C H A P T E R 10

H Commands

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 the "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 Configuration Guide*.

hash

To configure a hash algorithm for an IKE protocol policy, use the **hash** command in IKE policy configuration submode. To revert to the default, use the **no** form of the command.

hash {**md5** | **sha**}

no hash

Syntax Description

md5	Specifies the MD5[1] hash algorithm.
sha	Specifies the SHA[2].

1. MD5 = Message-Digest
2. SHA = Secure Hash Algorithm

Defaults

sha

Command Modes

IKE policy configuration submode.

Command History

Release	Modification
2.0(1b)	This command was introduced.

Usage Guidelines

To use this command, the IKE protocol must be enabled using the **crypto ike enable** command.

Examples

The following example shows how to configure the hash algorithm for the IKE protocol.

```
switch# config terminal
switch(config)# crypto ike domain ipsec
switch(config-ike-ipsec)# policy 1
switch(config-ike-ipsec-policy)# hash md5
```

Related Commands

Command	Description
crypto ike domain ipsec	Enters IKE configuration mode.
crypto ike enable	Enables the IKE protocol.
policy	Configures IKE policy parameters.
show crypto ike domain ipsec	Displays IKE information for the IPsec domain.

host

Use the **host** command to configure the switch offline state, the mainframe access control parameters, and the mainframe time stamp parameters. To disable the configuration or to revert to factory defaults, use the **no** form of the command.

host {**control** [**switch offline**] | **port control** | **set-timestamp**}

no host {**control** [**switch offline**] | **port control** | **set-timestamp**}

Syntax Description

control	Allows the host control of FICON.
switch offline	Allows the host to move the switch to an offline state and shut down the ports (default).
port control	Enables the host to configure FICON parameters.
set-timestamp	Allows the host to set the director clock

Defaults   Host offline control enabled.

Command Modes   FICON configuration mode.

Command History   This command was introduced in Cisco MDS SAN-OS Release 1.3(1).

Usage Guidelines   By default, the clock in each VSAN is the same as the switch hardware clock. Mainframe users are allowed to change the VSAN-clock.

Examples   The following example prohibits mainframe users from moving the switch to an offline state.

```
switch# config terminal
switch(config)# ficon vsan 2
switch(config-ficon)# no host control switch offline
```

The following example allows the host to move the switch to an offline state and shut down the ports.

```
switch(config-ficon)# host control switch offline
```

The following example prohibits mainframe users to configure FICON parameters in the Cisco MDS switch (default).

```
switch(config-ficon)# no host port control
```

The following example allows mainframe users to configure FICON parameters in the Cisco MDS switch.

```
switch(config-ficon)# host port control
```

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The following example prohibits mainframe users from changing the VSAN-specific clock.

```
switch(config-ficon)# no host set-timestamp
```

The following example allows the host to set the clock on this switch (default).

```
switch(config-ficon)# host set-timestamp
```

Related Commands	Command	Description
	show ficon	Displays configured FICON details.
	ficon vsan *vsan-id*	Enables FICON on the specified VSAN.