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
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*.