

Increasing Maximum Chunks Per User NAPT for 5G MiFi

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	NAT
Applicable Platform(s)	• ASR 5500 • VPC-DI
Feature Default	Disabled - Configuration Required
Related Changes in this Release	Not Applicable
Related Documentation	• *Command Line Interface Reference, Modes C - D Reference Guide* • *NAT Administration Guide*

Revision History

Revision Details	Release
In this release, the NAT inline service is enhanced to support utilization of NAT ports and oversubscription configuration.	21.23

Feature Description

The Network Address Translation (NAT) is enhanced to introduce 5G MiFi device to the 5G network. With the enhancement, when more devices are connected to MiFi, the number of flows increases. The new 5G MiFi device allows up to a large number of devices through WiFi that requires the support of a large number of simultaneous IP flows in the P-GW NAT inline service in each single NAT pool. The NAT inline service is enhanced to support oversubscription and to keep a good utilization of NAT ports.

The **min-port-chunk-per-user** parameter added to the NAT ip-pool configuration guarantees new subscriber to have at least 1 (or n) port-chunks allocation. You can configure NAT pool for each subscriber port-chunk number, when it exceeds the calculated port-chunk number based on either (64k port) or **napt-users-per-ip-addres**.

Note

- The **min-port-chunk-per-user** is only applicable to NAPT single-ip.
- **min-port-chunk-per-user** and **port-chunk-threshold** are mutually exclusive.
- Allows over subscription configuration.
- The number of port chunks per IP is reduced when you configure port-chunk size to a higher value. This is because the first 1024 ports are reserved.

For more information about Minimum Port-Chunks Reservation and configurations, refer the *Minimum Port Chunks Reservation* section in the *NAT Configuration* chapter of the *NAT Administration Guide*.

Configuring Many-to-One NAT IP Pools

Use the following configuration commands to configure NAT IP pool.

```
configure
  context context_name
    ip pool min-port-chunk-per-user max_chunks_per_user
    ip pool port-chunk-threshold
    end
```

NOTES:

- **ip pool min-port-chunk-per-user** : Specifies NAT Port minimum number of chunks per user for many-to-one NAT pool. *max_chunks_per_user* must be an integer from 1 through 100.
- **ip pool port-chunk-threshold** and **ip pool min-port-chunk-per-user** are mutually exclusive.