Release Notes

vJunosEvolved Release 23.1R1®

Introduction

These release notes accompany vJunosEvolved Release 23.1R1. These Release Notes describes new and changed features, known limitations, and open and resolved problems in the software.

vJunosEvolved is Juniper Networks® virtual Junos OS Evolved based platform. This virtual form factor is introduced to make it easy for users to create instant virtual lab topologies for training, demo, proof of concept, script development, configuration generation and testing the control plane in a virtual lab environments, without having to build labs with Juniper Networks' physical devices based on Junos OS Evolved.

You can find release notes for all Junos OS releases at https://www.juniper.net/documentation/product/us/en/junos-os#cat=release_notes.

JUNIPER
NETWORKS

Engineering
Simplicity

Table of Contents

What's New

Learn about new features introduced in this release for vJunosEvolved.

Platform

Starting in vJunos 23.1R1 Release, we support vJunosEvolved platform, a virtual version of a Juniper device that runs the Junos OS Evolved.

vJunosEvolved is a single VM lab product, that simulates the fixed PTX10001-36MR Junos OS Evolved device. This virtual platform has both Junos OS Evolved Routing Engine and vBT-COSIM running on the same VM.

vJunosEvolved is available for download, free of charge and supported through Juniper's Community pages by Engineering, PLM and TME teams. We do not provide JTAC support for vJunosEvolved.

You can install the software components of the vJunos-switch on an industry-standard x86 server running a Linux KVM hypervisor (Ubuntu 18.04, 20.04, 22.04 or Debian 11 Bullseye).

You can configure and manage vJunosEvolved in the same way as you manage the fixed PTX10001-36MR Junos OS Evolved device.

See vJunosEvolved Deployment Guide for KVM .

Known Limitations

Learn about known limitations in this release for vJunosEvolved.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online Junos Problem Report Search application.

The vJunosEvolved has the following limitations:

- The vJunosEvolved has a fixed-form Junos OS Evolved architecture.

- You cannot upgrade vJunosEvolved on a running system. Instead, you can deploy a new instance with the new software.

  The vJunosEvolved does not support in-service software upgrade (ISSU).

  You cannot attach or detach interfaces while vJunosEvolved is running. .

- To channelize WAN interfaces, run a boot argument with **channelized=yes** that is specified in the VM config and the interfaces speed config at vJunosEvolved CLI.

  Example: `set interfaces et-0/0/0 speed 25g number-of-sub-ports 8`

- For non-channelization, **channelized=no** is the default config.

- vJunosEvolved does not support single-root I/O virtualization (SR-IOV)

- COSIM reliably works up to 2000 pps across 128B-1500B packet length. You do not need a bandwidth license.

- For vJunosEvolved to function correctly as a Virtual Extensible LAN (VXLAN) Tunnel End Point (VTEP), you must configure tunnel termination using the `set forwarding-options tunnel-termination` command. Otherwise the traffic in the tunnel drops on the egress VTEP.

The following features are not supported on vJunosEvolved:

- Port mirroring

- Storm control

- Multichassis link aggregation (MC-LAG)

- VXLAN seamless stitching for Data Center Interconnect (DCI)

- Virtual Router Redundancy Protocol (VRRP)

- Multicast

- Q-in-Q tunneling through an Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN) fabric

- Layer-2 egress filtering on EVPN-VXLAN-enabled integrated routing and bridging (IRB) interfaces

- IPv6 underlay and overlay

- MAC filtering in EVPN-VXLAN fabric using a MAC list

- EVPN-VXLAN fabric enhanced loop detection using connectivity fault management (CFM)

Interfaces

- vJunosEvolved supports maximum of 72 WAN channelized ports (et-0/0/0:0 to et-0/0/11:7.

  When you configure channelization on vJunosEvolved, if the number of ethernet interfaces exceed 25 (i.e post et-0/0/3:1) in the kernel, the RE VM stops during boot-up. PR1715506

Open Issues

IN THIS SECTION

- Platform and Infrastructure | 4

Learn about open issues in this release for vJunosEvolved.

For the most complete and latest information about known Junos OS defects, use the Juniper Networks online Junos Problem Report Search application.

Platform and Infrastructure

- vJunosEvolved is a lab only virtual platform that works without any license. Bandwidth or feature licenses are not required and are not provided. You might get the license check warnings which you can ignore. PR1732288.

- Currently, you must mention the PFE and RPIO bridge links for vJunosEvolved in the orchestration because the EVO architecture does not maintain ethernet interface numbering for these bridge links and may incrorrectly consider the COSIM's WAN ineterfaces as the bridges, affecting the traffic path. PR1731923

- vJunosEvolved does not install a default route to the gateway when it recieves an IP through DHCP in KVM environment. PR1726785

Finding More Information

- **Feature Explorer**—Juniper Networks Feature Explorer helps you to explore software feature information to find the right software release and product for your network.

  https://apps.juniper.net/feature-explorer/

- **PR Search Tool**—Keep track of the latest and additional information about Junos OS open defects and issues resolved.

  https://prsearch.juniper.net/InfoCenter/index?page=prsearch

Requesting Technical Support

IN THIS SECTION

- Self-Help Online Tools and Resources | 5

There is no technical support available for vJunosEvolved through the Juniper Networks Technical Assistance Center (JTAC).

If you are a customer with an active Juniper Care or Partner Support Services support contract, or are covered under warranty, and need post-sales technical support, then access our vJunos-switch community page assistance or queries.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Join and participate in the Juniper Networks Community Forum: https://www.juniper.net/company/communities/

- Search for known bugs: https://prsearch.juniper.net/

- Find product documentation: https://www.juniper.net/documentation/

- Find solutions and answer questions using our Knowledge Base: https://kb.juniper.net/

- Download the latest versions of software and review release notes: https://www.juniper.net/customers/csc/software/

- Search technical bulletins for relevant hardware and software notifications: https://kb.juniper.net/InfoCenter/

Revision History

09 May 2023—Revision 1, vJunosEvolved Release 23.1R1.