

MRF Signaling IP Interface Configuration Failure

Virtual Multimedia Resource Function

Operating Instructions

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1

MRF Signaling IP Interface Configuration Failure Alarm Description

The alarm is a primary alarm. The alarm is issued by the SctpEndpoint MO. The severity of the alarm is Major.

The alarm indicates that there are no free signaling IP addresses in the MO-based IP address pool.

The alarm is raised when the IP signaling interface setup fails because there are no free signaling IP addresses defined in the SignalingIpPool MO.

The possible alarm causes and fault locations are explained in the table below.

Table 1 Alarm Attributes

Alarm Cause	Description	Fault Reason	Fault Location	Impact
No IP address is allocated to IP signaling interface.	IP signaling interface configuration fails as no IP address can be allocated.	There is no free IP address in the MO-based pool for IP signaling interfaces.	SctpEndpoint MO	No traffic is possible on the affected signaling IP interface on the VM.

The alarm attributes are listed and explained in the table below.

Table 2 Alarm Attributes

Attribute Name	Attribute Value
Major Type	193
Minor Type	5308440
Managed Object Class	SctpEndpoint
Managed Object Instance	ManagedElement=1, Transport=1, SctpEndpoint=<sctpEndpointId>
Specific Problem	vMRF Signaling IP Interface Configuration Failure
Event Type	communicationsAlarms (2)
Probable Cause	CommunicationsProtocolError (305)
Additional Text	No free IP IPv4 address in Transport=<transportId>; uuid=<UUID_value> ⁽¹⁾



Attribute Name	Attribute Value
Perceived Severity	Major

(1) <uuid> is the identity of the Virtual Machine from which the alarm is issued.



2 Procedure

These procedures describe how to cease an MRF Signaling IP Interface Configuration Failure alarm.

2.1 Cease the Alarm by Adding Another IP Pool

To cease the MRF Signaling IP Interface Configuration Failure alarm, the MO-based IP pool must be extended, either by unlocking a locked IP pool, or by adding another `SignalingIpPool` MO so that a larger IP pool is available for signaling IP interfaces.

Note: The ranges of the pools are not required to be adjacent, but the subnet mask and gateway of all pools belonging to the same network interface need to be the same.

Prerequisites

- An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

Steps

1. List all the IP pools by issuing the following command:

```
>show -v -r ManagedElement=1,Transport=1
```

Check the output for any `SignalingIpPool` MOs with attribute `ipPoolState LOCKED`

- If there are locked IP pools, consider unlocking them by changing the attribute `ipPoolState` to `UNLOCKED`.

This triggers the allocation of free IP addresses from that pool.

If the alarm is still active, continue with the next step.

- If there are no locked IP pools, continue with the next step.

2. In the MOM, navigate to `ManagedElement=1,Transport=1`:

```
>ManagedElement=1,Transport=1
```

3. Enter Config mode:

```
(ManagedElement=1,Transport=1)>configure
```

4. Create a `SignalingIpPool` MO for the signaling network:



```
(config-ManagedElement=1,Transport=1)>SignalingIpPool=1
```

5. Define the starting value of the IP pool range:

```
(config-ManagedElement=1,Transport=1,SignalingIpPool=1)>ipPoolRangeStart=<IP_Pool_Start_Address>
```

Note: The IP pool range starting value can only be an IPv4 address.

6. Define the ending value of the IP pool range:

```
(config-ManagedElement=1,Transport=1,SignalingIpPool=1)>ipPoolRangeEnd=<IP_Pool_End_Address>
```

Note: The IP pool range ending value can only be an IPv4 address.

7. Add values for the following attributes of the SignalingIpPool MO:

- gatewayAddress
- ipPoolState
- subnetMaskLength

8. Commit the changes:

```
(config-ManagedElement=1,Transport=1,SignalingIpPool=1)>commit
```