

Core Switch Maintenance and Inspection



Overview

Boost network uptime and hardware lifespan with our expert preventive maintenance SOP for enterprise switches.

Key Takeaways

Regular maintenance and inspection of core switches are essential to ensure network reliability, performance, and security while extending the lifespan of critical networking equipment.

Key Maintenance Steps

1. Pre-Maintenance Preparation

- **Backup Configurations:** Always create a full backup of the switch configuration before performing any changes to prevent data loss or misconfiguration issues .
- **Schedule Maintenance Windows:** Perform maintenance during approved windows to minimize business impact .
- **Safety Measures:** Verify proper grounding and power connections, and use ESD protection such as anti-static wrist straps when handling internal components .

2. Configuration Review

- **Remove Obsolete VLANs and Ports:** Identify and delete unused VLANs, ports, and EtherChannels to reduce complexity and potential security risks .
- **Audit Layer 3 Features:** If the switch performs routing or other advanced functions, review and remove obsolete access-lists or preconfigured features .

- Firmware and Software Updates: Ensure the switch is running the latest stable firmware to address security vulnerabilities and improve performance .
- ### 3. Hardware Inspection
- Visual Inspection: Check for physical damage, dust accumulation, and proper airflow around the switch .
 - Port and Cable Checks: Verify that all ports and connected cables are functioning correctly and replace any damaged components .
 - Power and Redundancy Systems: Inspect power supplies, UPS connections, and redundant systems to ensure uninterrupted operation .
- ### 4. Performance Monitoring
- Resource Utilization: Record CPU, memory, and bandwidth usage to identify potential bottlenecks .
 - Port Status: Document port states and connectivity to detect intermittent issues or misconfigurations .
 - Traffic Analysis: Monitor for unusual traffic patterns that may indicate misconfigurations or security threats .
- ### 5. Documentation and Compliance
- Maintenance Records: Keep detailed logs of all maintenance activities, configuration changes, and hardware replacements .
 - Compliance Checks: Ensure that maintenance aligns with ITIL guidelines, manufacturer recommendations, and organizational policies .
 - Digital Tools: Consider using platforms like Oxmaint to streamline inspection documentation, track compliance, and generate historical records for each device .
- ### 6. Post-Maintenance Verification
- Connectivity Tests: Confirm that all network segments are operational and that routing and switching functions are intact .
 - Redundancy Validation: Test failover mechanisms and backup systems to ensure they function correctly in case of primary system failure .
 - Performance Reassessment: Compare pre- and post-maintenance performance metrics to verify improvements or detect new issues .
- ### Best Practices
- Implement preventive maintenance regularly rather than waiting for failures.
 - Maintain a clear network topology map to understand the role of each core switch in the network .
 - Use structured checklists to ensure no step is overlooked and to facilitate audits and compliance reporting .

- Train IT staff on vendor-specific CLI commands and configuration guides to safely manage advanced features . By following these procedures, IT teams can maintain high availability, optimal performance, and security of core switches, while minimizing downtime and extending the operational life of critical network infrastructure.

Article Content

Network Switch Maintenance Checklist IT Infrastructure

Implementing this comprehensive Network Switch Maintenance Checklist is essential for maintaining IT infrastructure reliability,

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Network Switch Maintenance Checklist IT Infrastructure Sample Inspection Report ...
Signature (Technician):

Recommendations for servicing a core switch

I would like to know what recommendations Cisco would make for servicing/cleaning a core switch that has sustained

The Ultimate Guide to Network Switch Maintenance

Specific training on switch maintenance procedures and best practices is essential for ensuring consistent and

Switchgear and Switchboard Inspection and Testing Guide

This guide provides a general overview of the inspection, testing, and maintenance techniques used on switchgear

Network Switch Preventive Maintenance Sop | Best Practices

Boost network uptime and hardware lifespan with our expert preventive maintenance SOP for enterprise switches. Learn core

scheduled electrical maintenance, best practice and temporary core

next Saturday, electrical maintenance work will take place, and the power will be cut for several hours in our main

Introduction to the Routine Maintenance

The stable running of switches depends on the proper network planning and routine maintenance and monitoring on

TD-1006P-02 Switch Maintenance and Inspection Program for

Electric transmission switches are widely used within the PG&E system and their proper operation is crucial to public and employee

Switchgear Maintenance

Quality Uptime offers reliable switchgear maintenance solutions. Our skilled technicians offer comprehensive inspections, repairs,

Automatic Transfer Switch Maintenance

Proper maintenance of an automatic transfer switch depends on the type of switch and its position in the critical power infrastructure.

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Consult with industry experts to determine if your current switches can benefit from modern upgrades, ensuring your

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Switch Machine Inspection and Maintenance

The inspection and maintenance procedure for switch machines shall be modified for each rail transit agency's

27-Point ATS Maintenance Checklist (With Torque & Test Specs)

This 27-point ATS maintenance checklist fixes that, pairing every inspection step with the exact torque value (in-lb/Nm), transfer

Switchgear Services

Switchgear Services and Solutions: Testing, Inspection, Repair, and Preventive Maintenance Switchgear is the backbone of any

Switchgear Maintenance

Switchgear Maintenance As an essential part of your electric distribution system, switchgear is engineered to safely and reliably

APTA RT-S-VIM-001-01

Introduction (This introduction is not a part of APTA RT-SC-S-024-03, Standard for Electric Switch Machine Inspection and

Switchboard Maintenance Checklist

This downloadable checklist provides a step-by-step guide to Switchboard maintenance tasks, helping you keep your equipment

Preventive Maintenance of Disconnecter & Earthing

A comprehensive guide on preventative maintenance of disconnecter and earthing

Best way to replace a core switch with minimal down time

Once you are done with that, in a maintenance window, disconnect the old switch, connect the new switch and move

Top 5 Switchgear Preventative Maintenance Must-do's

Master switchgear preventative maintenance to ensure safety and equipment longevity. Learn the top five

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Surfactant is used to guarantee proper cleaning of the hood, duct, and plenum during wash cycles and aids with fire suppression.

Switchgear Maintenance – What are the best practices?

Switchgear acts as the primary control and protection system for the electrical power supply. Though electrical switchgear is made to

Switchgear Maintenance Checklist: A Complete Guide for Industrial ...

Ensure reliable power with this complete switchgear maintenance checklist for LV & MV systems inspections, testing,

Network Maintenance Checklist: 11 Tasks | ConnectWise

Check out the network maintenance checklist from ConnectWise to organize activities, maintain efficiency, and

Lightning Protection System Checklist

This lightning protection system inspection checklist contains 11 items to check for a project's compliance with approved drawings,

Maintaining Your Switchgear | TD World

Damage to the switchgear itself can be extremely expensive, but that pales in comparison to corollary damage and the

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

