What are the parameters of the FC interface



Overview

interface fc Specifies the number of an FC interface. Usage Scenario. Devices on a storage area network (SAN) use FC interfaces to (Optional) Setting Param.

Key Takeaways

Fibre Channel (FC) interfaces are configured with parameters such as port mode, buffer-to-buffer credit, frame size, and WWN addressing to ensure reliable SAN communication.Key Parameters

1. Port Mode and Interface Identification

• FC interfaces are typically configured by switching an Ethernet interface to FC mode using commands like port mode fc interface-type interface-number and entering the FC interface view with interface fc fc-port-id ( ).

• Each FC interface is identified by a port ID and associated with a World Wide Name (WWN), a 64-bit globally unique address used for communication in the SAN ( ). 2. Buffer-to-Buffer Credit (BB_Credit)

• BB_Credit is a flow control mechanism that determines the number of outgoing frames an FC interface can send without receiving acknowledgment, preventing packet loss ( ).

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• It is calculated based on the maximum frame size and the available buffer on the interface. Extended BB_Credits may be used for longer distances or higher-speed links ( ). 3. Frame Size

• The maximum length of packets (frames) forwarded by an FC interface can be configured using commands like fc framesize framesize ( ).

• By default, the maximum frame size is 2148 bytes, but it can be adjusted to optimize performance or accommodate specific SAN requirements ( ). 4. Flow Control and Error Handling

• Forward Error Correction (FEC) can be enabled on some FC interfaces to allow error detection and correction without retransmission, particularly useful on impaired links ( ).

• Transmitter Training Signal (TTS) allows the receiver to provide feedback to the transmitter for link adaptation and FEC usage ( ). 5. SAN Topology and Addressing

• FC interfaces operate in different SAN topologies: point-to-point, arbitrated loop, or switched fabric ( ).

• Each interface is part of a domain, area, and port structure, with Domain_ID, Area_ID, and Port_ID forming the 24-bit FC address used for routing within the fabric ( ). 6. Additional Configurations

• Descriptions, mirroring, and medium type can be pre-configured on FC interfaces ( ).

• Shared resources like BB_Credits are allocated per interface and may need to be managed when interfaces are taken out of service or reconfigured ( ).
Summary

FC interface parameters are critical for reliable SAN operation, including port mode, BB_Credit, frame size, WWN addressing, and error control mechanisms. Proper configuration ensures efficient traffic flow, prevents packet loss, and maintains compatibility across SAN devices. These parameters are typically set via system-view commands on switches and require careful planning for high-speed or long-distance SAN deployments ( ).

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Article Content

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FC protocol provides both the channel speed for data transfer with low protocol overhead and the scalability of network

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The gateway receives native FC frames from the FC switch on the gateway''s native FC interfaces. The gateway encapsulates the

Presentation

ULP data is transferred using data transfer protocols specified in FC-4 standards See FCP-5, FC-SB-6, FC-NVMe-2,

Fibre Channel Interoperability

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Understanding the guts of the Fibre Channel (FC) protocol itself, including the naming format and addressing scheme,

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Protocol Analysis 201 for High-Speed Fibre Channel Fabrics

Fibre Channel Layers* FC has functional layers: FC-0: The interface to the physical media; transceivers, cables, etc. FC-1:

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Fibre Channel

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Fibre Channel started in 1988, with ANSI standard approval in 1994, to merge the benefits of multiple

Fibre Channel Specifications

An FCSI Profile is an interoperability specification. The FCSI Profiles will serve as implementation guidelines for systems

Basics of the Fibre Channel Standard | TV Tech

The standard of choice for many of the high-performance video media storage platforms is the Fibre Channel (FC),

ANSI/INCITS 543

This standard describes the physical interface portions of high performance optical link variants that support the

Cisco Nexus 5000 Series NX-OS Fibre Channel Command Reference

To configure a Fibre Channel interface on a Cisco Nexus 5000 Series switch, use the interface fc command. To revert

Fibre Channel 101

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Fiber Channel Network

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Setting Parameters for FC Calls | Siemens S7 manual

Download appendix for Siemens . Learn more about Setting Parameters for FC Calls, Calling Communication Blocks for an S7-300.

Basics of FC Programming with SIMATIC S7-1200

Give your FC a meaningful name and, if necessary, define its input and output parameters. These parameters serve

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