



NTSR Pool Configuration Mode Commands

MME restoration is a 3GPP specification-based feature designed to gracefully handle the sessions at S-GW once S-GW detects that the MME has failed or restarted. If the S-GW detects an MME failure based on a different restart counter in the Recovery IE in any GTP Signaling message or Echo Request / Response, it will terminate sessions and not maintain any PDN connections.

As a part of this feature, if a S-GW detects that a MME or S4-SGSN has restarted, instead of removing all the resources associated with the peer node, the S-GW shall maintain the PDN connection table data and MM bearer contexts for some specific S5/S8 bearer contexts eligible for network initiated service restoration, and initiate the deletion of the resources associated with all the other S5/S8 bearers.

The S5/S8 bearers eligible for network initiated service restoration are determined by the S-GW based on operator's policy, for example, based on the QCI and/or ARP and/or APN.

The benefit of this feature is that it provides support for the geo-redundant pool feature on the S4-SGSN/MME. In order to restore session when the MME receives a DDN, the S-GW triggers restoration when the serving MME is unavailable, by selecting another MME and sending DDN. This helps in faster service restoration/continuity in case of MME/S4-SGSN failures.

Command Modes

This mode is used to configure a pool of IP addresses associated with a pool ID and pool type (either MME or S4-SGSN) for Network Triggered Service Restoration (NTSR).

Exec > Global Configuration > NTSR Pool Configuration

configure > ntsr pool pool-id id > pool-type type

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ntsr-pool)#
```



Important

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).



Important

For information on common commands available in this configuration mode, refer to the [Common Commands](#) chapter.

- [peer-ip-address](#), on page 2

peer-ip-address

Configures a pool of IP addresses associated with a pool ID and pool type (either MME or S4-SGSN) for Network Triggered Service Restoration (NTSR).

Product S-GW

Privilege Administrator, Security Administrator

Command Modes Exec > Global Configuration > NTSR Pool Configuration

configure > ntsr pool pool-id id > pool-type type

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-ntsr-pool)#
```

Syntax Description [no] **peer-ip-address** { **ipv4-address** *ipv4_address* | **ipv6-address** *ipv6_address*

no

Removes the specified IP address configuration.

ipv4 ipv4_address

Specifies an IPv4 address to use with an associated NTSR pool ID and pool type (either MME or S4-SGSN).

ipv6 ipv6_address

Specifies an IPv6 address to use with an associated NTSR pool ID and pool type (either MME or S4-SGSN).

Usage Guidelines Use this command to configure a pool of IP addresses associated with a pool ID and pool type (either MME or S4-SGSN) for Network Triggered Service Restoration (NTSR).

Before using this command, operators must configure an NTSR pool ID and pool type by executing the **ntsr pool** command in Global Configuration Mode

Example

To configure a an IPv4 address associated with a pool ID and pool type (either MME or S4-SGSN) for Network Triggered Service Restoration (NTSR).

```
peer-ip-address ipv4-address 1.1.1.1
```