

# Release Notes

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## Juniper Cloud-Native Router 22.3 Release Notes

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### INTRODUCTION

Juniper Cloud-Native Router (cloud-native router) is a containerized implementation of Juniper control and forwarding planes. The cloud-native router runs on "white-box" Linux servers. It consists of modular components including a control plane (JCNR-Controller), forwarding plane (JCNR-vRouter), and JCNR-CNI. The control plane provides a Junos-based management framework; while the JCNR-vRouter, a DPDK-based forwarding plane, decouples forwarding from the Linux kernel, thus allowing faster forwarding and more scalability. JCNR-CNI provides the network interfaces in software that allow JCNR to network with other containers, VMs, and physical devices. Together, these elements provide flexibility, programmability, and scalability for the coming generations of 5G installations.

### SUPPORTED ON

- RHEL 8.4, 8.5, or 8.6

You can install the cloud-native router on VMs or BMS that run the operating systems shown above. Each server must have one or more Intel Columbiaville (E810) or Intel Fortville (XL710) NICs installed for proper operation.

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# New Features

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This section describes the new features in the Juniper Cloud-Native Router 22.3 release.

## New Features in Juniper Cloud-Native Router Release 22.3

- **Support for Intel XL710 NIC**–Juniper Cloud-Native Router supports the Intel XL710 NIC as a physical NIC for use in the solution. The XL710 NIC does not support the dynamic device personalization (DDP) feature that is supported on the Inte E810 NIC.
- **Localized Notification Timestamps**–Juniper Cloud-Native Router now displays logging and notification timestamps in the local system timezone.
- **Additional Liveness Probe Configuration Parameters**–You can configure additional liveness probe parameters such as timeouts, success thresholds, and failure thresholds in the individual **values.yaml** files for vRouter and jcnr-cni.

## Resolved Issues

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This section describes the resolved issues in the Juniper Cloud-Native Router 22.3 release.

## Resolved Issues in Juniper Cloud-Native Router Release 22.3

- **JCNR-2428 - Cloud-native router applies the default vlanIdList (1-4094) if any vlanIdList is specified in the network attachment definition (NAD)**—Previously, cloud-native router ignored the `vlanIdList` parameter in NAD files and applied the default value of 1-4094 instead.
- **JCNR-2404 - Workload Pod stuck in ContainerCreating state**—In some rare instances, the cRPD mgd-api daemon fails to accept connection requests. Restart the mgd-api daemon manually to resolve the issue.

## Known Limitations

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Learn about known limitations in the Juniper Cloud-Native Router 22.3 release.

## Known Limitations in Juniper Cloud-Native Router Release 22.3

- **JCNR-2588: With Intel XL710 NIC if mid-haul bond link changes, traffic is not seen on VF**—If the mid-haul link for the active link goes down, all traffic might be dropped on the new active link. Restart the jcnr-vrouter POD as a workaround.

- **JCNR-2607: After restart of vRouter or vRouter-agent, bond interface does not show in vif --list output**—In some rare cases, if you restart either the vRouter-DPDK or vRouter-agent containers, the vRouter might not show the bond interface in the output of the `vif --list` command.
- **JCNR-2471: Stale interface entries found in vRouter even after deleting all JCNR-related Pods**—In some rare cases, if you create and delete the same Pods multiple times old interface entries might appear in the output of the `vif --list` command.
- **JCNR-2276: MBUF memory pool leak**—When packetgen pods are deleted and re-created repeatedly soon after traffic is applied, an mbuf mempool leak is observed.
- **JCNR-2205: L2 rate limiting does not work when configured for more than 1000000 Bps**—If rate limiting is configured for more than 1000000 Bps, JCNR-vRouter will only rate limit at 1000000 Bps.
- **JCNR-2043: DPDK bond interface can fail to come up**—If the physical interface (PF) link is down, a VF interface based on that PF interface does not come up.
- **JCNR-2400: Misleading License notification seen : LICENSE\_TOKEN\_REFRESH\_FAILURE - License token refresh of feature 243 and quantity 1 has failed due to license deletion**—This notification can appear when adding or deleting pods. It is safe to ignore this notification.
- **JCNR-2423: vRouter Pod crashes when traffic loop is present due to misconfiguration**—The traffic loop causes continuous MAC move events between bond and switch interface.
- **JCNR-1413: All interfaces on host shown in cRPD**—If you use the cRPD CLI and run a `show interfaces` command like `show interfaces routing`, the system displays all interfaces known to the host, even those that do not belong to Juniper Cloud-Native Router.