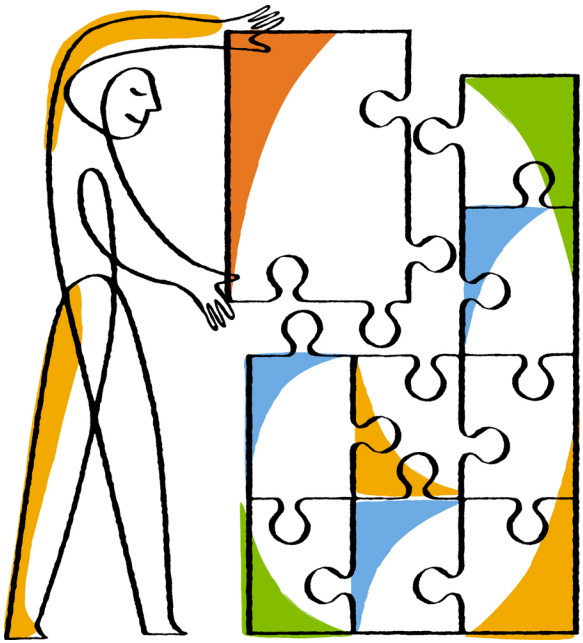
Release Candidate Documentation - Contents Subject To Change

7-Mode Transition Tool 1.2 RC1

Release Notes



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Overview of 7-Mode Transition Tool 1.2

Transition is a copy-based process of migrating Data ONTAP 7G and 7-Mode FlexVol volumes and configuration to new hardware that is running clustered Data ONTAP 8.2.0 or 8.2.1, with minimum client disruption. The 7-Mode Transition Tool enables you to transition 7-Mode volumes and configurations to clustered Data ONTAP.

The 7-Mode Transition Tool is a Windows-based tool that uses the management IP addresses of the 7-Mode system and the cluster to communicate with these systems.

Attention: Using the 7-Mode Transition Tool, you can transition only network-attached storage (NAS) environments to clustered Data ONTAP.

The 7-Mode Transition Tool provides a web interface that automates the process of preparing for transition, copying data from multiple 7-Mode volumes and applying the 7-Mode configuration to the Vserver. You can perform the following tasks by using the 7-Mode Transition Tool:

- Complete end-to-end transitions by using web-based or CLI-based wizards

  Caution: You must use only one interface for an end-to-end transition workflow. For example, if you start a transition operation for a set of volumes by using the web interface, you must complete that transition of those volumes by using the same interface.
- Transition a group of 7-Mode stand-alone volumes
- Transition a group of 7-Mode volumes in volume SnapMirror relationships
- Use the multiple sessions and subprojects feature to performing the following:
  - Create multiple sessions (in the CLI) or subprojects (in the web interface), and start data copy on them
  - Perform a cutover to allow multiple sessions (in the CLI) or subprojects (in the web interface) to be placed together in a single maintenance window
- Run prechecks on multiple 7-Mode controllers to assess the readiness for transition of the volumes on those 7-Mode controllers
- Run prechecks on volumes included in a transition session to verify their compatibility for transition and view possible corrective actions
- Configure logical interfaces (LIFs) on the Vserver either with new IP addresses or with 7-Mode IP addresses selected for the transition
- Transition 7-Mode volumes with different language settings to a single Vserver
- Apply 7-Mode configurations to clustered Data ONTAP

The 7-Mode Transition Tool also provides a CLI wizard and a set of CLI commands for transitioning 7-Mode volumes. You can perform the following additional tasks by using the CLI:

- Creating a new Vserver
- Transitioning Kerberos configurations

For more information about the 7-Mode Transition Tool, see the *7-Mode Transition Tool Data and Configuration Transition Guide*.

Related information

Documentation on the NetApp Support Site: support.netapp.com

New and changed features in 7-Mode Transition Tool 1.2

You should be familiar with the features that were added or changed in 7-Mode Transition Tool 1.2.

7-Mode Transition Tool enhancements

- NFS qtree exports transition

  The 7-Mode Transition Tool supports the transition of qtree-level NFS exports, if the target cluster is running Data ONTAP 8.2.1.
- CIFS local users and groups transition

  The 7-Mode Transition Tool supports the transition of CIFS local users and groups (also called *admin users and groups*) if the target cluster is running Data ONTAP 8.2.1.
- Backward-compatibility with clustered Data ONTAP 8.2.0

  The 7-Mode Transition Tool 1.2 is backward-compatible with clustered Data ONTAP 8.2.0.
- Ability to upgrade from version 1.1 to version 1.2 of the tool and preserve the transition history

  You can now upgrade your installed version of the 7-Mode Transition Tool to version 1.2. However, upgrade is supported only from version 1.1 to version 1.2 of the tool. If the installed version of the 7-Mode Transition tool is 1.0, then it must be uninstalled before version 1.2 of the tool is installed.

  The 7-Mode Transition Tool enables you to view the transition history of completed and aborted projects that were present in the previous version of the tool.
- One-click bundling of all tool logs to create a ZIP file

  The 7-Mode Transition Tool creates log files that provide processing details of the transition operations that have occurred on your system. You can collect and download tool logs using the **Logs** button on the Home page.
- Audit configuration transition

  The 7-Mode Transition Tool supports transition of the audit configuration to the cluster. As part of the session details, the Vserver path where the audit logs are to be saved should be provided for transitioning the audit configuration.

Requirements for transition

You must ensure that you have the required configuration to install and run the 7-Mode Transition Tool. You should also meet some licensing and Data ONTAP version requirements for transition.

For information about preparing the 7-Mode system and cluster for transition, see the *7-Mode Transition Tool Data and Configuration Transition Guide*.

Related information

Documentation on the NetApp Support Site: support.netapp.com

System requirements for 7-Mode Transition Tool

You must ensure that you have the required configuration to install and run the 7-Mode Transition Tool.

Hardware requirements

- Dual-core x64 processor, 1.0 GHz or more
- 4-GB RAM
- 40-GB HDD

Software requirements

- 64-bit Windows 7, Windows 7 Service Pack 1 (SP1), or Windows Server 2008 R2 SP1
- 64-bit Oracle Java Runtime Environment (JRE) 1.6.0.32

  Note: If the Windows host does not have JRE or has 32-bit JRE installed, the installer for the 7-Mode Transition Tool automatically installs 64-bit JRE 1.6.0.32. If the host has an earlier version of 64-bit JRE, the installer automatically updates it to JRE 1.6.0.32.

Server (web interface) configuration requirements

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

- Ports 8443 (for HTTPS) and 8088 (for HTTP) must be available.
  If port 8443 is not available, or if you want to use a different port for HTTPS, you must change the port specified by the `tool.https.port` parameter in the `transition-tool.conf` file. For an alternative HTTP port, you must change the port specified by the `tool.http.port` parameter in the `transition-tool.conf` file.

Note: You must restart the NetApp 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.

Client (web interface) requirements

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

- One of the following web browsers:
  - Microsoft Internet Explorer 9.0 or 10
  - Google Chrome 27 or later
  - Mozilla Firefox 20 or later
- A screen resolution of 1280 × 1024 or higher

For more information, see the Interoperability Matrix.

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

Related information

Interoperability Matrix: support.netapp.com/matrix

License requirements for transition

Before you transition a volume from 7-Mode to clustered Data ONTAP, you must ensure that SnapMirror is licensed on the 7-Mode storage system. Additionally, SnapMirror licenses are required on the primary and secondary clusters to transition a 7-Mode volume SnapMirror relationship. The 7-Mode Transition Tool does not require any license.

If SnapMirror is already licensed on your 7-Mode system, you can use the same for transition. If you do not have the 7-Mode SnapMirror license, you can obtain a temporary SnapMirror license for transition from your sales representative.

Feature licenses that are enabled on the 7-Mode system must be added to the cluster. For information about obtaining feature licenses on the cluster, see the *Clustered Data ONTAP System Administration Guide for Cluster Administrators*.

Related information

Documentation on the NetApp Support Site: support.netapp.com

Data ONTAP version requirements for transition

You should be aware of the versions of Data ONTAP operating in 7-Mode that are supported for transitioning to clustered Data ONTAP version 8.2.0 or 8.2.1.

You can transition volumes from systems running Data ONTAP 7.3.3 and later. For the updated list of Data ONTAP versions supported for transition by the 7-Mode Transition Tool, see the Interoperability Matrix.

Related information

Interoperability Matrix: support.netapp.com/matrix

Limits for transition

When you transition volumes using the 7-Mode Transition Tool, you should consider certain limits for transition such as the number of volumes in a session or subproject, and the number of sessions or subprojects that can run simultaneously.

Parameter	Maximum limit
Maximum number of 7-Mode controllers from which volumes can be transitioned at any given time	Two 7-Mode controllers, which can be one pair of High Availability (HA) controllers or two non-HA controllers. For this limit only, primary volumes and stand-alone volumes are considered; controllers that hold secondary volumes included in projects are not counted towards this limit. The tool does not allow you to transition stand-alone or primary volumes that involve a third 7-Mode controller.
Maximum number of clusters to which volumes can be transitioned at any given time	Two clusters for stand-alone and primary volumes involved in the transition. The clusters used to transition secondary volumes with the SnapMirror relationship are not counted.
Number of volumes in a subproject or session	20
Maximum number of active projects that the 7-Mode Transition Tool web interface can manage at any given time	Eight active projects (each project can have either a stand-alone subproject or a primary and a secondary subproject.) **Note:** The tool supports listing of more than 100 projects, however it is not recommended.

Important: The restrictions of two 7-Mode controllers and two clusters are applicable across subprojects created in the 7-Mode Transition Tool web interface and sessions created in the 7-Mode Transition Tool CLI. Therefore, if you create a session in the CLI that uses one 7-Mode controller and transitions volumes to one cluster, you will be able to create projects in the web interface that use only one 7-Mode controller and one cluster.

Features and volumes not supported for transition

You cannot transition certain 7-Mode volumes, such as traditional volumes or SnapLock volumes, by using the 7-Mode Transition Tool. You also cannot transition certain 7-Mode features, such as synchronous SnapMirror relationships and MetroCluster configurations, either because some features might not be available in clustered Data ONTAP or the tool cannot transition these features.

Note: You can transition a 7-Mode volume only to a Vserver with FlexVol volumes, not to a Vserver with Infinite Volume.

Some of these features might require a manual post-transition setup in the cluster.

You cannot transition the following 7-Mode volumes:

- Volumes with LUNs and LUN clones (SAN transition)
- Restricted volumes
- Traditional volumes
- Volumes with NFS-to-CIFS character mapping (charmap)
- Volumes with Storage-Level Access Guard configurations
- SnapLock volumes
- FlexCache volumes
- 7-Mode volumes in a 64-bit aggregate to a 32-bit aggregate in clustered Data ONTAP
- FlexClone volumes can be transitioned, however storage efficiency will be lost
- Root volume of a vFiler unit, where the root volume is based on a qtree that belongs to the default vFiler unit

You cannot transition the following 7-Mode configurations:

- IPv6 configurations
- SnapVault relationships
- FPolicy configurations
- Branch Cache configurations
- Antivirus configurations
- FCoE configurations
- PC-NFS
- WebNFS
- NFSv2
- Transition of CIFS local users and groups (also called admin users and groups) is supported by the tool if the target cluster is running version 8.2.1. However, transition of CIFS local users and groups is not supported by the tool if the target cluster is running version 8.2.0.
- CIFS NT4 authentication
- CIFS NetBIOS aliases

- CIFS share-level ACLs with UNIX-style permissions
- Configuration to allow the administrator to connect to the CIFS home directories of other users (`cifs.homedirs_public_for_admin` option on the 7-Mode system)
- Volume SnapMirror cascade relationships
- Synchronous SnapMirror
- MetroCluster configurations
- Disaster recovery vFiler unit (vFiler DR)

  Only the volumes in the source vFiler unit can be transitioned.
- NDMP configurations
- Transition of sub-volume NFS exports (including qtree level NFS exports) is not supported by the tool if the target cluster is running version 8.2.0.
- Transition of qtree level NFS exports is supported by the tool if the target cluster is running version 8.2.1. However, transition of sub-volume NFS exports other than qtree level NFS exports is not supported by the tool.
- Fencing of NFS export rules (fencing of NFS clients from a file system path)
- SFTP server
- TFTP server
- GARP VLAN Registration Protocol (GVRP)
- NIS for host name lookup
- Settings in the /etc/hosts.equiv file

Restrictions for transition

You must be aware of certain restrictions for transitioning some 7-Mode volumes and configurations such as FlexClone volumes and volumes with deduplication and compression.

- If you want to transition 7-Mode primary and secondary volumes when both the 7-Mode source and destination are running Data ONTAP 7.3.x or 8.0.x, you must start transitioning the 7-Mode secondary volume only when there are no data updates from the 7-Mode primary to the 7-Mode secondary volume.

  You must ensure that the data update schedules for the 7-Mode primary volume to the 7-Mode secondary volume do not conflict with the schedules for the 7-Mode secondary volume to the clustered Data ONTAP secondary volume.
- The tool does not transition a vFiler unit as a single entity.

  However, you can transition all the volumes in a vFiler unit by selecting them as a part of one or more subprojects or sessions.
- The tool does not transition root volume of a vFiler unit if the root volume is based on a qtree that belongs to the default vFiler unit.
- The tool does not allow you select a Vserver that does not have the Network File System (NFS) or the Common Internet File System (CIFS) protocol enabled.
- You must not initiate transition while the aggregates on either the 7-Mode system or cluster are upgrading from 32-bit to 64-bit format; otherwise transition fails.

- The tool does not transition a volume with a qtree if the volume and qtree are owned by different vFiler units.

  Transitioning such a volume will cause the qtree to become inaccessible.
- The tool does not transition a volume with a qtree that is the destination of a qtree SnapMirror relationship.

  The qtree SnapMirror relationship must be broken before the volume can be transitioned.
- 7-Mode Snapshot copies that have LUNs cannot be used to restore a clustered Data ONTAP volume.
- You cannot transition a fanout SnapMirror relationship (a primary volume that is in SnapMirror relationships with more than one secondary volume in different controllers) by using the 7-Mode Transition Tool (web interface).

  To transition the SnapMirror relationships in a fanout configuration, you must use the 7-Mode Transition Tool (CLI). You should create separate sessions for each secondary volume, complete the transition of the secondary sessions, and then create and complete the transition of the primary volume.
- You cannot transition volumes from different vFiler units or from different 7-Mode controllers to the same Vserver at the same time. You must complete the transition of volumes from a given vFiler unit or 7-Mode controller before you can start the transition of volumes from another vFiler unit or 7-Mode controller.

The precheck operation displays information about some of these restrictions.

Fixed issues

Some known issues in the previous release of 7-Mode Transition Tool are fixed in the current release.

CIFS local users and groups not transitioned

Local users and groups in the 7-Mode system are not transitioned by the 7-Mode Transition Tool. Therefore, you must not transition 7-Mode volumes that have CIFS shares accessed by local users or groups. If such volumes are transitioned, such shares might suffer data access failure or unauthorized data access after the transition.

You should move the volumes that have CIFS shares in a 7-Mode system or a vFiler unit to a single new Vserver. If you want to consolidate volumes from multiple 7-Mode systems to a single Vserver or group of Vservers, you must move all your local users and groups to Active Directory or set up the ACLs again for the file system on the transitioned volumes.

The number of concurrent replication operations causes data copy operation to fail

The data copy operation fails if the maximum number of concurrent replication operations supported by your 7-Mode controller is exceeded.

Replication operations include SnapMirror and SnapVault operations. The number of replication operations you can run for transition is reduced if other types of replication operations are performed concurrently on the 7-Mode controller.

For information about how to manage replication streams when using the 7-Mode Transition Tool, see the *7-Mode Transition Tool Data and Configuration Transition Guide*.

Cannot add certain volumes to primary subproject during editing workflow

You might not be able to add new volumes when you edit a primary subproject if the subproject includes one or more volumes from a non-default vFiler unit that was configured using the default vFiler context. This might also occur if the project was created using the SnapMirror relationship and uses volumes that belong to a non-default vFiler.

This issue occurs when you try to add additional volumes by clicking **Edit Volume Selection** from the Precheck pane or **Edit Configuration** from Dashboard.

For more information, see bug ID 698605 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

CIFS shares properties not transitioned completely

Some of the CIFS share properties are not transitioned to clustered Data ONTAP after the transition is completed.

For more information, see bug ID 660102 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Total used size of volumes is incorrect

The Dashboard, the Edit Preview, the Session Summary, and the Volume Selection panes of the New Transition Project wizard might show the total used size of some volumes incorrectly. This is because the space used by SnapShots is not included in the volume's total used size.

For more information, see bug ID 737480 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Incorrect vFiler unit is selected in the Volume Selection pane

In the 7-Mode Transition Tool web interface, if two or more 7-Mode controllers have vFiler units with matching names, the incorrect vFiler unit might be selected in the Volume Selection pane of the New Transition Project wizard.

For more information, see bug ID 750878 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Tool fails to transition CIFS-preferred domain controller configurations

The tool fails to transition the CIFS-preferred domain controller configurations when you transition volumes from a non-default vFiler unit.

For more information, see bug ID 753525 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

The 7-Mode Transition Tool service fails to start manually

After rebooting the Windows host on which the 7-Mode Transition Tool is installed, the NetApp 7-Mode Transition Tool service does not start automatically. Further, the NetApp 7-Mode Transition Tool service fails to start manually from the Windows Services management console.

For more information, see bug ID 745822 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Known issues

Some unexpected behaviors have been identified as well as workarounds, in some cases, to avoid these behaviors.

Mismatch in the displayed used volume size

The used volume size displayed in the Volume Information dialog box and in the Volume selected for transition project table on the Volume selection page appears different during continuous data-write operations on the selected volume.

The Volume selected for transition project table displays the accurate value for the used volume size.

Workaround

None.

SnapMirror transfers fail with multipath IP addresses

In a transition peering relationship with multipath IP addresses, SnapMirror transfers to the cluster fail if any of the paths fail.

SnapMirror supports up to two paths for transition; however, the two paths can be used only for load balancing, and not for failover. If the secondary path fails before the transfer begins, the transfer starts, but a delay might occur.

After the transfer starts between the 7-Mode system and the clustered Data ONTAP system, both paths must be available for SnapMirror transfers to continue. If any path fails when the transfer is in progress, data copy fails.

Workaround

Ensure that both IP addresses are up and available for SnapMirror transfers between the 7-Mode system and the clustered Data ONTAP system.

For more information, see bug ID 599144 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Credentials of the Kerberos server not authenticated

The Kerberos credentials you provide are not authenticated by the tool and, if incorrect, will not prevent the transition from completing successfully. However, if the credentials are incorrect, you might face issues after the transition.

If you have NFS and Kerberos configured on the 7-Mode system, the 7-Mode Transition Tool command-line interface (CLI) prompts you to provide the Kerberos server details during the transition complete operation.

Workaround

Ensure that you provide the correct credentials while completing the transition.

For more information, see bug ID 618684 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Cluster stops responding due to directory conversions

After transition, if you use CIFS or NFSv4 clients to access directories that are in ASCII format (NFS format), a directory conversion process is triggered to convert all the entries in the directory to UNICODE format. This conversion can take a long time and causes the cluster to become unresponsive.

After transition, the `create_ucode` option is always enabled and cannot be turned off. The `convert_ucode` option is set based on the value set in the 7-Mode system. If the `convert_ucode` option is enabled, any access to the directory causes a directory conversion.

Workaround

None.

For more information, see bug ID 686033 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Compression is not enabled after transition from Data ONTAP 7.3.x

If you transition a 32-bit volume on a system running Data ONTAP 7.3.x to a clustered Data ONTAP volume that is in a 64-bit aggregate, compression is not enabled on the clustered Data ONTAP volume after the transition. Compression cannot be enabled until the volume is upgraded from 32-bit to 64-bit.

Workaround

1. Wait for the upgrade to finish.
   You can use the `volume show -fields block-type -volume` *`vol_name`* command to verify that the block type of the volume changes to 64-bit.
2. Enable compression by using the `volume efficiency modify` command.

For more information, see bug ID 646387 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

LDAP client schema not applied if the schema name length exceeds 32 characters

If the number of characters in the LDAP client schema name on the 7-Mode system exceeds 32 characters, the LDAP configuration is not applied to the Vserver after transition.

Workaround

After transition, perform the following steps to apply the LDAP configuration:

1. Create a new LDAP schema template by copying the schema from an existing template by using the following command:

   `ldap client schema copy -vserver` ***`vserver_name`*** **`-schema`** ***`existing_schema`*** **`-new-schema-name`** ***`new_schema`***

   `new_schema` specifies the name of the schema. It must be less than or equal to 32 characters.
2. Modify the LDAP schema on the Vserver by using the following command:

   `vserver services ldap client schema modify -vserver` ***`vserver_name`*** **`-schema`** ***`new_schema`***

For more information about these commands, see the *Clustered Data ONTAP Commands: Manual Page Reference*.

For more information, see bug ID 713010 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

CIFS requests fail because name-mapping is not set on the Vserver

If the `ldap.enable` and `ldap.usermap.enable` options are enabled on the 7-Mode storage system, the `-nm-switch` parameter of the Vserver is not set with LDAP by the 7-Mode Transition Tool after the transition is complete. Therefore, LDAP is not searched for name-mapping between UNIX users and Windows accounts, which causes CIFS requests to fail.

Workaround

After the transition is complete, use the following command to configure the Vserver to use LDAP as the source for name mapping:

`vserver modify -vserver` *`vserver_name`* `-nm-switch file,ldap`

For more information, see bug ID 709451 in Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Subproject creation fails with host name error

When selecting a primary volume for transition with the SnapMirror relationship, if the host name of the primary 7-Mode controller does not resolve correctly from the default vFiler unit of the secondary 7-Mode controller, the creation of the subproject creation fails with the error `Source host does not exist on 7-Mode storage system`.

This issue occurs because the host name of the primary 7-Mode controller either does not resolve to any IP address, or it resolves to an IP address that does not belong to the primary 7-Mode controller.

Workaround

Edit the `/etc/hosts` file of the default vFiler unit of the secondary 7-Mode controller and add the host entry for the primary 7-Mode controller to the file. This ensures that the host name of the primary 7-Mode controller resolves to the correct primary 7-Mode controller IP address from the default vFiler unit.

For more information, see bug ID 704012 in Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

Transition operations take longer to complete if one or more volumes have high numbers of quotas or qtrees

Transition operations, such as precheck, start, and cutover, take a significantly longer time to complete if one or more volumes have quotas or qtrees in the range of several hundred or more.

You need to wait for the operation to complete if the session or subproject is transitioning scaled 7-Mode configurations.

Workaround

None.

For more information, see bug ID 753632 in Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

The 7-Mode storage system is unable to connect to the Intercluster LIF during transition

The transition session might fail soon after starting with an error that reads `Make sure that at least one of the intercluster LIFs of each of the following nodes is reachable from the 7-Mode storage system`.

When this error occurs, the network ping from the 7-Mode storage system to the Intercluster LIF displays the `No buffer space available` error. The aborting of the network diagnostic utility (netdiag) that is running in the 7-Mode storage system may be the reason for the error.

Workaround

Reset the management interface e0M of the 7-Mode storage system. After the management interface is reset, the transition session can be completed.

For more information, see bug ID 750436 at Bugs Online.

Related information

Bugs Online: support.netapp.com/NOW/cgi-bin/bol

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