

# CFM and Y1731 Configuration Commands

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## Chapter 1 Overview

### 1.1 Stipulation

#### 1.2 Format Stipulation in the Command Line

Syntax	Meaning
<b>Bold</b>	Stands for the keyword in the command line, which stays unchanged and must be entered without any modification. It is presented as a bold in the command line.
<i>{italic}</i>	Stands for the parameter in the command line, which must be replaced by the actual value. It must be presented by the italic in the brace.
< <i>italic</i> >	Stands for the parameter in the command line, which must be replaced by the actual value. It must be presented by the italic in the point bracket.
[ ]	Stands for the optional parameter, which is in the square bracket.
{ x   y   ... }	Means that you can choose one option from two or more options.
[ x   y   ... ]	Means that you can choose one option or none from two or more options.
{ x   y   ... } *	Means that you has to choose at least one option from two or more options, or even choose all options.
[ x   y   ... ] *	Means that you can choose multiple options or none from two or more options.
&<1-n>	Means that the parameter before the “&” symbol can be entered 1~n times.
#	Means that the line starting with the “#” symbol is an explanation line.

## Chapter 2 CFM

### 2.1 CFM Configuration Commands

#### 2.1.1 Adding the Maintenance Domain and Entering the Maintenance Domain Mode

##### Syntax

To add a maintenance domain or enter the already existent maintenance domain, run the following command.

```
ethernet cfm md mdnf {string} <char_string> [level <0-7> | creation <MHF_creation_type> |
```

```
sit <sender_id_type> | ip <IP_address>]
```

### Parameters

Parameter	Description
<b>s</b>	
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>level</b>	(optional parameter) Stands for the level of a maintenance domain. It is 0 by default.
<b>creation</b>	MIP It is none by default.
<b>sit</b>	Stands for the identifier type of the sender. It is none by default.
<b>ip</b>	(optional parameter) Stands for the IP address reported by the trouble alarm. It is 0.0.0.0 by default.

### Command Mode

Global configuration mode

### Example

```
Switch_config#ethernet cfm md mdnf string customer level 5
```

### Related Command

None

#### 2.1.2 Deleting the Maintenance Domain

### Syntax

To delete a designated maintenance domain, run the following command.

```
no ethernet cfm md mdnf {string} <char_string>
```

**Parameters**

Parameter s	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.

**Command Mode**

Global configuration mode

**Example**

```
Switch_config#no ethernet cfm md mdnf string customer
```

**Related Command**

None

## 2.1.3 Browsing the Maintenance Domain

**Syntax**

To browse all the maintenance domains or the designated maintenance domains of the local device, run the following command.

```
show ethernet cfm md [mdnf {string} <char_string>]
```

**Parameters**

Parameter s	Description
<b>mdnf</b>	Stands for the format of the name of a to-be-browsed designated maintenance domain. At present only the char-string format is supported. It is in character string format with 1 to 42 printable characters and all characters should be

	capital sensitive.
--	--------------------

### Command Mode

EXEC, global, interface, maintenance domain

### Example

```
Switch_config#show ethernet cfm md mdnf string customer
```

### Related Command

None

#### 2.1.4 Adding a maintenance association

### Syntax

To add a maintenance association, run the following command.

```
ma manf {string} <char_string> ci {100ms | 1s | 10s | 1min | 10min} meps <mepids> [vlan <1-4094> | creation <MHF_creation_type> | sit <sender_id_type> | ip <IP_address>]
```

### Parameters

Parameter	Description
<b>s</b>	
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. It is the name of the maintenance association. It is in character string mode.
<b>ci</b>	Stands for the transmission interval of CCM. The shortest transmission interval which is supported presently is 100ms.
<b>meps</b>	Stands for the MEPID of all MEPs in the local maintenance domain.
<b>vlan</b>	Stands for the identifier of the VLAN where the maintenance association is located. It is 1 by default.
<b>creation</b>	MIP It is none by default.

<b>sit</b>	Stands for the identifier type of the sender. It is none by default.
<b>ip</b>	(optional parameter) Stands for the IP address reported by the trouble alarm. It is 0.0.0.0 by default.

### Command Mode

Maintenance domain mode

### Example

```
Switch_config_cfm#ma manf string customer1 ci 1s meps 1-2,2009 vlan 10
```

### Related Command

None

### 2.1.5 Deleting the Maintenance Association

### Syntax

To delete a designated maintenance association, run the following command.

```
no ma manf {string} <char_string>
```

### Parameters

Parameters	Description
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported.  <char_string> is the name of the maintenance association. It is in character string mode.

### Command Mode

Maintenance domain mode

**Example**

```
Switch_config_cfm#no ma manf string man customer
```

**Related Command**

None

**2.1.6 Browsing the Maintenance Association****Syntax**

To browse all or designated maintenance associations in a designated maintenance domain on the local device, run the following command.

```
show ethernet cfm ma mdnf {string} <char_string> [manf {string} <char_string>]
```

**Parameters**

Parameter	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain where the to-be-browsed maintenance association is located. At present only the char-string format is supported. <char_string> is the name of the maintenance domain where the to-be-browsed maintenance association is located. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of a to-be-browsed maintenance association. At present only the char-string format is supported. <char_string> is the name of a to-be-browsed maintenance association. It is in character string mode.

**Command Mode**

EXEC, global, interface, maintenance domain



**Example**

```
Switch_config#show ethernet cfm ma mdnf string customer manf string customer1
```

**Related Command**

None

## 2.1.7 Adding MIP

**Syntax**

To add an MIP of a specific level, which belongs to a designated VLAN, on a specific interface, run the following command.

```
ethernet cfm mip add level <0-7> [vlan <1-4094>]
```

**Parameters**

Parameters	Description
<b>level</b>	Stands for the level of a maintenance domain.
<b>vlan</b>	Stands for the identifier of the VLAN where the maintenance association is located. It is 1 by default.

**Command Mode**

Physical interface configuration mode

**Example**

```
Switch_config_g0/1#ethernet cfm mip add level 1 vlan 10
```

**Related Command**

None

## 2.1.8 Deleting MIP

**Syntax**

To delete a designated MIP, run the following command.

```
ethernet cfm mip del vlan <1-4094>
```

**Parameters**

Parameters	Description
vlan	Stands for the identifier of the VLAN where MIP is located.

**Command Mode**

Interface configuration mode

**Example**

```
Switch_config_g0/1#ethernet cfm mip del vlan 10
```

**Related Command**

None

**2.1.9 Browsing MIP****【Method 1】****Syntax**

To browse all MIPs of a designated interface in the local device or MIPs in a specific VLAN, run the following command.

```
show ethernet cfm mip vlan <1-4094> interface <interface_name>
```

```
show ethernet cfm mip interface <interface_name>
```

**Parameters**

Parameter	Description
<b>s</b>	
<b>interface</b>	Stands for a to-be-browsed interface.
<b>vlan</b>	Stands for the identifier of a to-be-browsed VLAN.

**Command Mode**

EXEC, global, interface, maintenance domain

**Example**

```
Switch_config#show ethernet cfm mip vlan 1 interface g0/1
```

**Related Command**

None

【Method 2】

**Syntax**

To browse all MIPs on the current interface of the local device, run the following command.

```
ethernet cfm mip display
```

**Parameters**

None

**Command Mode**

Physical interface mode

**Example**

```
Switch_config_g0/1#ethernet cfm mip display
```

**Related Command**

None

## 2.1.10 Adding MEP

**Syntax**

To add an MEP, which belongs to a designated maintenance association, on a specific interface, run the following command.

```
ethernet cfm mep add mdnf {string} <char_string> manf {string} <char_string> mepid
<1-8191> [direction {up | down} | ip <ip_address> | lap {all | mac | rCCM | eCCM | xcon | none}]
```

**Parameters**

Parameter	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <char_string> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. <char_string> is the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of the to-be-added MEP.
<b>direction</b>	(optional parameter) Stands for the direction of the to-be-added MEP. It is down by default.
<b>ip</b>	(optional parameter) Stands for the IP address reported by the trouble alarm. It is 0.0.0.0 by default.
<b>lap</b>	Stands for the lowest priority of trouble report. It is all by default.

**Command Mode**

Physical interface configuration mode

**Example**

```
Switch_config_g0/1#ethernet cfm mep add mdnf string customer manf string customer1 mepid
2009 direction up lap all
```

**Related Command**

None

## 2.1.11 Deleting MEP

**Syntax**

To delete a designated MEP, run the following command.

```
ethernet cfm mep del mdnf {string} <char_string> manf {string} <char_string> mepid
<1-8191>
```

**Parameters**

Parameter	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <i>&lt;char_string&gt;</i> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. <i>&lt;char_string&gt;</i> is the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of the to-be-added MEP.

**Command Mode**

Physical interface configuration mode

**Example**

```
Switch_config_g0/1#ethernet cfm mep del mdnf string customer manf string customer1 mepid
2009
```

**Related Command**

None

## 2.1.12 Browsing MEP

**【Method 1】****Syntax**

To browse the detailed or brief information about all MEPs in the designated maintenance domain of the local device, or that about a specific MEP, run the following command.

```
show ethernet cfm mep mdnf {string} <char_string> manf {string} <char_string> [mepid
<1-8191>] [view {detail | brief}]
```

**Parameters**

Parameter	Description
<b>s</b>	
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <i>&lt;char_string&gt;</i> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported.
<b>man</b>	Stands for the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital

	sensitive.
<b>mepid</b>	Stands for the MEPID of the to-be-browsed MEP.
<b>view</b>	Means to browse the detailed information or the brief information. It is the detailed information that will be browsed by default.

**Command Mode**

EXEC, global, interface, maintenance domain

**Example**

```
Switch_config#show ethernet cfm mep mdnf string x manf string x view brief
```

**Related Command**

None

【Method 2】

**Syntax**

To browse all MEPs on the current interface of the local device, run the following command.

```
ethernet cfm mep display
```

**Parameters**

None

**Command Mode**

Physical interface mode

**Example**

```
Switch_config_g0/1#ethernet cfm mep display
```

**Related Command**

None



## 2.3 CFM Maintenance Commands

### 2.2.1 loopback

#### Syntax

To use a designated MEP at the local terminal to conduct loopback towards another designated MEP at the remote terminal, run the following command.

```
ethernet cfm loopback mdnf {string} <char_string> manf {string} <char_string> mepid <1-8191>
mac <AA:BB:CC:DD:EE:FF> [number <1-64>]
```

#### Parameters

Parameter	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <char_string> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. <char_string> is the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of the local MEP.
<b>mac</b>	Stands for the MAC address of the remote MEP.
<b>number</b>	(optional parameter) Stands for the times of conducting loopback. It is 3 by default.

#### Command Mode

EXEC

#### Example

```
Switch#ethernet cfm loopback mdnf string x manf string x mepid 1 mac 00:15:E9:43:AD:E3
number 3
```

**Related Command**

None

## 2.2.2 linktrace

**Syntax**

To use a designated local MEP to conduct linktrace towards a designated remote MEP, run the following command.

```
ethernet cfm linktrace mdnf {string} <char_string> manf {string} <char_string> mepid <1-8191>
mac <AA:BB:CC:DD:EE:FF> [ttl {1-255} | fdb-only {yes}]
```

**Parameters**

Parameter	Description
<b>s</b>	
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <char_string> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported.
<b>mepid</b>	Stands for the MEPID of the local MEP.
<b>mac</b>	Stands for the MAC address of the remote MEP.
<b>ttl</b>	(optional parameter) Stands for the ttl value. It is 64 by default.
<b>fdb-only</b>	(optional parameter) Means to use the forward database or not. It is yes by default.

**Command Mode**

EXEC

**Example**

```
Switch#ethernet cfm linktrace mdnf s x manf string x mepid 1 mac 00:15:E9:43:AD:E3 ttl 64
```

**Related Command**

None

**2.2.3 Deleting the Linktrace Result Table****Syntax**

To delete the linktrace result table of a designated MEP, run the following command.

```
clear ethernet cfm linktrace mdnf {string} <char_string> manf {string} <char_string> [mepid
<1-8191>]
```

**Parameters**

Parameter	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <char_string> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. <char_string> is the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of the local MEP.

**Command Mode**

EXEC

**Example**

```
Switch#clear ethernet cfm linktrace mdnf string x manf string x mepid 1
```

**Related Command**

None

## 2.2.4 Setting the Size of the Linktrace Result Table

**Syntax**

To set the size of the linktrace result table (that is, the number of linktraces which can be conducted concurrently), run the following command.

**ethernet cfm linktrace table-size <1-16>**

**Parameters**

Parameters	Description
<b>table-size</b>	Stands for the size of the linktrace result table.

**Command Mode**

Global configuration mode

**Example**

```
Switch_config#ethernet cfm linktrace table-size 1
```

**Related Command**

None

## 2.2.5 Setting the Number of Entries in the Linktrace Result Table

**Syntax**

To set the maximum number of entries that are received each time by the linktrace result table, run the following command.

**ethernet cfm linktrace entry-number <2-4095>**

**Parameters**

Parameters	Description
<b>entry-number</b>	Stands for the number of the entries in the linktrace result table.

**Command Mode**

Global configuration mode

**Example**

```
Switch_config#ethernet cfm linktrace entry-number 2009
```

**Related Command**

None

## 2.2.6 Setting the aging time of the linktrace result table

**Syntax**

To set the maximum number of entries that are received each time by the linktrace result table(Unit:min), run the following command.

```
ethernet cfm linktrace hold-time <1-29>
```

**Parameters**

Parameters	Description
<b>hold-time</b>	Stands for the aging time of the linktrace result table. Unit: minute

**Command Mode**

Global configuration mode

**Example**

```
Switch_config#ethernet cfm linktrace hold-time 10
```

**Related Command**

None

**2.2.7 Deleting the MEP Statistics Data****Syntax**

To delete the statistics data of a designated MEP, run the following command.

```
ethernet cfm mep clear mdnf {string} <char_string> manf {string} <char_string> mepid <1-8191>
```

**Parameters**

Parameters	Description
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported. <char_string> is the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported. <char_string> is the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of a designated MEP.

**Command Mode**

Physical interface mode

**Example**

```
Switch_config_g0/1#ethernet cfm mep clear mdnf string x manf string x mepid 1
```

**Related Command**

None

## 2.4 CFM Control Commands

### 2.4.1 CFM Stack Control Command

#### Syntax

To enable or disable the whole CFM protocol stack, run the following command.

```
ethernet cfm {enable | disable}
```

#### Parameters

None

#### Command Mode

Global configuration mode

#### Example

```
Switch_config#ethernet cfm enable
```

#### Related Command

None

### 2.4.2 CFM Interface Control Command

#### Syntax

To enable or disable the CFM function of the current interface, run the following command.

```
ethernet cfm {enable | disable}
```

#### Parameters

None



**Command Mode**

Physical interface mode

**Example**

```
Switch_config_g0/1#ethernet cfm enable
```

**Related Command**

None

2.4.3 MIP Control Command

**Syntax**

To enable or disable the MIP of a designated VLAN on the current interface, run the following command.

```
ethernet cfm mip {enable | disable} vlan <1-4094>
```

**Parameters**

None

**Command Mode**

Physical interface mode

**Example**

```
Switch_config_g0/1#ethernet cfm mip enable vlan 1
```

**Related Command**

None

2.4 CFM Query Commands

### 2.4.1 Browsing the CFM Protocol Stack

#### Syntax

To browse the CFM protocol stack, run the following command.

```
show ethernet cfm stack
```

#### Parameters

None

#### Command Mode

Non-user mode

#### Example

```
Switch_config#show ethernet cfm stack
```

#### Related Command

None

### 2.4.2 Browsing the CFM Interface

#### Syntax

To check the relevant information of CFM interface, run the following command.

```
show ethernet cfm interface [<interface_name>]
```

#### Parameters

None

**Command Mode**

Non-user mode

**Example**

```
Switch_config#show ethernet cfm interface g0/1
```

**Related Command**

None

## 2.4.3 Browsing the Locally Stored Information about the Remote MEP

**Syntax**

To browse the detailed or brief information about all remote MEPs, which together with a designated local MEP belong to the same maintenance association, or about a designated remote MEP, run the following command.

```
show ethernet cfm rmep mdnf {string} mdn <char_string> manf {string} man <char_string> [mepid <1-8191>] [rmepid <1-8191>] [view {detail | brief}]
```

**Parameters**

Parameter	Description
<b>s</b>	
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.
<b>mdn</b>	Stands for the name of the maintenance domain. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported.
<b>man</b>	Stands for the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.

<b>mepid</b>	Stands for the MEPID of the local MEP, which together with the to-be-browsed remote MEP belongs to the same maintenance association.
<b>rmepid</b>	Stands for the MEPID of the to-be-browsed remote MEP.
<b>view</b>	Means to browse the detailed information or the brief information. It is the detailed information that will be browsed by default.

### Command Mode

Non-user mode

### Example

```
Switch_config#show ethernet cfm rmep mdnf string mdn x manf string man x mepid 1
rmepid 2 view brief
```

### Related Command

None

2.4.4 Browsing the LinkTrace Result Table

### Syntax

To browse the linktrace result table which is carried out by a specified TID of a specific MEP, run the following command.

```
show ethernet cfm linktrace mdnf {string} mdn <char_string> manf {string} man
<char_string> mepid <1-8191> tid <0-4294967295>
```

### Parameters

Parameter	Description
<b>s</b>	
<b>mdnf</b>	Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.
<b>mdn</b>	Stands for the name of the maintenance domain. It is in character string format

	with 1 to 42 printable characters and all characters should be capital sensitive.
<b>manf</b>	Stands for the format of the name of the maintenance association. At present only the char-string format is supported.
<b>man</b>	Stands for the name of the maintenance association. It is in character string format with 1 to 42 printable characters and all characters should be capital sensitive.
<b>mepid</b>	Stands for the MEPID of the local MEP, which together with the to-be-browsed remote MEP belongs to the same maintenance association.
<b>tid</b>	Stands for the TID that is returned during linktrace.

### Command Mode

Non-user mode

### Example

```
Switch_config#show ethernet cfm linktrace mdnf string mdn x manf string man x mepid 1
tid 19830719
```

<pre>**** [RESULT FOR READING LINKTRACE REPLY] ****  =====           ID :0x12E97BF (19830719) 【Event ID of the presently running LT】           TTL :0x00000004(4) 【TTL value of the presently running LT】 TOTAL LTRs:1 【LTRs returned by the remote terminal of the result table】 MAX LTRs:100 【receiving at most 100 LTRs】 NEXT ORDER:2 【The next expected LTR order ID】            【The total information of one Linktrace is shown above】 ===== LTRs =====            order:1 【Order ID of this LTR】           TTL:3 【TTL vlave in the responded LTRs】           FwdYes:NO 【Whether the local node forwards LTM】           TerminalMEP:NO 【Whether the local node is the terminal MEP】           Last Egress ID:0 - 00:E0:0F:DC:02:11 【MAC of the previous hop】           Next Egress ID:0 - 00:00:00:00:00:00 【MAC of the next hop, and if the result is 0 it means there is no next hop】            Relay Action:(1)HIT 【Field of the Relay action: HIT means just hitting successively】           Ingress Action:OK(1) 【state of the ingress port: OK】           Ingress MAC Address:00:E0:0F:81:11:1C 【MAC of the ingress port】           Ingress Port ID format:MAC-ADDRESS(3) 【ID format of the ingress port: MAC format】           Ingress Port ID (hex):00 E0 0F 81 11 1C 【Identifier of the ingress port: 00 E0 0F 81 11 1C】</pre>
--

### Related Command

None

2.4.5 Browsing the whole running status of CFM

**Syntax**

To browse the whole running status of CFM, run the following command.

**show ethernet cfm running-info**

**Parameters**

None

**Command Mode**

All modes except the user mode

**Example**

```
Switch_config#show ethernet cfm running-info
```

**Related Command**

None