Understand 16G FC Interop Verification between NCS2K 400G-XP Line Card and MDS 9710

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Introduction

This document describes the recommended configuration settings and associated details for 16G Fiber Channel (FC) Interoperability (interop) between the 400G-XP Line Card in the Cisco NCS2K platform and the MDS-9710 switch.

Problem

This Cisco Optical Platform and Cisco MDS switch are described as reference for the 16G FC interop in the current document:

- Cisco ONS Platform: NCS2006 OR NCS2015 with 400G-XP line card
- MDS-9710 Switch

For Cisco interop qualified status and the recommended configuration settings on NCS2K and MDS platforms to ensure smooth interoperability, observe the solution provided.

Solution

NCS2K 400G Line Card Recommended Configuration

Starting with the release 10.6.2, the NCS2K-400G-XP card supported 16G Fiber Channel (16G-FC) payloads on its client ports.

In order to support the 16G-FC payload, a new Slice Op-Mode, OPM_6x16G_FC, has been introduced.

The OPM_6X16G_FC allows 16FC on ports 1, 2, 3, 4, 5, and 6. The 400G line card mode and slice configuration steps are elaborated here.

For 400G-LC, these settings are recommended for client and trunk ports:

ONS CARD Type	SAN Device	OPMODE	PAYLOAD	Client_SQUELCH	Trunk_SQUELCH
400G-XP	MDS 9710	MXP-200G	16GFC	LOCAL FAULT	AIS

MDS-9710 Recommended Configuration

MDS Settings:

8/10/16 GFC MDS Settings
Speed Admin = 16GFC
Rate Mode = Dedicated
Trunking = ON/OFF
Buffer credits~ = 500
Load Sharing = ON