



CHAPTER 3

Understanding DMM SAN Topologies

Cisco MDS DMM is designed to support a variety of SAN topologies. The SAN topology influences the location of the MSM-18/4 module or MDS 9222i switch and the DMM feature configuration.

This chapter describes common SAN topologies and their implications for DMM and includes the following sections:

- [Information About DMM SAN Topologies, page 3-1](#)
- [Licensing Requirements for DMM SAN Topologies, page 3-15](#)
- [Guidelines and Limitations for DMM SAN Topologies, page 3-16](#)
- [Configuring DMM SAN Topology Using Method 3, page 3-16](#)
- [Field Descriptions for DMM SAN Topologies, page 3-18](#)
- [Data Mobility Manager, page 3-18](#)
- [Feature History for DMM SAN Topologies, page 3-19](#)

Information About DMM SAN Topologies

Cisco DMM supports homogeneous SANs (all Cisco MDS switches), as well as heterogeneous SANs (a mixture of MDS switches and other vendor switches). In a heterogeneous SAN, you must connect the existing and new storage to Cisco MDS switches.

In both homogeneous and heterogeneous SANs, Cisco MDS DMM supports dual-fabric and single-fabric SAN topologies. Dual-fabric and single-fabric topologies both support single path and multipath configurations.

In a single path configuration, a migration job includes only the one path (which is represented as an initiator/target port pair). In a multipath configuration, a migration job must include all paths (which are represented as two initiator/target port pairs).

This section includes the following topics:

- [FC-Redirect](#)
- [Homogeneous SANs](#)
- [Heterogeneous SANs](#)
- [Ports in a Server-Based Job](#)

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FC-Redirect

When a data migration job is in progress, all traffic (in both directions) sent between the server HBA port and the existing storage is intercepted and forwarded to the MSM-18/4 module or the MDS 9222i switch, using the FC-Redirect capability.

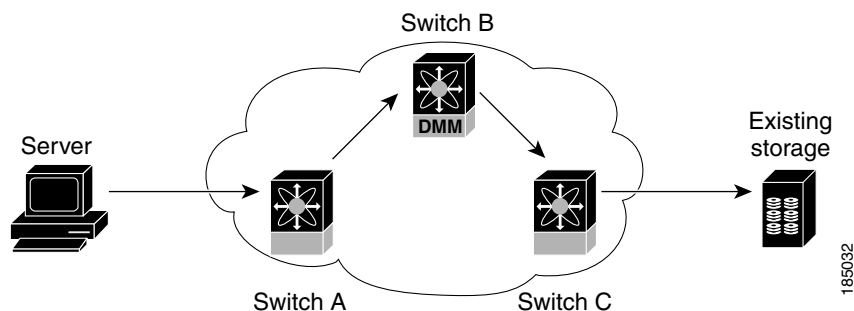
FC-Redirect requirements for the SAN topology configuration include the following:

- The existing storage must be connected to a switch with FC-Redirect capability. FC-Redirect capability is available on MDS 9500 Series and MDS 9200 Series switches.
- Server HBA ports may be connected to a switch with or without FC-Redirect capability.
- The switches with FC-Redirect must be running Cisco SAN-OS Release 3.2(1) or Cisco NX-OS Release 4.1(1b) or later release.
- The server HBA port and the existing storage port must be zoned together. The default zone policy must be configured as deny.
- The MSM-18/4 module or the MDS 9222i switch can be located anywhere in the fabric, as long as the FCNS database in the MSM-18/4 module or the MDS 9222i switch has the required information about the server HBA ports and the existing storage ports. The MSM-18/4 module or the MDS 9222i switch must be running Cisco SAN-OS Release 3.2(1) or Cisco NX-OS Release 4.1(1b) or later release.

The following examples show the server-to-storage packet flow when a data migration job is in progress. For clarity, the example shows the MSM-18/4 module or MDS 9222i switch and the existing storage connected to separate switches. The recommended practice is to connect the existing storage to the same switch as the MSM-18/4 module or MDS 9222i switch.

The server HBA port (Figure 3-1) is connected to switch A and the existing storage is connected to switch C. Both switches have FC-Redirect capability. The MSM-18/4 module or MDS 9222i switch is installed on switch B. All three switches are running Cisco SAN-OS Release 3.2(1) or Cisco NX-OS Release 4.1(1b) or later.

Figure 3-1 Host Connected to FC-Redirect Switch



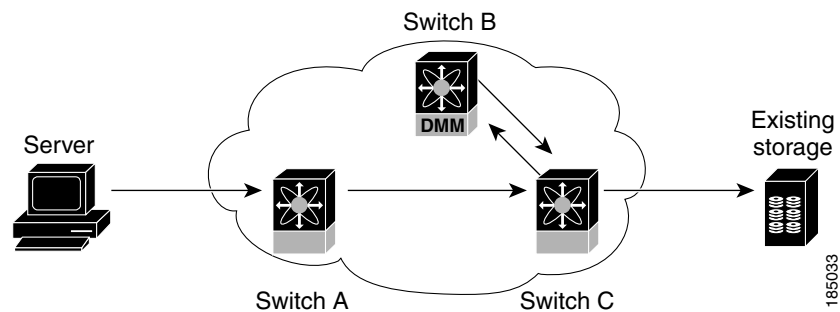
When the data migration job is started, FC-Redirect is configured on switch A to divert the server traffic to the MSM-18/4 module or MDS 9222i switch. FC-Redirect is configured on switch C to redirect the storage traffic to the MSM-18/4 module or MDS 9222i switch.

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The server HBA port (Figure 3-2) is connected to switch A, which either does not have FC-Redirect capability or is not running Cisco SAN-OS Release 3.2(1) or Cisco NX-OS Release 4.1(1b) or later. The existing storage is connected to switch C, which has FC-Redirect capability. The MSM-18/4 module or MDS 9222i switch is installed on switch B. Switches B and C are running Cisco SAN-OS Release 3.2(1) or Cisco NX-OS Release 4.1(1b) or later.

When the data migration job is started, FC-Redirect is configured on switch C to redirect the server and storage traffic to the module. This configuration introduces additional network latency and consumes additional bandwidth, because traffic from the server travels an extra network hop (A to C, C to B, B to C). The recommended configuration (placing the MSM-18/4 module or MDS 9222i switch in switch C) avoids the increase in network latency and bandwidth.

Figure 3-2 Host Not Connected to FC-Redirect Switch



Homogeneous SANs

A homogeneous SAN contains only Cisco MDS switches. Most topologies fit the following categories:

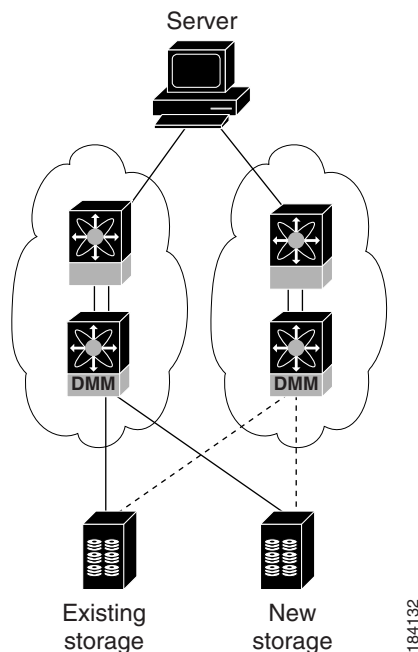
- Core-Edge—Hosts at the edge of the network, and storage at the core.
- Edge-Core—Hosts and storage at the edge of the network, and ISLs between the core switches.
- Edge-Core-Edge—Hosts and storage connected to opposite edges of the network and core switches with ISLs.

For all of the above categories, we recommend that you locate the MSM-18/4 module or MDS 9222i switch in the switch closest to the storage devices. Following this recommendation ensures that DMM introduces no additional network traffic during data migrations.

Figure 3-3 shows a common SAN topology, with servers at the edge of the network and storage arrays in the core.

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Figure 3-3 Homogeneous SAN Topology



In a homogeneous network, you can locate the MSM-18/4 module or MDS 9222i switch on any DMM-enabled MDS switch in the fabric. It is recommended that the MSM-18/4 module or MDS 9222i switch is installed in the switch connected to the existing storage. The new storage should be connected to the same switch as the existing storage. If the MSM-18/4 module or MDS 9222i switch is on a different switch from the storage, additional ISL traffic crosses the network during the migration (all traffic between storage and server is routed through the MSM-18/4 module or MDS 9222i switch).

Heterogeneous SANs

When planning Cisco MDS DMM data migration for a heterogeneous SAN, note the following guidelines:

- The existing and new storage devices for the migration must be connected to MDS switches.
- The path from the MSM-18/4 module or MDS 9222i switch to the storage-connected switch must be through a Cisco fabric.

Depending on the topology, you may need to make configuration changes prior to data migration.

Ports in a Server-Based Job

This section provides guidelines for configuring server-based migration jobs.

When creating a server-based migration job, you must include all possible paths from the host to the LUNs being migrated. All writes to a migrated LUN need to be mirrored in the new storage until the job is destroyed, so that no data writes are lost. Therefore, all active ports on the existing storage that expose the same set of LUNs to the server must be added to a single data migration job.

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In a multipath configuration, two or more active storage ports expose the same set of LUNs to two HBA ports on the server (one initiator/target port pair for each path). Multipath configurations are supported in dual-fabric topologies (one path through each fabric) and in single-fabric topologies (both paths through the single fabric).

In a single-path configuration, only one active storage port exposes the LUN set to the server. The migration job includes one initiator and target port pair (DMM does not support multiple servers accessing the same LUN set).

The following sections describe how to apply the rules to various configurations:

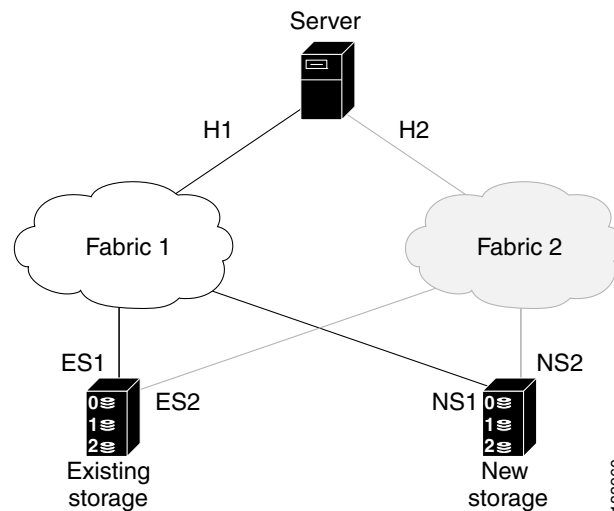
- [Single LUN Set, Active-Active Array, page 3-5](#)
- [Multiple LUN Set, Active-Active Arrays, page 3-6](#)
- [Single LUN Set, Active-Passive Array, page 3-7](#)

Single LUN Set, Active-Active Array

The server accesses three LUNs over Fabric 1 ([Figure 3-4](#)) using storage port ES1. The server accesses the same LUNs over Fabric 2 using storage port ES2.

Both storage ports (ES1 and ES2) must be included in the same data migration job, as both ports are active and expose the same LUN set.

Figure 3-4 **Single LUN Set, Active-Active Array**



You create a data migration job with the following configuration:

Server Port	Existing Storage Port	New Storage Port
H1	ES1	NS1
H2	ES2	NS2

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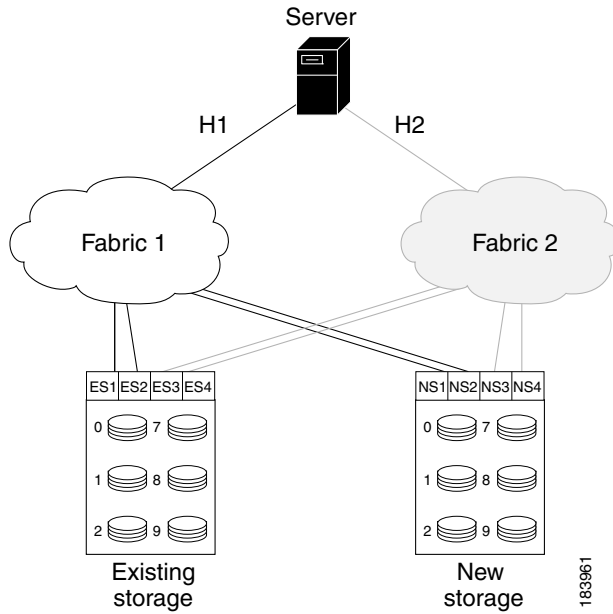
Note

If the example in [Figure 3-4](#) showed multipathing over a single fabric SAN, there would be no difference in the data migration job configuration.

Multiple LUN Set, Active-Active Arrays

The server accesses three LUNs over Fabric 1 (see [Figure 3-5](#)), using storage port ES1. The server accesses the same LUNs over Fabric 2 using storage port ES2. The server accesses three different LUNs over Fabric 1 using storage port ES3, and accesses the same LUNs over Fabric 2 using storage port ES4.

Figure 3-5 Multiple LUN Set, Active-Active Arrays



You need to create two data migration jobs because the server has access to two LUN sets on two different storage ports. You need to include two storage ports in each data migration job, because they are active-active multipathing ports.

One migration job has the following configuration:

Server Port	Existing Storage	New Storage
H1	ES1	NS1
H2	ES2	NS2

This job includes three data migration sessions (for LUNs 1, 2, and 3).

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The other migration job has the following configuration:

Server Port	Existing Storage	New Storage
H1	ES3	NS3
H2	ES4	NS4

This job includes three data migration sessions (for LUNs 7, 8, and 9).

Single LUN Set, Active-Passive Array

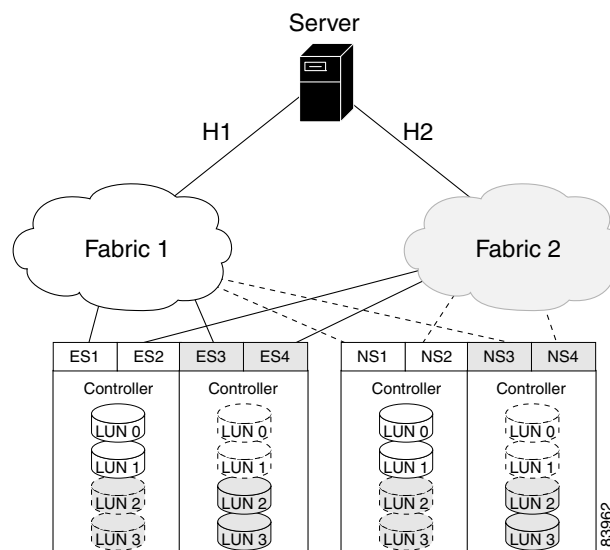
In an active-passive array, the LUNs exposed by a storage port may be active or passive.

Example 1: Each controller has two active ports

The server accesses a single LUN set. (See Figure 3-6.) However, all LUNs are not active on a single storage port. The active-passive array in the example has two controllers, each with two ports. LUN 0 and LUN 1 are active on ES1 and ES2. LUN 2 and LUN 3 are active on ES3 and ES4.

Logically, the server sees two active LUN sets that are accessed from two different storage ports. Each storage port is paired for multipathing.

Figure 3-6 Example 1: Single LUN Set, Active-Passive Array



The server accesses LUN 0 and LUN 1 over Fabric 1 using storage port ES1. The server accesses the same LUNs over Fabric 2 using storage port ES2. The server accesses LUN 2 and LUN 3 over Fabric 1 using storage port ES3, and accesses the same LUNs over Fabric 2 using storage port ES4.

You need to create two data migration jobs, because the server has access to two LUN sets over two different storage ports. Each of the data migration jobs includes two storage ports, because both ports access the active LUNs on the storage.

Only the active LUNs and associated storage ports are included in each job. (LUNs 0 and 1 in one job and LUNs 2 and 3 in the other job).

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**Note**

You can use the Server Lunmap Discovery (SLD) tool to see the LUNs that are active on each port of an active-passive array.

**Note**

In Cisco DMM, if a data migration job is configured for an active-passive array, only the paths on the active controller of the storage are included as part of the job. As a result, if a LUN Trespass has occurred due to a controller failover, the host I/Os on the new path to the storage are not captured by DMM and they are not applied to the new storage. If a LUN trespass or controller-failover occurs during migration, destroy the job and recreate it to perform the migration again to ensure that the old and new storage are synchronized.

One migration job has the following configuration:

Server Port	Existing Storage	New Storage
H1	ES1	NS1
H2	ES2	NS2

This job includes two data migration sessions (for LUNs 0 and 1).

The other migration job has the following configuration:

Server Port	Existing Storage	New Storage
H1	ES3	NS3
H2	ES4	NS4

This job includes two data migration sessions (for LUNs 2 and 3).

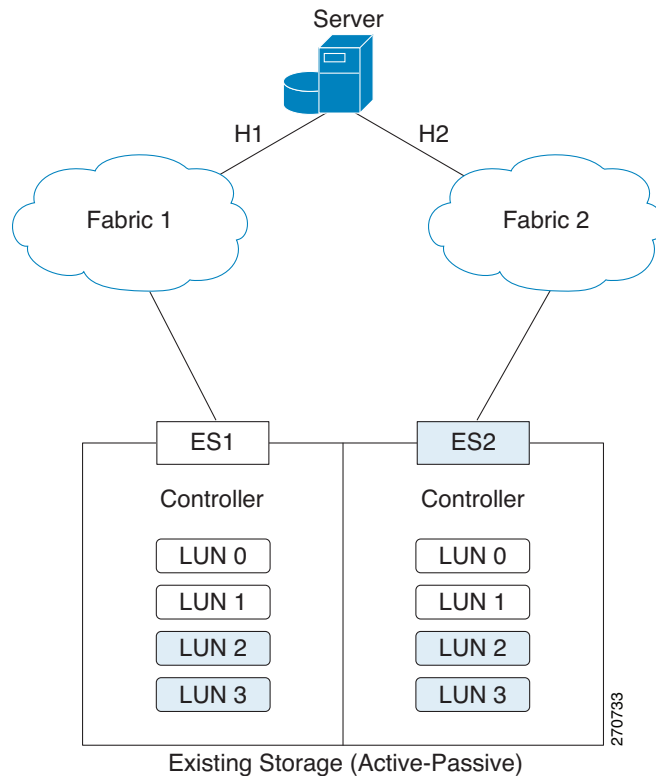
Example 2: Each controller has only one active port

The server accesses a single LUN set. (See [Figure 3-7](#).) However, all LUNs are not active on a single storage port. The active-passive array in the example has two controllers, each with a single port. LUN 0 and LUN 1 are active on ES1. LUN 2 and LUN 3 are active on ES2.

Logically, the server sees two active LUN sets that are accessed from different storage ports.

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Figure 3-7 Example 2: Single LUN Set, Active-Passive Array



The server accesses LUN 0 and LUN 1 over Fabric 1 using storage port ES1. The server accesses LUN 3 and LUN 4 over Fabric 2 using storage port ES2.

You need to create two data migration jobs, because the server has access to two LUN sets over two different storage ports. Each of the data migration jobs includes the ports from a single fabric.

One migration job has the following configuration:

Server Port	Existing Storage	New Storage
H1	ES1	NS1

The other migration job has the following configuration:

Server Port	Existing Storage	New Storage
H2	ES2	NS2

Supported Topologies in Method 3

There are three possible configurations that are available when you configure a migration job using Method 3. The configurations are described in the following sections:

- [Three-Fabric Topology](#)
- [Two-Fabric Topology, page 3-11](#)
- [One-Fabric Topology, page 3-13](#)

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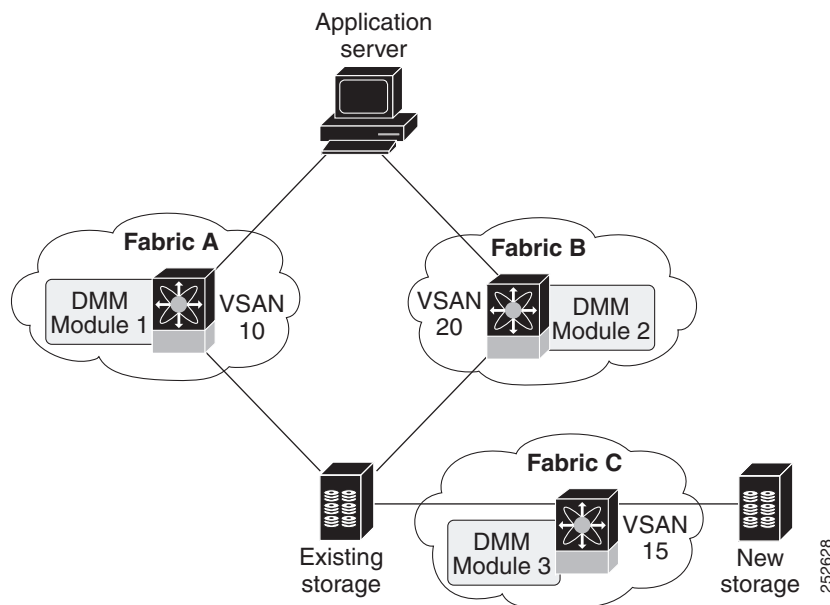
Note

The migration VSAN cannot be connected to data migration hosts and can only be connected to hosts that are not involved in the data migration.

Three-Fabric Topology

The three-fabric topology supports two production fabrics and one migration fabric. Each of the fabrics have one VSAN per fabric. (See [Figure 3-8](#).)

Figure 3-8 Three-Fabric Topology



The production fabric consists of the following:

- Two fabrics, Fabric A and Fabric B
- Two VSANs in each of the fabric, VSAN 10 in Fabric A and VSAN 20 in Fabric B
- Two DMM modules in each of the fabric, DMM Module 1 and DMM Module 2
- Ports for the application server and the existing storage
- Application server port and storage port in the same VSAN for each fabric

The VSANs in both the fabrics can have different numbers.

The migration fabric consists of the following:

- One fabric, Fabric C
- One VSAN, VSAN 15
- One DMM module, DMM Module 3
- Existing storage port and new storage port in the same VSAN

The migration fabric VSAN can have a different number from the production fabric VSAN.

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Two-Fabric Topology

The two-fabric configuration has one or two fabrics in the production fabric and one fabric in the migration fabric.

This section covers the following sample two-fabric configurations:

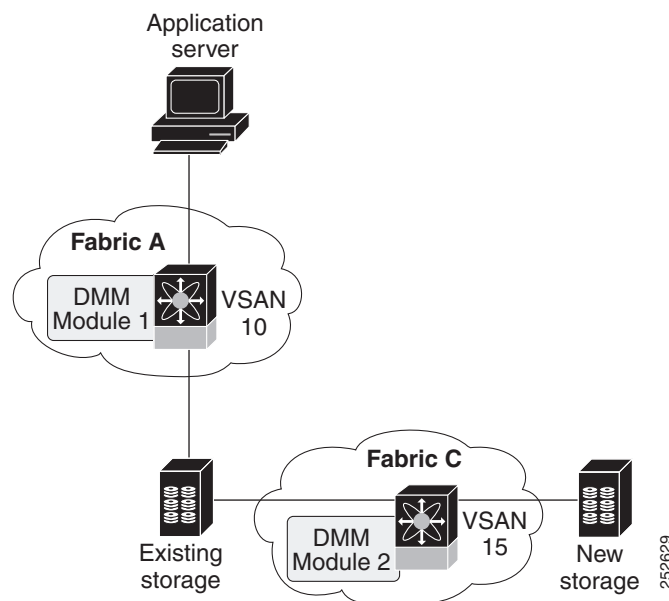
- [Two-Fabric Topology, Type 1, page 3-11](#)
- [Two-Fabric Topology, Type 2, page 3-12](#)
- [Two-Fabric Topology, Type 3, page 3-12](#)

Two-Fabric Topology, Type 1

Consider a two-fabric topology. (See [Figure 3-9](#).)

The topology has two fabrics, one each in the production fabric and migration fabric.

Figure 3-9 *Two-Fabric Topology, Type 1*



The production fabric consists of the following:

- One fabric, Fabric A
- One VSAN, VSAN 10 in Fabric A
- One DMM module, DMM Module 1
- Ports for the application server and the existing storage
- Application server and existing storage ports in the same VSAN

The migration fabric consists of the following:

- One fabric, Fabric C
- One VSAN, VSAN 15 in Fabric C
- One DMM module, DMM Module 2

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- Existing storage and new storage ports in the same VSAN

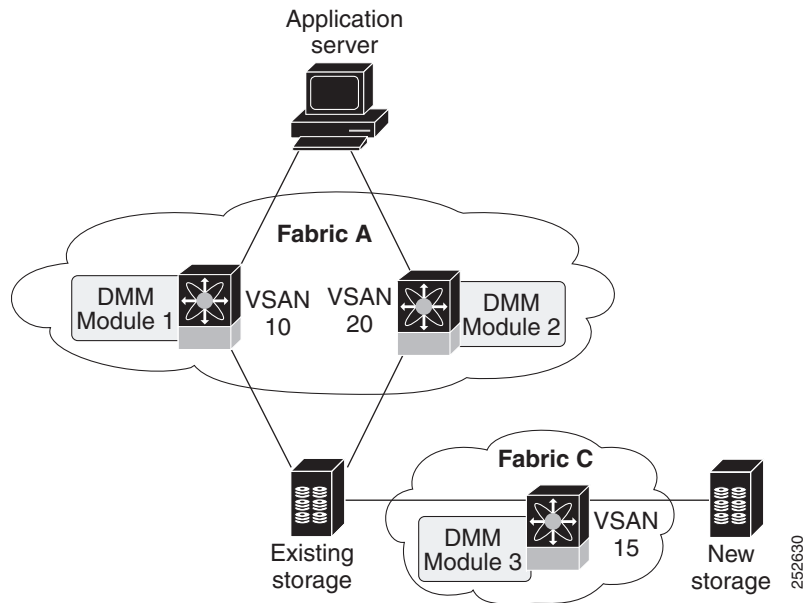
The migration fabric VSAN can have a different number from the production fabric VSAN.

Two-Fabric Topology, Type 2

Consider a two-fabric topology. (See [Figure 3-10](#).)

The topology has two fabrics in the production fabric and one fabric in the migration fabric.

Figure 3-10 Two-Fabric Topology, Type 2



The production fabric consists of:

- One fabric, Fabric A
- Two VSANs, VSAN 10 and VSAN 20
- Two DMM modules, DMM Module 1 for VSAN 10 and DMM Module 2 for VSAN 20
- Ports for the application server and the existing storage
- Application server port and existing storage port in each VSAN

The migration fabric consists of:

- One fabric, Fabric C
- One VSAN, VSAN 15
- One DMM module, DMM Module 3
- Existing storage port and new storage port in the same VSAN

The migration fabric VSAN number can be different from the production fabric VSAN number.

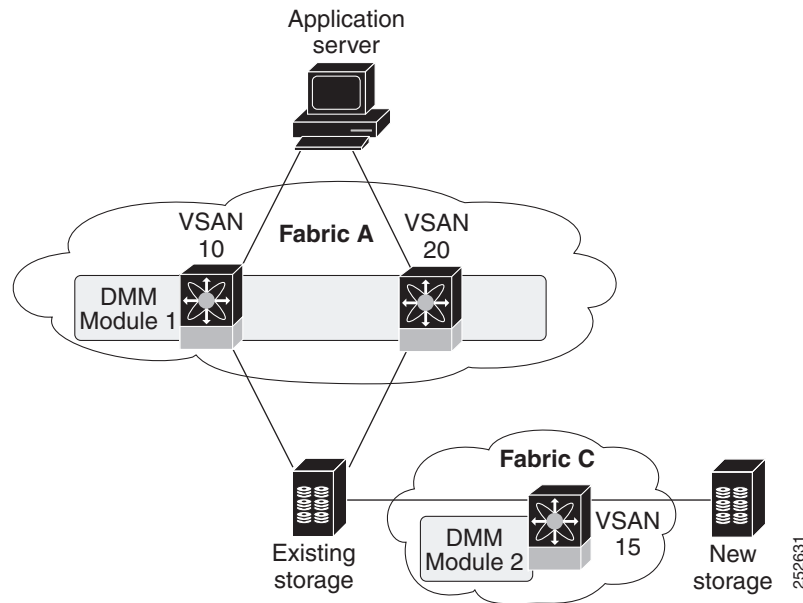
Two-Fabric Topology, Type 3

Consider a two-fabric sample topology. (See [Figure 3-11](#).)

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The topology has two fabrics in the production fabric and one fabric in the migration fabric. Each fabric has one DMM module.

Figure 3-11 Two-Fabric Topology, Type 3



The production fabric consists of:

- One fabric, Fabric A
- Two VSANs, VSAN 10 and VSAN 20
- One DMM module, DMM Module 1
- Ports for the application server and the existing storage
- Application server port and existing storage port in the same VSAN

The migration fabric consists of:

- One fabric, Fabric C
- One VSAN, VSAN 15
- One DMM module, DMM Module 2
- Existing storage port and new storage port in the same VSAN

The migration VSAN number can be different from the production VSAN numbers.

One-Fabric Topology

In the one-fabric configuration, there are two production VSANs and one migration VSAN in one fabric. This section covers the following topics:

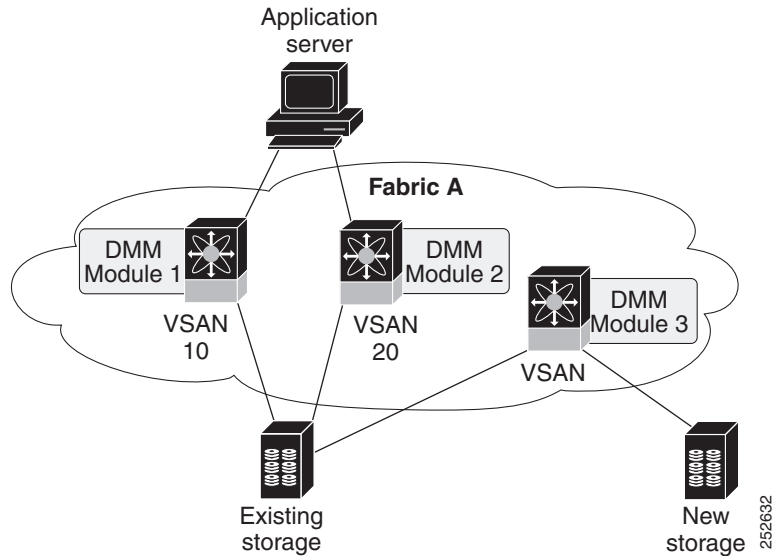
- [One-Fabric Topology, Type 1, page 3-14](#)
- [One-Fabric Topology, Type 2, page 3-14](#)

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One-Fabric Topology, Type 1

Consider a one-fabric topology. (See [Figure 3-12](#).)

Figure 3-12 One-Fabric Topology, Type 1



The production VSAN consists of:

- Two VSANs, VSAN 10 and VSAN 20
- Two DMM modules, DMM Module 1 for VSAN 10 and DMM Module 2 for VSAN 20
- Ports for the application server and the existing storage
- Application server port and storage port in the same VSAN

The migration VSAN consists of:

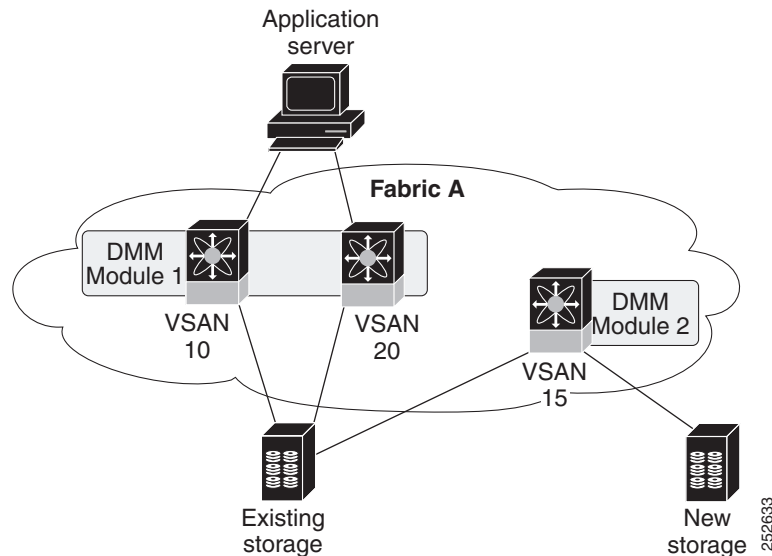
- One VSAN, VSAN 15
- One DMM module, DMM Module 3
- Application server port and new storage port in the same VSAN

One-Fabric Topology, Type 2

Consider a one-fabric topology. (See [Figure 3-13](#).)

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Figure 3-13 One-Fabric Topology, Type 2



The production VSAN consists of:

- Two VSANs, VSAN 10 and VSAN 20
- One DMM module for both the VSANs, DMM Module 1
- Port for the application server and the existing storage
- Application server port and existing storage port in the same VSAN

The migration VSAN consists of:

- One VSAN, VSAN 15
- One DMM module, DMM Module 2
- Existing storage port and new storage port in the same VSAN

The migration VSAN and the production VSAN should have different DMM modules.

Licensing Requirements for DMM SAN Topologies

The following table shows the licensing requirements for DMM SAN topologies:

License	License Requirement
DMM_FOR_SSM_PKG	DMM SAN topologies requires a license. Any feature not included in a license package is bundled with the Cisco NX-OS system images and is provided at no extra charge to you. For a complete explanation of the NX-OS licensing scheme, see the <i>Cisco MDS 9000 Family NX-OS Licensing Guide</i> .

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Guidelines and Limitations for DMM SAN Topologies

When determining the provisioning and configuration requirements for DMM, note the following guidelines related to a SAN topology:

- The existing and new storage must be connected to MDS switches.
- Switches connected to the storage ports must be running MDS SAN-OS Release 3.2(1) or NX-OS Release 4.1(1b) or later release.
- The MSM-18/4 module or MDS 9222i switch is supported on MDS 9500 Series switches and MDS 9200 Series switches. The switch must be running MDS SAN-OS Release 3.2(1) or NX-OS Release 4.1(1b) or later release.
- DMM requires a minimum of one MSM-18/4 module or MDS 9222i switch in each fabric.
- DMM does not support migration of logical volumes. For example, if the existing storage is a logical volume with three physical LUNs, DMM treats this as three LUN-to-LUN migration sessions.
- If you plan to deploy DMM and FCIP write acceleration together, there are restrictions in the supported topologies. Contact Cisco for assistance with designing the DMM topology.
- Minimum revisions should be updated to include the minimum supported MSM release, NX-OS Release 4.1(1b).



Note

In a storage-based migration, you might corrupt the storage if a new server port tries to access the storage ports once the migration has started. For example, a server port is returned to service, or a new server is brought online.

Configuring DMM SAN Topology Using Method 3

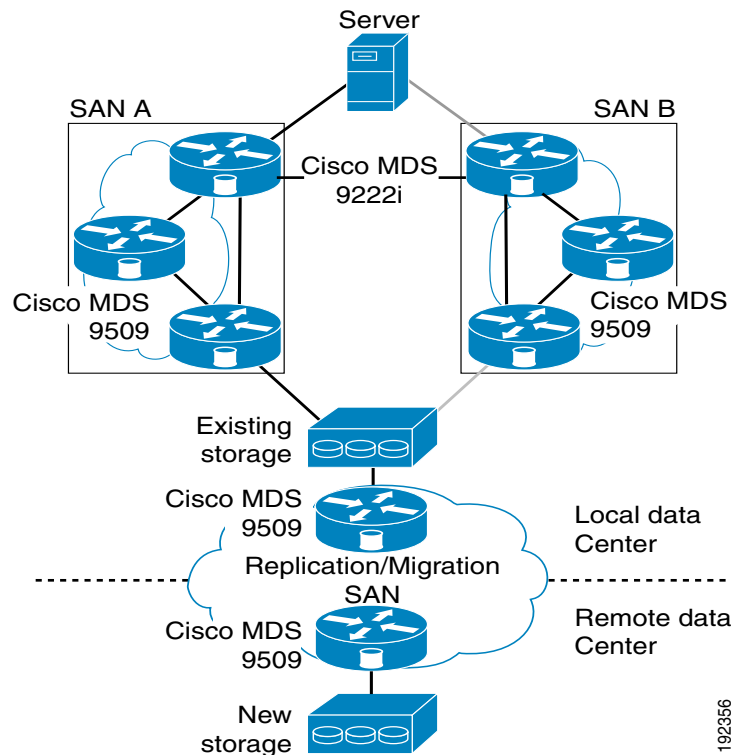
DMM Method 3 is a derivative of the DMM Method 2 (also called Asynchronous DMM). DMM Method 3 supports the dedicated migration fabric and is designed to address the problem of migrating data from an array port that is connected to a dedicated SAN that is different from the production SAN.

Many IT organizations require data migration to a remote data center. Some organizations prefer to use a dedicated storage port (on the existing storage array) connected to a separate physical fabric. This fabric is called the migration or replication fabric because it is used for data migration as well as continuous data replication services.

The LUNs mapped to the existing storage port in the migration and remote SAN are also mapped to another storage port on the array that is connected to the production SAN and accessed by one or more servers. The servers may also access the storage from two production SANs for redundancy. In this topology, the migration SAN becomes the third SAN to which the existing storage array is connected. The new storage array is connected only to the migration SAN and may not have any ports on the production SAN(s). (See [Figure 3-14](#).)

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Figure 3-14 DMM Method 3 Topology



In the above topology, DMM Method 3 should be used to migrate data from the existing storage to the new storage in the replication and migration SAN. DMM Method 3 requires an MSM-18/4 module or an MDS 9222i switch in each of the production SANs (with support for a maximum of two production SANs) and an MSM-18/4 module or MDS 9222i switch in the migration SAN. The DMM Method 3 job has three MSM-18/4 modules or MDS 9222i switches unlike Method 1 and Method 2, which can have a maximum of two MSM-18/4 modules or MDS 9222i switches. In Method 3, the MSM-18/4 module or MDS 9222i switch in the migration SAN is responsible for executing the sessions in the DMM job, and copying the data from the existing storage to the new storage. The MSM-18/4 module or MDS 9222i switch in the production SANs are responsible for tracking the server writes to the existing storage. No server writes are expected in the migration SAN.

Server writes in the Production SAN are logged by the MSM-18/4 module or the MDS 9222i switch in that fabric by maintaining a Modified Region Log (MRL) for each LUN that is migrated. This MRL is the same as the MRL maintained in DMM Method 2. The MSM-18/4 module or MDS 9222i switch in the migration SAN does not maintain any MRL for the LUN because no server writes to the existing storage LUN are expected in the migration SAN.

The MSM-18/4 module or the MDS 9222i switch in the migration SAN is responsible for retrieving the MRLs for a LUN from both the production SANs and for performing a union of the MRLs to create a superset of all modified blocks on the LUN via paths from both production SANs. The MSM-18/4 module or the MDS 9222i switch then copies all the modified regions from the existing storage LUN to the new storage LUN in the migration SAN. This process is repeated until the administrator is ready to finish the DMM job and perform a cutover. The finish operation on a Method 3 places all LUNs in the offline mode and performs a final pass over the combined MRL to synchronize the existing and new storage LUN in each session. This cutover process is the same process used in cutover operations in DMM Method 2.

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Field Descriptions for DMM SAN Topologies

LUNs

Field	Description
Id	The number of this LUN.
Capacity (MB)	The capacity of this LUN.
SerialNum	The serial number of this LUN.
OS	The operating system for which this LUN was discovered.
FC ID	The Fibre Channel ID for this LUN.

Data Mobility Manager

Modules

Field	Description for a Job Row	Description for a Session Row
Name	The name of the job.	This field is blank.
ID	System-assigned unique identifier for the job.	The session number within the job.
Mode	Server mode or storage mode.	This field is blank.
Existing Storage	Alias name of the port on the existing storage.	LUN number on the existing storage.
New Storage	Alias name of the port on the new storage.	LUN number on the new storage.
Status	Status of the job. A created or scheduled job has not yet started. An in-progress job is currently performing the migration. A completed or verified job has finished successfully. A stopped, failed or reset job has finished unsuccessfully.	Status of the session.
Time	Date and time that the job is scheduled to start. This field is blank if the job has not been scheduled. If the job is in progress, this field displays the date and time that the job started.	If the session is in progress, this field displays the estimated duration remaining until the session completes. Otherwise, the field is blank.
SSM1	Switch number and slot of the SSM executing the migration job.	Displays On SSM 1 if the session is executing on SSM 1.

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Field	Description for a Job Row	Description for a Session Row
SSM2	Switch number and slot of the SSM executing the migration job.	Displays On SSM 2 if the session is executing on SSM 2.
Type	Online or offline migration.	This field is blank.
Rate	Best effort, slow, medium or fast. You set the rate when you configure the migration job.	This field is blank.

DMM Rate

Field	Description
Fast(MBps)	Specifies the migration rate value for the fast attribute for a specific module.
Medium(MBps)	Specifies the migration rate value for the medium attribute for a specific module.
Slow(MBps)	Specifies the migration rate value for the slow attribute for a specific module.

Feature History for DMM SAN Topologies

Table 3-1 lists the release history for this feature.

Table 3-1 Feature History for DMM SAN Topologies

Feature Name	Releases	Feature Information
Method 3 Topology	4.1(3)	This is a new topology for DMM method 3.
	4.2(1)	This describes the DMM method 3 topology in detail. Three configurations — single-fabric, two-fabric, and three-fabric — were added to the Method 3 topology.

Send documentation comments to mdsfeedback-doc@cisco.com