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Alcatel lucent switch configuration guide

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WebSmart switches WebSmart family of switches provide a simple, secure and intelligent business network at affordable prices. 1 2 Table Of Contents 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 323 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 OmniSwitch® 6800 Series Getting Started Guide 060195-10 Only personnel familiar with basic electrical and mechanical procedures must install or maintain this equipment. Lithium batteries with caution. There is a risk of explosion if the lithium battery in the chassis is incorrectly replaced. Replace the battery only with the same or equivalent type of battery recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. The manufacturer's instructions are as follows: Return the lithium battery module to Alcatel-Lucent. The lithium battery will be replaced at the Alcatel-Lucent factory. The functions and specifications described in this manual are subject to change without notice. Copyright 2007 © Alcatel-Lucent. All rights reserved. This document cannot be reproduced in whole or in part without Alcatel-Lucent's express written permission. Alcatel-Lucent® and the Alcatel-Lucent logo are registered trademarks of Alcatel-Lucent. Xylan®, OmniSwitch® OmniStack® and Alcatel-Lucent OmniVista® are registered trademarks of Alcatel-Lucent. OmniAccess™, switch/router™, ™ ™ SwitchManager™, VoiceView™, WebView™, X-Cell™, X-Vision™ and the Xylan logo are trademarks of Alcatel-Lucent. Този продукт OmniSwitch съдържа компоненти, които могат да бъдат обхванати от един или повече от следните патенти на САЩ: • Американски патент No 6,339,830 • U.S. Patent No 6,070,243 • Сащ Патент No 6,061,368 • U.S. Patent No. 6.070.243 • Американски патент No 6,061,368 • U.S. Patent No. 6,070,243 • Американски патент No 6,061,368 • U.S. Patent No. 6,070,243 • Американски патент No 6,061,368 • Американски патент No 6,070,243 • Американски патент No. 6,061,368 • U.S. Patent No. 6,070,243 • Американски патент No. 6,061,368 • Американски патент No. 6,070,243 • Американски патент No. 6,061,3 5,394,402 • Американски патент No 6,047,024 • Патент по 6,314,106 Alcatel-Lucent • Американски патент No 6, 542,507 26801 West Agoura Road Calabasas, CA 91301 (818) 880-3500 FAX (818) 880-3505 Сащ поддръжка на клиенти : (800) 995-2696 Международна поддръжка на клиенти: (818) 878-4507 Интернет: service.esd.alcatel-lucent.com OmniSwitch 6800 series. 200 1 Documentation on the topic . 2 Install the hardware . 3 Necessary things . 3 Preparing the site . 3 Environmental requirements . 3 Electrical requirements . 3 Reasons for weighing. 3. 4 Unpacking and initial adjustment is also included. 4 Unpacking the chassis . 4 Recommendations . 4 Instructions EN/ 4 Switching setup. 5 Airflow considerations . 5 Installation options . . 6 Install the switch on desktop or liquid 6 Mounting steps on the table. 6 Installation of the shelf . 7 Mounting steps on the shelf . 7 Install SFPs on a combo port . 9 Install backup power components . 9 Connection and wiring . 10 Connecting a serial cable . 10 Defaults for serial 10 Loading OmniSwitch 6800 serial switches . 11 Load a standalone switch BG-11 Your first login session. 12 Enter the BG-1000 switch 12 Set the IP address of the switch. 13 Unlock session types en. 14 Change login password . . 15 System time zone setting . . 15 Set date and time en. 16 Setting optional system information . 16 Indication of administrative contact . 16 Specify a system name . . . . . 17 Specify the location of the switch . 17 View and save changes . 17 files and directories. 18 Loading and image files . 18 boot.params file . 18 loading.cfg file . . 18 boot.slot.cfg file . 19 Graphic files BG 19 Professional and certified directories . . 20 Business Directory . 20 Certified Directory . 21 Using WebView . 24 Browser compatibility . 24 Logging on to the Internet 24 Internet navigation . . 25 Online help BG . 27 Additional information . 27 Troubleshooting . 28 OmniSwitch 6800 OmniSwitch Series 6800-24 OmniSwitch 6800-48 OmniSwitch 6800-U24 OmniSwitch 6800 Series is a modern configuration family of Ethernet keys. These keys provide layer 2 wire speed forwarding and layer 3 routing with advanced services. They are fixed configuration, triple speeds (10/100/1000) switches that provide increased network performance, improved application response times, provide lan and improve user performance by increasing mobility, network capacity and services in existing 5/5E/6 wiring categories. Refer to the CD user manual for additional hardware and OmniSwitch documentation software. OmniSwitch 6800-24L OmniSwitch 6800-48L June 2007 OmniSwitch 6800 Series 1 The following are the titles and descriptions of all OmniSwitch 6800 Series user documentation, Included in the USER GUIDE CD: • OmniSwitch 6800 Series Getting Started Guide Describes hardware and software procedures for receiving OmniSwitch 6800 Series switches Also provides information on the main aspects of OmniSwitch hardware components and software architecture. • OmniSwitch 6800 Series Hardware Users Guide Full technical specification and procedures for all OmniSwitch 6800 hardware series including chassis, power supplies, fans, combo ports, suffering procedures, optional backup power supplies, etc. • OmniSwitch CLI reference guide complete reference to all CLI commands supported by the OmniSwitch 6800 series. Includes syntax definitions, default values, examples, usage guidelines, and mapping of CLI-to-MIB variables. •OmniSwitch 6800/6850/9000 Switch Management Guide includes procedures for preparing a switch for network integration. Topics software directory architecture, image return protection, authenticated switching access, switching file management, system configuration, SNMP usage, and web management software (WebView). •OmniSwitch 6800/6850/9000 network configuration guide includes network configuration procedures and descriptive information about all major software features and protocols included in the basic software package. Chapters cover layer 2 information (Ethernet and VLAN configuration), layer 3 information (static routes), security options (authenticated VLAN), Service Quality (QoS) and connection aggregation. •OmniSwitch 6800/6850/9000 Advanced Routing Configuration Guide includes network configuration procedures and descriptive information about all software features and protocols included in the extended routing package. The chapters cover multicast routing (DVMRP and PIM-SM) and OSPF. •The Omnit Transceiver Guide includes information on small form factor factors (SFPs) and 10 Gbps small form factor Pluggables (XFPs) transceivers. 2 OmniSwitch 6800 Series June 2007 Installing hardware In addition to the materials and components provided in the OmniSwitch 6800 series shipment, you must provide the following elements to complete this installation: • Grounding strap •Grounding screwdriver • Screwdriver • Serial cable • Shelf fastening screws, if applicable, the omniSwitch 6800 series environment requirements have the following environmental and airflow requirements: •The installation site must maintain a temperature between 0° and 45° Celsius (32° and 122° Fahrenheit) and shall not exceed 95 % maximum humidity (condensed path) at any time. •Make sure you provide adequate ventilation and access to the front, back and side of the switch. No chlamyding is required at the top or bottom of the chassis. See page 5 for minimum clearance requirements. The OmniSwitch 6800 key series has the following general electrical requirements: • Each switch requires one grounded AC source. •The grounded AC source must be 110V for North American installations (220V international). •Each AC power cord is about 2 meters long. Do not use extension cables. Weight Recitals One OS6800 weighs approximately 14 lbs. (6.30 kg). One stack of eight OS6800 operating systems weighs approximately 50.4 kg. In June 2007, installing hardware 3 Your order on the 6800 series switch included the following elements: •OmniSwitch chassis •Mounting shelves flanges with fastening screws (mounting shelves flanges may be pre-installed on some orders) •Power cord (country-specific) •CD Documentation containing a complete set of user manuals for the switch and switching software. See Related documentation on page 2 for a complete list of included documents. depending on the items ordered for your specific network requirements, the following optional elements may be included: •Melting cables (custom) • SFPs (on (on) • 10 gigabit XFP connectors (custom) • Backup components and power cables (custom) To protect your omniSwitch chassis and hardware components from electrostatic dilution (ESD) and physical damage, read carefully all recommendations and instructions for unpacking before starting. •Unpack the OmniSwitch chassis as close as possible to where it will be installed. •Depending on your order, small form-factor Pluggables (SFPs), suffrage cables and backup power components can be packaged separately. To significantly reduce electrostatic discharge exposure (ESD) and physical damage, do not unpack these items until they are ready to install. Instructions 1Carefully cut the tape along the seam at the top of the box containing the chassis. 2 Lift the top covers of the box. Remove any smaller boxes or bags that are closed and set aside. 3 Lift the chassis from the package. 4Carefully remove all foam pads and protective plastic from the switch chassis. 4 Install note hardware June 2007. Alcatel-Lucent provides factory-mounted empty roofing plates for empty spare power systems or 10 gigabit expansion modules. Do not remove these roofing plates unless a backup power supply or expansion module is installed immediately in the appropriate bay. 5If you install multiple switches in an overlay configuration, repeat steps 1 through 4 for the remaining switches that will make up the stack. 6After all omniSwitch 6800 series of keys have been removed from their packaging, continue to set the key. Note. Due to airflow and access requirements, OmniSwitch 6800 series switches cannot be mounted on a wall. Airflow Considerations Be sure that your key is placed in a well-ventilated, static airless. Always allow adequate clearance at the front, back and side of the switch. The following diagram shows the recommended minimum illuminations for adequate chassis air flow and access to the components at the rear of the chassis: Rear. Minimum 5 inches at the back of the chassis. Countries. Minimum 2 inches on the left and right sides for the air flow of the chassis. Front. Minimum 15 cm in front of the chassis for cable access and LED visibility. Chassis Top View June 2007 Installing hardware 5 Never prevent ventilation holes located on the left and right sides of the chassis. Note. No clearance is required at the top and bottom of the chassis. For detailed chassis airflow diagrams, refer to the OmniSwitch 6800 series hardware usage guide. Installation options There are two ways omniSwitch 6800 series switches can be installed: •Installing a countertop •Installation of a stand For information on setting a switch as a desktop block, see Install the switch on a desktop or bench. For about installing the shelf switch, see Rack-Mount key on page 7. Installing the switch on a desktop or bench OmniSwitch 6800 series of keys can be mounted freely standing as a table table Place your switch on a stable, flat, static unprecedented surface. Note. OmniSwitch 6800 series switches must be placed on the right side upwards. Never try to work with a switch set aside. Steps for mounting the desktop to install the switch as a desktop block, follow the steps below: 1 Place the chassis on the table or on the bench where it will be installed. 2 Ensure that adequate air flow clearance of the chassis and access to the front, rear and side hoses is provided. For recommended magnifying glass, see page 5. Also, make sure that you have placed the chassis within range of all the necessary AC sources. If you place multiple switches in an overlay configuration, carefully arrange the remaining switches on top of each other. Up to eight switches can be overlaid to form a single virtual chassis. Make sure that you maintain adequate clearance on the front, back, left and right edge of all switches (see page 5). Also, make sure that you put all the keys in the stack, within the range of the necessary sources of AC. Note. If you are installing a single (i.e. standalone) key, continue to Links and Wiring on page 10 for additional setup procedures. 6 Hardware Installation June 2007 2007

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