

eXR : Default Management Interface Mapping

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Question

We dont see second management interface on ASR-9901.

Intf	Intf	LineP	Encap	MTU	BW
Name	State	State	Type (byte)	(Kbps)	
Nu0	up	up	Null	1500	0
Mg0/RSP0/CPU0/0		up	up	ARPA	1514 1000000
Gi0/0/0/0	up	up	ARPA	1514	1000000

Answer

In eXR one MgmtEth is available to XR VM and the other MgmtEth interface to Admin VM.

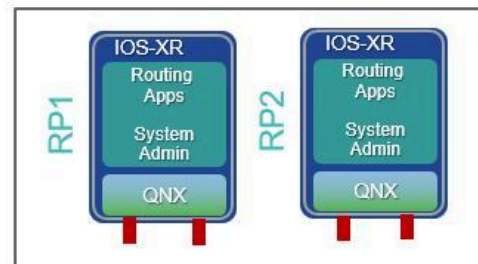


```
RP/0/RSP0/CPU0:ios#sho interfaces brief | include Mg
Fri Jun 23 00:17:40.427 UTC
Mg0/RSP0/CPU0/0 admin-down admin-down
Mg0/RSP1/CPU0/0 up up

RP/0/RSP0/CPU0:ios#admin
Fri Jun 23 00:20:12.545 UTC

cisco connected from 127.0.0.1 using console on host
sysadmin-vm:0 RSP0# show interface ?
Description: Management Interfaces
Possible completions:
MgmtEth0/RSP0/0/0
MgmtEth0/RSP1/0/0
```

IOS XR 64 Bit



```
RP/0/RSP1/CPU0:ASR9904-2#show interfaces brief
Sat Jun 24 09:54:42.700 UTC
Mg0/RSP0/CPU0/0 admin-down admin-down
Mg0/RSP0/CPU0/1 admin-down admin-down
Mg0/RSP1/CPU0/0 up up
Mg0/RSP1/CPU0/1 admin-down admin-down
RP/0/RSP1/CPU0:ASR9904-2#
```

Classic IOS XR

CLI Output

```
P/0/RSP1/CPU0:ASR-9904-eXR#show interfaces brief | i Mg
```

```
Thu Oct 10 08:07:37.708 HKT
```

```
Mg0/RSP0/CPU0/0    up    up    ARPA 1514  100000
Mg0/RSP1/CPU0/0    down  down  ARPA 1514  1000000
```

```
RP/0/RSP1/CPU0:ASR-9904-eXR#admin
```

```
Thu Oct 10 08:07:42.689 HKT
```

```
syzaidi connected from 127.0.0.1 using console on sysadmin-vm:0_RSP0
```

```
sysadmin-vm:0_RSP0# show interface ?
```

Description: Management Interfaces

Possible completions:

```
MgmtEth0/RSP0/0/0
```

```
MgmtEth0/RSP1/0/0
```

```
|          Output modifiers
```

```
<cr>
```

```
sysadmin-vm:0_RSP0# show interface
```

FAQs:

1) Can I configure the mgmt interface in admin VM?

Yes, it can be configured with an ip address as follows:

```
sysadmin-vm:0_RSP0(config)# int MgmtEth 0/RSP0/0/0 ?
```

Possible completions:

```
arp          Configure static ARP entry
default-gw   Default Gateway address: A.B.C.D
ipv4         IPv4 parameters
mtu          MTU for interface
shutdown     Shut the interface down
```

```
<cr>
```

```
sysadmin-vm:0_RSP0(config)#
```

2) Can I use this mgmt ip for telnet/ ssh or out of band access?

No, this interface is not exposed to the outside world.

3) What is the purpose of the mgmt interface in admin VM?

This interface can be used to copy files from router to external loc using mgmt. interface.

4) If a user shuts the mgmt interface in the admin VM down, will we lose the access to the admin VM?

No, shutting down the interface does not block the access to the admin VM, please check below:

```
sysadmin-vm:0_RSP0(config)# interface MgmtEth 0/RSP0/0/0
Wed Mar 31 19:20:15.547 UTC+00:00
sysadmin-vm:0_RSP0(config-MgmtEth-0/RSP0/0/0)# shut
Wed Mar 31 19:20:19.472 UTC+00:00
sysadmin-vm:0_RSP0(config-MgmtEth-0/RSP0/0/0)# commit
Wed Mar 31 19:20:22.438 UTC+00:00
Commit complete.
sysadmin-vm:0_RSP0(config-MgmtEth-0/RSP0/0/0)#
sysadmin-vm:0_RSP0(config-MgmtEth-0/RSP0/0/0)#
sysadmin-vm:0_RSP0(config-MgmtEth-0/RSP0/0/0)# exit
Wed Mar 31 19:20:25.529 UTC+00:00
sysadmin-vm:0_RSP0(config)# exit
Wed Mar 31 19:20:27.353 UTC+00:00
sysadmin-vm:0_RSP0#
sysadmin-vm:0_RSP0#
sysadmin-vm:0_RSP0# sh int
Wed Mar 31 19:20:29.235 UTC+00:00
MgmtEth0/RSP0/0/0 Link encap: Ethernet HWaddr 02:b3:90:92:72:98
  inet addr: 0.0.0.0
  DOWN BROADCAST MULTICAST MTU:1500 Metric:1 <<< port is down.
  RX packets: 0 errors:0 dropped:0 overruns:0 frame:0
  TX packets: 5 errors:0 dropped:0 overruns:0 carrier:0
               collisions:0 txqueuelen:1000
  RX bytes: 0 TX bytes: 398

sysadmin-vm:0_RSP0# exit
Wed Mar 31 19:20:34.518 UTC+00:00
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#admin
Wed Mar 31 19:20:36.732 UTC

saavadha connected from 127.0.0.1 using console on sysadmin-vm:0_RSP0
sysadmin-vm:0_RSP0# exit <<< we are still able to connect to the admin VM.
Wed Mar 31 19:20:41.461 UTC+00:00
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#conf t
Wed Mar 31 19:20:44.587 UTC
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1(config)#exit
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#admin conf
Wed Mar 31 19:21:03.263 UTC
Mar 31 19:21:03 : ADMIN-CLI: ERROR: ABORT: Please run this command from admin prompt
RP/0/RSP0/CPU0:ASR-9904-E-eXR_NPE1#admin
Wed Mar 31 19:21:05.319 UTC

saavadha connected from 127.0.0.1 using console on sysadmin-vm:0_RSP0
sysadmin-vm:0_RSP0# con
Possible completions:
  config Manipulate software configuration information
  controller Access to hardware controller data
sysadmin-vm:0_RSP0# config
```

```
Wed Mar 31 19:21:09.125 UTC+00:00
Entering configuration mode terminal
sysadmin-vm:0_RSPO(config)# interface MgmtEth 0/RSP0/0/0
Wed Mar 31 19:21:19.887 UTC+00:00
sysadmin-vm:0_RSPO(config-MgmtEth-0/RSP0/0/0)# no shut
Wed Mar 31 19:21:21.662 UTC+00:00
sysadmin-vm:0_RSPO(config-MgmtEth-0/RSP0/0/0)# commit
Wed Mar 31 19:21:23.798 UTC+00:00
Commit complete.
sysadmin-vm:0_RSPO(config-MgmtEth-0/RSP0/0/0)# exit
Wed Mar 31 19:21:25.293 UTC+00:00
sysadmin-vm:0_RSPO(config)# exit
Wed Mar 31 19:21:26.162 UTC+00:00
sysadmin-vm:0_RSPO#
sysadmin-vm:0_RSPO#
sysadmin-vm:0_RSPO# sh int
Wed Mar 31 19:21:27.967 UTC+00:00
MgmtEth0/RSP0/0/0 Link encap: Ethernet HWaddr 02:b3:90:92:72:98
  inet addr: 0.0.0.0
  UP RUNNING BROADCAST MULTICAST MTU:1500 Metric:1
  RX packets:          0 errors:0 dropped:0 overruns:0 frame:0
  TX packets:         11 errors:0 dropped:0 overruns:0 carrier:0
                        collisions:0 txqueuelen:1000
  RX bytes:            0 TX bytes:            906

sysadmin-vm:0_RSPO#
```