

24 Low Rate (LR) Datapath

This chapter provides conceptual information about 24 LR datapath feature on Cisco NCS 4000 Series routers.

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Overview

To handle low rate client signal on NCS4K, this feature provides low rate (OC3/OC12/STM1/STM4) data path support on NCS4K-24LR-O-S line card.

Following are the characteristics limitations of this feature:

- Packet fuctionalities are not supported.
- Only single TCM functionality is supported.
- PRBS is not supported.
- Loopback is not supported on cross connected ODU.
- NCS4K-24LR-O-S line card has maximum 40G capacity. There are four10G port and 20 low rate ports. Since at a time we cannot use all ports below are few combinations which can be used:
  - On ports 0 to 3, OC3/OC12 can be allocated only if 10GE/OC192 traffic is not configured on Port 22; on port 4 OC3/OC12 can be allocated only if OC48 is not configured on port 0; on port 22 OC3/OC12 can be allocated only if OC48 is not configured on port 2.
  - On ports 6 to 9, OC3/OC12 can be allocated only if 10GE/OC192 traffic is not configured on Port 10; on port 5 OC3/OC12 can be allocated only if OC48 is not configured on port 6; on port 10 OC3/OC12 can be allocated only if OC48 is not configured on port 8.
  - On ports 12 to15, OC3/OC12 can be allocated only if 10GE/OC192 traffic is not configured on Port 23; on port 16 OC3/OC12 can be allocated only if OC48 is not configured on port 12; on port 23 OC3/OC12 can be allocated only if OC48 is not configured on port 14.
  - On ports 18 to 21, OC3/OC12 can be allocated only if 10GE/OC192 traffic is not configured on Port 11; on port 17 OC3/OC12 can be allocated only if OC48 is not configured on port 18; on port 11 OC3/OC12 can be allocated only if OC48 is not configured on port 20.