



V Commands

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virtual-domain (SDV virtual device configuration submode)

To configure a persistent virtual domain, use the **virtual-domain** command in SDV virtual device configuration submode. To remove a persistent virtual domain, use the **no** form of the command.

virtual-domain *domain-name*
no **virtual-domain** *domain-name*

Syntax Description	<i>domain-name</i> Specifies the persistent virtual domain. The range is 1 to 239 or 0x1 to 0xef.						
Command Default	No virtual domains are configured by default.						
Command Modes	SDV virtual device configuration submode.						
Command History	<table border="1"> <thead> <tr> <th>Release</th><th>Modification</th></tr> </thead> <tbody> <tr> <td>3.1(2)</td><td>This command was introduced.</td></tr> </tbody> </table>	Release	Modification	3.1(2)	This command was introduced.		
Release	Modification						
3.1(2)	This command was introduced.						
Usage Guidelines	None.						
Examples	The following example shows how to configure a persistent virtual domain:						
	<pre>switch# config terminal Enter configuration commands, one per line. End with CNTL/Z. switch(config)# sdv virtual-device name sqal vsan 1 switch(config-sdv-virt-dev)# virtual-domain 1</pre>						
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>sdv enable</td><td>Enables or disables SAN device virtualization.</td></tr> <tr> <td>show sdv statistics</td><td>Displays SAN device virtualization statistics.</td></tr> </tbody> </table>	Command	Description	sdv enable	Enables or disables SAN device virtualization.	show sdv statistics	Displays SAN device virtualization statistics.
Command	Description						
sdv enable	Enables or disables SAN device virtualization.						
show sdv statistics	Displays SAN device virtualization statistics.						

virtual-fcid (SDV virtual device configuration submode)

To configure a persistent virtual FC ID, use the **virtual-fcid** command in SDV virtual device configuration submode. To remove a persistent virtual FC ID, use the the **no** form of the command.

virtual-fcid *fc-id*
no **virtual-fcid** *fc-id*

Syntax Description	<i>fc-id</i> Specifies the persistent virtual FC ID. The format is <i>0xhhhhhh</i> , where <i>h</i> is a hexadecimal number.
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Command Default	No virtual FC IDs are configured by default.
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Command Modes	SDV virtual device configuration submode.
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Command History	Release	Modification
	3.1(2)	This command was introduced.

Usage Guidelines	None.
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Examples	The following example shows how to configure a persistent virtual FC ID:
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```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# sdv virtual-device name sqa1 vsan 1
switch(config-sdv-virt-dev)# virtual-fcid 0xd66e54
```

Related Commands	Command	Description
	sdv enable	Enables or disables SAN device virtualization.
	show sdv statistics	Displays SAN device virtualization statistics.

vims range

To limit the Local VE IDs a hypervisor HBA driver can use, use the **vims range** command. By restricting the Local VE ID range to use a subset of bits in the CS_CTL field, it can be partitioned and shared with future Fibre Channel features.

vmis range rangevsan id

Syntax Description	<table border="1"> <tr> <td>range</td><td>Specifies the low range and high range values for Virtual Machine Identifier (VMID). The range is from 1 to 255.</td></tr> <tr> <td>vsan id</td><td>Specifies a VSAN ID for which the range is being configured.</td></tr> </table>	range	Specifies the low range and high range values for Virtual Machine Identifier (VMID). The range is from 1 to 255.	vsan id	Specifies a VSAN ID for which the range is being configured.
range	Specifies the low range and high range values for Virtual Machine Identifier (VMID). The range is from 1 to 255.				
vsan id	Specifies a VSAN ID for which the range is being configured.				

Command Default	None
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Command Modes	Configuration mode (config)
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Command History	Release	Modification
	8.2(1)	This command was introduced.

Usage Guidelines	There is no mechanism in the VMID protocol for the Virtual Machine Identification Server (VMIS) to notify the attached hypervisor HBA driver clients of a new VE ID range. For clients to detect a new range, they must query the VMIS again. To force the clients to query again after a range modification, the user must manually log the FCIDs out and back in to the fabric. Therefore, local clients continue to tag the VM traffic with the previous range until this occurs. This restriction applies when enabling and disabling VMID, and changing the VE ID range of a VSAN.
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Examples	This example shows how to configure multiple Local VE ID ranges for use by VEMs in a VSAN:
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```
switch# configure terminal
switch(config)# vmis range 3-45,51-70 vsan 1
```

Related Commands	Command	Description
	feature vmis	Enables the VMID feature.
	show vmis range	Displays the VMIS range.

vrrp

To enable VRRP, use the vrrp command in configuration mode. Use the **no** form of the command to revert to the factory defaults or to negate a command.

```
vrrp ipv4-vr-group-number {address ip-address [secondary] | advertisement-interval seconds | authentication {md5 keyname spi index | text password} | preempt | priority value | shutdown | track interface {mgmt 0 | vsan vsan-id} } ipv6 ipv6-vr-group-number {address ipv6-address | advertisement-interval centiseconds | preempt | priority value | shutdown | track interface {mgmt 0 | vsan vsan-id}}}
no vrrp ipv4-vr-group-number {address ip-address [secondary] | advertisement-interval seconds | authentication {md5 keyname spi index | text password} | preempt | priority value | shutdown | track interface {mgmt 0 | vsan vsan-id}}}
```

Syntax Description	
<i>ipv4-vr-group-number</i>	Specifies an IPv4 virtual router group number. The range is 1 to 255.
address <i>ip-address</i>	Adds or removes an IP address to the virtual router.
secondary	(Optional) Configures a virtual IP address without an owner.
advertisement-interval <i>seconds</i>	Sets the time interval between advertisements. For IPv4, the range is 1 to 255 seconds.
authentication	Configures the authentication method.
md5 <i>keyname</i>	Sets the MD5 authentication key. Maximum length is 16 characters.
spi <i>index</i>	Sets the security parameter index. The range is 0x0 to 0xffffffff.
text <i>password</i>	Sets an authentication password. Maximum length is 8 characters.
preempt	Enables preemption of lower priority master.
priority <i>value</i>	Configures the virtual router priority. The range is 1 to 254.
shutdown	Disables the VRRP configuration.
track	Tracks the availability of another interface.
interface fc <i>slot/port</i>	Adds a member using the Fibre Channel interface to a Cisco MDS 9000 Family switch.
mgmt 0	Specifies the management interface.
vsan <i>vsan-id</i>	Specifies a VSAN ID. The range is 1 to 4093.
ipv6 <i>ipv6-vr-group-number</i>	Specifies VRRP IPv6 on the interface. The range is 1 to 255.
address <i>ipv6-address</i>	Adds or removes an IPv6 address to the virtual router.

advertisement-interval <i>centiseconds</i>	Sets the time interval between advertisements. For IPv6, the range is 100 to 4095 centiseconds.
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Command Default Disabled.

Command Modes Interface configuration mode.

Release	Modified
1.0(2)	This command was introduced.
3.0(1)	<ul style="list-style-type: none"> • Added the IPv6 option. • Added the address and advertisement-interval options that are specific to IPv6.

Usage Guidelines You enter the Virtual Router configuration submode to access the options for this command. From the VSAN or mgmt0 (management) interface configuration submode, enter **vrrp** *number* to enter the **switch(config-if-vrrp) #** prompt. By default, a virtual router is always disabled (**shutdown**). VRRP can be configured only if this state is disabled. Be sure to configure at least one IP address before attempting to enable a virtual router.

The total number of VRRP groups that can be configured on a Gigabit Ethernet port, including main interfaces and subinterfaces, cannot exceed seven. This limitation applies to both IPv4 and IPv6 groups.



Note If you configure secondary VRRP IPv6 addresses on an IPFC VSAN interface, you must remove the secondary VRRP IPv6 addresses before downgrading to a release prior to Cisco Release 3.0(1). This is required only when you configure IPv6 addresses.

Examples

The following example enables VRRP configuration:

```
switch(config-if-vrrp) # no
    shutdown
```

The following example disables VRRP configuration:

```
switch(config-if-vrrp) # shutdown
```

The following example configures an IPv4 address for the selected VRRP:

```
switch# config terminal
switch(config)# interface vsan
1 switch(config-if)# vrrp 250
switch(config-if-vrrp) # address 10.0.0.10
```

Related Commands	Command	Description
	clear vrrp	Clears all the software counters for the specified virtual router.
	show vrrp	Displays VRRP configuration information.

vsan (iSCSI initiator configuration and iSLB initiator configuration)

To assign an iSCSI or iSLB initiator to a VSAN other than the default VSAN, use the **vsan** command in iSCSI initiator configuration submode or iSLB initiator configuration submode. To disable this feature, use the **no** form of the command.

vsan *vsan-id*
no vsan *vsan-id*

Syntax Description	<i>vsan-id</i>	Specifies a VSAN ID. The range 1 to 4093.
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Command Default None.

iSCSI initiator configuration submode iSLB initiator configuration submode.

Command History	Release	Modification
	1.3(2)	This command was introduced.
	3.0(1)	Added iSLB initiator configuration submode.

Usage Guidelines When you configure an iSLB initiator in a VSAN other than VSAN 1 (the default VSAN), the initiator is automatically removed from VSAN 1. For example, if you configure an iSLB initiator in VSAN 2 and you also want it to be present in VSAN 1, you must explicitly configure the initiator in VSAN 1.

The following example assigns an iSCSI initiator to a VSAN other than the default VSAN:

The following example assigns an iSLB initiator to a VSAN other than the default VSAN:

```
switch# config t
switch(config)# islb initiator ip-address 100.10.10.10

ips-hac2(config-islb-init)# vsan ?
<1-4093> Enter VSAN

ips-hac2(config-islb-init)# vsan 10
```

The following example removes the iSLB initiator:

```
switch (config-islb-init) # no  
vsan 10
```

Related Commands	Command	Description
	iscsi initiator name	Assigns an iSCSI name and changes to iSCSI initiator configuration submode.
	show islb initiator	Displays iSLB initiator information.
	show iscsi initiator	Displays information about a configured iSCSI initiator.
	show iscsi initiator configured	Displays iSCSI initiator information for the configured iSCSI initiator.
	show iscsi initiator detail	Displays detailed iSCSI initiator information.
	show iscsi initiator summary	Displays iSCSI initiator summary information.
	show islb initiator	Displays iSLB initiator information.
	show islb initiator configured	Displays iSLB initiator information for the configured iSLB initiator.
	show islb initiator detail	Displays detailed iSLB initiator information.
	show islb initiator summary	Displays iSLB initiator summary information.

vsan database

To create multiple fabrics sharing the same physical infrastructure, assign ports to VSANs, turn on or off interop mode, load balance either per originator exchange or by source-destination ID, and in order to be able to define these VSANs and specify the various VSAN attributes, use the `vsan database` command in the `vsan database` submode.

Syntax Description This command has no arguments or keywords.

Command Default None.

Command Modes Configuration mode.

Command History	Release	Modification
1.2(2)	This command was introduced.	

Usage Guidelines None.

Examples The following examples show how to create multiple fabrics sharing the same physical infrastructure and how to assign ports to VSANs:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsanc-db) #
```

Related Commands	Command	Description
	vsan wwn	Configures a WWN for a suspended VSAN that has interop mode 4 enabled.

vsan interface

To add interfaces to VSAN, use the **vsan interface** command. To delete a configured role, use the **no** form of this command.

```
vsan vsan-id interface {fc slot/port | fcip fcip-id | iscsi slot/port | port-channel portchannel-number
| vfc ID/slot | vfc-port-channel ID }
no vsan vsan-id interface {fc slot/port | fcip fcip-id | iscsi slot/port | port-channel portchannel-number
| vfc ID/slot | vfc-port-channel ID }
```

Syntax Description	vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.
	interface fc <i>slot/port</i>	(Optional) Specifies the Fibre Channel interface slot and port number.
	fcip <i>fcip-id</i>	(Optional) Specifies the FCIP interface.
	iscsi <i>slot/port</i>	(Optional) Configures the iSCSI interface slot or port.
	port-channel <i>portchannel-number</i>	(Optional) Specifies the port channel number. The range is 1 to 256.
	vfc <i>ID/slot</i>	(Optional) Specifies the virtual Fibre Channel interface ID or slot. The range is 1 to 8192.
	vfc-port-channel <i>ID</i>	(Optional) Specifies the virtual Fibre Channel port channel virtual interface ID. The range is 513 to 4096.

Command Default All interfaces are in VSAN 1 by default.

Command Modes Configuration mode—vsan database submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples The following example show how to add interfaces to VSAN:

```
switch# configure
switch(config)# vsan database
switch(config-vsan-db)# vsan 2
switch(config-vsan-db)# vsan 2 interface iscsi 2/1
switch(config-vsan-db)# end
switch#
```

vsan interop

To specify the VSAN interoperability mode value, use the **vsan interop** command. Use the **no** form of this command to delete a configured role.

```
vsan vsan-id interop [mode] [loadbalancing {src-dst-id | src-dst-ox-id}]
no vsan vsan-id interop [mode] [loadbalancing {src-dst-id | src-dst-ox-id}]
```

Syntax Description	
vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.
interop	Turns on interoperability mode.
<i>mode</i>	Specifies the interop mode. The range is 1 to 4.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default interop mode none and src-dst-ox-id.

Command Modes Configuration mode—vsan database submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples The following example shows how to specify the Interoperability mode value for Src-id/dst-id loadbalancing:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2
switch(config-vsan-db)# vsan 1 interop 1 loadbalancing src-dst-id
vsan 1: interoperability mode 1 allowed domain list [97-127] does not include all
assigned and configured domains or conflicts with existing allowed domain lists
switch(config-vsan-db)#

```

vsan loadbalancing

To configure the VSAN loadbalancing scheme, use the **vsan loadbalancing** command. Use the **no** form of this command to delete a configured role.

```
vsan vsan-id loadbalancing {src-dst-id | src-dst-ox-id}
no vsan vsan-id loadbalancing {src-dst-id | src-dst-ox-id}
```

Syntax Description	<table border="1"> <tr> <td>vsan <i>vsan-id</i></td><td>Specifies the VSAN ID. The range is 1 to 4093.</td></tr> <tr> <td>loadbalancing</td><td>Configures load-balancing scheme.</td></tr> <tr> <td>src-dst-id</td><td>Sets src-id/dst-id for load-balancing.</td></tr> <tr> <td>src-dst-ox-id</td><td>Sets ox-id/src-id/dst-id for load-balancing (default).</td></tr> </table>	vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.	loadbalancing	Configures load-balancing scheme.	src-dst-id	Sets src-id/dst-id for load-balancing.	src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).
vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.								
loadbalancing	Configures load-balancing scheme.								
src-dst-id	Sets src-id/dst-id for load-balancing.								
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).								

Command Default . src-dst-ox-id

Command Modes Configuration mode—vsan database submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples The following example shows how to configure loadbalancing scheme for a Src-id/dst-id loadbalancing:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2 loadbalancing src-dst-ox-id
switch(config-vsan-db) #
```

vsan name

vsan name

To assign a name to a VSAN, use the **vsan name** command. Use the **no** form of this command to delete a configured role.

```
vsan vsan-id name name interop [mode] loadbalancing {src-dst-idsrc-dst-ox-id}
loadbalancing {src-dst-idsrc-dst-ox-id}
suspend [interop [mode] [loadbalancing {src-dst-idsrc-dst-ox-id}]]
no vsan vsan-id name name interop [mode] loadbalancing {src-dst-idsrc-dst-ox-id}
loadbalancing {src-dst-idsrc-dst-ox-id}
suspend [interop [mode] [loadbalancing {src-dst-idsrc-dst-ox-id}]]
```

Syntax Description	vsan <i>vsan-id</i> Specifies the VSAN ID. The range is 1 to 4093.
	name <i>name</i> Assigns a name to the VSAN. Maximum length is 32 characters.
	interop Turns on interoperability mode.
	<i>mode</i> Specifies the interop mode. The range is 1 to 4.
	loadbalancing Configures load-balancing scheme.
	src-dst-id Sets src-id/dst-id for load-balancing.
	src-dst-ox-id Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default no name, no suspend, interop mode none and src-dst-ox-id.

Command Modes Configuration mode—vsan database submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples The following example shows how to assign a name to a VSAN:

```
switch# config terminal
switch(config)# vsan database
switch(config-vsan-db)# vsan 2 name vname
switch(config-vsan-db) #
```

vsan policy deny

To configure a VSAN-based role, use the **vsan policy deny** command in configuration mode. Use the **no** form of this command to delete a configured role.

```
vsan policy deny permit vsan vsan-id
no vsan policy deny permit vsan vsan-id
```

Syntax Description	<table border="1"> <tr> <td>permit</td><td>Remove commands from the role.</td></tr> <tr> <td>vsan <i>vsan-id</i></td><td>Specifies the VSAN ID. The range is 1 to 4093.</td></tr> </table>	permit	Remove commands from the role.	vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.
permit	Remove commands from the role.				
vsan <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.				

Command Default Permit.

Command Modes Configuration mode—role name submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.

Examples The following example places you in sangroup role submode:

```
switch# config t
switch(config)# role name sangroup
switch(config-role)#
```

The following example changes the VSAN policy of this role to deny and places you in a submode where VSANs can be selectively permitted:

```
switch(config)# vsan policy deny
switch(config-role-vsan)
```

The following example deletes the configured VSAN role policy and reverts to the factory default (permit):

```
switch(config-role)# no vsan policy deny
```

The following example permits this role to perform the allowed commands for VSANs 10 through 30:

```
switch(config-role)# permit vsan 10-30
```

vsan policy deny

The following example removes the permission for this role to perform commands for VSAN 15 to 20:

```
switch(config-role-vsanc) # no permit vsan 15-20
```

vsan suspend

To suspend a VSAN, use the **vsan suspend** command. Use the **no** form of this command to delete a configured role.

```
vsan vsan-id suspend [interop [mode] [loadbalancing {src-dst-id | src-dst-ox-id}] src-dst-ox-id]
no vsan vsan-id suspend [interop [mode] [loadbalancing {src-dst-id | src-dst-ox-id}] src-dst-ox-id]
```

Syntax Description	
vsan vsan-id	Specifies the VSAN ID. The range is 1 to 4093.
suspend	Suspends the VSAN.
interop	Turns on interoperability mode.
<i>mode</i>	Specifies the interop mode. The range is 1 to 4.
loadbalancing	Configures load-balancing scheme.
src-dst-id	Sets src-id/dst-id for load-balancing.
src-dst-ox-id	Sets ox-id/src-id/dst-id for load-balancing (default).

Command Default interop mode none and src-dst-ox-id..

Command Modes Configuration mode—vsan database submode.

Command History	Release	Modification
	1.2(1)	This command was introduced.

Usage Guidelines You can configure a role so that it only allows commands to be performed for a selected set of VSANs. By default, the VSAN policy of a role is **permit**. In other words, the role can perform commands configured by the **rule** command in all VSANs. In order to selectively allow VSANs for a role, the VSAN policy needs to be set to **deny** and then the appropriate VSANs need to be permitted.



Danger vsan suspend command done on an active VSAN is a very invasive command that requires a lot of supervisor processing. The supervisor is responsible for logging each device out, deprogramming ACLs, removing FCNS entries, generating RSCNs, etc. Because of this, care should be taken when doing this when there are many devices logged into the switch in the VSAN. After suspending the VSAN a minimum of 5 minutes should elapse prior to doing an no vsan suspend to ensure that all of the prior processing has completed.

Examples

The following example shows how to suspend a VSAN and enable interop mode 4:

```
switch# config t
switch(config)# vsan database
switch(config-vsan-db)# vsan 100 suspend
```

vsan suspend

switch(config-vsanc-db)#

vsan wwn fcid

To allocate an FCID to a WWN in the persistent FCID database, use the **vsan wwn fcid** command. To remove this allocation, use the **no** form of this command.

```
vsan vID wwn wID fcid fID [ area ] [ dynamic ]
no vsan vID wwn wID fcid fID [ area ] [ dynamic ]
```

Syntax Description	
vsan vID	Specifies the VSAN ID. Range is 1–4093.
wwn wID	Specifies the MAC address. The address is in the format hh:hh:hh:hh:hh:hh:hh:hh.
fcid fID	Specifies the persistent FCID. Range is 0x0-0xffffffff.
area	(Optional) Specifies to reserve all non xxxx00 FCIDs in the specified domain and area from being allocated to devices.
dynamic	(Optional) Marks the entry as a dynamic type.

Command Default A unique FCID is allocated to a WWN the first time it FLOGIs in to the switch.

Command Modes FCID database configuration submode (config-fcid-db)

Command History	Release	Modification
	1.1(1)	This command was introduced.

Usage Guidelines To assist in predictability, the MDS switch has the capability to always assign the same FCID to the same WWN of a device that logs in to the fabric. This allows devices to be zoned by FCID, for example. When the persistent FCID database is enabled, a **vsan vID wwn wID fcid fID** configuration line is automatically added whenever a device FLOGIs in to the switch. There may be occasions where this configuration needs to be manually manipulated, for example when an HBA is replaced then the old WWN must be removed from the FCID and the new HBA WWN assigned to the same FCID.

To allow only a single FCID to be allocated in a particular domain and area, set the last 2 digits of the **fcid** argument as *00* and use the **area** option. This causes the *xxxx00* FCID from the domain and area to be allocated to the WWN and the 255 remaining FCIDs in the area to be unavailable.

The **dynamic** keyword marks an entry as purgeable by the **purge fcdomain fcid** command. If an entry is static (not marked as dynamic) then it will be ignored by the **purge fcdomain fcid** command. Entries automatically created by the system in the FCID persistent database are marked as dynamic.

To avoid assigning a duplicate FCID, use the **show fcdomain address-allocation vsan** command to display the FCIDs that are in use.

Examples

The following example displays how to configure the WWN of a device with an FCID in VSAN 10 as a static entry:

vsan wwn fcid

```

switch# configure
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# fcdomain fcid database
switch(config-fcid-db)# vsan 10 wwn 33:e8:00:05:30:00:16:df fcid 0x070128

```

The following example displays how to configure the WWN of a device with an FCID in VSAN 10 as a dynamic type entry:

```

switch# configure
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# fcdomain fcid database
switch(config-fcid-db)# vsan 10 wwn 33:e8:00:05:30:00:16:df fcid 0x070128 dynamic

```

Related Commands	Command	Description
	fcdomain fcid persistent	Enables the persistent FCID feature.
	purge fcdomain fcid	Purges unused dynamic entries from the persistent FCID database.
	show fcdomain	Displays the Fibre Channel domain information.
	show fcdomain fcid persistent	Displays the persistent FCID database.