

# Contrail Release 3.0.3.2 Release Notes

**Release 3.0.3.2**  
**February 2017**

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## Introduction

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Juniper Networks Contrail is an open, standards-based software solution that delivers network virtualization and service automation for federated cloud networks. It provides self-service provisioning, improves network troubleshooting and diagnostics, and enables service chaining for dynamic application environments across enterprise virtual private cloud (VPC), managed Infrastructure as a Service (IaaS), and Networks Functions Virtualization (NFV) use cases.

These release notes includes new features, known issues, and resolved items for Contrail Release 3.0.3.2, a maintenance release for Contrail Release 3.0.3.0.

For a full description of new features, limitations, known problems, and upgrade instructions for Contrail Release 3.0.3.0, refer to [Release Notes for Contrail Release 3.0.3.0](#).

For full documentation of all features, refer to [Contrail Release 3.0, Feature Guide](#).

## New and Changed Features

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The feature listed in this section is new as of Contrail Release 3.0.3.2.

### ECMP Flow Stickiness Between Bridged and Routed Packet Flows

When an equal-cost multipath (ECMP) load-balancer acting in In-Network-Nat service mode knows the MAC addresses of ECMP backend servers and it rewrites the destination MAC address with the MAC address of one of the servers, Contrail vRouter or vRouter Agent will have to ensure flow stickiness in this scenario.

When a bridged packet is received, Contrail vRouter Agent sets up both forward and reverse flows as Layer 2 flow without any ECMP information. In this scenario, the reverse packet is received by the vRouter as a routed packet. As part of route processing, vRouter hits a route with ECMP next hop. Since the flows do not have any ECMP-Index, vRouter traps the packet for ECMP Index-resolution to the vRouter agent. VRouter agent ensures that the reverse packet reaches the source of forward packet. As part of setting up the forward flow, vRouter agent stores the origin of the forward packet. When picking ECMP-Index for reverse-flow, vRouter agent picks a member corresponding to the origin of the forward packet.

## Known Behavior

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The following are known behaviors in this release of Contrail. Bug numbers are listed and can be researched in [Launchpad](#).

- 1645977 vRouter should be able to bridge packets coming from an in-network SI (when the destination MAC is not vRouter MAC), currently all such packets are routed.
- 1648696 When forward flow is bridged and reverse is routed (SI in ECMP), having the SI and server instance on the same compute node is not supported.

- 1648740 When a flow is bridged in one direction and routed in the other (SI in ECMP), a TCP flow created in onward direction and closed by RESET in the reverse direction sees the reset packet being dropped.
- 1648928 When forward flow is bridged and reverse is routed (SI in ECMP), having multiple SIs on the same compute node is not supported.

## Resolved Issues

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You can research limitations that are fixed with this release in Launchpad at <https://launchpad.net/juniperopenstack/+milestone/r3.0.3.2>.

## Documentation Feedback

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We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. You can provide feedback by using either of the following methods:

- Online feedback rating system—On any page of the Juniper Networks TechLibrary site at <http://www.juniper.net/techpubs/index.html>, simply click the stars to rate the content, and use the pop-up form to provide us with information about your experience. Alternately, you can use the online feedback form at <http://www.juniper.net/techpubs/feedback/>.
- E-mail—Send your comments to [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net). Include the document or topic name, URL or page number, and software version (if applicable).

## Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

## 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:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <http://www2.juniper.net/kb/>
- Find product documentation: <http://www.juniper.net/techpubs/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>
- Download the latest versions of software and review release notes: <http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications: <http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum: <http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://tools.juniper.net/SerialNumberEntitlementSearch/>

## Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html>.

## Revision History

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February 2017—Revision 1, Contrail 3.0.3.2

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