

TECHNOTE OF THE DAY

How to remove FAULT F0103 associated to the APIC eth1/2 port being down?

In the Following case scenario, a customer's APIC is reporting a Fault because the APIC port eth1/2 is down. The Fault reported is "topology/pod-1/node-1/sys/cphys-[eth1/2] - Physical Interface eth1/2 on Node 1 is now down". This fault is commonly seen in ACI deployments since most installs do not utilize eth1/2 port. Unfortunately, Fault F0103 is raised as a major fault.

For Example: **F0103 - Physical Interface eth1/2 on Node 1 is now down**

Record - 4295220074

It is common to see this Fault for eth1/2 being down on APIC controllers. Most deployments do not use eth1/2.

Properties

ID: 4295220074

Description: **Physical Interface eth1/2 on Node 1 is now down**

Severity: **major**

Affected Object: [topology/pod-1/node-1/sys/cphys-\[eth1/2\]](#)

Delegated From:

Created: 2015-08-04T20:17:31.677-04:00

Code: **F0103**

Type: **Operational**

Cause: **port-down**

Change Set: **adminSt (Old: up, New: down)**

Action: **modification**

Domain: **Infra**

Life Cycle: **Raised, Clearing**

Count Fault Occurred: 1

Acknowledgement Status: **true**

At this time, the only way to remove the fault is to change the "*Administrative State*" for the eth1/2 port to "*Down*". Unfortunately, a user can NOT disable the APIC eth1/2 port from the admin APIC GUI. The following steps will show you how to show the port down manually using the APIC CLI.

Steps to Disable eth1/2 port on an APIC using the CLI.

The following technote is written against Application Policy Infrastructure Controller Version: **1.1(1o)**. The following information may not apply to earlier or later versions of Application Policy Infrastructure Controller firmware versions.

Tasks:

1. Access the **CLI** of the APIC (*use SSH or KVM console access*)
2. Check to see if a **FAULT F0103** is still present and associated with eth1/2 port being down. Use the **“show faults”** command.
3. Change directory to **“/mit/topology/pod-1/node-1/sys/cphys-[eth1-2]”**
4. Use the command **“cat summary”** to verify the **“adminSt”** is **“up”** and the **“operSt”** is **“down”** for eth1/2.
5. Use **“MO”** CLI commands to change the eth1/2 port’s **“adminSt”** to **“down”** (*moset & moconfig*).
6. Use the command **“cat summary”** to verify the **“adminSt”** is **“down”** and the **“operSt”** is **“down”** for eth1/2.
7. Check to see if **FAULT F0103** has been cleared. Use the **“show faults”** command. You may need repeat the command a couple times while the Fault is transitions states.

For this Example

APIC port = **eth1/2**
Fault Code = **F0103**

- **show faults**
- **cd /mit/topology/pod-1/node-1/sys/cphys-[eth1--2]**
- **cat summary**
- **moset adminSt "down"**
- **moconfig commit**
- **cat summary**
- **show faults**

```
admin@fab2-apic1:cphys-[eth1--2]> show faults
Severity           : major
Fault Code        : F0103
Cause             : port-down
Acknowledged      : yes
Last Transition   : 2015-08-02T23:56:03.861-04:00
Dn               : topology/pod-1/node-1/sys/cphys-[eth1/2]/fault-F0103

Total : 1
```

```
admin@fab2-apic1:~> cd /mit/topology/pod-1/node-1/sys/cphys-[eth1--2]
```

```
admin@fab2-apic1:cphys-[eth1--2]> cat summary
```

```
# Controller Physical Interface
```

```
id           : eth1/2
adminSt    : up
autoNeg      : on
bw           : 0
childAction  :
delay       : 1
descr       :
dn        : topology/pod-1/node-1/sys/cphys-[eth1/2]
dot1qEtherType : 0x8100
inhBw       : unspecified
layer       : Layer3
lcOwn       : local
linkDebounce : 100
linkLog     : default
mdix        : auto
medium      : broadcast
modTs       : 2015-05-27T18:04:39.710-04:00
mode        : trunk
monPolDn    : uni/fabric/monfab-default
mtu         : 1500
name        : eth1-2
operSt    : down
portT       : unknown
rn          : cphys-[eth1/2]
routerMac   : 74:26:AC:C9:91:A4
snmpTrapSt  : enable
spanMode    : not-a-span-dest
speed       : inherit
status      :
switchingSt : disabled
trunkLog    : default
uid         : 0
usage       : discovery
wiringIssues :
```

```
admin@fab2-apic1:cphys-[eth1--2]> moset adminSt "down"
admin@fab2-apic1:cphys-[eth1--2]> moconfig commit
Committing mo 'topology/pod-1/node-1/sys/cphys-[eth1/2]'
```

```
admin@fab2-apic1:cphys-[eth1--2]> cat summary
# Controller Physical Interface
id                : eth1/2
adminSt         : down
autoNeg          : on
bw               : 0
childAction      :
delay            : 1
descr           :
dn             : topology/pod-1/node-1/sys/cphys-[eth1/2]
dot1qEtherType  : 0x8100
inhBw           : unspecified
layer           : Layer3
lcOwn           : local
linkDebounce    : 100
linkLog         : default
mdix            : auto
medium          : broadcast
modTs           : 2015-08-04T20:17:29.404-04:00
mode            : trunk
monPolDn       : uni/fabric/monfab-default
mtu             : 1500
name            : eth1-2
operSt        : down
portT          : unknown
rn             : cphys-[eth1/2]
routerMac       : 74:26:AC:C9:91:A4
snmpTrapSt     : enable
spanMode       : not-a-span-dest
speed          : inherit
status         :
switchingSt    : disabled
trunkLog       : default
uid            : 0
usage          : discovery
wiringIssues   :
```

```
admin@fab2-apic1:cphys-[eth1--2]> show faults
Severity           : major
Fault Code        : F0103
Cause             : port-down
Acknowledged      : yes
Last Transition   : 2015-08-04T20:17:31.677-04:00
Dn                : topology/pod-1/node-1/sys/cphys-[eth1/2]/fault-
F0103
```

Total : 1

```
admin@fab2-apic1:cphys-[eth1--2]> show faults
Total : 0
```

Record - 4295220085 i X

↻ ↓

Properties

ID: 4295220085
Description: **Physical Interface eth1/2 on Node 1 is now down**
Severity: cleared
Affected Object: [topology/pod-1/node-1/sys/cphys-\[eth1/2\]](#)
Delegated From:
Created: 2015-08-04T20:18:44.659-04:00
Code: F0103
Type: **Operational**
Cause: **port-down**
Change Set: adminSt (Old: up, New: down)
Action: **deletion**
Domain: **Infra**
Life Cycle:
Count Fault Occurred: 1
Acknowledgement Status: **true**

To remove this Fault you will need to change the Admin State of eth1/2 to "down". Once shutdown, the fault should be cleared.