

WOLEX / NETWORK FIELD REFERENCE

Juniper switches | Troubleshooting

EX / QFX, Junos OS | Revision 1.0 | Reviewed 2026-10-10

Operational mode unless stated. Confirm ELS versus non-ELS configuration syntax. Virtual Chassis checks apply only to supported VC deployments.

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

Physical link or logical unit down

Read-only inspection

```
show interfaces terse
show interfaces ge-0/0/1 extensive
```

Inspect: Separate physical Admin/Link state from logical-unit protocol state; compare error-counter deltas.

Next: Inspect the peer and cabling, then verify whether the required logical unit exists and is configured for the intended service.

Replace ge-0/0/1 with the actual member/port. A physical up state does not prove VLAN or L3 reachability.

Client MAC missing or on wrong path

Read-only inspection

```
show ethernet-switching table
show vlans
```

Inspect: Check VLAN membership and where the client MAC is learned.

Next: Generate controlled client traffic; follow the MAC along each hop and then check the gateway ARP/route.

Use EX/QFX switching syntax. MX bridge-domain tables and ELS/non-ELS configuration stanzas differ.

Aggregation or VC member missing

Read-only inspection

```
show lacp interfaces
show virtual-chassis status
show virtual-chassis vc-port all-members
```

Inspect: Check LACP participation, expected member roles and VCP links.

Next: Compare serial/member mapping and peer state with the design; inspect links before attempting a membership change.

Run VC commands only on a supported Virtual Chassis. Stack changes can affect management and transit traffic.

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Juniper switches | Deployment

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Validate a switch cutover

Read-only inspection

```
show interfaces terse
show ethernet-switching table
show lacp interfaces
```

Inspect: Compare ports, VLAN learning and expected aggregate participation against the baseline.

Next: Use the Junos change sequence below; test management and affected applications before confirming the timed commit.

Pre-check EX model, release, ELS syntax, member IDs and optics. Do not assume EX3300 configuration stanzas can be copied unchanged to every EX3400 release.

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

[Junos interface status](#)[Junos operational command reference](#)[Junos ELS MAC table](#)[Junos LACP reference](#)[Juniper Virtual Chassis guide](#)[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](#)