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FX5200's SWITCH13 pages help us improve your experience. Let us know what you think. Do you have time for a two-minute survey? Juniper Networks EX3400 Ethernet Switch provides high-stretch, flexibility and cost-effective solutions for the most demanding converged environments for data, voice and video access to businesses. To simplify the network, the EX3400 is ready for hardware processing¹ as a satellite device to support the deployment of Juniper Networks Junos Fusion Enterprise, which can combine multiple wiring cabinets into one logical control platform. The EX3400 also supports Juniper Networks virtual chassis technology, allowing up to 10 switches to be interconnected over communication ports and operated as a single device, providing a scalable, paid-as-growth solution to expand the network environment. Juniper Networks EX3400 Ethernet Switch with Juniper Networks Junos® Fusion Enterprise and virtual Chassis technology provide businesses with flexibility and ease of control that were previously only available with higher access switches. The fixed CONFIGURATION of the EX3400 supports a number of key features, including: Junos Fusion Enterprise allows you to customize a large number of EX3400 switches as satellite devices that connect to the EX9200 kernel aggregation switch to create a single logical device. The 24-port and 48-port models are with and without power over Ethernet (PoE/PoE) for campus closet deployment. Optimized data center cooling options offer both front and rear airflows, making the EX3400 suitable for the deployment of the GbE data center. Two redundant, locally replaced power sources provide capacity of up to 920 W. Models of 24-port data centers are included for the deployment of the metro. Four two-volume (GbE/10GbE) small form factors connected to connected transceivers (SFP/SFP) and two 40GbE ports are available. Sfp, Uplink ports can be configured as virtual chassis interfaces and are connected through standard 10GbE/40GbE optical interfaces (40GbE uplink ports pre-configured by default as virtual chassis ports). There is full functionality of Layer 2 with RIP and static routing. The compact, 13.8-inch deep 1 U form factor supports flexible deployment options. A simple-management solution includes a centralized software update and a single management interface. Support is available for the same consistent modular Juniper Networks Junos operating system plane implementation system used by all other Juniper fixed configuration Juniper Network EX series Ethernet switches. Support is provided for Layer 3 (OSPF v2, IGRP v1/v2/v3, PIM, VRRP, q-in-q, BFD, virtual router) Extended feature license (additional license required). Support is available for IPv6 management, including Neighbor Detection, Automatic Stateless Configuration, Telnet, SSH, DNS, System Log, NTP, Ping, Trace, ACL, CoS Static Static and RIPng, IPv6 (OSPFv3, virtual router support for unicast, VRRPv6, PIM, MLDv1/v2) is supported by an extended feature license. Ethernet (EEE) is an energy efficient option. Junos Fusion Enterprise technology provides an automated network configuration and simplifies the scalability of medium- and large-scale networks. Using Juniper Networks EX9200 programmable switches as an aggregation of devices and switches as satellite nodes, Junos Fusion Enterprise technology can be deployed in a building (or multiple buildings) to connect a large number of switches into fabric that can be controlled as a single device. With Junos Fusion technology, businesses can reduce network complexity and operating costs by crashing basic network elements into a single logical control point from Juniper Junos OS routing and switching platforms. It's designed for customers who need to deploy multiple switch ports efficiently across the corporate campus network and manage them all from the central device. EX3400 switches can be easily added to the Junos Fusion Enterprise architecture with a simple software update, offering complete investment protection. When Deploying Junos Fusion Enterprise, satellite devices should not be individually connected to device aggregation. Up to 10 satellite devices can be interconnected through standard 10GbE/40GbE interfaces to form a cluster, which in turn can be connected to an aggregation device (s) through a couple of fiber optic links. Satellite devices or clusters can also be dual or disposable aggregation devices. When The Junos Fusion Enterprise was deployed, satellite devices interrupted all traffic to the aggregation device, allowing network administrators to control and control the entire campus building from one device. Features such as PoE/PoE, LLDP-MED and 802.1x are also supported in Junos Fusion Enterprise architectures to help meet the enterprise's campus requirements. EX3400 Junos Fusion Enterprise's simplified deployment technology and Junos Fusion Enterprise's simplified operations make it much easier to manage the EX3400, allowing you to control a large number of switches from a single interface when deployed as satellite devices. With features such as plug-in deployment and software playback and update, Junos Fusion Enterprise eliminates the need for individual control of each access switch in a corporate environment, resulting in lower operating costs and an overall reduction in TCO. Virtual chassis technology makes it easier to control the network for small deployments. Up to 10 EX3400 switches can be controlled as a single device using a single Junos OS image and a single configuration file, reducing the total number of units for monitoring and control. When Junos is updated on the main switch in the ex3400 virtual chassis configuration, ex3400, The software is automatically updated on all other members switches at the same time. In addition, a feature called a system shot makes a copy of all the software files used to run the switch, including the Junos operating system, active configuration, and rescue configuration. These copies can be used to restart the switch the next time you turn it on or as a backup download option. The Junos OS software can also be preinstalled on a flash drive and used to download the EX3400 at any time. Another feature, called automatic software downloading, allows network administrators to easily update the EX3400 through the DHCP data-sharing process to download and install software packages. Users simply set up the automatic software download feature on the EX3400 switches that act as DHCP customers and set the way to the server where the software package file is installed. The server then transmits the path to the software package file through DHCP server messages. The zero touch feature allows the DHCP server to press configuration details and images of the software on multiple switches during download. There are three options available for the EX3400 range. The standard Junos OS CLI control interface offers the same granular capabilities and script settings that can be found in any router running on the Junos operating system. The EX3400 also includes an integrated J-Web interface, a built-in Web-based device manager that allows users to customize, monitor, fix problems and maintain the system on individual switches through a browser-based graphical interface. Juniper Networks Junos Space Network Director software can be used to control the EX3400, both as a standalone device and as satellite devices when deploying Junos Fusion Enterprise. Finally, THE EX3400 malfunction, configuration, and performance data can also be exported to leading third-party management systems such as HP OpenView, IBM Tivoli and Computer Associates Uni software, providing a complete, consolidated view of network operations. The EX3400 supports Juniper Networks virtual chassis technology, allowing up to 10 switches to be interconnected over uplink ports and managed as a single logical device, providing a scalable, pay-as-you-grow solution to expand the network environment. When deploying in a virtual chassis configuration, the EX3400 switches select the main and backup switch based on a set of criteria or pre-configured policies. Master Switch automatically and updates switching and additional routing tables on all switches in virtual chassis configuration. Virtual chassis technology allows you to add or remove switches without disruption to service. The configuration of the EX3400 virtual chassis works as a highly-committed unified system that provides simplified control using a single IP address, one telnet session, a single command interface automatic version check and automatic configuration. EX3400 switches are also able to switch locally, so packages entering a port designed for another port on the same switchboard must not cross the virtual chassis, increasing the switch's rerouted capacity. The EX3400 implements the same queue/module/port scheme as other Juniper Networks chassis-based products when measuring virtual chassis ports, providing real-world operations similar to the chassis. Using a consistent operating system and a single configuration file, all switches in the virtual chassis configuration are treated as a single device, simplifying overall maintenance and system management. The two SFP ports on the EX3400 switch can be configured as virtual chassis ports or as references to device aggregation. EX3400 Virtual Chassis Deployment Power EX3400 supports 802.3af Class 3 Power over Ethernet (PoE) and 802.3at PoE' standards to support network devices such as phones, video cameras, IEEE 802.11ac WLAN hotspots, and videophones in converged networks. While the EX3400 switches ship with a single power source by default, they can maintain excess 600W or 920W power that provide PoE (15.4 W) or PoE' (30W) power for all ports in the switchboard. Spare power supplies can be ordered as needed. The EX3400 switches have two PoE power settings: static mode allows customers to specify the maximum PoE power in a single port. Class mode allows end devices to specify a PoE class and agree on whether the switch can provide PoE power to the device. The EX3400 also supports the industry-standard Link Layer Detection Protocol (LLDP) and LLDP-Media Endpoint Discovery (LLDP-MED), which allow switches to automatically open Ethernet-enabled devices, determine their power requirements, and assign virtual LAN (VLAN) settings. LLDP-MED-based granular PoE control allows the EX3400 to negotiate PoE use up a fraction of the watt on powered devices, allowing for more efficient use of PoE through the switch. The EX3400 supports the IEEE 802.3az standard for the energy efficient Ethernet (EEE) feature, reducing the energy consumption of copper physical layers during periods of low reference use. In addition, the EX3400 supports rich service quality functionality to prioritize data traffic, voice and video. Switches support 12 CoS queues (8 single-rate and 4 multicast) at each port, allowing them to maintain tiered, final traffic priorities. The EX3400 also supports a wide range of planning options, such as priority and weighted form-deficit circular planning (SDWRR). Security THE EX3400 compatible with Juniper Networks Access Policy Infrastructure, which consolidates all aspects of user identity, device and location, allowing administrators to access access and security up to individual ports or user levels. Working as a compliance point in the access policy infrastructure, the EX3400 provides both standards based on 802.1X port access control and layer 2-4 execution policies based on user identity, location, device,

or combination. The user's identity, type of device, machine posture check and location can be used not only to provide or deny access, but also to determine the duration of access. If access is granted, the switch assigns a specific VLAN to the user based on the levels of authorization. The switch can also apply AIA policies or mirror user traffic at a central location to register, monitor, or detect threats using the Intrusion Prevention System (IPS). The EX3400 also provides a full suite of port security features, including the Host Dynamic Configuration Protocol (DHCP), dynamic ARP (DAI) and media access control (MAC), limiting protection against internal and external substitutions, man in the middle attacks, and denial of service (DoS). MacSec EX3400 switches support IEEE 802.1ae MACsec, providing data privacy support at the link level, data integrity, and data origin authentication. MacSec allows the EX3400 to support 88 Gbps of almost linen hardware encryption at all GbE and 10GbE ports. Defined by IEEE 802.1AE, MACsec provides secure, encrypted communication at the reference level that is able to detect and prevent threats from DoS and intrusion attacks, as well as the person in the middle, masquerade, passive wiretapping, and replay attacks launched from behind the firewall. When MACsec is deployed on switch ports, all traffic is encrypted on the wire, but the traffic inside the switch is not. This allows the switch to apply all network policies such as AIA, deep package checks, and sFlow to each package without compromising the security of the packages on the wire. Hop-by-hop encryption allows MACsec to ensure communication security while maintaining network intelligence. In addition, Ethernet-based WAN networks can use MACsec to ensure the security of links to long-haul connections. MACsec is transparent to Level 3 and higher level protocols and is not limited to IP traffic- it works with any type of wired or wireless traffic carried by Ethernet links. Junos Operating System EX3400 Switches run the same Junos OS that is used by other Juniper Networks EX series Ethernet switches, FX series switches, Juniper routers, Juniper SRX firewalls, and Juniper NFX series network services platform. Using a common operating system, Juniper provides consistent implementation and aircraft control functions in all products. To maintain this consistency, Junos OS adheres to a highly disciplined development process that uses single source code and uses a highly available modular architecture that prevents insulation from bringing the whole system down. These attributes are fundamental to the core value of the software, allowing you to update all Junos OS products at the same time as the same software release. All features are fully regression-tested, making each new release a real supernet of the previous version. Customers can deploy the software with the full confidence that all existing features are supported and work the same way. The convergence environments of the EX3400 COMMUTATORS provide a flexible solution for demanding converged data, voice and video environment. Ex3400- 24P and EX3400-48P support PoE, providing up to 30 W power per port to support network devices such as phones, video cameras, IEEE 802.11ac wireless LAN (WLAN) hotspots, and videophones. The PoE standard provides almost twice the 15.4 W per port available under the IEEE 802.3af PoE standard. THE High availability of The Ex3400 Ethernet switches is designed to support many of the same glitch and high availability (HA) functionality capabilities as other Juniper EX access switches with virtual chassis technology. Each EX3400 switch is capable of functioning as a routing engine (RE) when deployed in a virtual chassis configuration. When two or more EX3400 switches are interconnected in a virtual chassis configuration, all member switches have one control aircraft. Junos OS automatically initiates the selection process for the appointment of a primary (active) and backup (hot waiting) routing engine. The Integrated Mode 2 and Layer 3 (GRES) engine switching feature supports uninterrupted access to applications, services, and IP communications in the unlikely event of a route engine failure. When more than two switches are interconnected in the virtual chassis configuration, the remaining switch elements act as linear maps and are available to obtain a Routing Engine backup position in the event of a failure by the designated wizard. Master priority status, backup, and line cards can be assigned by a network operations team to dictate the order of ascent. This redundancy of the N-1 routing engine, combined with GRES, non-stop routing (NSR) and, in the future, Junos OS's nonstop bridge capabilities provide a smooth transmission of control plane functions after unexpected failures. The EX3400 also supports the following HA: Excess Barrel Group – To avoid the complexities of The Spanning Tree Protocol (STP) without sacrificing network stability, the EX3400 uses redundant barrel groups to ensure port redundancy and simplify the switch configuration. Cross-aggregation of links - Cross-aggregating links allows redundant aggregation connections between devices in a single configuration of the virtual chassis, providing an additional level of reliability and accessibility. Non-stop overcoming (NSB) and non-stop non-stop routing (NSR)-NSB and NSR on the EX3400 switch ensures that the protocol of the control plane, states and tables between the master and the backup REs is synchronized to prevent protocol flaps or convergence problems after the routing engine failure. Non-stop software update (NSSU)-With NSSU, all members of the EX3400 virtual chassis configuration can be updated with one team. Critical traffic can be configured as a set of links between multiple members of the Virtual Chassis switch, providing minimal disruptions during the upgrade process. The improved ex3400 lifetime limited warranty includes an extended limited-life warranty that ensures that the switch is replaced by a plant as long as the original buyer owns the product. The warranty includes lifetime software updates, advanced delivery of spare parts in one business day, and support from the Juniper Networks 24x7 Technical Assistance Center (JTAC) within 90 days of the purchase date. Power supplies and fan trays are covered for five years. Juniper also offers a comprehensive set of network management tools that provide an intelligent, simple and open approach to automating the deployment and operation of Juniper's infrastructure. These tools are based on a single network application platform called Juniper Networks Junos Space, an open, programmable platform of applications to host network infrastructure and operational applications throughout the network management lifecycle. Specifically designed to enable partners and customers to create and deploy smart, simple and easy-to-use applications, Junos Space provides multiple management and infrastructure applications to manage Juniper's resources and assets, including inventory management, device and interface configuration, automated software management and deployment, and event-driven bug management. These platform applications are built into the core product, allowing users to control any part of their environment when used in conjunction with multiple add-on applications. Junos Space supports a full portfolio of applications to automate network infrastructure and operations covering the LAN campus and data center environments. These Junos Space applications, designed to automate configuration, visualization, monitoring, and administration of large networks of switches and routers, offer pre-conceived automation schemes and best practices for quick and accurate deployment. When managed by the EX2300 switch group, The Junos Space platform and related applications provide network-level control across all Juniper Networks with one console. The network director can control the EX3400 with both standalone switches and satellite devices in Junos Fusion Enterprise fabrics. Model: EX3400-48T/P Dimensions (W x H x D) 17.4 x 1.72 x 13.8 in (44.2 x 4.4 x 35 cm) Weight of ex3400 EX3400 (no power or fan module): 10.49 lbs (4.76 kg) maximum SWITCH EX3400 (with one power source and two fans): 12.65 pounds (5.74 kg) maximum 150 W air conditioning : 1.43 lbs (0.65 kg) 600 W air conditioning: 1.82 lbs (0.83 kg) 920 W air conditioning: 1.87 lbs (0.85 kg) 150 W DC Power: 1.43 lbs (0.65 kg) Fan module: 0.16 lbs (0.07 kg) Rack Mounted 1 Rack Block Backplane 160 Gbps (with SFP ports) or th 80 Gbps (with SFP ports) Virtual chassis bound to connect up to 10 switches as a single logical device Uplink Fixed 4-port uplinks can be customized as GbE (SFP) or 10GbE (SFP) ports; 2 x 40G Ports Switch Engine Model Store and Forward DRAM 2GB with ECC Flash 2GB dual Core 1GHz GB port density on system 54 (48 host ports and shorts Auto medium-dependent interface/medium-dependent interface/medium-dependent interface dependent crossover interface (MDI/MDIX) supports port speed downshift/setting Maximum advertised speed at 10/100/1000BASE-T Ports Digital Optical Monitoring for Optical Ports Package-Switching Opportunities (Maximum with 64-Byte Packages) 336 Gbps ex3400-48T/EX3400-48T-AFI: 150W EX3400-48P: 920W Operating temperature 32 to 113 degrees Fahrenheit (0o to 45o C) Storage temperature from -40o to 158o F (-40o to 70o C) Relative humidity (operational) from 10% to 85% (non-referenced) Relative Humidity (unfeasible) from 0% to 95% (non-condensing) Height (upliotation) Up to 10,000 feet (3048 m) Height (unfeasible) Up to 16,000 feet (4,877 m) Noise Measurement Specifications based on operational tests taken from the position of a random passerby (front) and performed at 23 C according to ISO 7779. Acoustic Noise in DBA EX3400-48T: 35 EX3400-48T-AFI: 39 EX3400-48P: 46 UL-UL60950-4 8P 1 (Second Edition) C-UL to CAN/CSA 22.2 No.60950-1 (Second Edition) TUV/GS to EN 60950-1 (Second Edition), A1-A4 Amendment, A11 CB-IEC60950-1 (Second Edition with All Country Deviations) EN 60825-1 (Second Edition) Electromagnetic Compatibility Certificates FCC 47CFR Part 15 Class A EN 55022 Class A ICES-003 Class A Class A AS/N'S CISPR 22 Class A CISPR 22 Class A EN 5 5024 EN 300386 CE Telecom quality management TL9000 Reduction Of Environmental Hazardous Substances (ROHS) 6 Telco CLEI Code Guarantee Extended Limited Life Switch Hardware Guarantee Layer 2/Layer 3 Bandwidth (Mpps) (Maximum with 64 Packages Byte) Layer 2 Features Maximum MAC Addresses in Equipment: 32000 Jumbo Footage : 9216 Bytes Number supported by VLANs: 4096 Range of Possible VLAN IDs: 1-4094 Port-based VLAN MAC-based VLAN Voice VLAN Compatible with Per-VLAN Spanning Tree Plus (PVST) RVI (VLAN Route Interface) Persistent MAC (Sticky MAC) - RSTP and VSTP одновременно IEEE 802.1AB: Протокол обнаружения слоя связи (LLDP) LLDP-MED с интеграцией VoIP IEEE 802.1ae Media Access Access Safety (MACsec) IEEE 802.1ak Multiple VLAN Registration Protocol (MVRP) IEEE 802.1br: Bridge Port Expansion IEEE 802.1D: Spanning Tree Protocol IEEE 802.1p: CoS Priorities IEEE 802.1 -in-I: VLAN Laying IEEE 802.1P: VLAN Tagging IEEE 802.1s: Multiple Spanning Tree Protocol (MSTP) Number of MST instances supported: 64 Number of VSTP supported instances: 510 IEEE 802.1w: Rapid Tree Extension Protocol (RSTP) IEEE 802.1X: Port Access Management IEEE 802.3: 10BASE-10BASE T IEEE 802.3ab: 1000BASE-T IEEE 802.3ad: Communication Aggregation Control Protocol (LACP) IEEE 802.1ad Tunneling IEEE 802.3ae: 10-Gigabit Ethernet IEEE 802.3af: PoE IEEE 802.3At: PoE IEEE 802.3u: 100BASE-T IEEE 802.3z: 1000BASE-X Layer 3 VLAN-tagged sub-PVLAN support Multicast VLAN routing Adding/removing a single filter tag based on SVLAN tagging Flexible CoS (external .1P markings) Layer 3 Features : IPv4 Maximum number of ARP entries: 16,000 Maximum number of single-track IPv4 routes in equipment: 14,000 prefixes; 36,000 IPv4 multi-track routes in equipment: 18,000 groups; Routing protocols 4000 multi-station routes: RIP v1/v2, OSPF v2 Static Routing Layer 3 Redundancy: VRRP IP directed broadcast traffic paraphrase Virtual router (VRF-Lite) support RIP, OSPF Routing Filter Policy Based on Distillation (FIB) Unicast Reverse Path Landerling Layer 3 Features: IPv6 Maximum Number of Neighbor Discovery Records: 8000 Maximum IPv6 unicast routes in hardware: 3500 prefixes 18,000 routes placing Maximum multicast IPv6 routes in equipment: 9000 2000 Multicast Neighbor Detection Routes, System Journal, Telnet, SSH, Junos Web, SNMP, Network Time Protocol (NTP), Domain Name System (DNS) Routing Protocols: RIPng, OSPF v3 Static routing IPv6 ACL (PACL, VACL, RACL) IPv6 CoS (BA, MF classification and rewrite, planning based on TC) MLDev1/v2 surveillance IPv6 ping, tracing IPv6 stateless autocon configuration IPv6 Layer 3 re-employment in hardware IPv 6 Layer 3 Redundancy: VRRP v6 Virtual Router Support IPv6 Single-Station PIM for IPv6 Multicast Access Control Lists (ACLs) (Junos OS Firewall Filters) Port-based ACL (PACL)-entry and output VLAN-based ACL (VACL)-entry and output-based ACL router (RACL)System: 1500 ACL Counter for denied ACL counter packages for authorized packages The ability to add/delete/change ACL entries in the middle of the list (ACL editing) L2-L4 ACL Trusted Network Connect (TNC) certified Static MAC authentication MAC-RADIUS Office of Denial of Service (DoS) Firewall Protection Filter on the interface Media Access Control Security (MACsec) Access Security MAC limiting authorized MAC addresses customizable to port Dynamic Inspection ARP (DAI) Proxy ARP Support DHCP Surveillance 802.1X Port based on 802.1X 802.1X просители 802.1X с назначением VLAN 802.1X с доступом к шунтированию аутентификации (на основе адреса хоста MAC) 802.1X с поддержкой VoIP VLAN 802.1X динамический список управления доступом (ACL) на основе атрибутов RADIUS 802.1X агрегации: 802.3ad (LACP) поддержка Количество групп агрегации ссылок (LAGs) поддерживается: 12 8 Максимальное количество портов на LAG: 16 Tagged порты поддержки в LAG Graceful Route Engine переключения (GRES) для IGMP v1/v2/v3 слежка Nonstop маршрутизации (OSPF v1/v2/v3, RIP/RIPng, PIM) Non-stop обновление программного обеспечения (NSSU) Качество обслуживания (QoS) Слой 2 Зос Слой 3 Зос Вход полиции : двухступенчатые трехцветные аппаратные очереди на порт: 12 (8 unicast, 4 multicast) Методы планирования (egress): Строгий приоритет (SP), SDWRR 802.1p, точка кода DiffServ (DSCP/IP) приоритет доверия и маркировки критериев классификации L2-L4, включая интерфейс, адрес MAC, EtherType, 802.1p, VLAN, IP-адрес, DSCP / IP приоритет, и TCP / UDP номера порта перегрузки избежать возможностей: Хвост падение Multicast IGMP слежка записей: 1000 IGMP слежка IGMP v1/v2/v3 PIM SM, PIM SSM, PIM DM VRF-Lite поддержка PIM и IBMP MLD v1/v2 слежка IGMP фильтр Multicast Source Discovery Protocol (MSDP) PIM для IPv6 многоастных услуг и управляемости Junos OS CLI веб-интерфейс: Junos веб-поддержки - Вне диапазона управления: Серийный, 10/100BASE-T Ethernet - ASCII конфигурация - Конфигурация спасения - Конфигурация отката - Откат изображений - Инструменты управления элементами: Junos Space Network Management Platform - мониторинг производительности в режиме реального времени (RPM) : v1, v2c, v3 • Remote monitoring (RMON) (RFC 2819) Groups 1, 2, 3, 9 • Network Time Protocol (NTP) • DHCP server • DHCP client and DHCP proxy • DHCP relay and helper • VR-aware DHCP • RADIUS authentication • TACACS+ authentication • SSHv2 • Secure copy • HTTP/HTTPS • DNS resolver • System logging • Temperature sensor • Configuration backup via FTP/secure copy • sFlow • Interface range • Port profile associations • Uplink failure detection • Zero Touch Provisioning using DHCP Supported RFCs RFC 768 UDP RFC 783 Trivial File Transfer Protocol (TFTP) RFC 791 IP RFC 792 Internet Control Message Protocol (ICMP) RFC 793 TCP RFC 826 ARP RFC 854 Telnet client and server RFC 894 IP over Ethernet RFC 903 Reverse ARP (RARP) RFC 906 Bootstrap Loading using TFTP RFC 951, 1542 Bootp RFC 1027 Proxy ARP RFC 1058 RIP v1 RFC 1122 Requirements for Internet Hosts RFC 1256 IPv4 ICMP Router Discovery (IRD) RFC 1492 TACACS+ RFC 1519 Classless Interdomain Routing (CIDR) RFC 1591 Domain Name System (DNS) 1812 Requirements for IP Версия 4 маршрутизаторы RFC 2030 2030 Протокол сетевого времени (SNTP) RFC 2068 HTTP/1.1 RFC 2131 BOOTP/DHCP ретранслятор и DHCP сервер RFC 2138 RADIUS Аутентификация RFC 2139 RADIUS Бухгалтерский учет RFC 2267 Network Ingress Фильтрация RFC 2328 OSPF v2 RFC 2453 RIP v2 RFC 2474 DiffServ, в том числе 8 очередей / порт RFC 2597 DiffServ Гарантированный перепроверки (AF) RFC 2598 DiffServ Ускоренное перепроверка (EF) RFC 2710 Многоастный Слушатель Discovery Версия (MLD) для IPv6 RFC 2925 Определения управляемых объектов для удаленного Пинга, Traceroute, и Lookup Операции RFC 3569 PIM SSM RFC 3579 RADIUS Смягчающий протокол аутентификации (EAP) поддержка 802.1X RFC 3618 Multicast Source Discovery Protocol (MSDP) RFC 3768 VRRP RFC 3973 PIM DM RFC 4601 PIM SM RFC 5176 Динамические расширения авторизации на RADIUS Поддерживаемые MIBы RFC 1155 Структура управленческой информации (SMI) RFC 1157 SNMPv1 RFC 1212, RFC 1213, RFC 1215 MIB-II, Ethernet-like MIB, and TRAPs RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 1724 RIPv2 MIB RFC 1905 RFC 1907 SNMP v2c, SMIv2 and Revised MIB-II RFC 1981 Path MTU Discovery for IPv6 RFC 2011 SNMPv2 Management Information Base for the IP using SMIv2 RFC 2012 SNMPv2 Management Information Base for the Transmission Control Protocol using SMIv2 RFC 2013 SNMPv2 Management Information Base for the User Datagram Protocol using SMIv2 RFC 2096 IPv4 Forwarding Table MIB RFC 2287 System Application Packages MIB RFC 2328 OSPF v2 RFC 2460 IPv6 Specification RFC 2464 Transmission of IPv6 Packets over Ethernet Networks RFC 2570-2575 SNMPv3, User-based Security, Encryption, and Authentication RFC 2576 Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework RFC 2578 SNMP Structure of Management Information MIB RFC 2579 SNMP Textual Conventions for MIBv2 RFC 2665 Definitions of Managed Objects for the Ethernetlike Interface Types RFC 2819 RMON MIB RFC 2863 Интерфейс группы MIB RFC 2863 Интерфейсы группы MIB RFC 2922 LLDP MIB RFC 2925 Определения управляемых объектов для удаленного пинга, Traceroute, и Lookup Операции RFC 3413 SNMP Приложение MIB RFC 3414 Пользовательская модель безопасности для SNMPv3 RFC 3415 Просмотр на основе модели управления доступом (VACM) для SNMP RFC 3484 Выбор адресов по умолчанию для IPv6 RFC 3621 PoE-MIB (PoE переключается только) RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) для IPv6 RFC 4188 STP и расширений MIB RFC 4213 Основные переходные механизмы для IPv6 Хосты и маршрутизаторы RFC 4291 IPv6 Адресирование архитектуры RFC 4363 Определения управляемых объектов для мостов с классами трафика, Многоастная фильтрация, и VLAN расширения RFC 4443 ICMPv6 для IPv6 Спецификация RFC 4861, Сосед Discovery для IPv6 RFC 4862 IPv6 без гражданства Адрес Автоконфигурации RFC 5643 OSPF v3 MIB Поддержка IEEE 802.1ad Проект - бленменталь - aes - usm - 08 Проект - ридер - snmpv3 - usm - 3desede -00 Debugging: CLI via console, telnet, or SSH SSH Show and debug traffic statistics mirror (port) traffic mirror (VLAN) ACL based mirroring the purpose of ports on the system: 4 LAG port monitoring Multiple ports are controlled up to 1 mirror (N:1) Maximum number of mirror sessions: 4 Mirror to remote destination (more L2): 1 destination VLAN Encapsulated Remote Switched Port Analyzer (ERSPAN) IP Tools: Advanced Ping and Tracing Juniper Networks commit and rollbacks Every switch comes with RJ-45-to-DB-9 serial port adapter 19' rack fastening kit and connector retainer. Each system also comes with a power cord for the country for which it is supplied. The upper front view of the front view rear view of the left corner View right corner View Download Juniper Networks EX3400 Data Sheet Series (PDF), (PDF), juniper ex3400 switch datasheet

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