Transcript-Overview of the Cisco NCS 2015 Chassis

This video gives you a brief introduction to the Cisco NCS 2015 chassis and its ancillaries. The Cisco NCS 2015 chassis is the next generation in the proven Cisco Network Convergence System 2000 Series for ultra-long-haul, metro, and enterprise optical networks.

The chassis is 24.44 inches in height, 17.67 inches in width, and 11.10 inches in depth and can be mounted on a 19-inch ANSI, 23-inch ANSI or a 21-inch ETSI rack. You can install up to three NCS 2015 shelves in a 7-foot equipment rack.

Airflow through the chassis is in the front-to-back direction. Air is drawn in through a two-inch inlet at the bottom of the chassis, and expelled through an outlet at the top-rear.

Grounding of the chassis is mandatory. Two grounding points are provided on the side of the chassis.

The front door of NCS 2015 chassis provides access to the shelf and acts as a protective panel. The door is provided with a fixed wing cam lock.

The chassis has 18 vertical slots. Slots 2 to 16 are for service line cards. Slots 1 and 17 are for redundant control cards. The control cards supported on the NCS 2015 chassis are the TNCS and TNCS-O cards. Slot 18 is for the external connection unit or the ECU.

The chassis is powered by four pluggable DC power modules with 3+1, 2+2, 2+1, and 1+1 redundancy. The maximum chassis power is 5250 W. Each power module has three status LEDs located on the front left side of its faceplate - the input, output and fault LEDs.

Power-cabling is decoupled from the power modules, thus allowing for easy replacement of a power module. The chassis is provided with a power switch at the top right corner of the chassis, next to the power modules. This switch powers up or shuts down the power to the entire chassis.

The alarm dry contacts and BITS connectors are located in the middle of the power input panel of the chassis.

The fan-tray assembly contains the fans and its associated circuitry and is located on the front of the NCS 2015 chassis below the power input panel. The fan tray has eight 92mm x 48mm fans. The fan tray also accommodates the LCD unit and its circuitry.

The 16 x 2 character LCD screen is powered by the control card and displays the shelf name, the shelf IP address, and the software version currently used. It also provides slot-level and port-level information about all card slots, including the number of critical, major, and minor alarms.

The ECU is a replaceable module. The ECU contains RJ-45 and SFP interfaces for multi-shelf and element management, providing the convenience of copper with the distance flexibility of optical connections. There are 2 LEDs that display the link and activity status of the CT/EMS port. Fourteen USB ports connect to passive devices, two of which are USB 3.0 ports.

The table displays the external connections present on the NCS 2015 ECU .

A backup flash memory is fitted into the ECU to support database and image backup in the operation of the NCS 2015.

The fiber or cable guide used in the NCS 2015 chassis provides improved fiber management. The exit of the fibers and cables is split into two channels. The optic cables from line cards from slot 1 to 8 exits from the lower left of the chassis and the cables from the line cards from 9 to 17 exits from the lower right of the chassis.

For detailed information about the installation of the NCS 2015 chassis and its ancillaries, see the Cisco NCS 2000 Series Hardware Installation Guide.

Thanks for watching.