CFM and Y1731 Configuration Commands
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Chapter 1  Overview

1.1  Stipulations

1.1.1  Format Stipulation in the Command Line

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bold</strong></td>
<td>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.</td>
</tr>
<tr>
<td><em>(italic)</em></td>
<td>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.</td>
</tr>
<tr>
<td><em>&lt;italic&gt;</em></td>
<td>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.</td>
</tr>
<tr>
<td>[]</td>
<td>Stands for the optional parameter, which is in the square bracket.</td>
</tr>
<tr>
<td>{ x</td>
<td>y</td>
</tr>
<tr>
<td>[ x</td>
<td>y</td>
</tr>
<tr>
<td>{ x</td>
<td>y</td>
</tr>
<tr>
<td>[ x</td>
<td>y</td>
</tr>
<tr>
<td>&amp;&lt;1-n&gt;</td>
<td>Means that the parameter before the &quot;&amp;&quot; symbol can be entered n times.</td>
</tr>
<tr>
<td>#</td>
<td>Means that the line starting with the “#” symbol is an explanation line.</td>
</tr>
</tbody>
</table>
Chapter 2  CFM and Y1731 Configuration Commands

2.1  CFM Configuration Commands

2.1.1  Adding the Maintenance Domain and Entering the Maintenance Domain Mode

1. Syntax

   ethernet cfm md mdnf {string} mdn <char_string> [level <0-7> | creation <MHF_creation_type> | sit <sender_id_type> | ip <IP_address>]

2. Function

   To add a maintenance domain or enter the already existent maintenance domain, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>level</td>
<td>Stands for the level of the maintenance domain, which is optional. If it is not chosen, its default value is 0.</td>
</tr>
<tr>
<td>creation</td>
<td>Stands for the creation mode of MIP, which is optional. If it is not chosen, its default value is none.</td>
</tr>
<tr>
<td>sit</td>
<td>Stands for the type of sender ID, which is optional. If it is not chosen, its default value is none.</td>
</tr>
<tr>
<td>ip</td>
<td>Stands for IP address of the trouble alarm server, which is optional. If it is not chosen, its default value is 0.0.0.0.</td>
</tr>
</tbody>
</table>
4. Mode

   Global configuration mode

5. Example

   Switch_config#ethernet cfm md mdnf string mdn customer level 5

6. Related command

   N/A

2.1.2 Deleting the Maintenance Domain

1. Syntax

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

2. Function

   To delete a designated maintenance domain, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
</tbody>
</table>

4. Mode

   Global configuration mode

5. Example

   Switch_config#no ethernet cfm md mdnf string mdn customer

6. Related command

   N/A
2.1.3 Browsing the Maintenance Domain

1. Syntax

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

2. Function

   To browse all the maintenance domains or the designated maintenance domains of the local device, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of a to-be-browsed designated maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of a to-be-browsed designated maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
</tbody>
</table>

4. Mode

   EXEC, global, interface, maintenance domain

5. Example

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

6. Related command

   N/A

2.1.4 Adding a Maintenance Association

1. Syntax

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

To add a maintenance association, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is in character string mode.</td>
</tr>
<tr>
<td>ci</td>
<td>Stands for the transmission interval of CCM. The shortest transmission interval which is supported presently is 100ms.</td>
</tr>
<tr>
<td>meps</td>
<td>Stands for the MEPID of all MEPs in the local maintenance domain.</td>
</tr>
<tr>
<td>vlan</td>
<td>Stands for the identifier of the VLAN where the maintenance association is located, which is optional. If it is not chosen, its default value is 1.</td>
</tr>
<tr>
<td>creation</td>
<td>Stands for the creation mode of MIP, which is optional. If it is not chosen, its default value is none.</td>
</tr>
<tr>
<td>Sit</td>
<td>Stands for the type of sender ID, which is optional. If it is not chosen, its default value is none.</td>
</tr>
<tr>
<td>ip</td>
<td>Stands for IP address of the trouble alarm server, which is optional. If it is not chosen, its default value is 0.0.0.0.</td>
</tr>
</tbody>
</table>

4. Mode

Maintenance domain mode

5. Example

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

6. Related command

N/A

2.1.5 Deleting the Maintenance Association

1. Syntax

no ma manf {string} man <char_string>
2. Function

To delete a designated maintenance association, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Man</td>
<td>Stands for the name of the maintenance association. It is in character string mode.</td>
</tr>
</tbody>
</table>

4. Mode

Maintenance domain mode

5. Example

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

6. Related command

N/A

2.1.6 Browsing the Maintenance Association

1. Syntax

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

2. Function

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
</table>
Mdnf | 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.
---|---
mdn | Stands for the name of the maintenance domain where the to-be-browsed maintenance association is located. It is a character string with 1 to 43 printable characters, capital sensitive.
Manf | Stands for the format of the name of a to-be-browsed maintenance association. At present only the char-string format is supported.
man | Stands for the name of a to-be-browsed maintenance association. It is in character string mode.

4. Mode

EXEC, global, interface, maintenance domain

5. Example

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

6. Related command

N/A

2.1.7 Adding MIP

1. Syntax

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

2. Function

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level</td>
<td>Stands for the level of a maintenance domain.</td>
</tr>
<tr>
<td>vlan</td>
<td>Stands for the identifier of the VLAN where the maintenance association is located,</td>
</tr>
</tbody>
</table>
which is optional. If it is not chosen, its default value is 1.

4. Mode

   Physical interface configuration mode

5. Example

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

6. Related command

   N/A

2.1.8   Deleting MIP

1. Syntax

   ethernet cfm mip del vlan <1-4094>

2. Function

   To delete a designated MIP, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vlan</td>
<td>Stands for the identifier of the VLAN where MIP is located.</td>
</tr>
</tbody>
</table>

4. Mode

   Interface configuration mode

5. Example

   Switch_config_g0/1#ethernet cfm mip del vlan 10

6. Related command

   N/A
2.1.9 Browsing MIP

【Method 1】

1. Syntax

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

   show ethernet cfm mip interface <interface_name>

2. Function

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface</td>
<td>Stands for a to-be-browsed interface.</td>
</tr>
<tr>
<td>Vlan</td>
<td>Stands for the identifier of a to-be-browsed VLAN.</td>
</tr>
</tbody>
</table>

4. Mode

   EXEC, global, interface, maintenance domain

5. Example

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

6. Related command

   N/A

【Method 2】

1. Syntax

   ethernet cfm mip display
2. Function

To browse all MIPs on the current interface of the local device, run the above-mentioned command.

3. Parameter

N/A

4. Mode

Physical interface mode

5. Example

Switch_config_g0/1#ethernet cfm mip display

6. Related command

N/A

2.1.10 Adding MEP

1. Syntax

```
ethernet cfm mep add mdnf {string} mdn <char_string> manf {string} man <char_string> mepid <1-8191> [direction {up | down} | ip <ip_address>]
```

2. Function

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>Manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Mepid</td>
<td>Stands for the MEPID of the to-be-added MEP.</td>
</tr>
<tr>
<td>direction</td>
<td>Stands for the direction of the to-be-added MEP. If it is not chosen, its default value is down.</td>
</tr>
<tr>
<td>ip</td>
<td>Stands for IP address of the trouble alarm server, which is optional. If it is not chosen, its default value is 0.0.0.0.</td>
</tr>
</tbody>
</table>

4. Mode

Physical interface configuration mode

5. Example

Switch_config_g0/1#ethernet cfm mep add mdnf string mdn customer manf string man customer1 mepid 2009 direction up

6. Related command

N/A

2.1.11 Deleting MEP

1. Syntax

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

2. Function

To delete a designated MEP, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the</td>
</tr>
</tbody>
</table>
char-string format is supported.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Mepid</td>
<td>Stands for the MEPID of the to-be-added MEP.</td>
</tr>
</tbody>
</table>

4. Mode

Physical interface configuration mode

5. Example

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

6. Related command

N/A

2.1.12 Browsing MEP

【Method 1】

1. Syntax

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

2. Function

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 above-mentioned command.

3. Parameter
<table>
<thead>
<tr>
<th><strong>mdnf</strong></th>
<th>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>mdn</strong></td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td><strong>manf</strong></td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td><strong>man</strong></td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td><strong>mepid</strong></td>
<td>Stands for the MEPID of the to-be-browsed MEP.</td>
</tr>
<tr>
<td><strong>view</strong></td>
<td>Means to browse the detailed information or the brief information. It is the detailed information that will be browsed by default.</td>
</tr>
</tbody>
</table>

4. **Mode**

EXEC, global, interface, maintenance domain

5. **Example**

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

6. **Related command**

N/A

【Method 2】

1. **Syntax**

ethernet cfm mep display

7. **Function**

To browse all MEPs on the current interface of the local device, run the above-mentioned command.

8. **Parameter**

N/A

9. **Mode**

Physical interface mode
10. Example

Switch_config_g0/1#ethernet cfm mep display

11. Related command

N/A

2.2 Y1731 Configuration Commands

2.2.1 Modifying the Transmission Interval of the AIS Frame

Syntax

```
ethernet y1731 ais-mep timer  time
```

To modify the transmission interval of the AIS frame, run the above-mentioned command:

```
[no] ethernet y1731 ais-mep timer
```

To resume the default transmission interval, run the above-mentioned command.

Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>time</td>
<td>Stands for the transmission interval of the AIS frame.</td>
</tr>
<tr>
<td></td>
<td>&lt;1&gt; -- 1 frame per second</td>
</tr>
<tr>
<td></td>
<td>&lt;2&gt; -- 1 frame per minute</td>
</tr>
</tbody>
</table>

Default value

The default transmission interval is one frame every second.

Command mode

Global configuration mode

Explanation

If a current device supports Eth-AIS and have to go through 4094 VLANs, the AIS frames it sends every second may cause tension. Therefore the current device has to support another AIS transmission period based on one minute. The AIS frame exchanges the AIS transmission interval through its period field.

Example

The following example shows how to modify the transmission interval of the AIS frame to 1 minute.
2.2.2 Performing the Termination Command

Syntax

`ethernet y1731 terminate`

The above-mentioned command is used to conduct the termination command.

Parameter

N/A

Default value

N/A

Command mode

Global configuration mode

Explanation

This command can be used to terminate the running `delay-measurement` command:

Example

The following example shows how to terminate the operation which is running in global configuration mode:

```
Switch#
Switch#config
Switch_config#ethernet y1731 terminate
Switch_config#
```

2.3 CFM Maintenance Commands

2.3.1 loopback

1. Syntax

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

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
<tr>
<td>mac</td>
<td>Stands for the MAC address of the remote MEP.</td>
</tr>
<tr>
<td>number</td>
<td>Stands for the loopback times, which is optional. If it is not chosen, its default value is 3.</td>
</tr>
</tbody>
</table>

4. Mode

EXEC

5. Example

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

6. Related command

N/A

2.3.2 linktrace

1. Syntax

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

2. Function

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

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
<tr>
<td>mac</td>
<td>Stands for the MAC address of the remote MEP.</td>
</tr>
<tr>
<td>ttl</td>
<td>Stands for the TTL value, which is optional. If it is not chosen, its default value is 64.</td>
</tr>
<tr>
<td>fdb-only</td>
<td>Means whether LTM forwarding is only via MAC address, which is optional. If it is not chosen, its default value is yes.</td>
</tr>
</tbody>
</table>

4. Mode

EXEC

5. Example

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

6. Related command

N/A
2.3.3 Deleting the Linktrace Result Table

1. Syntax

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

2. Function

   To delete the linktrace result table of a designated MEP, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>Man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>Mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
</tbody>
</table>

4. Mode

   EXEC

5. Example

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

6. Related command

   N/A
2.3.4 Setting the Size of the Linktrace Result Table

1. Syntax

   \texttt{ethernet cfm linktrace table-size <1-16>}

2. Function

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

3. Parameter

   \begin{tabular}{|l|l|}
   \hline
   \textbf{Parameter} & \textbf{Description} \\
   \hline
   table-size & Stands for the size of the linktrace result table. \\
   \hline
   \end{tabular}

4. Mode

   Global configuration mode

5. Example

   \texttt{Switch_config#ethernet cfm linktrace table-size 1}

6. Related command

   N/A

2.3.5 Setting the Number of Entries in the Linktrace Result Table

1. Syntax

   \texttt{ethernet cfm linktrace entry-number <2-4095>}

2. Function

   To set the maximum number of entries that are received each time by the linktrace result table, run the above-mentioned command.
3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>entry-number</td>
<td>Stands for the number of the entries in the linktrace result table.</td>
</tr>
</tbody>
</table>

4. Mode

Global configuration mode

5. Example

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

6. Related command

N/A

2.3.6 Setting the Aging Time of the Linktrace Result Table

1. Syntax

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

2. Function

It is used to set the saving time of the LTR table after the first Linktrace (unit: minute).

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hold-time</td>
<td>Stands for the aging time of the linktrace result table. Unit: minute</td>
</tr>
</tbody>
</table>

4. Mode

Global configuration mode

5. Example

```
Switch_config#ethernet cfm linktrace hold-time 10
```
2.3.7 Deleting the MEP Statistics Data

1. Syntax

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

2. Function

   To delete the statistics data of a designated MEP, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of a designated MEP.</td>
</tr>
</tbody>
</table>

4. Mode

   Physical interface mode

5. Example

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

6. Related command

   N/A
2.3.8 Conducting the Loss Measurement Command

1. Syntax

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

2. Function

   To use a designated MEP at the local terminal to conduct the LM operation towards another designated MEP at the remote terminal, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
<tr>
<td>mac</td>
<td>Stands for the MAC address of the remote MEP.</td>
</tr>
<tr>
<td>number</td>
<td>Stands for the LM times, which is optional. If it is not chosen, its default value is 0, which means the LM operation always continues.</td>
</tr>
</tbody>
</table>

4. Mode

   EXEC

5. Example

   ```
   Switch#ethernet cfm lm-start mdnf string mdn x manf string man x mepid 1 mac 00:15:E9:43:AD:E3 number 3
   ```
6. Related Command

N/A

2.3.9  Disabling the Loss Measurement Command

1. Syntax

\textbf{ethernet cfm lm-stop mdnf} \{\textit{string}\} \textbf{mdn} <\textit{char_string}\> \textbf{manf} \{\textit{string}\} \textbf{man} <\textit{char_string}> \textbf{mepid} <1-8191>

2. Function

To stop the LM operation of a designated MEP, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
</tbody>
</table>

4. Mode

EXEC

5. Example

Switch#ethernet cfm lm-stop mdnf string mdn x manf string man x mepid 1

6. Related command

N/A
2.3.10   Enabling the Delay Measurement Command

1. Syntax

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

2. Function

To use a designated MEP at the local terminal to conduct the DM operation towards another designated MEP at the remote terminal, run the above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
<tr>
<td>mac</td>
<td>Stands for the MAC address of the remote MEP.</td>
</tr>
<tr>
<td>number</td>
<td>Stands for the DM times, which is optional. If it is not chosen, its default value is 0, which means the LM operation always continues.</td>
</tr>
</tbody>
</table>

4. Mode

EXEC

5. Example

```
Switch#ethernet cfm dm-start mdnf string mdn x manf string man x mepid 1 mac 00:15:E9:43:AD:E3 number 3
```
6. Related command
   N/A

2.3.11 Disabling the Delay Measurement Command

1. Syntax

   ```
   ethernet cfm dm-stop mdnf {string} mdn <char_string> manf {string} man <char_string> mepid <1-8191>
   ```

2. Function
   停止指定的 MEP 的 LM 操作。

3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP.</td>
</tr>
</tbody>
</table>

4. Mode
   EXEC

5. Example

   ```
   Switch#ethernet cfm dm-stop mdnf string mdn x manf string man x mepid 1
   ```

6. Related command
   N/A
2.4 CFM Control Commands

2.4.1 CFM Stack Control Command

1. Syntax

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

2. Function

To enable or disable the whole CFM protocol stack, run the above-mentioned command.

3. Parameter

N/A

4. Mode

Global configuration mode

5. Example

```
Switch_config#ethernet cfm enable
```

6. Related command

N/A

2.4.2 CFM Interface Control Command

1. Syntax

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

2. Function

To enable or disable the CFM function of the current interface, run the above-mentioned command.

3. Parameter

N/A
4. Mode

Physical interface mode

5. Example

Switch_config_g0/1#ethernet cfm enable

6. Related command

N/A

2.4.3 MIP Control Command

1. Syntax

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

2. Function

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

3. Parameter

N/A

4. Mode

Physical interface mode

5. Example

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

6. Related command

N/A
2.4.4 MEP Control Command

1. Syntax

```
ethernet cfm mep {enable | disable} mdnf {string} mdn {<char_string>} manf {string} man {<char_string>} mepid <1-8191>
```

2. Function

To enable or disable a designated MEP, run the above-mentioned command.

3. Parameter

   N/A

4. Mode

   Physical interface mode

5. Example

   Switch_config_g0/1#ethernet cfm mep enable mdnf string mdn x manf string man x mepid 1

6. Related command

   N/A

2.4.5 CC Control Command

1. Syntax

```
ethernet cfm mep {cci-enable | cci-disable} mdnf {string} mdn {<char_string>} manf {string} man {<char_string>} mepid <1-8191>
```

2. Function

To enable or disable the CCM transmission function of a designated MEP, run the above-mentioned command.

3. Parameter

   N/A
4. Mode

    Physical interface mode

5. Example

    Switch_config_g0/1#ethernet cfm mep cci-disable mdnf string mdn x manf string man x mepid

1

6. Related command

N/A

2.5 CFM Query Commands

2.5.1 Browsing the CFM Protocol Stack

1. Syntax

    show ethernet cfm stack

2. Function

    To browse the CFM protocol stack, run the above-mentioned command.

3. Parameter

    N/A

4. Mode

    Non-user mode

5. Example

    Switch_config#show ethernet cfm stack

6. Related command

N/A
2.5.2   Browsing the CFM Interface

1. Syntax

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

2. Function

   This command can be used to browse the information about a designated CFM interface.

3. Parameter

   N/A

4. Mode

   Non-user mode

5. Example

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

6. Related command

   N/A

2.5.3   Browsing the Locally Stored Information About the Remote MEP

1. Syntax

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

2. Function

   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 above-mentioned command.

3. Parameter

<table>
<thead>
<tr>
<th>Para</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
C FM and Y1731 Configuration Commands

<table>
<thead>
<tr>
<th>meter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>meter</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdnf</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP, which together with the to-be-browsed remote MEP belongs to the same maintenance association.</td>
</tr>
<tr>
<td>rmepid</td>
<td>Stands for the MEPID of the to-be-browsed remote MEP.</td>
</tr>
<tr>
<td>view</td>
<td>Means to browse the detailed information or the brief information. It is the detailed information that will be browsed by default.</td>
</tr>
</tbody>
</table>

4. Mode

Non-user mode

5. Example

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

6. Related command

N/A

2.5.4 Browsing the LinkTrace Result Table

1. Syntax

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

2. Function

To browse the linktrace result table which is carried out by a specified TID of a specific MEP, run the above-mentioned command.
### 3. Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mdnf</td>
<td>Stands for the format of the name of the maintenance domain. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>mdn</td>
<td>Stands for the name of the maintenance domain. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>manf</td>
<td>Stands for the format of the name of the maintenance association. At present only the char-string format is supported.</td>
</tr>
<tr>
<td>man</td>
<td>Stands for the name of the maintenance association. It is a character string with 1 to 43 printable characters, capital sensitive.</td>
</tr>
<tr>
<td>mepid</td>
<td>Stands for the MEPID of the local MEP, which together with the to-be-browsed remote MEP belongs to the same maintenance association.</td>
</tr>
<tr>
<td>tid</td>
<td>Stands for the TID that is returned during linktrace.</td>
</tr>
</tbody>
</table>

### 4. Mode

Non-user mode

### 5. Example

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

```
**** [RESULT FOR READING LINKTRACE REPLY] ****

 ID:0x12E97BF (19830719) (Event ID of the presently running LT)
 TTL:0x00000004 (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]

 order:1 (Order ID of this LTR)
 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)
```
6. Related command

N/A

2.5.5 Browsing the Whole Running Status of CFM

1. Syntax

   show ethernet cfm running-info

2. Function

   To browse the whole running status of CFM, run the above-mentioned command.

3. Parameter

   N/A

4. Mode

   All modes except the user mode

5. Example

   Switch_config#show ethernet cfm running-info

6. Related command

N/A

2.6 Y1731 Show Commands

2.6.1 Displaying the MEPs That Can Transmit AIS Frames

Syntax

   show ethernet y1731 ais-mep

The above-mentioned command is used to show the MEPs that can transmit AIS frames.

Parameter

   N/A
Default value
N/A

Remarks
N/A

Example

Switch_config#show ethernet y1731 ais-mep
AIS MEP:
MEGID   MEPID  Level  VLAN  Port   MAC              Direction
aaa     2      3      1     Fast0/8 00E0.0F5F.745D  UP

2.6.2 Displaying the Information About Continuous MEG Detection

Syntax

show ethernet y1731 detect  MEGID  [MEPID]
To display the information about continuous MEG detection, run the above-mentioned command.

Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEGID</td>
<td>Displays the detection information about the designated MEG.</td>
</tr>
<tr>
<td>MEPID</td>
<td>It is an optional parameter and the identifier of MEP should be known well.</td>
</tr>
</tbody>
</table>

Default value
N/A

Remarks
When MEPID is not entered, the detection information about all local MEPs of MEG will be shown.

Example

The following example shows the fault detection of MEP 111 of MEG aaa.
Switch_config#show ethernet y1731 detect bbb 2
Ethernet Continuity Check:
(F)Fail, stand for defect exist
(N)Normal, stand for defect inexistence
LocMEP CC-Status SFAIL LOC MIS UMEP UMER UPER AIS RDI LCK
2   Enabled  N N N N N N N N
2.6.3 Displaying MEP and MIP Configurations on a Port

Syntax

```bash
show ethernet y1731 interface interface-name
```

Parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface-name</td>
<td>Name of the interface, such as f0/1 and fastethernet0/1</td>
</tr>
</tbody>
</table>

Default value

N/A

Remarks

N/A

Example

Switch_config#show ethernet y1731 interface g0/4
GigaEthernet0/4:
MEP list:
<table>
<thead>
<tr>
<th>MEGID</th>
<th>MEPID</th>
<th>Level</th>
<th>Vlanid</th>
<th>MAC</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>bbb</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>00E0.0F68.7FBA</td>
<td>DOWN</td>
</tr>
</tbody>
</table>
MIP list:
<table>
<thead>
<tr>
<th>Type</th>
<th>Level</th>
<th>MAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIP</td>
<td>4</td>
<td>00E0.0F68.7FBE</td>
</tr>
</tbody>
</table>

Switch_config#

2.6.4 Displaying the Configuration of all MEG or the Detailed Configuration of a Certain MEG

Syntax

```bash
show ethernet y1731 meglis t [ MEGID ]
```

The above-mentioned command is used to display the configuration of all MEG or the detailed configuration about a certain MEG.
### C FM and Y1731 Configuration Commands

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEGID</td>
<td>Displays the detailed information about the designated MEG.</td>
</tr>
</tbody>
</table>

**Default value**

N/A

**Remarks**

If MEGID is not entered, the information about all MEGs will be displayed.

**Example**

Switch_config#show ethernet y1731 meglist

MEG list:

<table>
<thead>
<tr>
<th>MEGID</th>
<th>Level</th>
<th>Vlan</th>
</tr>
</thead>
<tbody>
<tr>
<td>aaa</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>bbb</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ccc</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Total entries displayed: 3

Switch_config#show ethernet y1731 meglist aaa

MEG ID: aaa     Level: 3    Vlan: 1    CC-Status: Enabled
MEP mep: 1-2

Local MEP list:

<table>
<thead>
<tr>
<th>MEPID</th>
<th>Port</th>
<th>MAC</th>
<th>Direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Fas0/8</td>
<td>00E0.0F5F.745D</td>
<td>UP</td>
</tr>
</tbody>
</table>

**2.6.5 Displaying the Information About All Configured MIPs**

**Syntax**

`show ethernet y1731 miplist`

The above-mentioned command is used to display the information about all configured MIPs.

**Parameter**

N/A

**Default value**

N/A
2.6.6 Displaying the Statistics Information About the Y.1731 Module

Syntax

show ethernet y1731 traffic

The above-mentioned command is used to display some statistics information about the Y.1731 module, including statistics of the received and transmitted OAM packets and the system error.

Parameter

N/A

Default value

N/A

Remarks

N/A

Example

Switch_config#
Switch_config# show ethernet y1731 traffic
ethernet y1731 traffic/errors:
  Total output CCM frames: 223933
  Total output LBM frames: 67
  Total output LTM frames: 41
  Total output AIS frames: 0
  Total output 1DM frames: 1067
  Total output DMM frames: 60
  Total input CCM frames: 160778

MIP list:

<table>
<thead>
<tr>
<th>Type</th>
<th>Level</th>
<th>Port</th>
<th>MAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIP</td>
<td>7</td>
<td>Fas0/4</td>
<td>00E0.0FC1.003A</td>
</tr>
<tr>
<td>MIP</td>
<td>5</td>
<td>Fas0/1</td>
<td>00E0.0FC1.0037</td>
</tr>
</tbody>
</table>

Remarks

N/A
Total input LBM frames: 30
Total input LBR frames: 67
Total input LTM frames: 0
Total input LTR frames: 41
Total input AIS frames: 0
Total input 1DM frames: 0
Total input DMM frames: 0
Total input DMR frames: 60
Total memory allocation failures: 0
Total system failures: 0

Switch_config#

2.7 Y1731 Clear Command

2.7.1 Deleting the Transmission Statistics Information About the OAM Packets and the System Error Information

Syntax

```
clear ethernet y1731 counters
```

The above-mentioned command is used to delete the transmission statistics information about the OAM packets and the system error information.

Parameter

N/A

Default value

N/A

Explanation

N/A

Command mode

EXEC

Example

The following example shows how to delete the transmission statistics information about the OAM packets and the system error information.

Switch#clear ethernet y1731 counters