

# MRF Media IP Interface Configuration Failure

Virtual Multimedia Resource Function

Operating Instructions

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## 1

## MRF Media Interface Configuration Failure Alarm Description

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

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

The alarm is raised when the IP media interface setup fails because there are no free media IP addresses defined in the `MrfNetworkIpPool` 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 media interface.	IP media interface configuration fails as no IP address can be allocated.	There is no free IP address in the MO-based pool for IP media interfaces.	<code>MrfMediaInterface</code> MO	No user plane traffic is possible on the affected media IP interface on the vMRF 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	5308435
Managed Object Class	<code>MrfMediaInterface</code>
Managed Object Instance	<code>ManagedElement=1,MediaResourceFunction=1,MrfResource=1,MrfInstance=&lt;mrfinstanceId&gt;,MrfMediaInterface=&lt;mrfMediaInterfaceId&gt;</code>
Specific Problem	MRF Media Interface Configuration Failure
Event Type	communicationsAlarms (2)
Probable Cause	CommunicationsProtocolError (305)
Additional Text	No free IP address in = <code>&lt;mrfNetworkIpPool&gt;</code> ; <code>uuid= &lt;UUID_value&gt;</code> <sup>(1)</sup>



Attribute Name	Attribute Value
Perceived Severity	Major
isStateful	true

(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 Media IP Interface Configuration Failure alarm.

### 2.1 Cease the Alarm by Adding Another IP Pool

To cease the MRF Media IP Interface Configuration Failure alarm, the MO-based IP pool must be extended, either by unlocking a locked IP pool, or by adding another `MrfNetworkIpPool` MO so that a larger IP pool is available for media 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,MediaResourceFunction=1,MrfConfiguration=1
```

Check the output for any `MrfNetworkIpPool` 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,MediaResourceFunction=1,MrfConfiguration=1`, enter Config mode, and create a `MrfNetworkIpPool` MO:

```
>ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1
(ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1)>
configure
```



```
(config-  
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1)>M  
rfNetworkIpPool=1
```

3. Navigate to the  
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,M  
rfNetworkIpPool=1 MO and enter Config mode:

```
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,Mr  
fNetworkIpPool=1
```

```
(ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,M  
rfNetworkIpPool=1)>configure
```

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

```
(config-  
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,Mr  
fNetworkIpPool=1)>ipPoolRangeStart=<IP_pool_start_address>
```

**Note:** The IP pool range starting value can be an IPv4 or an IPv6 address.

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

```
(config-  
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,Mr  
fNetworkIpPool=1)>ipPoolRangeEnd=<IP_pool_end_address>
```

**Note:** The IP pool range ending value can be an IPv4 or an IPv6 address.

6. Commit the changes:

```
(config-  
ManagedElement=1,MediaResourceFunction=1,MrfConfiguration=1,Mr  
fNetworkIpPool=1)>commit
```