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## Z Commands

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The commands in this chapter apply to the Cisco MDS 9000 Family of multilayer directors and fabric switches. All commands are shown here in alphabetical order regardless of command mode. Please see the Command Mode section to determine the appropriate mode for each command. For more information, see the *Cisco MDS 9000 Family Configuration Guide*.

- zone copy
- zone default-zone
- zone merge
- zone name
- zoneset

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## zone copy

To copy the active zoneset to the full zoneset, use the **zone copy** command.

**zone copy** *active -zoneset full-zoneset* [**vsan** *integer*]

Syntax Description		
	<i>active-zoneset</i>	The zone name of the active zoneset.
	<i>full-zoneset</i>	The zone name of the full zoneset.
	<b>vsan</b>	Indicates that the active-zoneset.
	<i>integer</i>	The id of the VSAN (1-4096).

**Defaults** None

**Command Modes** EXEC

**Usage Guidelines** None.

**Examples**

```
switch# zone copy test1 test2 in default vsan only (vsan1)
switch#
```

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## zone default-zone

To define whether a default zone (nodes not assigned a created zone) will permit or deny access to all in the default zone, use the **zone default-zone** command. Use the **no** form of this command to deny.

**zone default-zone permit vsan** *number*

<b>Syntax Description</b>	<b>zone</b>	Zone configuration command.
	<b>default-zone</b>	Define default zoning behavior.
	<b>permit</b>	Default permit.
	<b>vsan</b>	Defines default zoning behavior for the specified VSAN.
	<i>number</i>	The ID of the VSAN (1-4096).

**Defaults** permit

**Command Modes** Configuration

**Usage Guidelines** None

### Examples

```
switch# config t
switch(config)# zone ?
    default-zone  Defines default zoning behavior
    name          Configure a zone

switch(config)# zone default-zone ?
    permit      Default permit

switch(config)# zone default-zone permit ?
    vsan        Defines default zoning behavior for the specified VSAN

switch(config)# zone default-zone permit vsan ?
    <1-4093>    VSAN id range

switch(config)# zone default-zone permit vsan 2 ?
    <cr>        Carriage Return
```

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## zone merge

To merge zone server databases, use the **zone merge** command. This command can be used to recover from link isolation due to zone merge failure

**zone merge interface** [*fc* | *port-channel*] *integer* {*import* | *export*} *vsan vsan int range*

<b>Syntax Description</b>	<b>interface</b>	The name of the interface.
	<b>fc integer</b>	A Fibre Channel interface. The <i>integer</i> is the slot number.
	<b>port-channel integer</b>	A Port Channel interface. The <i>integer</i> is the Port Channel number.
	<b>export</b>	Exports the zone server database to the adjacent switch on the specified interface. The active zoneset in this switch becomes the activated zoneset of the merged SAN.
	<b>import</b>	Imports the zone server database to the adjacent switch on the specified interface. The active zoneset in the adjacent switch becomes the activated zoneset of the merged SAN.
	<b>vsan</b>	Merges the zone server database of a VSAN on the specified interface.
	<b>vsan int range</b>	The id of the VSAN (1-4096).

**Defaults** None

**Command Modes** EXEC

**Usage Guidelines** None.

**Examples**

```
switch# zone merge interface port-channel 3 export vsan 3
switch#
```

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## zone name

To create a zone, use the **zone name** command.

```
zone name name vsan number [ exit ] [ member fcalias name | fcid value | fwwn value | pwwn value ] [ no ]
```

### Syntax Description

<b>zone</b>	Zone configuration command.
<b>name</b>	Configuration zone.
<i>name</i>	Enter the name of zone (Max Size - 64).
<b>vsan</b>	Configure a zone on a VSAN.
<i>number</i>	The ID of the VSAN (1-4096).
<b>exit</b>	Exit from this submode
<b>member</b>	Add a member to zone
<b>fcalias</b>	Add fcalias to zone
<i>name</i>	Enter the name of fcalias (Max Size - 64)
<b>fcid</b>	Add FCID member to zone
<b>fwwn</b>	Add Fabric Port WWN member to zone
<b>pwwn</b>	Add Port WWN member to zone
<b>no</b>	Negate a command or set its defaults

### Defaults

None

### Command Modes

Configuration

### Usage Guidelines

Zones are assigned to Zoneset, Zoneset are then activated from one switch and propagates across fabric to all switches. Zones allow security by permitting and denying access between nodes (hosts and storage). **zone name** commands are issued from the config t mode. Configure a zone for a VSAN from the config-zone sub mode.

### Examples

```
switch# config t
switch(config)# zone name ?
  <WORD> Enter the name of zone (Max Size - 64)

switch(config)# zone name Somename ?
  vsan Configure a zone on a VSAN

switch(config)# zone name Somename vsan ?
  <1-4093> VSAN id
switch(config)# zone name somename vsan 1
switch(config-zone)# ?
Configure a zone for a VSAN:
  exit Exit from this submode
  member Add a member to zone
```

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```

no          Negate a command or set its defaults

switch(config-zone)# ?
Configure a zone for a VSAN:
  exit      Exit from this submode
  member    Add a member to zone
  no        Negate a command or set its defaults

switch(config-zone)# member ?
  fcalias   Add fcalias to zone
  fcid      Add FCID member to zone
  fwwn      Add Fabric Port WWN member to zone
  pwwn      Add Port WWN member to zone

switch(config-zone)# member fcalias ?
  <WORD>    Enter the name of fcalias (Max Size - 64)

switch(config-zone)# member fcalias aabb ?
  <cr>      Carriage Return

switch(config-zone)# member fcalias aabb
Alias not present
switch(config-zone)# member fcid ?
  <0xhhhhh> Enter FCID

switch(config-zone)# member fwwn ?
  <hh:hh:hh:hh:hh:hh:hh:hh> Enter Fabric Port WWN

switch(config-zone)# member pwwn ?
  <hh:hh:hh:hh:hh:hh:hh:hh> Enter Port WWN

switch(config-zone)# member pwwn

```

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## zoneset

To group zones under one zoneset, use the **zoneset** command.

```
zoneset [ activate name name vsan number ] [distribute full vsan vsan-id][ name string vsan
vsan-id]
```

Syntax Description	zoneset	Zoneset configuration command.
	<b>activate</b>	Activate a zoneset
	<b>name</b>	Zoneset name.
	<i>name</i>	Enter name for zoneset.
	<b>distribute full</b>	Enable zoneset propagation
	<b>name</b>	Configure a zoneset
	<b>vsan</b>	Activate a zoneset on the specified VSAN. The id of the VSAN (1-4096).
	<i>number</i>	The id of the VSAN (1-4096).

**Defaults** None

**Command Modes** Configuration

**Usage Guidelines** Zones are activated by activating the parent Zoneset.

### Examples

```
switch# conf t
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# zoneset ?
  activate  Activates a zoneset
  distribute Enable zoneset propagation
  name      Configures a zoneset

switch(config)# zoneset name ?
  <WORD>   Enter the name of zoneset

switch(config)# zoneset name gottons ?
  vsan     Configures a zoneset on a VSAN

switch(config)# zoneset name gottons vsan 333
switch(config-zoneset)# ?
Configures a zoneset for a VSAN:
  exit     Exit from this submode
  member   Add zone to zoneset
  no       Negate a command or set its defaults
  zone     Configures an __inline__ zone

switch(config-zoneset)# member getsome

switch(config)# zoneset activate name gottons vsan 333
```

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```
Zoneset Activation initiated. check zone status  
switch(config)#
```