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Juniper BNG CUPS Broadband Network Gateway Instruction Manual

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Gateway Instruction Manual

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Introduction

Juniper BNG CUPS separates the Broadband Network Gateway (BNG) stack running in the native Junos OS into

a cloud native application, where the BNG control plane functionality runs on the cloud application and the BNG user plane functionality runs in Junos OS. The cloud environment enables a single control plane to connect with multiple user planes. In Juniper BNG CUPS, the BNG functions are split into the BNG CUPS Controller (control plane) functions and the BNG User Plane (user plane) functions. The management, state and control packet interfaces operate between the BNG CUPS Controller and the BNG User Planes. The benefits of Juniper BNG CUPS are the following:

- A centralized BNG CUPS Controller provides for more efficient use of network resources. Following are some examples:
    - Address allocation
    - Load balancing
    - Management and control
- Increased scale–The cloud environment that Juniper BNG CUPS utilizes, enables you to increase the number of subscribers supported.
- Locational independence and separate life-cycle management and maintenance.
- Throughput and latency optimization–Because the BNG User Planes are closer to the subscribers, throughput and latency is optimized. These release notes accompany the following Juniper BNG CUPS releases:
- Juniper BNG CUPS Release 22.1R1
- Juniper BNG CUPS Release 22.2R2
- Juniper BNG CUPS Release 22.3R1

Installation

Juniper BNG CUPS installation requires the following minimum system requirements:

NOTE: These system requirements are for Juniper BNG CUPS Controller (BNG CUPS Controller).

Primary Node

- CPU cores–4 (hyperthreading preferred)
- RAM–30 GB
- Disk space–100 GB of free disk storage in the root partition

Worker Nodes–BNG CUPS Controller requires a minimum of three worker nodes. Each worker node must meet the following requirements:

- CPU cores–7 (hyperthreading preferred)
- RAM–62 GB
- Disk space–64 GB of free disk storage in the root partition

Software

- Ubuntu version 18.04 LTS

For information on how to install Juniper BNG CUPS, see **Juniper BNG CUPS Installation and Migration Guide**.

New and Changed Features

There are no new or changed features in the following Juniper BNG CUPS releases:

- Juniper BNG CUPS Release 22.1R1
- Juniper BNG CUPS Release 22.2R2
- Juniper BNG CUPS Release 22.3R1

Open Issues

This section lists the known issues in the following Juniper BNG CUPS releases. The following known issues exist in Juniper BNG CUPS Release 22.1R1:

- BNG CUPS Controller L2TP LAC functionality is not working. **PR1642991**
- Subscriber load balancing not supported. **PR1649062**
- Subscribers cannot bind on a BNG User Plane after the access interface has been disabled and reenabled. **PR1652203**
- Pool drain with APM not working. **PR1652715** The following known issue exists in Juniper BNG CUPS Release 22.2R2:
- BNG CUPS Controller L2TP LAC functionality is not working. **PR1642991** The following known issue exists in Juniper BNG CUPS Release 22.3R1:
- BNG CUPS Controller L2TP LAC functionality is not working. **PR1642991**

Resolved Issues

This section lists the resolved issues in the following Juniper BNG CUPS releases. The following issues are fixed in Juniper BNG CUPS Release 22.2R2:

- Subscriber load balancing not supported. **PR1649062**
- Subscribers cannot bind on a BNG User Plane after the access interface has been disabled and reenabled. **PR1652203**
- Pool drain with APM not working. **PR1652715** The following issues are fixed in Juniper BNG CUPS Release 22.3R1:
- Subscriber load balancing not supported. **PR1649062**
- Subscribers cannot bind on a BNG User Plane after the access interface has been disabled and reenabled. **PR1652203**
- Pool drain with APM not working. **PR1652715**

Requesting Technical Support

Technical product support is available 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, 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 **https://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf**.

- Product warranties–For product warranty information, visit **https://www.juniper.net/support/warranty/**.
- JTAC hours of operation–The JTAC centres 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: **https://www.juniper.net/customers/support/**
- 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://supportportal.juniper.net/s/knowledge
- 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://supportportal.juniper.net/s/knowledge
- Join and participate in the Juniper Networks Community Forum:
  https://www.juniper.net/company/communities/
- Create a service request online: **https://supportportal.juniper.net/** To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool:
  https://entitlementsearch.juniper.net/entitlementsearch/

Creating a Service Request with JTAC

You can create a service request with JTAC on the Web or by telephone.

- Visit **https://support.juniper.net/support/requesting-support/**
- 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 **https://support.juniper.net/support/requesting-support/**.

Documents / **Resources**

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BNG CUPS, Broadband Network Gateway, Network Gateway, Broadband Gateway, Gateway, BNG CUPS Gateway

References

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- **Support**
- **Support**
- **TechLibrary | Juniper Networks**
- **Juniper BNG CUPS Installation and Migration Guide | BNG CUPS 22.1 | Juniper Networks**
- **Product Warranty Policy - Support - Juniper Networks**