

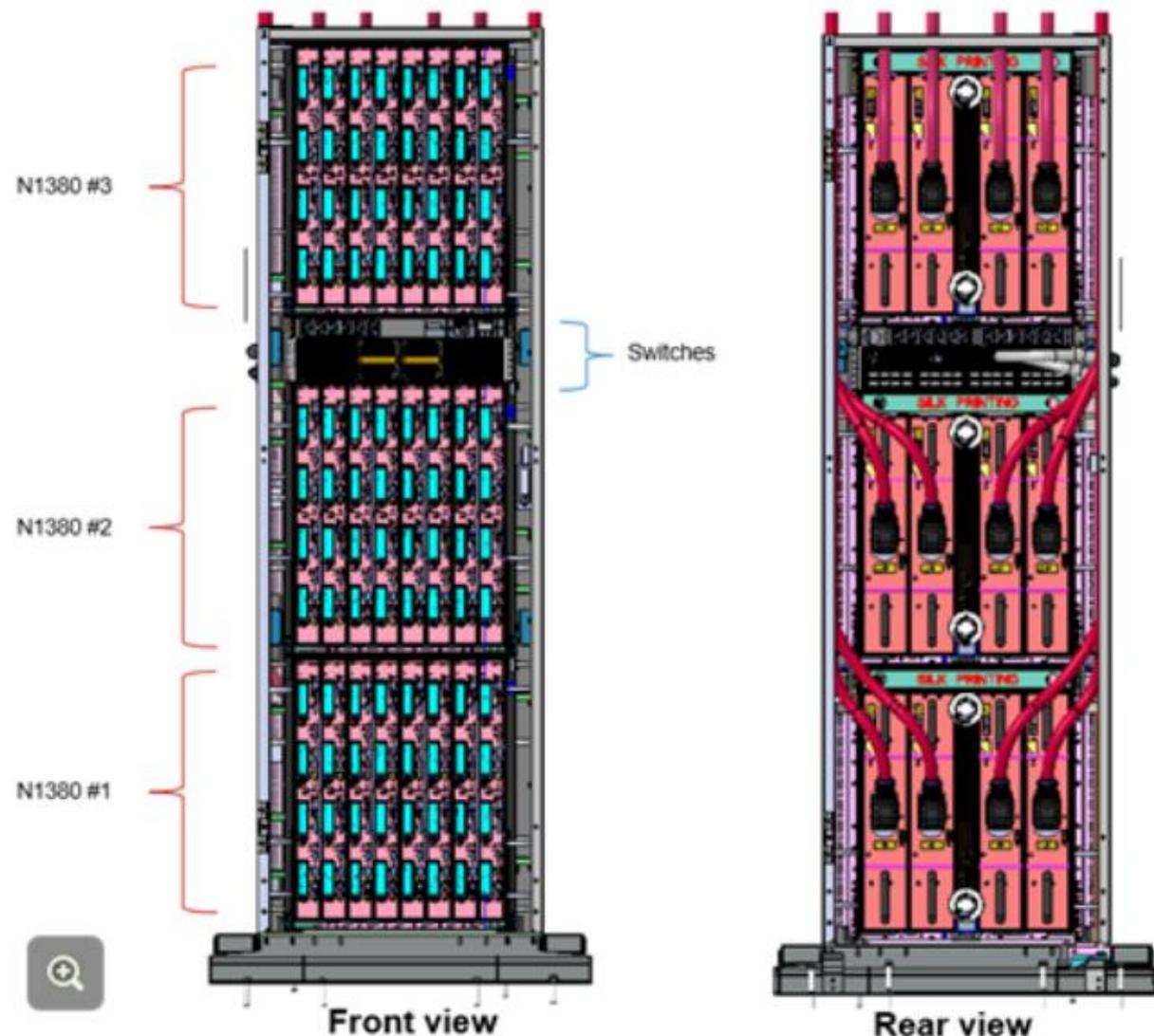
ThinkSystem N1380 Neptune enclosure rack configurations

Product features, technical specifications

Lenovo

N1380 enclosure rack configurations and requirements

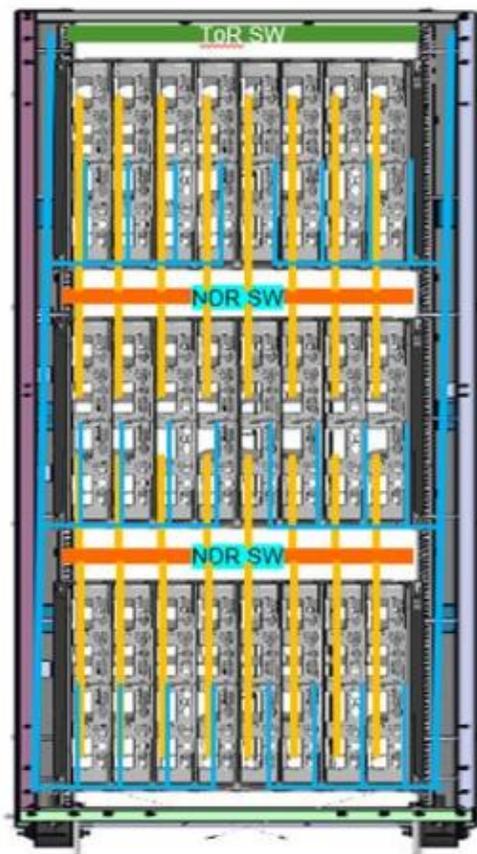
- 42U and 48U racks are supported (Diagrams showing 42U racks are shown here as an example)
- Up to three N1380 enclosures can be installed in a rack
- A 3-phase power cord can be directly connected to the PCS – a PDU is not necessary
 - A PDU is required when installing a switch in the same rack, but it is recommended to install switches in a different rack
- Mixed chassis support
 - DW612S and N1380 enclosures can be installed in the same rack
- Support for manifolds with series loop
- A lift tool is required to install or remove a node tray or PCS



Network cable routing

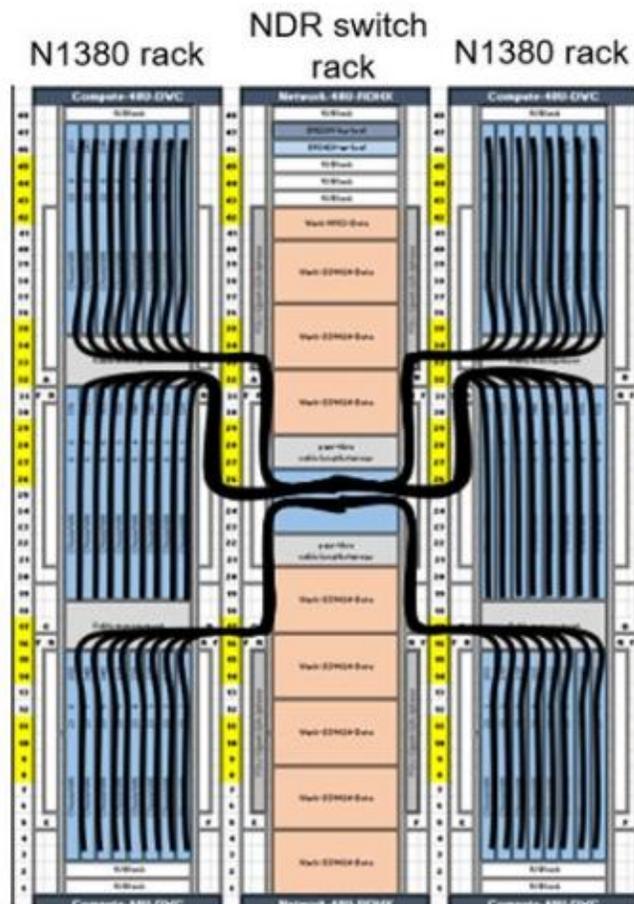
In-rack:

- InfiniBand (IB) cables (yellow) are vertically routed to the NVIDIA NDR switches
- 1 G and 2 G cables (blue) route to the sides of the rack and then go up and down



Out-of-rack:

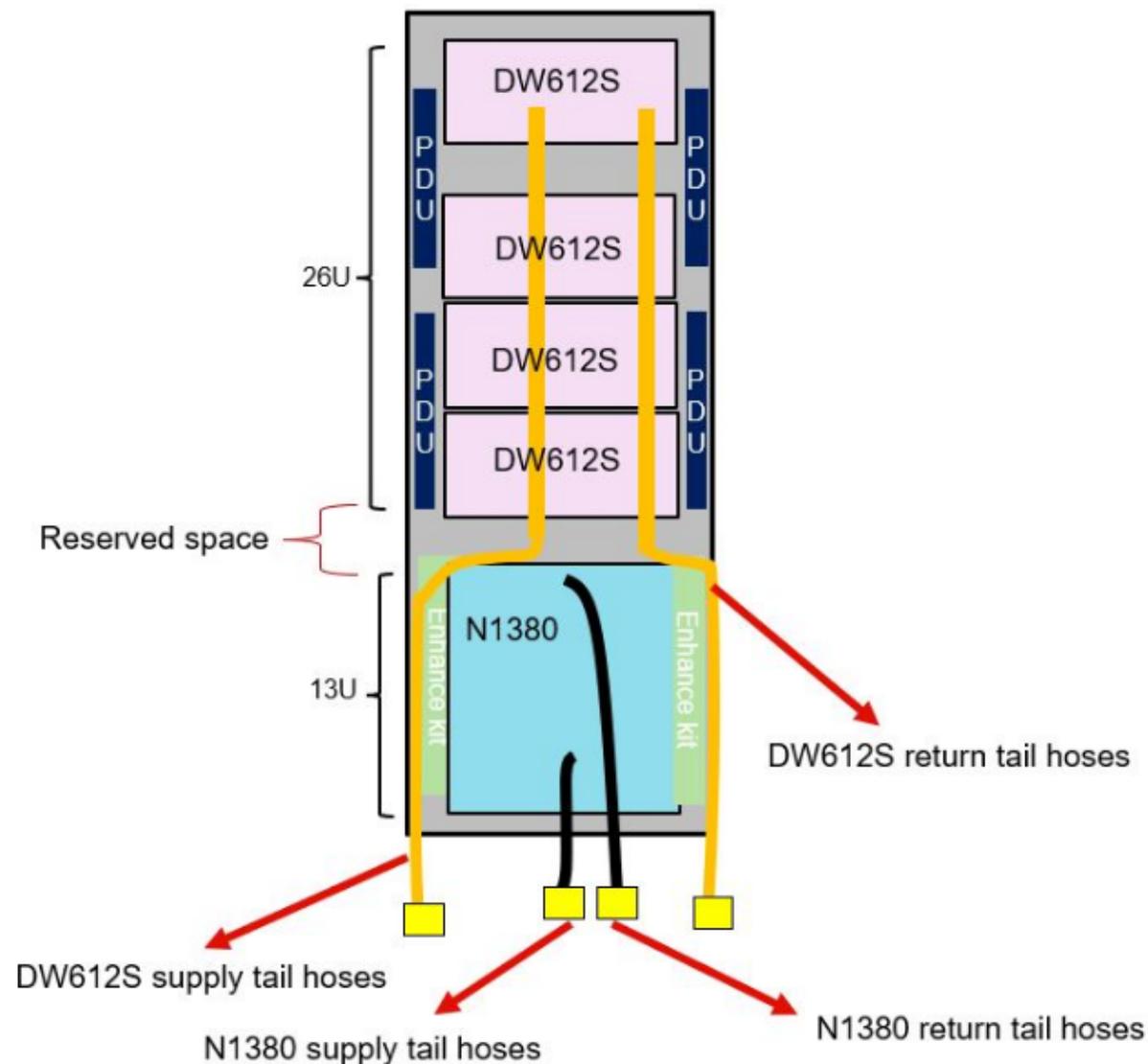
- IB cables (black) route to one side of the rack and connect to the NDR switch rack



Mixing the N1380 with the DW612S in a rack

Pay attention to the following when using both types of enclosure in a single rack:

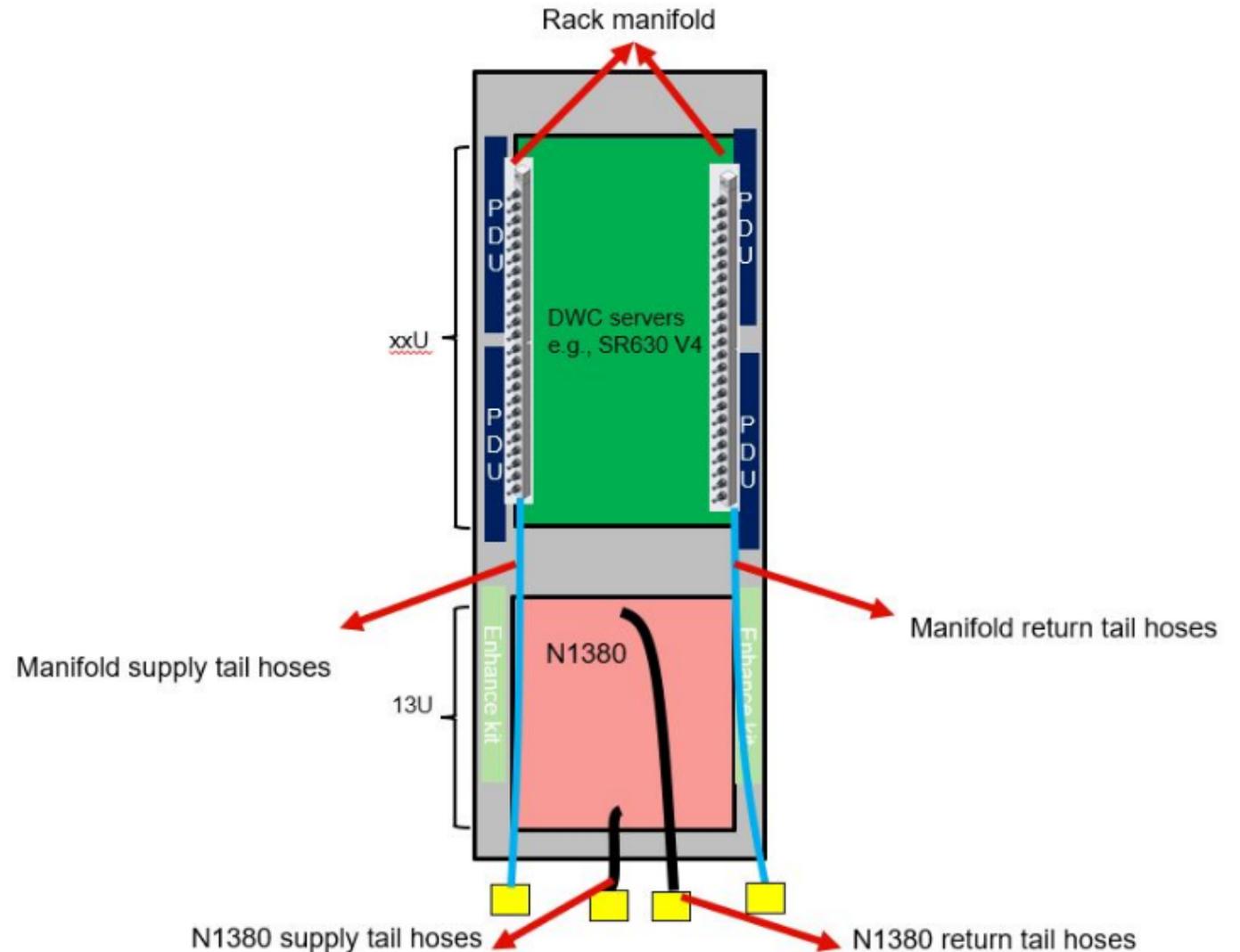
- Deploy the N1380 in the lower position
- Reserve sufficient space below the DW612S enclosures for DW612S tail hoses
- No support for the DW612S DWC PSU



Mixing the N1380 with DWC servers in a rack

Pay attention to the following when using the N1380 with DWC servers in a single rack:

- Deploy the N1380 in the lower position
- There is support for RDHX (rear door heat exchanger)



Serial water flow configuration

The N1380 supports serial water flow configuration with the following limitations:

- Only two N1380 enclosures deployed with SC750 V4 compute trays can be used.
- Due to chassis hose length limitations, chassis must be stacked with no space in between.

A. First enclosure

B. Second enclosure

1. Hose supply for the first enclosure – connected to the facility supply
2. Hose return for the first enclosure – connected to the hose supply for the second enclosure
3. Hose supply for the second enclosure – connected to the hose return for the first enclosure
4. Hose return for the second enclosure – connected to the facility return

