

Release Notes

Published
2023-07-31

Contrail Networking Release 2005.1

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Introduction

Juniper Networks Contrail Networking 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 accompany Release 2005.1 of Contrail Networking. They describe new features, limitations, and known problems.

These release notes are displayed on the Contrail Networking Documentation Web page at https://www.juniper.net/documentation/en_US/contrail20/information-products /topic-collections/release-notes/index.html.

New and Changed Features in Contrail Networking Release 2005.1

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- [New and Changed Features | 1](#)

There are no new features in Contrail Networking Release 2005.1.

New and Changed Features

IN THIS SECTION

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The features listed in this section are new or changed as of Contrail Networking Release 2005. A brief description of each new feature is included.

New and Changed Features in Contrail Networking Release 2005.1

There are no new features in Contrail Networking Release 2005.1.

New and Changed Features in Contrail Networking Release 2005

Inter Subcluster Route Filtering

Contrail Networking Release 2005 supports inter subcluster route filtering (Beta). With this release, a new extended community called `origin-sub-cluster` (similar to `origin-vn`) is added to all routes originating from a subcluster.

The format of this new extended community is `subcluster:<asn>:<id>`.

This new extended community is added by encoding the subcluster ID in the ID field within the extended community. The subcluster ID helps you determine the subcluster from which the route originated, and is unique for each subcluster.

For more information, see [Remote Compute](#).

Kubernetes 1.14.8 Support

Contrail CNI is qualified with Kubernetes version 1.14.8 in Contrail Networking Release 2005.

Zero Impact Upgrade: Upgrading Contrail Networking Software without Rebooting Compute Nodes with Kernel-mode vRouters

Starting in Contrail Networking Release 2005, Contrail Networking supports huge pages in environments where compute nodes are using kernel-mode vRouters and the environment is deployed using Red Hat Openstack or Juju. Huge page support for kernel-mode vRouters allows the Zero Impact Upgrade (ZIU) procedure to complete Contrail Networking software upgrades without rebooting compute nodes. For additional information, see [Updating Contrail Networking using the Zero Impact Upgrade Process in an Environment using Red Hat Openstack](#), [Updating Contrail Networking using the Zero Impact Upgrade Procedure in a Canonical Openstack Deployment with Juju Charms](#), and [Installing Contrail with OpenStack by Using Juju Charms](#).

Zero Impact Upgrade: Contrail Networking Software Upgrades in Environments Deployed using Ansible

Starting in Contrail Networking Release 2005, you can use the Zero Impact Upgrade (ZIU) procedure to upgrade Contrail Networking software in environments that are deployed using Ansible. For additional information, see [How to Perform a Zero Impact Contrail Networking Upgrade using Ansible](#).

Deploying Contrail Command and Importing a Contrail Cluster Using Juju in a Canonical Openstack Environment

Starting in Contrail Networking Release 2005, you can deploy Contrail Command and import an existing Contrail Cluster into Contrail Command with a single procedure using Juju in environments where Canonical Openstack is the orchestration platform. For additional information, see [How to Deploy Contrail Command and Import a Cluster Using Juju in a Canonical Openstack Environment](#).

Installation Enhancements for Contrail Command Installations with Contrail Insights and Contrail Insights Flows

Starting in Contrail Networking Release 2005, you can enable Contrail Insights and Contrail Insights Flows without adding the `/opt/software/appformix:/opt/software/appformix` and `/opt/software/xflow:/opt/software/xflow` user command volume paths in the `command_servers.yml` file. This update to the `command_servers.yml` file was required before enabling Contrail Command in environments using Contrail Insights and Contrail Insights Flows. Contrail Insights and Contrail Insights Flows used to be named AppFormix and AppFormix Flows respectively. For additional information, see [Installing Contrail Command](#).

Adding or Deleting Flow Collector Nodes in Contrail

Support to add a flow-collector node or delete an existing flow-collector node by modifying the `instances.yml` file. For more information, see

For more information, see [Adding or Deleting Flow Collector Nodes in Contrail](#).

Configuring DCI-Gateway Role on MX Series Routers

Starting in Contrail Networking Release 2005, you can configure the DCI-Gateway routing-bridging role on MX240, MX480, MX960, and MX10003 devices. These MX series devices can then be used in spine deployments.

For more information, see [Supported Hardware Platforms and Associated Node Profiles and Roles and Data Center Interconnect](#).

Enhanced Routing Policies to Support QFX Series Devices in Contrail Networking

Contrail Networking Release 2005 enables you to create routing policies for QFX series devices. In earlier Contrail Networking releases you could create routing policies for vRouters only. From the Contrail Command UI you can create a routing policy for a physical device (QFX Series devices) or a vRouter. Navigate to **Overlay>Routing Policies>Add>Create Routing Policy** to create a routing policy with routing policy terms supported by QFX Series devices. Select **Physical Device** from the **Type** field to create a routing policy for QFX Series devices.

Contrail Networking Release 2005 enables you to create routing policies for QFX series devices in the Contrail Command user interface (UI). In releases prior to release 2005, you could create routing policies on vRouters only. To create a routing policy on a QFX series device, navigate to **Overlay>Routing>Routing Policies>Add** and select **Physical Device** in the **Type** field.

For more information, see [Creating Routing Policies for Junos Physical Devices in Contrail Networking](#).

Configuring BFD with eBGP, Static Route, OSPF, and PIM Routing Protocols

Starting in Contrail Networking Release 2005, you can configure BFD with eBGP, Static Route, OSPF, and PIM routing protocols. For more information, see [Connecting to Third-Party PNF Devices](#).

Support for Configuring PIM and OSPF Routing Protocols

You can use the Contrail Command user interface (UI) to connect the border gateway devices to third-party devices that are not managed by Contrail Networking. With Contrail Networking Release 2005, you can also configure Protocol Independent Multicast (PIM) and Open Shortest Path First (OSPF) routing protocols between a logical router and an unmanaged third-party device. As a result, configuration is pushed to the border gateway devices and a connection is formed between the fabric and the external network through the third-party unmanaged device.

For more information, see [Connecting to Third-Party PNF Devices](#).

Support for Logical Router Interconnect in Contrail Networking

Contrail Networking Release 2005 supports the logical router interconnect (LR Interconnect) feature that enables you to leak routes from a source logical router to multiple destination logical routers that are deployed in the same fabric. The source logical router leaks routes using an export source. In the Contrail Command user interface (UI), navigate to **Overlay>Interconnects>LR Interconnects>Create** and select **Routing Policy** or **Virtual Networks** as the **Export Source**, which the source logical router uses to leak routes to all the destination logical routers.

For more information, see [Logical Router Interconnect](#).

Support for Octavia as LBaaS

Starting in Contrail Networking Release 2005, Contrail Networking supports Octavia as LBaaS. The Neutron LBaaS plugin is no longer available in OpenStack Train release. If you want to use legacy Contrail load balancer, you can use VNC or Contrail Command. For details, refer to [Installing OpenStack Octavia LBaaS with Contrail Networking](#) and [Installing OpenStack Octavia LBaaS in Canonical Deployment](#).

What's New Panel in Contrail Command

Starting with Contrail Networking Release 2005, you can use the *What's New* panel within Contrail Command to gather a summary list of the new Contrail Networking features in your Contrail Networking release. The *What's New* panel provides a high-level description of each new feature and a *See Release Notes* option that takes you to the Contrail Networking Release Notes for additional feature information. You can access the *What's New* panel by selecting the **What's New** option in the ? help menu.

Supported Platforms in Contrail Networking Release 2005

[Table 1 on page 5](#) lists the orchestrator releases and the corresponding operating systems and kernel versions supported by Contrail Networking Release 2005.

Table 1: Supported Platforms

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
Contrail Networking Release 2005.1	Kubernetes 1.14.8	Ansible	<ul style="list-style-type: none"> CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 <p>Ansible version : 2.7.11</p> <p>Docker version: 18.03.1-ce</p>

Table 1: Supported Platforms (Continued)

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> • RHEL 7.8—Linux Kernel Version 3.10.0-1127
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> • CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 Ansible version: 2.5.2 Docker version: 18.03.1-ce • CentOS 7.8—Linux Kernel Version 3.10.0-1127 Ansible version: 2.5.2 Docker version: 18.03.1-ce
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> • CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 Ansible version: 2.5.2 Docker version: 18.03.1-ce • CentOS 7.8—Linux Kernel Version 3.10.0-1127 Ansible version: 2.5.2 Docker version: 18.03.1-ce
		Canonical OpenStack Queens	<ul style="list-style-type: none"> • Ubuntu 18.04.4—Linux Kernel Version 4.15.0-104-generic MaaS Version: 2.4.2

Table 1: Supported Platforms (Continued)

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	Canonical OpenStack Train	Juju Charms	<ul style="list-style-type: none"> Ubuntu 18.04.4—Linux Kernel Version 4.15.0-104-generic <p>MaaS Version: 2.4.2</p>
	Red Hat OpenStack Platform 13.0.11	RHOSP 13 director	<ul style="list-style-type: none"> RHEL7.7—Linux Kernel Version 3.10.0-1062.12.1 <p>(Director Image: rhosp-director-images-13.0-20200323.2</p> <p>Red Hat Content Sync Date : 2020-04-06</p> <ul style="list-style-type: none"> RHEL 7.8—Linux Kernel Version 3.10.0-1127 <p>(Director Image: rhosp-director-images-13.0-20200323.2</p> <p>Red Hat Content Sync Date : 2020-04-06</p>
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> ESX version 6.5 <p>CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1</p>
Contrail Networking Release 2005	Kubernetes 1.14.8	Ansible	<ul style="list-style-type: none"> CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 <p>Ansible version : 2.7.11</p> <p>Docker version: 18.03.1-ce</p>
	OpenShift 3.11	Ansible	<ul style="list-style-type: none"> RHEL 7.8—Linux Kernel Version 3.10.0-1127

Table 1: Supported Platforms (Continued)

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	OpenStack Rocky	Ansible	<ul style="list-style-type: none"> • CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 Ansible version: 2.5.2 Docker version: 18.03.1-ce • CentOS 7.8—Linux Kernel Version 3.10.0-1127 Ansible version: 2.5.2 Docker version: 18.03.1-ce
	OpenStack Queens	Ansible	<ul style="list-style-type: none"> • CentOS 7.7—Linux Kernel Version 3.10.0-1062.12.1 Ansible version: 2.5.2 Docker version: 18.03.1-ce • CentOS 7.8—Linux Kernel Version 3.10.0-1127 Ansible version: 2.5.2 Docker version: 18.03.1-ce
		Canonical OpenStack Queens	<ul style="list-style-type: none"> • Ubuntu 18.04.4—Linux Kernel Version 4.15.0-104-generic MaaS Version: 2.4.2
	Canonical OpenStack Train	Juju Charms	<ul style="list-style-type: none"> • Ubuntu 18.04.4—Linux Kernel Version 4.15.0-104-generic MaaS Version: 2.4.2

Table 1: Supported Platforms (Continued)

Contrail Networking Release	Orchestrator Release	Deployment Tool	Operating System, Kernel, and Key Components Version
	Red Hat OpenStack Platform 13.0.11	RHOSP 13 director	<ul style="list-style-type: none"> RHEL7.7—Linux Kernel Version 3.10.0-1062.12.1 (Director Image: rhosp-director-images-13.0-20200323.2 Red Hat Content Sync Date : 2020-04-06 RHEL 7.8—Linux Kernel Version 3.10.0-1127 (Director Image: rhosp-director-images-13.0-20200323.2 Red Hat Content Sync Date : 2020-04-06
	VMware vCenter 6.7	Ansible	<ul style="list-style-type: none"> ESX version 6.5 CentOS VM version running vRouter: CentOS 7.7—Linux Kernel Version 3.10.0-1062.1.1

[Table 2 on page 9](#) lists the Contrail Insights release to use with Contrail Networking Release 2005.

Table 2: Contrail Insights Release

Contrail Networking Release	Contrail Insights Release	Operating System
Contrail Networking Release 2005.1	3.2.10	CentOS 7.7
Contrail Networking Release 2005	3.2.10	CentOS 7.7

Known Behavior

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- [Known Behavior in Contrail Networking Release 2005.1 | 10](#)
- [Known Behavior in Contrail Networking Release 2005 | 13](#)

This section lists known limitations with this release.

Known Behavior in Contrail Networking Release 2005.1

- CEM-16118 In high-scale fabric management scenarios with VMI scale above 15,000 certain Web UI interactions can experience high latency. In these high-scale clusters it is recommended to disable SSL on the Contrail Cluster API interfaces using the Enable_SSL: False flag at cluster provisioning time.
- CEM-15809 Updating VLAN-ID on a VPG in an enterprise style fabric is not supported. As a workaround, delete and recreate the fabric.
- CEM-15710 Contrail Insights alarms will not get generated for vRouter flows if SSL is enabled for vRouter introspect.
- CEM-15873 Contrail Insights Alarm Creation for Contrail and Openstack from Contrail Command will not work. As a workaround, use Contrail Insights UI to create alarms for Contrail and OpenStack.
- CEM-15764 In Octavia Load Balancer, traffic destined to the Floating IP of the load balancer VM does not get directed to the backend VMs. Traffic destined to the actual VM IP of the Load Balancer VM will work fine.
- CEM-15874 While importing SSL enabled Juju cluster into Contrail Command, SSL option for telemetry and config endpoints does not get created. As a workaround, manually change the endpoints to https.

- CEM-15599 In Contrail fabric manager deployments, update of static routes in InterfaceRouteTable(prefix list) of RoutingPolicy is not reflected in Routed LR. To trigger this update, edit and save the routing policy which uses this interface route table.
- CEM-15567 Ansible error when there are multiple virtual networks attached to multiple logical routers.
- CEM-14751 If Quota is enabled, accessing projects overview page (default page after the user logs in to Horizon) does not work and the user gets logged out. This is due to OpenStack bug <https://bugs.launchpad.net/horizon/+bug/1788631>. As a workaround, disable quota in Horizon by editing horizon local_settings file under OPENSTACK_NEUTRON_NETWORK group, set the enable_quotas=False, and restart the horizon container.
- CEM-14264 In release 2003, the Virtual Port Group create workflow will not pre-populate the VLAN-ID with the existing value that was defined with the first VPG for a given virtual network. The field is editable unlike in previous releases. This issue occurs in a fabric that was provisioned with the **Fabric-wide VLAN-ID significance** checkbox enabled.
- CEM-15561, CEM-13976 vRouter offload with Mellanox NIC cards does not work. However the DPDK on Mellanox NICs without offload is supported.
- CEM-13767 - Though Contrail fabric manager has the ability for the user to use custom image names for the fabric devices, for platforms like QFX10000-60C which runs on vmhost-based platforms, while uploading the image to CFM, the image name should be chosen in **junos-vmhost-install-x.tgz** format.
- CEM-13685 - DPDK vRouter with MLNX CX5 takes about 10 minutes and also lcore crash is seen. This happens once during initial installation.
- CEM-13380 - AppFormix Flows does not show up for multi homed devices on the fabric
- CEM-12861 - Flow to VN mapping using Contrail Insights Flows does not work for any traffic involving BMS traffic end points.
- CEM-11163 In Fortville X710 NIC: With TX and RX buffers performance degrade is observed as mbufs gets exhausted.
- CEM-10929 - When Contrail Insights is querying LLDP table from a device through SNMP, if SNMP calls time out, Contrail Insights marks the device as invalidConfiguration and notifies the user to take a look. When the user verifies that snmpwalk is working and there are no network issues, click **Edit** and reconfigure that device from **Settings > Network Devices** to make Contrail Insights try to run LLDP discovery and add this device again.
- CEM-9979 During upgrade of DPDK computes deployed with OOO Heat Templates in RHOSP environment, vRouter coredumps are observed. This is due to the sequence in which the services are started during upgrade and does not have impact on cluster operation.

- CEM-8701 While bringing up a BMS using the Life Cycle Management workflow, sometimes on faster servers the re-image does not go through and instance not moved from ironic vn to tenant vn. This is because if the PXE boot request from the BMS is sent before the routes are converged between the BMS port and the TFTP service running in Contrail nodes. As a workaround, the servers can be rebooted or the BIOS in the servers can be configured to have a delayed boot.
- CEM-8701, CEM-8149 - Onboarding of multiple BMS in parallel on SP-style fabric does not work.
- CEM-4370 - Additional links cannot be appended to service templates used to create PNF service chaining. If there is a need to add additional links, the service template needs to be deleted and re-added again.
- CEM-4358 - In Contrail fabric deployments configuring QFX5110 as spine (CRB-Gateway) does not work.
- CEM-8149 BMS LCM with fabric set with `enterprise_style=True` is not supported. By default, `enterprise_style` is set to `False`. Avoid using `enterprise_style=True` if the fabric object onboards the BMS LCM instance.
- CEM-7874 User defined alarms may not be generated, when third stunnel/Redis service instance is down after the first two instances were restarted.
- CEM-5788 Installation fails if FQDN is used to deploy Contrail Cluster through Contrail Command with OpenStack orchestration.
- CEM-5141 For deleting compute nodes, the UI workflow will not work. Instead, update the `instances.yaml` with `"ENABLE_DESTROY: True"` and `"roles:"` (leave it empty) and run the following playbooks.

```
ansible-playbook -i inventory/ -e orchestrator=openstack --tags nova playbooks/
install_openstack.yml
ansible-playbook -i inventory/ -e orchestrator=openstack playbooks/install_contrail.yml
```

For example:

```
global_configuration:
  ENABLE_DESTROY: True
  ...
  ...
instances:
  ...
  ...
  srvr5:
    provider: bms
```

```

ip: 19x.xxx.x.55
roles:
...
...

```

- CEM-5043 VNI update on a LR doesn't update the RouteTable. As a workaround, delete the LogicalRouter and create a new LogicalRouter with the new VNI.
- CEM-3959 BMS movement across TORs is not supported. To move BMS across TORs the whole VPG need to be moved. That means if there are more than one BMS associated to one VPG, and one of the BMS need to be moved, the whole VPG need to be deleted and re-configured as per the new association.
- JCB-187287 High Availability provisioning of Kubernetes master is not supported.
- JCB-184776 When the vRouter receives the head fragment of an ICMPv6 packet, the head fragment is immediately enqueued to the assembler. The flow is created as hold flow and then trapped to the agent. If fragments corresponding to this head fragment are already in the assembler or if new fragments arrive immediately after the head fragment, the assembler releases them to flow module. Fragments get enqueued in the hold queue if agent does not write flow action by the time the assembler releases fragments to the flow module. A maximum of three fragments are enqueued in the hold queue at a time. The remaining fragments are dropped from the assembler to the flow module.

As a workaround, the head fragment is enqueued to assembler only after flow action is written by agent. If the flow is already present in non-hold state, it is immediately enqueued to assembler.
- JCB-177787 In DPDK vRouter use cases such as SNAT and LBaaS that require netns, jumbo MTU cannot be set. Maximum MTU allowed: <=1500.

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- CEM-16118 In high-scale fabric management scenarios with VMI scale above 15,000 certain Web UI interactions can experience high latency. In these high-scale clusters it is recommended to disable SSL on the Contrail Cluster API interfaces using the Enable_SSL: False flag at cluster provisioning time.
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- CEM-4358 - In Contrail fabric deployments configuring QFX5110 as spine (CRB-Gateway) does not work.
- CEM-8149 BMS LCM with fabric set with enterprise_style=True is not supported. By default, enterprise_style is set to False. Avoid using enterprise_style=True if the fabric object onboards the BMS LCM instance.
- CEM-7874 User defined alarms may not be generated, when third stunnel/Redis service instance is down after the first two instances were restarted.
- CEM-5788 Installation fails if FQDN is used to deploy Contrail Cluster through Contrail Command with OpenStack orchestration.
- CEM-5141 For deleting compute nodes, the UI workflow will not work. Instead, update the instances.yaml with "ENABLE_DESTROY: True" and "roles:" (leave it empty) and run the following playbooks.

```
ansible-playbook -i inventory/ -e orchestrator=openstack --tags nova playbooks/  
install_openstack.yml  
ansible-playbook -i inventory/ -e orchestrator=openstack playbooks/install_contrail.yml
```

For example:

```
global_configuration:
  ENABLE_DESTROY: True
  ...
  ...
instances:
  ...
  ...
  srvr5:
    provider: bms
    ip: 19x.xxx.x.55
    roles:
  ...
  ...
```

- CEM-5043 VNI update on a LR doesn't update the RouteTable. As a workaround, delete the LogicalRouter and create a new LogicalRouter with the new VNI.
- CEM-3959 BMS movement across TORs is not supported. To move BMS across TORs the whole VPG need to be moved. That means if there are more than one BMS associated to one VPG, and one of the BMS need to be moved, the whole VPG need to be deleted and re-configured as per the new association.
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As a workaround, the head fragment is enqueued to assembler only after flow action is written by agent. If the flow is already present in non-hold state, it is immediately enqueued to assembler.

- JCB-177787 In DPDK vRouter use cases such as SNAT and LBaaS that require netns, jumbo MTU cannot be set. Maximum MTU allowed: <=1500.

Resolved Issues

You can research limitations that are resolved with this release at:

[Resolved Issues in Contrail Networking Release 2005](#)

Use your Juniper Support login credentials to view the list. If you do not have a Juniper Support account, you can register for one at <https://userregistration.juniper.net/>.

Documentation Updates

IN THIS SECTION

- [Contrail Insights Available in hub.juniper.net | 17](#)
- [Contrail Command Screenshots | 17](#)

This section lists updates to and issues with Contrail Networking documentation.

Contrail Insights Available in hub.juniper.net

The product name *AppFormix* has been changed to *Contrail Insights*. Documentation has been updated to reflect the name change starting in Contrail Networking Release 2005.

Contrail Command Screenshots

If you are using Contrail Networking Release 2005, you might see a side-panel mismatch between screenshots presented in the Contrail Networking documentation and your Contrail Command UI. We added an enhanced side panel in the Contrail Command UI in release 2003. Thus, screenshots in the

documentation from releases before release 2003 do not display the side panel. However, the navigation path to all pages remains unchanged.

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