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## CHAPTER 15

# M 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. See [“About the CLI Command Modes”](#) section on page 1-3 to determine the appropriate mode for each command. For more information, refer to the *Cisco MDS 9000 Family CLI Configuration Guide*.

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## match

To configure QoS class map match criteria, use the **match** command in class map configuration submode. Remove QoS class map match criteria, use the **no** form of the command.

```
match { any | destination-address fc-id [mask address-mask] | destination-device-alias name |
destination-wwn wwn-id | input-interface fc slot/port | source-address fc-id [mask
address-mask] | source-device-alias name | source-wwn wwn-id }
```

```
no match { any | destination-address fc-id [mask address-mask] | destination-device-alias name
| destination-wwn wwn-id | input-interface fc slot/port | source-address fc-id [mask
address-mask] | source-device-alias name | source-wwn wwn-id }
```

### Syntax Description

<b>any</b>	Enables matching of any frame.
<b>destination-address</b> <i>fc-id</i>	Specifies the destination FCID to match frames.
<b>mask</b> <i>address-mask</i>	Specifies an address mask to match frames. The range is 0x0 to 0xffffffff.
<b>destination-device-alias</b> <i>name</i>	Specifies the destination device alias to match frames. Maximum length is 64 characters.
<b>destination-wwn</b> <i>wwn-id</i>	Specifies the destination WWN to match frames.
<b>input-interface fc</b> <i>slot/port</i>	Specifies the source Fibre Channel interface to match frames.
<b>source-address</b> <i>fc-id</i>	Specifies the source FCID to match frames.
<b>source-device-alias</b> <i>name</i>	Specifies the source device alias to match frames. Maximum length is 64 characters.
<b>source-wwn</b> <i>wwn-id</i>	Specifies the source WWN to match frames.

### Defaults

None.

### Command Modes

Class map configuration submode.

### Command History

Release	Modification
1.3(1)	This command was introduced.
2.0(x)	Added the <b>destination-device-alias</b> and <b>source-device-alias</b> options.

### Usage Guidelines

You can access this command only if you enable the QoS data traffic feature using the **qos enable** command.

### Examples

The following example creates a class map called MyClass1 and places you in the class map configuration submode to match any (default) criteria specified for this class.

```
switch# config terminal
```

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```
switch(config)# qos class-map MyClass1 match-any
switch(config-cmap)# match any
```

The following example specifies a destination address match for frames with the specified destination FCID.

```
switch(config-cmap)# match destination-address 0x12ee00
```

The following example specifies a source address and mask match for frames with the specified source FCID. Mask refers to a single or entire area of FCIDs.

```
switch(config-cmap)# match source-address 0x6d1090 mask 0
```

The following example specifies a destination WWN to match frames.

```
switch(config-cmap)# match destination-wwn 20:01:00:05:30:00:28:df
Operation in progress. Please check class-map parameters
```

The following example specifies a source WWN to match frames.

```
switch(config-cmap)# match source-wwn 23:15:00:05:30:00:2a:1f
Operation in progress. Please check class-map parameters
```

The following example specifies a source interface to match frames.

```
switch(config-cmap)# match input-interface fc 2/1
Operation in progress. Please check class-map parameters
```

The following example removes a match based on the specified source interface.

```
switch(config-cmap)# no match input-interface fc 3/5
```

### Related Commands

Command	Description
qos enable	Enables QoS.
show qos	Displays QoS information.

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## match address

To configure match addresses in an IPsec crypto map with an access control list (ACL), use the **match address** command in IPsec crypto map configuration submode. To not match addresses, use the **no** form of the command.

**match address** *acl-name*

**no match address** [*acl-name*]

<b>Syntax Description</b>	<i>acl-name</i>	Specifies the ACL name. Maximum length is 64 characters.
<b>Defaults</b>	None.	
<b>Command Modes</b>	IPsec crypto map configuration submode.	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	2.0(x)	This command was introduced.
<b>Usage Guidelines</b>	To use this command, the IKE protocol must be enabled using the <b>crypto ike enable</b> command.	
<b>Examples</b>	<p>The following example shows how to match addresses in an IPsec crypto map with an ACL.</p> <pre>switch# <b>config terminal</b> switch(config)# <b>crypto map domain ipsec x 1</b> switch(config-crypto-map-ip)# <b>match address UserACL</b></pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>crypto ike domain ipsec</b>	Enters IKE configuration mode.
	<b>crypto ike enable</b>	Enables the IKE protocol.
	<b>show crypto map domain ipsec</b>	Displays IPsec crypto map information.

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## mcast root

To configure the multicast feature, use the **mcast root** command in configuration mode. To revert to the default, use the **no** form of the command.

```
mcast root {lowest | principal} vsan vsan-id
```

```
no mcast root {lowest | principal} vsan vsan-id
```

Syntax Description		
	lowest	Specifies the lowest domain switch as root.
	principal	Specifies the principal switch as root.
	vsan vsan-id	Specifies the VSAN ID. The range is 1 to 4093.

**Defaults** principal

**Command Modes** Configuration mode.

Command History	Release	Modification
	2.0(x)	This command was introduced.

**Usage Guidelines** None.

**Examples** The following example shows how to configure the multicast root VSAN.

```
switch# config terminal
switch(config)# mcast root principal vsan 4001
```

Related Commands	Command	Description
	<b>show mcast</b>	Displays multicast information.

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## member (fcalias configuration submode)

To add a member name to an Fibre Channel alias on a VSAN, use the **member** command in fcalias configuration submode. To remove a member name from an FC alias, use the **no** form of the command.

```
member { device-alias aliasname [lun lun-id] |
domain-id domain-id [lun lun-id] |
fcid fc-id [lun lun-id] |
fwwn fwwn-id |
interface fc slot/port [domain-id domain-id | swwn swwn-id] |
ip-address ipv4|ipv6 |
pwwn pwwn-id [lun lun-id] |
symbolic-nodename nodename }
```

```
no member { device-alias aliasname [lun lun-id] |
domain-id domain-id [lun lun-id] |
fcid fc-id [lun lun-id] |
fwwn fwwn-id |
interface fc slot/port [domain-id domain-id | swwn swwn-id] |
ip-address ipv4|ipv6 |
pwwn pwwn-id [lun lun-id] |
symbolic-nodename nodename }
```

### Syntax Description

<b>device-alias</b> <i>aliasname</i>	Specifies the member device alias. Maximum length is 64 characters.
<b>lun</b> <i>lun-id</i>	Specifies the member LUN ID. The format is <i>0xhhhh[:hhhh[:hhhh[:hhhh]]]</i> , where <i>h</i> is a hexadecimal digit.
<b>domain-id</b> <i>domain-id</i>	Specifies the member domain ID. The range is 1 to 239.
<b>fcid</b> <i>fc-id</i>	Specifies the member FC ID. The format is <i>0xhhhhh</i> , where <i>h</i> is a hexadecimal digit.
<b>fwwn</b> <i>fwwn-id</i>	Specifies the member fWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>interface fc</b> <i>slot/port</i>	Specifies the member interface ID.
<b>swwn</b> <i>swwn-id</i>	Specifies the member sWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>ip-address</b> <i>ipv4 ipv6</i>	Specifies a member IP address in either IPv4 format, <i>A.B.C.D</i> , or IPv6 format, <i>X:X:X::X/n</i> .
<b>pwwn</b> <i>pwwn-id</i>	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>symbolic-nodename</b> <i>nodename</i>	Specifies the member symbolic node name. The maximum length is 255 characters.

### Defaults

None.

### Command Modes

Fcalias configuration submode.

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Command History	Release	Modification
	3.0(1)	This command was introduced.

**Usage Guidelines** None.

**Examples** The following example shows how to add a member to an FC alias called samplealias.

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# fcalias name samplealias
switch(config-fcalias)#
```

The following example defines an IPv6 address for the member.

```
switch(switch(config-fcalias)# member ip-address 2020:dbc0:80::4076
```

The following example shows how to delete the specified member.

```
switch(config-fcalias)# no member ip-address 2020:dbc0:80::4076
```

Related Commands	Command	Description
	fcalias name	Configures an FC alias.
	show fcalias	Displays the member name information in an FC alias.

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## member (ivr zone configuration)

To add a member name to an Inter-VSAN Routing (IVR) zone, use the **member** command in IVR zone configuration submode. To remove a member name from an fcalias, use the **no** form of the command.

```
member {device-alias aliasname {lun lun-id vsan vsan-id autonomous-fabric-id afid |  
vsan vsan-id autonomous-fabric-id afid } |  
pwwn pwwn-id {lun lun-id vsan vsan-id autonomous-fabric-id afid | vsan vsan-id  
autonomous-fabric-id afid}}
```

```
no member {device-alias aliasname {lun lun-id vsan vsan-id autonomous-fabric-id afid |  
vsan vsan-id autonomous-fabric-id afid } |  
pwwn pwwn-id {lun lun-id vsan vsan-id autonomous-fabric-id afid | vsan vsan-id  
autonomous-fabric-id afid}}
```

### Syntax Description

<b>device-alias</b> <i>aliasname</i>	Specifies the member device alias. Maximum length is 64 characters.
<b>lun</b> <i>lun-id</i>	Specifies the member LUN ID. The format is <i>0xhhhh[:hhhh[:hhhh[:hhhh]]]</i> , where <i>h</i> is a hexadecimal digit.
<b>vsan</b> <i>vsan-id</i>	Specifies the VSAN ID. The range is 1 to 4093.
<b>autonomous-fabric-id</b> <i>afid</i>	Specifies the AFID to the local VSAN.
<b>pwwn</b> <i>pwwn-id</i>	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.

### Defaults

None.

### Command Modes

IVR zone configuration submode.

### Command History

Release	Modification
1.3(1)	This command was introduced.
2.1(1a)	Added <b>lun</b> parameter.

### Usage Guidelines

You can configure an IVR zone member based on the specified pWWN and LUN value or, based on the specified pWWN, LUN value, and AFID.



#### Note

The CLI interprets the LUN identifier value as a hexadecimal value whether or not the 0x prefix is included.

### Examples

The following example shows how to configure an IVR zone member based on the device alias VSAN, and the AFID.

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```
switch# config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# ivr zone name IvrLunZone
switch(config-ivr-zone)# member device-alias Switch4 vsan 1 autonomous-fabric-id 14
```

The following example shows how to configure an IVR zone member based on the pWWN, VSAN, and the AFID.

```
switch# config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)# ivr zone name IvrLunZone
switch(config-ivr-zone)# member pwnn 29:00:00:05:30:00:06:ea vsan 1 autonomous-fabric-id 14
```

**Related Commands**

<b>Command</b>	<b>Description</b>
show ivr zone	Displays the IVR zone information.

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## member (zone configuration and zoneset-zone configuration submode)

To add a member name to a Fibre Channel zone set zone member, use the **member** command in zone set zone configuration submode. To remove a member name from a zone set zones, use the **no** form of the command.

```
member { device-alias aliasname [lun lun-id] | domain-id domain-id port-number port |
fcalias alias-name [lun lun-id] | fcid fc-id [lun lun-id] | fwwn fwwn-id |
interface fc slot/port [domain-id domain-id] | swwn swwn-id] | ip-address ipv4|ipv6 |
pwwn pwwn-id [lun lun-id] | symbolic-nodename nodename }
```

```
no member { device-alias aliasname [lun lun-id] | domain-id domain-id port-number port |
fcid fc-id [lun lun-id] | fwwn fwwn-id | interface fc slot/port [domain-id domain-id] |
swwn swwn-id] | ip-address ipv4|ipv6 | pwwn pwwn-id [lun lun-id] |
symbolic-nodename nodename }
```

### Syntax Description

<b>device-alias</b> <i>aliasname</i>	Specifies the member device alias. Maximum length is 64 characters.
<b>lun</b> <i>lun-id</i>	Specifies the member LUN ID. The format is <i>0xhhh[:hhh[:hhh[:hhh]]]</i> , where <i>h</i> is a hexadecimal digit.
<b>domain-id</b> <i>domain-id</i>	Specifies the member domain ID. The range is 1 to 239.
<i>alias-name</i>	The name of the fcalias. Maximum length is 64 characters.
<b>port-number</b> <i>port</i>	Specifies the member port number. The range is 0 to 255.
<b>fcid</b> <i>fc-id</i>	Specifies the member FC ID. The format is <i>0xhhhhh</i> , where <i>h</i> is a hexadecimal digit.
<b>fwwn</b> <i>fwwn-id</i>	Specifies the member fWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>interface fc</b> <i>slot/port</i>	Specifies the member interface ID.
<b>swwn</b> <i>swwn-id</i>	Specifies the member sWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>ip-address</b> <i>ipv4 ipv6</i>	Specifies a member IP address in either IPv4 format, <i>A.B.C.D</i> , or IPv6 format, <i>X:X:X::X/n</i> .
<b>pwwn</b> <i>pwwn-id</i>	Specifies the member pWWN ID. The format is <i>hh:hh:hh:hh:hh:hh:hh</i> , where <i>h</i> is a hexadecimal digit.
<b>symbolic-nodename</b> <i>nodename</i>	Specifies the member symbolic node name. The maximum length is 255 characters.

### Defaults

This command can be used in both zone configuration submode and zoneset-zone configuration submode.

### Command Modes

Zone set zone configuration submode and zoneset-zone configuration submode.

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Command History	Release	Modification
	1.0(2)	This command was introduced.
	2.1(1a)	Added zoneset-zone configuration submode.
	3.0(1)	Added the <b>IPv6</b> IP address format.

**Usage Guidelines** Create a zone set zone member only if you need to add member to a zone from the zone set prompt.

**Examples** The following example shows how to add a member to a zone called zs1 on VSAN 1.

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# zone name zs1 vsan 1
switch(config-zone)# member fcid 0x111112
switch(config-zone)#
```

The following example shows how to add a zone to a zoneset called Zoneset1 on VSAN 1.

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# zoneset name ZoneSet1 vsan 1
switch(config-zoneset-zone)# member fcid 0x111112
```

The following example shows how to assign an iSCSI IPv6 address-based membership into a zone.

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# zoneset name ZoneSet1 vsan 1
switch(config-zoneset-zone)# member ipv6-address 2001:0DB8:800:200C::417A
```

The following example shows how to delete the specified device from a zone.

```
switch(config-zoneset-zone)# no member ipv6-address 2001:0DB8:800:200C::417A
```

Related Commands	Command	Description
	zoneset (configuration submode)	Used to specify a name for a zone set.
	zone name (zone set configuration submode)	Configures a zone in a zoneset.
	show zoneset	Displays zone set information.

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## member (zoneset configuration submode)

To configure zone set zone members, use the **member** command in zone set configuration submode. To remove a zone set member, use the **no member** form of the command.

**member** *member-name*

**no member** *member-name*

<b>Syntax Description</b>	<i>member-name</i>	Specifies the member name. Maximum length is 64 characters.
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<b>Defaults</b>	None.
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<b>Command Modes</b>	Zone set configuration submode.
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	1.0(2)	This command was introduced.

<b>Usage Guidelines</b>	None.
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**Examples** The following example shows how to add a member zone to a zone set.

```
switch# config terminal
switch(config)# zoneset name Zoneset1 vsan 10
switch(config-zoneset)# member ZoneA
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show zone</b>	Displays zone information.
	<b>zoneset name</b>	Creates a zone set.

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## metric (iSLB initiator configuration)

To assign a load-balancing metric for an iSLB initiator, use the **metric** command in iSLB initiator configuration submode. To revert to the default load-balancing metric, use the **no** form of the command.

**metric** *metric*

**no metric** *metric*

<b>Syntax Description</b>	<b>metric</b> <i>metric</i>	Specifies a load-balancing metric. The range is 10 to 10000.
<b>Defaults</b>	1000	
<b>Command Modes</b>	iSLB initiator configuration submode.	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	3.0(1)	This command was introduced.
<b>Usage Guidelines</b>	You can assign a load metric to each initiator for weighted load balancing. The load calculated is based on the number of initiators on a given iSCSI interface. This feature accommodates initiators with different bandwidth requirements. For example, you could assign a higher load metric to a database server than to a web server. Weighted load balancing also accommodates initiators with different link speeds.	
<b>Examples</b>	<p>The following example specifies a load-balancing metric for the iSLB initiator.</p> <pre>switch# <b>config t</b> switch(config)# <b>islb initiator ip-address 100.10.10.10</b> switch (config-islb-init)# <b>metric 100</b></pre> <p>The following example reverts to the default load-balancing metric.</p> <pre>switch (config-islb-init)# <b>no metric 100</b></pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	islb initiator	Assigns an iSLB name and IP address to the iSLB initiator and enters iSLB initiator configuration submode.
	<b>show islb initiator configured</b>	Displays iSLB initiator information for the specified configured initiator.
	show islb initiator detail	Displays detailed iSLB initiator information.
	show islb initiator summary	Displays iSLB initiator summary information.

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## mkdir

To create a directory in the Flash file system, use the **mkdir** command in EXEC mode.

**mkdir** *directory*

<b>Syntax Description</b>	<i>directory</i>	Name of the directory to create.
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<b>Defaults</b>	None.	
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<b>Command Modes</b>	EXEC	
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<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	1.0(2)	This command was introduced.

<b>Usage Guidelines</b>	<p>This command is only valid on Class C Flash file systems.</p> <p>You can specify whether to create the directory on bootflash:, slot0, or volatile:. If you do not specify the device, the switch creates the directory on the current directory.</p>
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<b>Examples</b>	<p>The following example creates a directory called test in the slot0: directory.</p> <pre>switch# mkdir slot0:test</pre> <p>The following example creates a directory called test at the current directory level. If the current directory is slot0:mydir, this command creates a directory called slot0:mydir/test.</p> <pre>switch# mkdir test</pre>
-----------------	---

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>dir</b>	Displays a list of files on a file system.
<b>rmdir</b>	Removes an existing directory in the Flash file system.	

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## modem connect line

To enable a modem connection when the switch is already in operation, use the **modem connect line** command in EXEC mode.

**modem connect line {com1 | console}**

Syntax Description		
	com1	Connects the modem through a COM1 line connection
	console	Connects the modem through a console line connection

**Defaults** Disabled.

**Command Modes** EXEC mode.

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

**Usage Guidelines** If the switch is already in operation when the modem is connected, issue this command to notify the software that a modem is going to be added.

You must issue the **modem connect line** command before setting the user-input string for initialization.

**Examples** The following example announces a modem connection from the line console.

```
switch# modem connect line console
```

The following example announces a modem connection from the COM1 port.

```
switch# modem connect line com1
```

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## move

To remove a file from the source file and place it in the destination file, use the **move** command in EXEC mode.

```
move {bootflash: | slot0: | volatile:}[directory/]filename
      {bootflash: | slot0: | volatile:}[directory/]filename
```

Syntax Description	
<b>bootflash:</b>	Source or destination location for internal bootflash memory.
<b>slot0:</b>	Source or destination location for the CompactFlash memory or PCMCIA card.
<b>volatile:</b>	Source or destination location for volatile memory.
<i>directory</i>	Specifies the name of the directory.
<i>filename</i>	Specifies the name of the file to move or create.

Defaults	
	None.

Command Modes	
	EXEC mode.

Command History	Release	Modification
	1.0(2)	This command was introduced.

Usage Guidelines	
	If you do not specify the directory name in the command line, the switch prompts you for it.

Examples	
	The following example moves the file called samplefile from the slot0 directory to the mystorage directory.

```
switch# move slot0:samplefile slot0:mystorage/samplefile
```

Related Commands	Command	Description
	<b>dir</b>	Displays a list of files on a file system.
	mkdir	Creates a directory in the Flash file system.
	rmdir	Removes an existing directory in the Flash file system.

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## mutual-chap username (iSCSI initiator configuration and iSLB initiator configuration)

To assign a username for the initiator's challenge, use the **mutual-chap** command in iSCSI initiator configuration submode. To remove the username, use the **no** form of the command.

```
mutual-chap username username password {0 cleartext-password | 7 encrypted-password |
password}
```

```
no mutual-chap username username password {0 cleartext-password | 7 encrypted-password |
password}
```

### Syntax Description

<b>username</b> <i>username</i>	Specifies a username. The maximum size is 32.
<b>password</b>	Specifies a password for the initiator's challenge.
<b>0</b>	Specifies that the password is a cleartext CHAP password.
<b>7</b>	Specifies that the password is an encrypted CHAP password.
<i>password</i>	Specifies a password for the username. The maximum size is 32.

### Defaults

None.

### Command Modes

iSCSI initiator configuration submode.  
iSLB initiator configuration submode.

### Command History

Release	Modification
2.0(1b)	This command was introduced.
3.0(1)	Added iSLB initiator configuration submode.

### Usage Guidelines

The iSLB initiator can authenticate the Cisco MDS switch's initiator target during the iSCSI login phase. This authentication requires the user to configure a username and password for the switch to present to the iSLB initiator. The provided password is used to calculate a CHAP response to a CHAP challenge sent to the IPS port by the initiator.

### Examples

The following example shows how to configure a username, password type, and password for an iSCSI initiator challenge (mutual CHAP).

```
switch# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# iscsi initiator name iqn.1987-02.com.cisco.initiator
switch(config-iscsi-init)# mutual-chap username userName password 0 cisco
switch(config-iscsi-init)#
```

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The following example assigns a username and password to the initiator's challenge for an iSLB initiator.

```
switch# config t
switch(config)# islb initiator ip-address 100.10.10.10
switch (config-islb-init)# mutual-chap username tester password K9c4*1
```

The following example removes the username and password from the initiator's challenge for an iSLB initiator.

```
switch (config-islb-init)# no mutual-chap username tester password K9c4*1
```

**Related Commands**

<b>Command</b>	<b>Description</b>
iscsi initiator name	Assigns an iSCSI name and changes to iSCSI initiator configuration submode.
islb initiator	Assigns an iSLB name and IP address to the iSLB initiator and enter iSLB initiator configuration submode.
show iscsi initiator	Displays iSCSI initiator information.
<b>show iscsi initiator configured</b>	Displays iSCSI initiator information for the configured iSCSI initiator.
show <b>iscsi</b> initiator detail	Displays detailed iSCSI initiator information.
show <b>iscsi</b> initiator summary	Displays iSCSI initiator summary information.
<b>show islb initiator</b>	Displays iSLB initiator information.
<b>show islb initiator configured</b>	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.