

# N : M Redundancy


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## Revision History

**Note** Revision history details are not provided for features introduced before release 21.24.

| Revision Details | Release |
|---|---|
| With this release support is provided for a new CLI to ignore the SSH IP installation in UP. | 21.26.7 |
| First introduced. | Pre 21.24 |

## Feature Description

The CUPS User Plane (UP) is an all-important network component in the core network that carries and anchors the data traffic of subscribers. To ensure a smooth quality of experience (QoE), it is necessary to preserve data traffic and continue with minimal interruption. This is feasible only when there is a provision of a robust redundancy mechanism for all the data sessions that are hosted and anchored on UPs.

Every UP should have a redundant UP on standby (warm, hot, or active). However, this model mandates significant resource requirement for the service providers and is not a preferred model because of the number of UPs that can keep scaling horizontally. The preferred model is to have an N:M model with multiple UPs acting as standby-UPs for every active UPs. The N:M Redundancy feature provides this redundancy model.

On the UP, there is a new Cisco proprietary node called the Redundancy and Configuration Manager (RCM) which handles the configuration management of the UPs and the redundancy functionality.

For details on N:M redundancy and RCM, refer the *Redundancy and Configuration Manager Configuration and Administration Guide*.

# Configuring Ignore SSH IP Installation

Use the configuration given below to ignore the SSH IP installation in UP:

```
configure
   context context_name
      redundancy-configuration-module module_name
         ignore-ssh-ip
         end
```



**Note** By default, when this CLI is not configured, the NSO SSH IP is configured on UP as usual.