

WOLEX / NETWORK FIELD REFERENCE

Juniper routers | Troubleshooting

MX / ACX, Junos OS | Revision 1.0 | Reviewed 2026-10-10

IPv4 inet.0 examples. Check the correct routing-instance table. This is not an SRX flow-security or Junos OS Evolved configuration guide.

Read-only inspection unless labeled otherwise. Replace every example address, interface and <PLACEHOLDER>. Confirm syntax with device help for your release.

Prefix absent, hidden or inactive

Read-only inspection

```
show route 192.0.2.0/24 detail
show route forwarding-table destination 192.0.2.10
```

Inspect: Separate route selection from the forwarding-table entry and next-hop resolution.

Next: Check the correct routing instance, preference/policy and next-hop reachability; verify a route for the return source.

Examples target inet.0. A route in another table does not automatically provide reachability here.

BGP peer healthy, prefix not passing

Read-only inspection

```
show bgp summary
show route advertising-protocol bgp 198.51.100.1
show route receive-protocol bgp 198.51.100.1
```

Inspect: Compare session state with advertisements and received paths for the actual neighbor.

Next: Inspect policy and active-route eligibility, then test the destination from the actual source network.

Replace the neighbor. Received-route display is not proof that the route is active or forwarded.

Path healthy at IP, application still fails

Read-only inspection

```
show interfaces terse
show interfaces xe-0/0/0 extensive
```

Inspect: Compare interface state, MTU and counter changes on the suspected path.

Next: Test return routing and application-size behavior; for MPLS/VPN environments verify labels and service tables using the release-specific guide.

A small ping can work while larger packets fail. This sheet does not prescribe a universal MTU.

WOLEX / NETWORK FIELD REFERENCE

Juniper routers | Deployment

MX / ACX, Junos OS | Revision 1.0 | Reviewed 2026-10-10

IPv4 inet.0 examples. Check the correct routing-instance table. This is not an SRX flow-security or Junos OS Evolved configuration guide.

Validate a routed migration

Read-only inspection

```
show route 192.0.2.0/24 detail
show bgp summary
show route forwarding-table destination 192.0.2.10
```

Inspect: Compare route activity, peers and next hops against the pre-change baseline.

Next: Use the Junos change sequence below, then verify source-specific application traffic and the reverse path before confirming.

On dual Routing Engines, use the platform-reviewed synchronization method. Do not commit independently on a backup RE as a generic recovery step.

Change acceptance checklist

Before: approved scope, baseline, compatible software/optics, protected backup, console access and recovery owner.

After: compare links, VLANs, peers and routes; test management from a separate path, real application traffic, intended denies and redundancy. Record evidence and time.

Close: save or confirm the accepted configuration, update documentation and retain the reviewed recovery path.

Junos controlled change sequence - changes device state

```
show | compare
commit check
commit confirmed 5 comment "CHG-123 validation window"
run show system commit
commit comment "CHG-123 validated"
```

Configuration mode, after staging only your approved change. Run commit check BEFORE the timed commit; on Junos it can confirm an already-pending confirmed commit. The final commit is issued only after acceptance. Replace CHG-123; track the timer. If validation fails, follow the tested rollback plan or allow the timer to expire. Rollback loads a candidate and requires a commit to activate; choose the correct revision rather than assuming rollback 1 is always your intended state.

Vendor references

[Juniper BGP troubleshooting](#)[Junos interface status](#)[Junos operational command reference](#)[Junos commit and confirmed rollback](#)[Junos configuration management](#)

Not executed on customer equipment. Documentation-reviewed examples; platform features and syntax vary. No login, config upload or device connection.

Live reference: wolex.net/tools/network-cheat-sheets/Deployment and migration help from Wolex | [Network security review](#)