

Migrating SANTap Switches

This chapter describes the SANTap migration procedures and the environments required for migrating SANTap from an existing switch, such as an MDS 9513 Director, to another switch, such as an MDS 9216 Switch. The chapter also discusses how to move a host from a dedicated data path processor (DPP) to a different DPP.

This chapter includes the following sections:

- [Migrating SANTap from a 9513 Chassis to a 9216 Chassis, page 3-1](#)
- [Configuring the Replacement Chassis, page 3-4](#)
- [Moving a Host from a Dedicated DPP to a Different DPP, page 3-4](#)

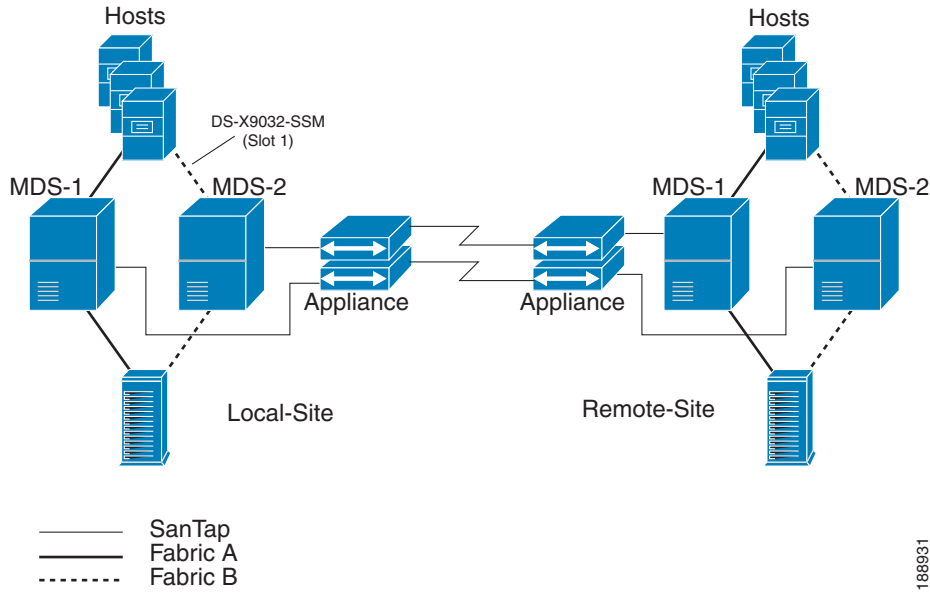
Migrating SANTap from a 9513 Chassis to a 9216 Chassis

This section explains the environments required for migrating SANTap from an existing MDS 9513 to a MDS 9216 switch and provides the migration procedure.

A dual-fabric topology setup provides extra resiliency during this migration procedure. Both of the fabrics in [Figure 3-1](#) are built using MDS 9513 Directors, which need to be replaced by MDS 9216 Switches. The appliance setup is also a dual-node cluster configured for continuous remote replication (CRR) between the local and remote sites.

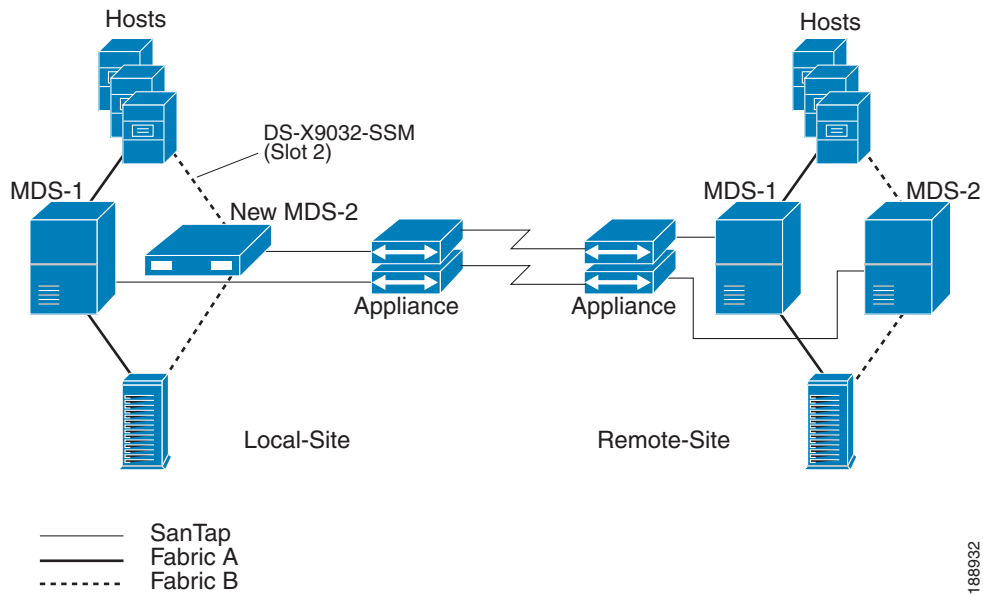
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Figure 3-1 Setup Before Migration



The Fabric B switch on the local site (MDS-2) should be replaced by an MDS 9216 (new MDS-2) switch. The same SSM card used in the current topology (MDS-2) will be swapped with the MDS 9216 switch on slot 2. After reconfiguration, the SANTap configuration with the appliance should be reestablished.

Figure 3-2 Setup After Migration



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This section includes the following topics:

- [Migrating the Switches, page 3-3](#)
- [Moving a Host from a Dedicated DPP to a Different DPP, page 3-4](#)
- [Configuring the Replacement Chassis, page 3-4](#)

Migrating the Switches

To complete the migration procedure, follow these steps:

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- Step 1** Shut down the host port connecting to MDS-2.
- Step 2** Shut down the storage port connecting to MDS-2.
- Step 3** Clear all ITL sessions associated and AVT and AVT LUNs. Use the following command to clear all ITLs:

```
switch# clear santap module slot-number {avt avt-pwwn [lun avt-lun] | itl target-pwwn
host-pwwn | session session-id}
```

- Step 4** Delete the relevant SANTap and splitter configuration of MDS-2 from the appliance.
- Step 5** Delete DVT from MDS-2.

```
switch# conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# no santap module num dvt target-pwwn pwwn
```

- Step 6** Delete CVT from MDS-2.

```
switch# conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# no santap module num appl-vsan ID
```

At this point, all MDS-2 associated DVTs, CVTs, AVT and AVT LUNs are deleted.

- Step 7** Clear all persistent SANTap information from the SSM module. Use the **clear ssm-nvram santap module 1** command.

This command will purge all SANTap information for the SSM in slot 1.

- Step 8** Unprovision the SANTap feature on MDS-2. Use the following command to unprovision SANTap:

```
switch# conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# no ssm enable feature santap module num
switch(config)# end
```

Verify that the SANTap feature is unprovisioned from MDS-2:

```
switch# show ssm provisioning
Module  Ports/Nodes  Application  Provisioning Status
-----
       7         1-32      santap      success
```

- Step 9** Power off the SSM module. The module is ready to be swapped over to the MDS 9216 chassis.

This completes the necessary steps on the MDS-2 switch. Ensure that the appropriate cable is connected to the MDS 9216 chassis.

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Configuring the Replacement Chassis

To configure the replacement MDS 9216 chassis (new MDS-2), follow these steps:

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- Step 1** Insert the SSM card removed from the MDS 9513 chassis and finish initial configuration of the switch.
 - Step 2** Ensure that the correct SAN-OS or NX-OS release SSI image is loaded on the switch.
 - Step 3** Install the license. An SSE license is required for the new chassis.
 - Step 4** Complete cable connection from the hosts, targets and the appliance to the new switch.
 - Step 5** Reconfigure SANTap on the new MDS 9216.

Refer to the “[Deploying SANTap](#)” section to reconfigure the new MDS 9216 chassis.

After reconfiguration, ensure that the appliance communicates to the new MDS-2 switch, and follow the same procedure to swap the Fabric A on the MDS-1 switch.

Moving a Host from a Dedicated DPP to a Different DPP



Note Follow this procedure only if advised by Cisco Technical Support.

To move a dedicated DPP to a different DPP, follow these steps:

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- Step 1** Shut down the Host Fibre Channel interface on the switch.
 - Step 2** Shut down the Target Fibre Channel interface on the switch.
 - Step 3** Delete the DVT associated to the host-target pair.


```
switch# conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# no santap module num dvt target-pwwn pwwn
```
 - Step 4** Clear the related SANTap information for that host-target pair and reload the SSM module.


```
switch(config)# clear santap module slot-number {avt avt-pwwn [lun avt-lun] | <itl
target-pwwn host-pwwn | session session-id}
```
 - Step 5** Reload the SSM module.


```
switch# reload module X
```

X is the SSM module number.
 - Step 6** Verify that the virtual entries purged in step 3 and 4 are not present after the module reload.
 - Step 7** Create a DVT on the DPP, using the **dvt-port num** option.


```
switch# santap module num dvt target-pwwn pwwn target-vsan vsan-id dvt-name name dvt-vsan
vsan-id dvt-port num
```

This will place the new DVT on DPP 4.
 - Step 8** Verify the new DVT gets created in the appropriate DPP by using the **show isapi virtual-nport database** command.

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- Step 9** Complete the remaining SANTap configuration to establish communication with the appliance.
For more information, refer to the “[Deploying SANTap](#)” section
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