Cisco jabber guest user guide













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February 02, 2022 | 1684838 view(s) | 27319 people thought this was helpfulDownload the Webex Meetings desktop app to easily start and join your meetings from the app. The Meetings desktop app to easily start and join your meetings from the app. The Meetings desktop app to easily start and join your meetings desktop app to easily start and join your meetings from the app. desktop app to join meetings, whether or not you have a Webex account. If you sign in with a host account, you can start meetings instantly, scheduled meetings, add integrations to join meetings, add integrations to join meetings from other apps, and detect nearby video devices. If you sign in with an attendee account, you can see and join your upcoming meetings and detect nearby video devices. If you don't have an account or haven't signed in, you can still use the Meetings desktop app's automatic update option is enabled by default for your Webex site. When the Meetings desktop app is running, it checks every 6-8 hours to see if there is a new version available. When a newer version becomes available, the app automatically downloads it and you see a blue Update option in the top right corner of the app. You can also manually check for updates. If you have a company administrator, they may decide to mass deploy the Meetings desktop app updates to end users. They can refer to the mass deployment guide. Site administrators can access both the Mac and Windows Meetings desktop app downloads from the Downloads page. Find the name of the service you want to request access, and find training materials and user guidance. January 19, 2022 | 2234456 view(s) | 71670 people thought this was helpfulGet started with the Webex Meetings web app The Meetings, webinars, events, and training sessions, using only your web browser. There's nothing to download or install. The web app puts basic functionality at your fingertips, making it easy to view and interact with others. The Meetings web app supports the following browsers: Chrome Chromium Edge Firefox Internet Explorer Safari Go here for more detailed information to a meeting, webinar, event or training session, it looks something like this. If you're using Linux or ChromeOS, the web app opens directly after you click Join meeting. When joining from Windows or Mac, a new browser window opens, prompting you to launch the desktop app. But if you're having trouble, you can join from your browser. Alternatively, you can sign in to your Webex site and join your meeting from there: Go to the Calendar tab on the left navigation panel. There, you can see a list of your meetings. Find the one you want to join. Sign in to your Webex site, enter the host or meeting name, Personal Room ID, or meeting invitation if you're prompted for a password. You can join the meeting as a guest or, if you don't mind waiting in the lobby until the host admits you. if you don't need access to the full list of meeting features. Sign in: if you have more meetings later. The next time you join a meeting, you'll join automatically as a fully authenticated user. if you don't want to wait in the lobby. You join the meeting right away. if you need access to the full list of meeting, webinar, event, or training session. That way, you can make sure that everything sounds and looks good. Make sure to grant your browser permission to access your camera and microphone when prompted so you can be seen and heard in the meeting. The Meetings web app is easy to navigate, with shared content or video in the center and meeting controls underneath. You can chat with people, share your screen, and see who else is in the meeting, among other things. If you need more functionality, you can switch seamlessly to the desktop app. Cisco Catalyst 3850 Series Switches are the next generation of enterprise class stackable access layer switches, with the new and improved 480-Gbps StackWise-480 and Cisco StackPower. Security and application visibility and control are natively built into the switches also support full IEEE 802.3 at Power over Ethernet Plus (PoE+), modular and field replaceable network modules, redundant fans, and power supplies. Cisco Catalyst 3850 Series Switches enhance productivity by enabling applications such as IP telephony and video for a true borderless network experience. Cisco IOS XE Denali 16.x.x, and now Cisco IOS XE Denali 16.x.x, represent the continuing evolution of the preeminent Cisco IOS XE Denali 16.x.x. architecture and well-defined set of APIs extend the Cisco IOS software to improve portability across platforms and extensibility outside the Cisco IOS software, while providing enhanced future-proofing and improved functionality. Starting with Cisco IOS XE Denali 16.1.x, a DHCP client that includes option 61 (used by DHCP clients to specify their unique client identifier) in their DHCP discover/offer packet must accept the response message with option 61, is not in compliance with RFC 6842 and requires a firmware upgrade. Converged Access (CA) is not supported beyond Cisco IOS XE Denali 16.3.x. On the Cisco Catalyst 3850 Series Switches, CA is supported in the Cisco IOS XE Denali 16.3.x. Secure Shell (SSH) Version 1 is deprecated. Use SSH Version 2 instead. Cisco Plug-In for OpenFlow (OpenFlow 1.0 and 1.3) is available in Cisco IOS XE Release 3.7.3E, but is not supported in Cisco IOS XE Everest 16.6.x: - 802.1x Configurable username and password for MAB - AAA: TACACS over IPv6 Transport - Auto QoS for Video endpoints - Cisco Group Management Protocol (CGMP) - Cisco TrustSec 802.1x - Cisco TrustSec for IPv6 - CNS Config Agent - Command Switch Redundancy - Device classifier for ASP - DHCP snooping ASCII circuit ID - DHCPv6 Relay Source Configuration - DVMRP Tunneling - Dynamic Access Ports - EX SFP Support (GLC-EX-SMD) - Fallback bridging for non-IP traffic - Fast SSID support for guest access WLANs - IEEE 802.1X-2010 with 802.1AE support - Improvements in QoS policing rates - Ingress Strict Priority Queuing (Expedite) - Stack ports buffer is not shared as part of the shared pool. The dedicated buffer for stack ports can only be used by stack ports. - IP-in-IP (IPIP) Tunneling - IPsec - IPSLA Media Operation - IPv6 IKEv2 / IPSecv3 - IPv6 Ready Logo phase II - Host - IPv6 Static Route support on LAN Base images - IPv6 Static Route support - Layer 2 Tunneling Protocol Enhancements - Link-State Tracking - Mesh, FlexConnect, and OfficeExtend access point deployment -Medianet - MSE 8.x is not supported with Cisco IOS XE Denali 16.x.x. - Passive Monitoring - Per VLAN Policy & Per Port Policer - Performance Monitor (Phase 1) - Port Security on EtherChannel - Pragmatic General Multicast (PGM) - RFC 4292 IP-FORWARD-MIB (IPv6 only) - RFC 4292 IP-FORWARD-MIB (IPv6 only) - RFC 4292/RFC4293 MIBs for IPv6 traffic -RFC5460 DHCPv6 Bulk Leasequery - Trust Boundary Configuration - UniDirectional Link Routing (UDLR) - VACL Logging of access denied - VRF-Aware Web-Based Authentication without SVI - Weighted Random Early Detect (WRED) The package files for the Cisco IOS XE software are stored on the system board flash device (flash:). You can use the show version privileged EXEC command to see the software version that is running on your switch. Note Although the show version output always shows the software image running on the switch, the model name shown at the end of this display is the factory configuration and does not change if you upgrade the software license. You can also use the dir filesystem : privileged EXEC command to see the directory names of other software Images Cisco IOS XE Everest 16.6.10 Universal cat3k caa-universalk9.16.06.10.SPA.bin Universal without DTLS cat3k caauniversalk9ldpe.16.06.10.SPA.bin Cisco IOS XE Everest 16.6.9 Universal cat3k caa-universalk9.16.06.09.SPA.bin Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Everest 16.6.8 Universal without DTLS cat3k caa-universalk9ldpe.16.06.09.SPA.bin Cisco IOS XE Evere Everest 16.6.7 Universal cat3k caa-universalk9.16.06.07.SPA.bin Universal without DTLS cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.6 Universal cat3k caa-universalk9.16.06.07.SPA.bin Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.06.07.SPA.bin Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.6 Universal cat3k caa-universalk9.16.06.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9.16.07.SPA.bin Cisco IOS XE Everest 16.6.5 Universal cat3k caa-universalk9. universalk9.16.06.05.SPA.bin Universal without DTLS cat3k caa-universalk9ldpe.16.06.04a.SPA.bin Cisco IOS XE Everest 16.6.4 Universal without DTLS cat3k caa-universalk9.16.06.04a.SPA.bin Cisco IOS XE Everest 16.6.4 Universal without DTLS cat3k caa-universalk9.16.06.04a.SPA.bin Univ DTLS cat3k caa-universalk9ldpe.16.06.04.SPA.bin Cisco IOS XE Everest 16.6.3 Universal cat3k caa-universalk9ldpe.16.06.03.SPA.bin Universal without DTLS cat3k caa-universalk9ldpe.16.06.03.SPA.bin Universal vitrout DTLS cat3k caa-universalk9ldpe.16.06.03.SPA.bin Universalk9ldpe.16.06.03.SPA.bin Universalk9ldpe.16.06.03.SPA.bin Universalk9ldpe.16.06.03.SPA.bin Universalk9ldpe.16.06.03.SPA.bin Uni Cisco IOS XE Everest 16.6.1 Universal cat3k caa-universalk91dpe.16.06.01.SPA.bin Universal without DTLS cat3k caa-universalk91dpe.16.06.01.SPA.bin This section covers the following scenarios: Note You cannot use the Web UI to install, upgrade to, or downgrade from Cisco IOS XE Denali 16.x.x or Cisco IOS XE Everest 16.c.1.SPA.bin This section covers the following scenarios: Note You cannot use the Web UI to install, upgrade to, or downgrade from Cisco IOS XE Denali 16.x.x or Cisco IOS XE Everest 16.c.1.SPA.bin This section covers the following scenarios: Note You cannot use the Web UI to install, upgrade to, or downgrade from Cisco IOS XE Denali 16.x.x or Cisco IOS XE Everest 16.c.1.SPA.bin This section covers the following scenarios: Note You cannot use the Web UI to install, upgrade to, or downgrade from Cisco IOS XE Everest 16.c.1.SPA.bin This section covers the following scenarios: Note You cannot use the Web UI to install, upgrade to, or downgrade from Cisco IOS XE Everest 16.x.x. Table 6 Software Installation CLI Commands Switch# software ? auto-upgrade for switches running incompatible software and cancel the automatic rollback timer expand a software bundle to local storage, default location is where the bundle currently resides install Install software rollback Rollback the committed software Switch# request platform software package to media describe package to media describe package to media install Package uninstall verify Verify ISSU software package compatibility When you upgrade from any prior IOS 3.xE release to an IOS XE 16.x.x release for the first time, the boot loader is automatically upgraded, it will take effect on the next reload. If you go back to an IOS 3.xE release, your boot loader will not be downgraded. The updated boot loader supports all previous IOS 3.xE releases, if there is a new bootloader in that release, it may be automatically upgraded based on the hardware version of the switch when you boot up your switch with the new image for the first time. Caution Do not power cycle your switch during the upgrade. Table 7 Automatic Boot Loader Response If you boot Cisco IOS XE Everest 16.6.2, or Cisco IOS XE Everest 16.6.4, or Cisco IOS XE Everest 16.6.4, or Cisco IOS XE Everest 16.6.5, or Cisco IOS XE Everest 16.6.6, or Cisco IOS XE Everest 16.6.7, or Cisco IOS XE Everest 16.6.4, or Cisco IOS XE Eve XE Everest 16.6.8, or Cisco IOS XE Everest 16.6.9, or Cisco IOS XE Everest 16.6.10 for the first time The boot loader may be upgraded to version 4.68. For example: BOOTLDR: CAT3K CAA-HBOOT-M) Version 4.68, RELEASE SOFTWARE (P) If the automatic boot loader upgrade occurs, while booting, you will see the

following on the console: %IOSXEBOOT-Wed-###: (rp/0): Nov 2 20:46:19 Universal 2016 PLEASE DO NOT POWER CYCLE ### BOOT LOADER UPGRADING %IOSXEBOOT-loader-boot: (rp/0): upgrade successful If you boot Cisco IOS XE Everest 16.6.1 the first time The boot loader may be upgraded to version 4.58. For example: 3850: BOOTLDR CAT3K_CAA Boot Loader (CAT3K_CAA-HBOOT-M) Version 4.58, RELEASE SOFTWARE (P) If the automatic boot loader upgrade occurs while booting Cisco IOS XE Everest 16.5.1a, you will see the following on the console: %IOSXEBOOT-Wed-###: (rp/0): Nov 2 20:46:19 Universal 2016 PLEASE DO NOT POWER CYCLE ### BOOT LOADER UPGRADING %IOSXEBOOT-loader-boot: (rp/0): upgrade or downgrade or down Everest 16.x.x releases, it takes approximately an additional 4 minutes to complete the microcode upgrade or downgrade on PoE or UPoE switches. It does not occur during switch reloads or on non-PoE switches. The following console messages are displayed during microcode update/front end/fe type 6 0 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/front end/fe type 6 2 Image for front-end 0: /tmp/microcode update/fr /tmp/microcode update/front end/fe type 6 3 Front-end Microcode IMG MGR: Preparing to program device[0]...594412 bytes.... Skipped[0]. Front-end Microcode IMG MGR: Preparing to program device[0]...381758 bytes. Front-end Microcode IMG MGR: Preparing to program device[0]...594412 bytes....20%.30%... 0...rwRrrrrrw..0%. ...10% ...40%.. .50% .80%. ..90%.. ..100% Front-end Microcode IMG MGR: Preparing to program device[0]...25166 bytes. Front-end Microcode IMG MGR: Programming device ...70%

Follow these instructions to upgrade from Cisco IOS XE 3.xE to Cisco IOS XE Denali 16.x.x or Cisco IOS XE Everest 16.6.x in install mode: When you expand the image, if you point to the source image on your TFTP server, you can skip this section and go to Software Install Image to Flash. Step 1 Make sure your tftp server is reachable from IOS via GigabitEthernet0/0. Switch# show run | i tftp ip tftp source-interface GigabitEthernet0/0 ip tftp blocksize 8192 Switch# Switch# Switch# show run | i proute vrf ip route vrf forwarding Mgmt-vrf ip address 5.30.12.121 255.255.0.0 negotiation auto end Switch# ping vrf Mgmt-vrf ip 5.28.11.250 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 5.28.11.250, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms Step 2 Copy the image from your tftp server to flash. Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin flash: Destination filename [cat3k caa-universalk9.16.06.01.SPA.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin]? 13:52:53 -07:00 cat3k caa-universalk9.16.06.01.SPA.bin 1562509312 bytes total (731021312 bytes free) Switch# Step 4 Use the software install command with the ' new ' and ' force ' options to expand the target image to flash. You can point to the source image on your TFTP server or in flash if you have it copied to flash. Switch# software install file flash:cat3k_caa-universalk9.16.06.01.SPA.bin new force Preparing install operation... [1]: Copying software from active switch 1 to switches 2,3,4 [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 3 4]: Copying package files [1 2 3 4]: Starting install operation [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.16.05.01a.SPA.bin [1 2 Package files copied [1 2 3 4]: Finished expanded package files to flash: [1 2 3 4]: Verified and copying expanded package files to flash: [1 2 3 4]: Verified and copying expanded package files to flash: [1 2 3 4]: Verified and copying expanded package files to flash: [1 2 3 4]: Starting compatibility checks [1 2 3 4]: Verified and copying expanded package files to flash: [1 2 3 4]: Starting compatibility checks [1 2 3 4]: Starting compatibili option [1 2 3 4]: Finished compatibility checks [1 2 3 4]: Starting application pre-installation processing [1]: Old files list: Removed cat3k caa-base.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA. universalk9.SPA.152-3.E3.pkg Removed cat3k_caa-platform.SPA.03.07.03E.pkg Removed cat3k_caa-base.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k_caa-infra.SPA.03.07.03E.pkg Removed cat3k_caa-infra.SPA.03.07.03E.pkg Removed cat3k_caa-base.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k_caa-base.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k_caa-base.SPA.03.07.03E.pkg Removed cat3k_caa-drivers.SPA.03.07.03E.pkg Removed cat3k caa-platform.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.0 Removed cat3k caa-wcm.SPA.10.3.130.0.pkg [4]: Old files list: Removed cat3k caa-base.SPA.03.07.03E.pkg Removed cat3k caa-drivers.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.03E.pkg Removed cat3k caa-base.SPA.03.07.03E.pkg Removed cat3k caa-infra.SPA.03.07.03E.pkg Removed ca wcm.SPA.10.3.130.0.pkg [1]: New files list: Added cat3k_caa-rpbase.16.06.01.SPA.pkg Ad rpcore.16.06.01.SPA.pkg Added cat3k caa-rpbase.16.06.01.SPA.pkg Added cat3k caa-rpbase guestshell.16.06.01.SPA.pkg Added cat3k caa-rpcore.16.06.01.SPA.pkg Added cat3k caa-rp file [1 2 3 4]: Finished installing software. New software will load on reboot. [1 2 3 4]: Committing provisioning file [1 2 3 4]: Do you want to proceed with reload? [yes/no]: yes [1 2 3 4]: Reloading Switch# Note Old files listed in the logs should be removed using the request platform software package clean switch all command, after reload Step 5 If you said 'Yes' to the prompt in software install and your switches are configured with auto boot, the stack will automatically boot flash:packages.conf Note When you boot the new image. If not, you can manually boot flash:packages.conf switch: boot flash:packages.conf Note When you boot the new image. If not, you can manually boot flash:packages.conf switch: bo up, you can verify the version of the new image, by checking show version Switch# show version Cisco IOS XE Software (CAT3K CAA-UNIVERSALK9-M), Version 16.06.1, RELEASE SOFTWARE (fc2) Technical Support: Copyright (c) 1986-2017 by Cisco Systems, Inc. Compiled Sat 22-Jul-17 03:00 by mcpre Step 7 After you have successfully installed the image, you no longer need the.bin image and the file can be deleted from flash. Switch# delete flash:/cat3k caa-universalk9.16.06.01.SPA.bin Delete flash:/ca universalk9.16.06.01.SPA.bin? [confirm] Switch# Follow these instructions to upgrade from Cisco IOS XE 3.xE to Cisco IOS XE Denali 16.x.x, or Cisco IOS XE Denali 16.x.x via TFTP for the first time with a Cisco IOS XE 3.xE boot loader. The Cisco IOS XE Denali 16.x.x or Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2.x. via TFTP for the first time with a Cisco IOS XE 0.2. XE 3.xE boot loaders have a limitation, which prevents the booting of an image larger than 400MB via the TFTP server. Since Cisco IOS XE Denali 16.x.x and Cisco IOS XE Denali 16.x.x and Cisco IOS XE Denali 16.x.x and Cisco IOS XE Denali 16.x.x images are larger than 400MB, you must boot the image via flash. run | i tftp ip tftp source-interface GigabitEthernet0/0 ip tftp blocksize 8192 Switch# show run | i ip route vrf ip address 5.30.12.121 255.255.0.0 negotiation auto end Switch# ping vrf Mgmt-vrf ip 5.28.11.250, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms Step 2 Copy the image from your TFTP server to flash. Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin flash: Destination filename [cat3k caa-universalk9.16.06.01.SPA.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin from 5.28.11.250 (via GigabitEthernet0/0): flash. Switch# dir flash:*.bin Directory of flash:/ 32339 -rw- 373217171 May 26 2017 13:52:53 -07:00 cat3k caa-universalk9.16.06.01.SPA.bin 1562509312 bytes total (731021312 bytes total (731021312 bytes free) Switch(config)# hoot system ---- Current Boot Variables: BOOT variable = flash:cat3k caa-universalk9.16.06.01.SPA.bin; Boot Variables on next reload: BOOT variable = flash:cat3k caa-universalk9.16.06.01.SPA.bin; Allow Dev Key = yes Manual Boot = yes Enable Break = yes Switch# Step 8 Reload the switch with the new image. If not, you can manually boot flash: switch:boot flash: cat3k caa-universalk9.16.06.01.SPA.bin Note When you boot the new image, it will automatically update the boot loader. Step 10 When the new image, it will automatically update the boot loader. Step 10 When the new image boots up, you can verify the version of the new image, it will automatically update the boot loader. Step 10 When the new image boots up, you can verify the version of the new image boots up, you can verify the version of the new image. 16.06.01 Cisco IOS Software [Everest], Catalyst L3 Switch Software (CAT3K CAA-UNIVERSALK9-M), Version 16.6.1, RELEASE SOFTWARE (fc2) Technical Support: Copyright (c) 1986-2017 by Cisco Systems, Inc. Compiled Sat 22-Jul-17 03:00 by mcpre Step 11 Ensure you have enough space in flash to expand a new image by cleaning up old installation files. This command will erase your Cisco IOS XE Everest 16.x.x bin image file, so ensure that you copy it to your Active again. Use the switch all file flash: Running command on switch 1 Cleaning up unnecessary package files Scanning boot directory for packages list to delete... done. Preparing packages list to delete... done. Running command on switch 3 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete... done. Running command on switch 4 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete... done. The following files will be deleted: [1]: /flash/cat3k caa-base.SPA.03.07.02E.pkg /flash/cat3k caa-drivers.SPA.03.07.02E.pkg /flash/cat3k caa-infra.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.152-3.E2.pkg /flash/cat3k caa-drivers.SPA.03.07.02E.pkg /flash/cat3k caa-drivers /flash/cat3k_caa-infra.SPA.03.07.02E.pkg /flash/cat3k_caa-iosd-universalk9.SPA.152-3.E2.pkg /flash/cat3k_caa-universalk9.16.01.01.SPA.bin /flash/cat3k_caa-wcm.SPA.10.3.120.0.pkg /flash/cat3k_caa-base.SPA.03.07.02E.pkg /flash/cat3k_caa-base.SPA.03.07.02E.pkg /flash/cat3k_caa-universalk9.16.01.01.SPA.bin /flash/cat3k_caa-universalk9.5PA.bin /flash/cat3k_caa-universalk9.5PA.bin /flash/cat3k_caa-universalk9.5PA.bin /flash/cat3k_caa-universalk9.5PA.bin /flash/cat3k_caa-universalk9.5 /flash/cat3k caa-infra.SPA.03.07.02E.pkg /flash/cat3k caa-iosd-universalk9.SPA.152-3.E2.pkg /flash/cat3k caa-drivers.SPA.03.07.02E.pkg /flash/cat3k caa-wcm.SPA.10.3.120.0.pkg /flash/cat3k caa-wcm.SPA.10.3.120.0.pkg /flash/cat3k caa-base.SPA.03.07.02E.pkg /flash/cat3k caa-drivers.SPA.03.07.02E.pkg /flash/cat3k caa-base.SPA.03.07.02E.pkg /flash/cat3k caa-base.SPA.03 /flash/cat3k caa-infra.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.152-3.E2.pkg /flash/cat3k caa-platform.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.03.07.02E.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.10.3.120.0.pkg /flash/cat3k caa-universalk9.SPA.03.07.02E.pkg /flash/cat3k caa-univer Deleting file flash:cat3k caa-drivers.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-infra.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k ca flash:cat3k caa-wcm.SPA.10.3.120.0.pkg... done. Deleting file flash:packages.conf... done. Deleting file flash:cat3k caa-drivers.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-infra.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-drivers.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-infra.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-drivers.SPA.03.07.02E.pkg... done. Deleting universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-platform.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-universa base.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-drivers.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-iosd-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-platform.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-iosd-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-platform.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-iosd-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-iosd-universalk9.SPA.152-3.E2.pkg.. universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-wcm.SPA.10.3.120.0.pkg... done. Deleting file flash:cat3k caa-base.SPA.03.07.02E.pkg... done. Deleting file flash:cat3 infra.SPA.03.07.02E.pkg... done. Deleting file flash:cat3k caa-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-universalk9.SPA.152-3.E2.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k caa-universalk9

SUCCESS: Files deleted. Switch# Step 12 Copy the image from your tftp server to flash Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.16.06.01.SPA.bin]? flash and move from bundle mode to install mode. You can point to the source image on your TFTP server or in flash if you have it copied to flash. Use the auto-copy option to copy the.bin image from flash: to all other switches in your stack Switch# request platform software package expand switch all file flash:cat3k caa-universalk9.16.06.01.SPA.bin auto-copy [1]: Copying flash:cat3k caa-universalk9.16.06.01.SPA.bin from switch 2 3 4 [2 3 4]: Finished expanding all-in-one software package in switch 1 2 3 4 SUCCESS: Finished expanding all-in-one software package. Switch# Step 14 Clear the boot variable Switch(config)# no boot system Step 15 Edit the boot variable to point to the new image. Switch(config)# boot system flash;packages.conf Step 16 Use the write memory Step 17 Use the show boot command to confirm that your boot variable is pointing to the new image Switch# show boot ------ Switch 1 ---- Current Boot Variables: BOOT variable = flash:packages.conf; Boot Variables on next reload: BOOT variable = flash:packages.conf; Manual Boot = yes Enable Break = yes Switch# Step 18 Reload the switch # reload Step 19 If your switches are configured with auto boot, the stack will automatically boot up with the new image. If not, you can manually boot flash:packages.conf Step 20 When the new image, by checking show version Switch# show version Cisco IOS XE Software, Version 16.06.01 Cisco IOS Software [Everest], Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version 16.6.1, RELEASE SOFTWARE (fc2) Technical Support: Copyright (c) 1986-2017 by Cisco IOS XE Denali 16.x.x to Cisco IOS XE Everest 16.6.x in install mode. Step 1 Ensure you have enough space in flash to expand a new image by cleaning up old installation files. Use the switch all file flash: Running command on switch 1 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. use, will not delete. done. SUCCESS: No extra package or provisioning files found on media. Nothing to clean. Running command on switch 2 Cleaning up unnecessary packages... done. Preparing packages... done. Preparing packages list to delete... cat3k caa-rpbase.16.01.01.SPA.pkg File is in use, will not delete. cat3k caasrdriver.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-wcm.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-wcm.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-wcm.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k_caa-wcm.16.01.01.SPA.pkg File is in use, will not delete. Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-web File is in use, will not delete. packages... done. SUCCESS: No extra package or provisioning files found on media. Nothing to clean. Running command on switch 4 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete... packages.conf File is in use, will not delete. cat3k caa-rpbase.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.01.01.SPA.pkg File is in use, will not delete. cat3k caa-webui Nothing to clean. Step 2 Copy the new image to flash: (or skip this step if you want to use the new image from your TFTP server). Switch# copy tftp://5.28.11.250/cat3k_caa-universalk9.16.06.01.SPA.bin. flash. Switch# dir flash:*.bin Directory of flash:/ 32339 -rw- 373217171 May 26 2017 13:52:53 -07:00 cat3k_caa-universalk9.16.06.01.SPA.bin 1562509312 bytes total (731021312 bytes total (731021312 bytes free) Switch(config)# boot system flash:packages.conf Switch(config)# exit Use the write memory command to save boot settings. Switch# write memory Use this command to verify BOOT variable = flash: new auto-copy command to install the target image to flash. We recommend copying the image to a TFTP server or the flash drive of the active switch. If you point to an image on the flash or USB drive - otherwise installation fails. For example, if
the image is on the flash drive of member switch 3: Switch# request platform software package install switch all file flash-3: cat3k_caa-universalk9.16.03.05.SPA.bin [3]: Copying flash-3: cat3k_caa-universal Cisco IOS XE Denali 16.1.x, 16.2.x or 16.3.1 to Cisco IOS XE Everest 16.5.1a. (There are packaging changes in the different 16.x.x releases.)Use the auto-copy option to copy the.bin image from flash: to all other switches in your stack Note When you execute the command, the following message is displayed: Unknown package type 21 This is expected and does not affect the upgrade. See CSCux82059 Switch# request platform software package install switch all file flash:cat3k_caa-universalk9.16.06.01.SPA.bin [1]: Copying flash:cat3k_caa-un copying to switch 2 3 4 [1 2 3 4]: Expanding file [1 2 3 4]: Finished expanding all-in-one software package type 21 Unknown package install package(s) on switch 1 --- Starting list of software package changes --- Old files list: Removed cat3k_caa-rpbase.16.01.01E.SPA.pkg Removed cat3k_caa-wcm.16.01.01E.SPA.pkg Removed cat3k_caa-rpbase.16.06.01.SPA.pkg Added cat3k_caa-rpcore.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA. switch 2 --- Starting list of software package changes --- Old files list: Removed cat3k caa-rpbase.16.01.01E.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.S rpcore.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-webui.16.06.01.SPA.pkg Added cat3k_caa-webui.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-webui.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA.pkg Added cat3k_caa-webui.16.06.01.SPA.pkg Added cat3k_caa-webui.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA.pkg Added cat3k_caa-srdriver.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.06.01.SPA.pkg Added cat3k_caa-guestshell.16.0 Starting list of software package changes --- Old files list: Removed cat3k caa-rpbase.16.01.01E.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.SPA.pkg Removed cat3k caa-webui.16.01.01E.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.SPA.pkg Removed cat3k caa-webui.16.01.01E.SPA.pkg Removed cat3k caa-srdriver.16.01.01E.SPA.pkg Removed cat3k c Added cat3k caa-sydriver.16.06.01.SPA.pkg Added cat3k caa-webui.16.06.01.SPA.pkg Added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software provisioned. New software will load on reboot. [3]: Finished list of software provisioned. New software provisioned. New software will load on reboot. [3]: Finished list of software provisioned. New software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will load on reboot. [3]: Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06.01.SPA.pkg Finished list of software will be added cat3k caa-webui.16.06 package changes --- Old files list: Removed cat3k caa-rpbase.16.01.01E.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-webui.16.01.01E.SPA.pkg Removed cat3k caa-webui.16.01.01E.S srdriver.16.06.01.SPA.pkg Added cat3k caa-guestshell.16.06.01.SPA.pkg Finished install successful on switch 4 Checking status of install on [1 2 3 4] [1 2 3 4]: Finished install in switch 1 2 3 4 SUCCESS: Finished install: Success on [1 2 3 4] Switch# Note Old files listed in the logs will not be removed from flash. Step 6 After you have successfully installed the software, verify that the flash partition has five new.pkg files and one updated packages.conf file. See sample output below: Switch# dir flash:*.pkg Directory of flash:/*.pkg Directory of flash:/*.pkg Directory of flash:/*.pkg Directory of flash:/*.pkg Directory of flash:*.pkg Directory of flash:*. of flash:/ 7747 -rw-281076014 Mar 27 2016 22:15:51 +00:00 cat3k_caa-srdriver.16.01.01E.SPA.pkg 7748 -rw-7197312 Mar 27 2016 22:15:51 +00:00 cat3k_caa-srdriver.16.01.01E.SPA.pkg 7749 -rw-14631548 Mar 27 2016 22:15:51 +00:00 cat3k_caa-srdriver.16.01.01E.SPA.pkg 7749 -rw-166767220 Mar 27 2016 22:15:51 +00:00 cat3k_caa-srdriver.16.01.01E.SPA.pkg 7749 -rw-14631548 Mar 27 2016 22:15:51 webui.16.01.01E.SPA.pkg 31000-rw-22173354 Aug 1 2016 04:40:38 -07:00 cat3k_caa-rpbase.16.06.01.SPA.pkg 30996-rw-266177140 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-rpcore.16.06.01.SPA.pkg 30998-rw-9067132 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-rpcore.16.06.01.SPA.pkg 30998-rw-9067132 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-rpcore.16.06.01.SPA.pkg 30998-rw-9067132 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30998-rw-9067132 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30998-rw-9067132 Aug 1 2016 04:40:37 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30998-rw-266177140 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30999-rw-178403952 Aug 1 2016 04:40:38 -07:00 cat3k_caa-srdriver.16.06.01.SPA.pkg 30998-rw-266177140 Aug 1 2016 guestshell.16.06.01.SPA.pkg 30997-rw-13333112 Aug 1 2016 04:40:37 -07:00 cat3k_caa-webui.16.06.01.SPA.pkg 1621966848 bytes total (730988544 bytes free) Switch# dir flash:*.conf Directory of flash:/packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 1562509312 bytes total (730988544 bytes free) Switch# dir flash:*.conf Directory of flash:/packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 1562509312 bytes total (730988544 bytes free) Switch# dir flash:*.conf Directory of flash:/packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 1562509312 bytes total (730988544 bytes free) Switch# dir flash:*.conf Directory of flash:/packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw- 4690 May 26 2017 14:58:12 -07:00 packages.conf 32342 -rw Step 7 After you have successfully installed the image, you no longer need the.bin image. If you copied the file to flash 1. Enter the dir flash of each switch. 2. If an image is still saved, you can delete it, if not, it has been deleted as part of the install operation and you can skip this step. Switch# dir flash:*.bin Directory of flash:/ 32339-rw-373217171 May 26 2017 13:52:53 -07:00 cat3k caa-universalk9.16.06.01.SPA.bin 1562509312 bytes free) Switch# delete flash:/ cat3k c universalk9.16.06.01.SPA.bin? [confirm] Switch# Step 8 Reload the switch is configured with auto boot, then the stack automatically boot flash:packages.conf Step 10 When the new image boots up, you can verify the version of the new image, by using the show version command: Switch# show version Cisco IOS XE Software, Version 16.06.01 Cisco IOS Software [Everest], Catalyst L3 Switch Software [Everest], Catalyst L3 Switch Software
(CAT3K_CAA-UNIVERSALK9-M), Version 16.6.1, RELEASE SOFTWARE (fc2) Technical Support: Copyright (c) 1986-2017 by Cisco Systems, Inc. Compiled Sat 22-Jul-17 03:00 by mcpre Follow these instructions to upgrade from Cisco IOS XE Everest 16.6.x to a future Cisco IOS XE 16.x.x release in Install mode, or to downgrade from Cisco IOS XE Everest 16.6.x to an earlier Cisco IOS XE Denali 16.x.x release in Install mode, or to downgrade from Cisco IOS XE Everest 16.6.x to a future Cisco IOS XE Everest 16.6.x to an earlier Cisco IOS XE Everest 16.x.x release in Install mode, or to downgrade from Cisco IOS XE Everest 16.6.x to an earlier Cisco IOS XE Everest 16.6.x to a future Cisco IOS XE Everest 16.6.x to an earlier Cisco IOS XE Everest 16.8.x or Cisco IOS XE Everest 18.8.x or Cisco steps apply when you downgrade as well. Step 1 Ensure you have enough space in flash to expand a new image by cleaning up old installation files. Use the switch all file flash: Running command on switch 1 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete... packages.conf File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-rpcore.16.06.01.SPA.pkg File i guestshell.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.06.01.SPA.pkg File is in use, will not delete. done. SUCCESS: No extra package or provisioning files found on media. Nothing to clean. Running command on switch 2 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete.. packages.conf File is in use, will not delete. cat3k_caa-rpbase.16.06.01.SPA.pkg File is in use, will not delete. cat3k_caa-rpcore.16.06.01.SPA.pkg File webui.16.06.01.SPA.pkg File is in use, will not delete. done. SUCCESS: No extra package or provisioning files found on media. Nothing to clean. Running command on switch 3 Cleaning up unnecessary package files Scanning boot directory for packages... done. Preparing packages list to delete... packages.conf File is in use, will not delete. cat3k caa rpbase.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, wil package or provisioning files found on media. Nothing to clean. Running command on switch 4 Cleaning up unnecessary packages... done. Preparing packages... done. Preparing packages... done. Preparing packages list to delete.. cat3k caarpcore.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k caa-subui.16.06.01.SPA.pkg File is in use, will not delete. cat3k Switch# Step 2 Copy the new image to flash: (or skip this step if you want to use the new image from your TFTP server) Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.16.08.01.SPA.bin flash:cat3k that the image has been successfully copied to flash. Switch# dir flash:*.bin Directory of flash:/*.bin Directory of flash:/ 7759-rw-465466221 Aug 1 2016 04:35:43 +00:00 cat3k caa-universalk9.16.08.01.SPA.bin 1621966848 bytes total (598597632 bytes free) Switch# Step 4 Use the boot system flash:packages.conf command to set the boot variable. Switch(config)# boot system flash:packages.conf Switch(config)# exit Use the write memory Use this command to install switch all file flash: auto-copy command switch all file flash: auto-c the target image to flash. We recommend copying the image to a TFTP server or the flash drive of the active), you must specify the exact flash or USB drive - otherwise installation fails. For example, if the image is on the flash drive of member switch (instead of the active), you must specify the exact flash or USB drive - otherwise installation fails. Switch# request platform software package install switch all file flash-3: cat3k caa-universalk9.16.03.05.SPA.bin [3]: Copying flash-3: cat3k caa-universalk9.16.03.05.SPA.bin from switch 3 to switch 1 2 4 Note Use the switch all option to upgrade all switches in your stackUse the auto-copy option to copy the.bin image from flash: to all other switches in your stack Switch# request platform software package install switch all file flash:cat3k caa-universalk9.16.08.01.SPA.bin [1]: Copying flash:cat3k caa-universalk9.16.08.01.SPA.bin auto-copy Expanding image file: flash:cat3k caa-universalk9.16.08.01.SPA.bin auto-c from switch 1 to
switch 2 3 4 [2 3 4]: Finished copying to switch 2 3 4 [1 2 3 4]: Finished expanding all-in-one software package in switch 1 -- Starting list of software package in switch 1 -- Starting list of software package in switch 1 -- Starting list of software package. package changes --- Old files list: Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-sectiver.16.06.01.SPA.pkg Removed cat3k caa-sectiver.16.06.0 rpcore.16.08.01.SPA.pkg Added cat3k caa-srdriver.16.08.01.SPA.pkg Added cat3k caa-guestshell.16.08.01.SPA.pkg Finished list of software provisioned. New software will load on reboot. [1]: Finished install successful on switch 1 [2]: install package(s) on switch 2 --Starting list of software package changes --- Old files list: Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.08.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed ca Added cat3k caa-rpcore.16.08.01.SPA.pkg Added cat3k caa-sedui.16.08.01.SPA.pkg Added cat3k caa-s on switch 3 --- Starting list of software package changes --- Old files list: Removed cat3k_caa-rpbase.16.06.01.SPA.pkg Removed cat3k_caa-rpcore.16.06.01.SPA.pkg Removed cat3k_caa-rpcore.16.06.01.SP rpbase.16.08.01.SPA.pkg Added cat3k_caa-rpcore.16.08.01.SPA.pkg Added cat3k_caa-srdriver.16.08.01.SPA.pkg Added cat3k_caa-guestshell.16.08.01.SPA.pkg Added cat3k_caa-guestshell.16.08.01.SPA.pkg Finished list of software package changes SUCCESS: Software provisioned. New software will load on reboot. [3]: Finished install successful on switch 3 [4]: install package(s) on switch 4 --- Starting list of software package changes --- Old files list: Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-srdriver.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-rpbase.16.06.01.SPA.pkg Removed cat3k caa-srdriver.16.06.01.SPA.pkg Remov Added cat3k caa-rpbase.16.08.01.SPA.pkg Added cat3k caa-sedui.16.08.01.SPA.pkg successful on switch 4 Checking status of install on [1 2 3 4] [1 2 3 4]: Finished install in switch 1 2 3 4 SUCCESS: Finished install: Success on [1 2 3 4] Switch# Note Old files listed in the logs will not be removed from flash. Step 6 After the software has been successfully installed, verify that the flash partition has five new .pkg files and 1 updated packages.conf file. See sample output below. Switch# dir flash:*.pkg Directory of flash:/?pkg Directory of flash:/?761-rw-21906269 Aug 1 2016 04:45:48 +00:00 cat3k caa-rpbase.16.06.01.SPA.pkg 7763-rw-7328384 Aug 1 2016 04:45:49 +00:00 cat3k caa-rpbase.16.06.01.SPA.pkg 7 srdriver.16.06.01.SPA.pkg 7762-rw-165657204 Aug 1 2016 04:45:49 +00:00 cat3k_caa-guestshell.16.06.01.SPA.pkg 7764-rw-17408636 Aug 1 2016 04:45:49 +00:00 cat3k_caa-guestshe rpcore.16.08.01.SPA.pkg 7755-rw-7326336 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7750-rw-165667444 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7759-rw-165667444 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7759-rw-165667444 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7759-rw-165667444 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7750-rw-165667444 Aug 1 2016 06:09:39 +00:00 cat3k_caa-srdriver.16.08.01.SPA.pkg 7750-rw dir flash:*.conf Directory of flash:/*.conf Directory of flash:/*.conf Directory of flash:/ 7766-rw-5137 Aug 1 2016 06:10:39 +00:00 cat3k_caa-universalk9.16.08.01.SPA.conf 7769-rw-5125 Aug 1 2016 06:11:19 +00:00 cat3k_caa-universalk9.16.08.01.SPA.conf 7769-rw-5125 Aug 1 2016 06:10:39 +00:00 cat3k_caa-universalk9.16.08.01.SPA.conf 7769-rw-5125 Aug 1 2016 aug 1 boot, then the stack will automatically boot up with the new image. If not, you can manually boot flash:packages.conf switch: boot f Follow these instructions to downgrade from Cisco IOS XE 16.x.x to older Cisco IOS XE 16.x.x to older Cisco IOS XE 3.xE releases in Install Mode. Step 1 Ensure you have enough space in flash to expand a new image by cleaning up old installation files. Use the switch all file flash: Running command on switch 1 Cleaning up unnecessary packages list to delete.. cat3k_caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete. cat3k_caa-rpcore.16.05.01a.SPA.pkg File is in use, will not delete.. cat3k_caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete. cat3k_caa-rpcore.16.05.01a.SPA.pkg File is in use, will not delete.. cat3k_caa-rpcore.16.05.01a.SPA.pkg File is in use, will not delete.. cat3k_caa-rpcore.16.05.01a.SPA.pkg File is in use, will not delete. cat3k_caa-rpcore.16.05.01a.SPA.pkg File is in use, will not delete.. cat3k_caa-rpcore.16.05.01a.SPA.p delete. cat3k_caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k_caa-webui.16.05.01a.SPA.pkg File is in use, will not delete. cat3k_caa-webui.16.05.0 cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshe File is in use, will not delete. done. Running command on switch 3 Cleaning up unnecessary packages list to delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete... cat3k caa-rpbase.16.05.01a.SPA.pkg srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-webui.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-guestshell.16.05.01a.SPA.pkg File is packages... done. Preparing packages list to delete... cat3k caa-rpbase.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete.
cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg File is in use, will not delete. cat3k caa-srdriver.16.05.01a.SPA.pkg webui.16.05.01a.SPA.pkg File is in use, will not delete. packages.conf File is in use, will not delete. done. The following files will be deleted: [1]: /flash/cat3k caa-universalk9.16.01.01.SPA.pkg /flash/cat3k caa-universalk9.16.02.01.SPA.pkg wcm.16.02.01.SPA.pkg /flash/cat3k_caa-webui.16.02.01.SPA.pkg /flash/cat3k_caa-universalk9.16.01.01.SPA.pkg /flash/cat3k_caa-wcm.16.02.01.SPA.pkg webui.16.02.01.SPA.pkg /flash/cat3k caa-universalk9.16.01.01.SPA.pkg /flash/cat3k caa-webui.16.02.01.SPA.pkg /flash/cat3k caa-webu /flash/cat3k caa-webui.16.02.01.SPA.pkg /flash/cat3k caa-wcm.16.02.01.SPA.pkg /flash/cat3k caa-webui.16.02.01.SPA.pkg /flash/cat3k rpbase.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.01.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.01.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.02.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9.16.01.01.SPA.pkg... done. Deleting file flash:cat3k_caa-universalk9 done. Deleting file flash:packages.conf.00-... done. SUCCESS: Files deleted. [2]: Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.pkg... done. Deleting file flash:cat3k caa-srdriver.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-universalk9.16.01.01.SPA.pkg... d file flash:cat3k caa-wcm.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-rpbase.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-rpbase.16.02 universalk9.16.01.01.SPA.bin... done. Deleting file flash:cat3k_caa-universalk9.16.01.01.SPA.conf... done. Deleting file flash:cat3k_caa-webui.16.02.01.SPA.pkg... done. Deleting file fla rpbase.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-wcm.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-webui.16.02.01.SPA.pkg... done. Deleting file flash:cat3k caa-w done. Deleting file flash:packages.conf.00-... done. SUCCESS: Files deleted. Switch# Step 2 Copy the target Cisco IOS XE 3.xE image to flash: (you can skip this step if you want to use the image from your TFTP server). Switch# copy tftp://5.28.11.250/cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin flash:cat3k_caa universalk9.SPA.03.07.02.E.152-3.E2.bin Destination filename [cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? 311154824 Nov 25 2015 18:17:21 +00:00 cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin 3458338816 bytes total (2468995072 bytes free) Switch# Step 4 Use the request platform software package install command with the new option to downgrade your stack. You can point to the source image on your tftp server or in flash if you have it copied to flash. Use the switch all option is needed to upgrade all switches in your stack. Use the auto-copy option to copy the.bin image from flash: to all other switches in your stack. Use the auto-copy expanding image file: flash:cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin [4]: Copying flash:cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin from switch 1 2 3 [1 2 3 4]: Expanding all-in-one software package in switch 1 2 3 [1 2 3]: Finished expanding all-in-one software package. [1 2 3 4]: Performing install SUCCESS: install Finished [1]: install package(s) on switch 1 --- Starting list of software package changes --- Old files list: Removed cat3k_caa-rpbase.16.05.01a.SPA.pkg Removed cat3k_caa-rpcore.16.05.01a.SPA.pkg Removed cat3k_caa-rpbase.16.05.01a.SPA.pkg Removed cat3k_caa-rpbase.16.05 guestshell.16.05.01a.SPA.pkg Removed cat3k caa-webui.16.05.01a.SPA.pkg New files list: Added cat3k caa-base.SPA.03.07.02E.pkg Added cat3k caa-infra.SPA.03.07.02E.pkg Added cat3k caa-infra.SPA.03.07.02E.pkg Added cat3k caa-base.SPA.03.07.02E.pkg wcm.SPA.10.3.120.0.pkg Finished list of software package changes SUCCESS: Software provisioned. New software will load on reboot. [1]: Finished install successful on switch 1 [2]: install package(s) on switch 2 --- Starting list of software package changes --- Old files list: Removed cat3k_caa-rpbase.16.05.01a.SPA.pkg Removed cat3k_caarpcore.16.05.01a.SPA.pkg Removed cat3k caa-srdriver.16.05.01a.SPA.pkg Removed cat3k caa-base.SPA.03.07.02E.pkg Added cat3k caa-infra.SPA.03.07.02E.pkg universalk9.SPA.152-3.E2.pkg Added cat3k caa-platform.SPA.03.07.02E.pkg Added cat3k caa-wcm.SPA.10.3.120.0.pkg Finished list of software package changes --- Old files list: Removed cat3k caa-rpbase.16.05.01a.SPA.pkg Removed cat3k caa-srdriver.16.05.01a.SPA.pkg Rem drivers.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added cat3k_caa-iosd-universalk9.SPA.152-3.E2.pkg Added cat3k_caa-iosd-universalk9.SPA.152-3.E2 successful on switch 3 [4]: install package(s) on switch 4 --- Starting list of software package changes --- Old files list: Removed cat3k caa-rpcore.16.05.01a.SPA.pkg Removed cat3k caa-rpcore.16.0 webui.16.05.01a.SPA.pkg New files list: Added cat3k_caa-base.SPA.03.07.02E.pkg Added cat3k_caa-drivers.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added cat3k_caa-base.SPA.03.07.02E.pkg Added cat3k_caa-infra.SPA.03.07.02E.pkg Added changes SUCCESS: Software provisioned. New software will load on reboot. [4]: Finished install successful on switch 4 Checking status of install in switch 1 2 3 4] [1 2 3 4]: Finished install: Success on [1 2 3 4] Note The old files listed in the logs should be removed using the software clean command, after reload Step 5 After you have successfully installed the image, you no longer need the.bin image and the file can be deleted from flash. Switch# delete flash: cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/ cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin Delete flash: cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? universalk9.SPA.03.07.02.E.152-3.E2.bin? [confirm] Switch# Step 6 Reload the switch switch auto boot, then the stack will automatically boot flash:packages.conf Switch: boot flash:packages.conf Note When you downgrade to a Cisco IOS XE 3.xE image, your boot loader will not automatically downgrade. It will remain updated. The new boot loader can support booting both Cisco IOS XE Denali 16.x.x releases as well as Cisco IOS XE 16.x.x in Bundle mode to an older Cisco IOS XE 16.x.x releases. Follow these instructions to downgrade from Cisco IOS XE 16.x.x in Bundle mode to an older Cisco IOS XE 16.x.x releases. 3.xE release in Bundle mode. Step 1 Make sure your TFTP server is reachable from IOS via GigabitEthernet0/0. Switch# show run | i tftp ip tftp source-interface GigabitEthernet0/0. Switch# show run | i tftp ip tftp source-interface GigabitEthernet0/0. Building configuration... Current configuration auto end Switch# ping vrf Mgmt-vrf ip 3.28.11.250. Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 5.28.11.250, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms Step 2 Copy the image from your TFTP server to flash. Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin flash:cat3k c Note If you have a stack, you must copy the image to the flash of each switch in your stack. Step 3 Use the dir flash: *.bin Directory of flash: / 47718-rw-311154824 Nov 25 2015 18:17:21 +00:00 cat3k caa universalk9.SPA.03.07.02.E.152-3.E2.bin 3458338816 bytes total (2468995072 bytes free) Switch# Step 4 Clear the boot variable to point to the new image. Switch(config)# boot system flash:cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin Step 6 Use the write memory command to save the configuration change. Switch# write memory Step 7 Use the show boot command to confirm that your boot variable is pointing to the new image Switch# show boot ----------- Switch 1 --------- Current Boot Variables: BOOT variable = flash:cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin; Boot Variables on next reload BOOT variable = flash:cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin; Allow Dev Key = yes Manual Boot = yes Enable Break = yes Switch# Step 8 Reload the switch set of a sw universalk9.SPA.03.07.02.E.152-3.E2.bin switch:boot flash:cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin switch:boot flash:cat3k_caa-univer 16.x.x and Cisco IOS XE Everest 16.x.x releases. Step 10 When the new image boots up, you can verify the version of the new image, by checking show version Cisco IOS Software, Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version 03.07.02E RELEASE SOFTWARE (fc1) Technical Support: Copyright (c) 1986-2015 by Cisco Systems, Inc. Compiled Tue 21-Jul-15 12:51 by prod_rel_team Step 11 Ensure you have enough space in flash to expand a new image by cleaning up old installation files. This command will erase your
Cisco IOS XE 3.xE bin image file, so ensure that you copy it to your Active again. Switch# software clean file flash: Preparing clean operation... [1 2 3 4]: Cleaning up unnecessary packages list to delete... [1]: Files that will be deleted: cat3k_caa-rpcore.16.05.01a.SPA.pkg cat3k_caa-srdriver.16.05.01a.SPA.pkg cat3k_caa-webui.16.05.01a.SPA.pkg cat3k_caa-srdriver.16.05.01a.SPA.pkg cat3k_caa-srdr deleted: cat3k_caa-rpbase.16.05.01a.SPA.pkg cat3k_caa-rpcore.16.05.01a.SPA.pkg cat3k_caa-srdriver.16.05.01a.SPA.pkg cat3k_caa-universalk9.16.05.01a.SPA.pkg cat3k_caa-webui.16.05.01a.SPA.pkg cat3k_caa-webui.16.05.01a.SPA.pkg cat3k_caa-srdriver.16.05.01a.SPA.pkg cat3k_caa-universalk9.16.05.01a.SPA.pkg cat3k_caa-srdriver.16.05.01a.SPA.pkg cat3k_ rpcore.16.05.01a.SPA.pkg cat3k caa-webui.16.05.01a.SPA.pkg cat3k caa-webui.16.05.01a.SPA.pkg cat3k caa-universalk9.16.05.01a.SPA.pkg cat3k caa-webui.16.05.01a.SPA.pkg cat3k caa to flash Switch# copy tftp://5.28.11.250/cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin flash:cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Accessing tftp://5.28.11.250/cat3k caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? from bundle mode to install mode. You can point to the source image on your TFTP server or in flash if you have it copied to flash. Switch# software to switches 2,3,4 [1]: Finished copying software to switches 2,3,4 [1]: Finished copying software to switches 2,3,4 [1]: Finished copying software to switch a software to swit 2,3,4 [1 2 3 4]: Expanding bundle flash:cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin [1 2 3 4]: Finished expanding bundle flash:cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin [1 variable to point to the new image. Switch(config)# boot system flash:packages.conf Step 16 Use the write memory command to save the configuration change. Switch# write memory Step 17 Use the show boot command to confirm that your boot variable is pointing to the new image Switch# show boot ----Current Boot Variables: BOOT variable = flash:packages.conf; Boot Variables on next reload: BOOT variable = flash:packages.conf; Manual Boot = yes Enable Break = yes Switch# reload: BOOT variables are configured with auto boot, the stack will automatically boot up with the new image. If not, you can manually boot flash:packages.conf switch:boot flash:packages.conf Step 20 When the new image boots up, you can verify the version Cisco IOS Software, IOS-XE Software, ICAT3K CAA-UNIVERSALK9-M), Version 03.07.02E RELEASE SOFTWARE (fc1) Technical Support: Copyright (c) 1986-2015 by Cisco Systems, Inc. Compiled Tue 21-Jul-15 12:51 by prod rel team Step 21 After you have successfully installed the image, you no longer need the.bin image and the file can be deleted from the flash of each switch if you have successfully installed the image, you no longer need the.bin image and the file can be deleted from the flash of each switch if you have successfully installed the image, you no longer need the.bin image and the file can be deleted from the flash. universalk9.SPA.03.07.02.E.152-3.E2.bin Delete filename [cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete filename [cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete filename [cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/cat3k_caa-universalk9.SPA.03.07.02.E.152-3.E2.bin]? Delete flash:/cat deactivate any license supported on the platform. license right-to-use [activate | deactivate] [anbase | ipservices slot switch-id] { acceptEULA } Configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] [anbase | ipservices slot switch-id] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } configuration Examples: 1 license right-to-use activate] { acceptEULA } c acceptance. 2 show license right-to-use activate ipservices. 3 reload Reboot the switch ID. Enter acceptEULA to indicate acceptance. 2 show license right-to-use activate ipservices. 1 license right-to-use activate ipservices. 3 reload Reboot the switch ID. use summary Check the reboot license level is ipservices eval. 3 reload Reboot the switch to boot with ipservices evaluation license. 2 show license right-to-use summary Check the reboot license level is ipbase. 3 reload Reboot the switch to boot with ipbase. 1 license right-to-use activate ipbase all acceptEULA Activate IP Base license on all the switches in the stack. Enter acceptEULA to indicate acceptEULA to indicate acceptance. 2 show license right-to-use Check the reboot license level is ipbase for all the switches. 3 reload Reboots the switch to boot with ipbase. If the license mismatch switch has a lower license level than other switches in the stack, and the stack is running at IP Services and the mismatch switch is booted with IP Base license. 1 show switch-id license level of the license mismatch switch. 3 license right-to-use activate ipservices slot switch-id acceptEULA Activate IP Services license on all the mismatch switches in the stack. Enter acceptEULA to indicate acceptance. 4 reload slot switch-id Reboot the license mismatch switch is running at IP Base and the mismatch switch is booted with IP Services license. 1 show switch Get the switch number in license mismatch switch. 3 license right-to-use activate ipbase slot switch-id acceptEULA Activate IP Base license on the license mismatch switch. Enter acceptEULA to indicate acceptance. 4 reload slot switch-id Reboots the license mismatch switch to boot with ipbase and join the stack. Control Plane Policing (CoPP)—Starting with Cisco IOS XE Everest 16.6.4, the show run command does not display information about classes configured under system-cpp policy, when they are left at default values. Use the show policy-map system-cpp-policy or the s how policy-map control-plane commands in privileged EXEC mode instead. Smart Install—The feature is deprecated starting with Cisco IOS XE Everest 16.5.1a. The commands in privileged EXEC mode instead. global configuration mode and disable the feature. Starting from Cisco IOS XE Everest 16.6.2, the vstack command is not available on the CLI. Limitations for YANG data modeling—A maximum of 20 simultaneous NETCONF sessions are supported. Restrictions for YANG data modeling—A maximum of 20 simultaneous NETCONF sessions are supported. exceed 100%. - For QoS policies, only switched virtual interfaces (SVI) are supported for logical interfaces. - QoS policies are not supported for port-channel interfaces, and other logical interfaces. Starting with Cisco IOS XE Denali 16.3.1, Centralized Management Mode (CMM) is no longer supported. You cannot configure NetFlow export using the Ethernet Management port (GigabitEthernet0/0). Flex Links are not supported only when they are in Local mode. Restrictions for Cisco TrustSec: - Dynamic SGACL download is limited to 6KB per destination group tag (DGT). - Cisco TrustSec can be configured only on physical interfaces, not on logical interfaces. - Cisco TrustSec cannot be configured on a pure bridging domain. Restriction for VLAN: It is advisable to have well-defined segregation while defining data and voice domain during switch configuration and to maintain a data VLAN different from voice VLAN across the switch stack. If the same VLAN is configured for data and voice domains on an interface, the resulting high CPU utilization might affect the device. When a logging discriminator is configured and applied to a device, memory leak is seen under heavy syslog or debug output. The rate of the leak is dependent on the quantity of logs produced. In extreme cases, the device. For the WS-C3850-12X48U-S and WS-C3850-12X48U-E switch models, a maximum of 28 ports are available for UPoE connections. When the device is running SCP (Secure Copy Protocol) and SSH cryptographic operations, expect high CPU until the SCP read process is completed. SCP and SSH for the transfers between hosts on a network and uses SSH for the transfers. crypto engine, running encryption and decryption process in software causes high CPU. The SCP and SSH processes can show as much as 40 or 50 percent CPU usage, but they do not cause the device to shutdown. Caveats describe
unexpected behavior in Cisco IOS releases. Caveats listed as open in a prior release are carried forward to the next release as either open or resolved. The Bug Search Tool (BST) allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, release. provision to filter bugs based on credentials to provide external and internal bug views for the search input. To view the details of a caveat, click on the identifier. The following are the open caveats in this release. CSCvf80334 Mass loadshed should not assert OSS (low-priority PoE) and nReset (high-priority PoE) concurrently CSCvi36291 Incorrect budget allocated for StackPower CSCvk60809 Wrong Time-Stamp is saved in pcap. CSCvk69936 One member of a stack of 3850 running 16.6 releases CSCvq72713 Cat3k/Cat9k can't forwarding traffic follow the rule of EIGRFI follow the unequal cost load-balancing CSCvr21001 QoS with policing traffic that do not match the ACL on the class-map CSCvt17066 3850 SNMP inetCidrRouteNumber counter value incorrect CSCvt65890 Cat3k routed port can't be a source port when vlan filter enable CSCvt53563 Cisco IOS XE Software NETCONF and RESTCONF Authentication Bypass Vulnerability CSCvw25564 Cisco IOS and IOS XE Software IKEv2 AutoReconnect Feature Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software TrustSec CLI Parser Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software UDLD Denial of Service Vulnerability CSCvw46194 IOS and IOS XE Software VUlnerability CSCvw4619 Vulnerability CSCvv48305 Route not fully programmed in the hardware for MACSec enabled end-point CSCvt30243 DNA - LAN Automation CSCvr71393 C3850 24 of 48 ports stop working after upgrade CSCvt78186 Cisco IOS and IOS XE Software Split DNS Denial of Service Vulnerability CSCvm40582 Crash when entering username with aaa common-criteria policy password CSCvp73666 DNA - LAN Automation CSCvq56114 Cat3k crash in IGMP code due to invalid source count in DNS lookup CSCvr03905 Memory Leak on FED due to IPv6 Source Guard CSCvr20522 Cat3k/9k BOOTREPLY dropped when DHCP snooping is enabled CSCvr23882 Kernel crash at Free pipe info CSCvr46931 Ports remain down/down object-manager (fed-ots-mo thread is stuck) CSCvr20522 Cat3k/9k Flow-based SPAN(FSPAN) can only work in one direction when mutilple session configured CSCvq72181 Seeing 100% CPU with FED on SVL setup CSCvj16691 port LED may turn to amber CSCvn89543 StackWise-Virtual Ping fails momentarily due to GLC-T optics Link goes up during reboots CSCvn30230 Slow memory leak in linux iosd-imag CSCvn81334 Default ACL being enforced ever when dACL is applied after Reload CSCvo27371 Memory leak in MACSec seen during SAP scale longevity CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. CSCvo36435 MACSEC Non-zero CO value cause packet drops even though Session remain up. 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CSCvo71264 Gateway routes DHCP offer incorrectly after DHCP snooping CSCvo83305 MAC Access List Blocks Unintended Traffic CSCvo85422 Directly connected IPv4/IPv6 hosts not programmed in HW - %FMFP-3-OBJ DWNLD TO DP FAILED CSCvo94058 URPF packet drop despite "rx allow-default" option CSCvp00026 No audio during first few seconds of voice call between 2 Fabric Edge CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp26792 Control plane impacted when > 1Gbps multicast passes through and no entry in IGMP snooping CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security configuration on interface causing connectivity issue CSCvp15389 Port security causing ca are constant changes in REP ring CSCvp43131 Mgmt port "speed 1000" and "negotiation auto" in show run CSCvp54779 [SDA] 1st ARP Reply is dropped at remote Fabric Edge CSCvp58155 Half-Pair Ethernet Cables do not auto-negotiate to 100 Full with Certain IP Phones CSCvp66089 Interface hung after reboot the device CSCvp69629 Authentication sessions does not come up on configuring dot1x when there is active client traffic. CSCvp88369 Switch crashes while accessing OBFL CSCvp90279 ADV and REP DHCPv6 packets are sent to SISF when source udp port is not 547 CSCvp01185 SNMP-3-RESPONSE_DELAYED: and timeout when polling ent Sensor Value Entry CSCvq10937 Free Memory list corruption. CSCvq17759 DACL not properly enforced when IPDT gleans from ARP CSCvq10937 Free Memory list corruption. CSCvq10937 Free Memory list corruption. after longevity CSCvq30460 SYS-2-BADSHARE: Bad refcount in datagram done - messages seen during system churn CSCvq44397 ospf down upon switchover with aggressive timers "hello-interval 1" and "dead-interval 4" CSCvn08296 DNA Center 1.2.5 SDA Border as RP incorrectly resolving RPF next-hop as LISP interface CSCvo32446 High CPU Due To Looped Packet and/or Unicast DHCP ACK Dropped CSCuw36080 SNMP with Extended ACL CSCvg73991 PBR adjacency not getting updated correctly after shut/no shut on interface CSCvk08590 3850 Uplink: ping is not happening with 'cts ma sap pmk' CSCvk18906 Multiple LRM modules in C3850-NM-8-10G result in link drop CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash
when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session is closed after configure TACACS CSCvm07353 Router may crash when a SSH session generated when a MAC address is moved between same Port-channel interface CSCvn23706 no mac address-table notification mac-move can't be saved after reload device CSCvn31477 Layer 2 SSM Multicast traffic hitting the CPU when SVI is configured with PIM Spare Mode CSCvn46517 some sqacl were not installed after update a Cell in ISE CSCvn56579 MQIPC memory corruption resulting dot1x/MAB not working for wired clients CSCvn72973 Device is getting crashed on the "cts role-based enforcement" CSCvn74807 Cisco TrustSec crash while processing CoA update CSCvn79221 MAC ADDRESS LEARNING FAILURE ON PORT-SECURITY CSCvn7594 MATM programming issue for remote client CSCvo42353 SDA; Cat3K, Cat9K:-External border creating incorrect CEF/map-cache entry due to multicast CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP redirect out is enabled on VLAN interface of 3850 switch CSCvo46822 Packet loops are noticed when WCCP red Converting a layer 2 port-channel to L3 causes some Protocols to break CSCvi85885 IPv6 stale entries not expiring CSCvi02406 LED ON on one end and OFF on the other end when looped back CSCvi85885 SNMP timeout when querying entSensorValueEntry CSCvi96965 Radius Automate Tester probe on feature is not working as expected. CSCvj79694 sgt-map gets cleared for some of the end points for unknown reason CSCvk20003 Polaris: Host limit of 32 for session monitoring sessions CSCvk20003 Polaris: Host limit of 32 for session monitoring sessions CSCvk20003 Polaris: Host limit of 32 for session monitoring sessions CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk20003 Polaris: Host limit of 32 for session monitoring sessions CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk20426 Slowness for x11perf with MGig port on 3850. CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for DHCP clients CSCvk30813 MAB fails to start negotiation after device-tracking does not consistently show DH4 for D moves to another layer 2 adjacent switch CSCvk32866 SISF probing behavior should be changed from broadcast to unicast CSCvk34927 DHCP snooping table not updated from DHCP snooping table not updated from broadcast to unicast CSCvk34927 DHCP snooping table not updated from DHCP snooping table not updated from broadcast to unicast CSCvk34927 DHCP snooping table not updated from DHCP snooping table not updated from broadcast to unicast CSCvk34927 DHCP snooping table not updated from DHCP snooping table not updated from DHCP snooping table not updated from broadcast to unicast CSCvk34927 DHCP snooping table not updated from DHCP snooping soft reload CSCvk60752 DHCP offer with Option 82 but no Remote ID suboption dropped by CAT9K relay agent CSCvk63089 show logging onboard switch active uptime detail shows 133 years as uptime CSCvm00765 BFD crash on imitating traffic loss CSCvm33622 WCCP redirection to proxy server breaks in certain scenarios. CSCvm35904 16.6.3: Access Tunnel Create Interface code is considered to be update request in FMAN FP CSCvm36333 MAC address programming issue CSCvm39894 False authorizations and authentication/authorization list CSCvm43200 [SVL] Traffic is not forward out on standby switch over SVL after SSO CSCvm46814 session management process smd crash at cts sqa due to TDL memory depletion. CSCvm60720 Broadcast Gratuitous ARP changed to unicast by switch leading to DHCP decline from client CSCvm62274 Multicast traffic is software switched when switch is provisioned as Edge in Fabric - SDA Deployment CSCvm63651 Memory leak due to authentication mac-move permit CSCvm75378 Cat9x00: IPv6 SPAN filter still applied in hardware when removing access-session attributes filter-list CSCvm89005 Packets looped internally during VXLAN decap in SD-Access environment CSCvm95352 uRPF TCAM Resources exhausted even without uRPF configured on the switch CSCvm97660 C9300 reflects back traffic on the same interface CSCvn08672 DHCP packets cause unknown protocol drops on 16.6.x CSCvm36398 WCCP Access-list might not be removed from interface after a WCCP loss of service CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvn46171 Rapid Memory Leak in "FED Main Event" Process due to Modifying Adjacencys CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvm01064 PE stops VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvm01064 PE stops
VPLS traffic forwarding after xconnect flap CSCvj83551 SISF crash in IPV6 neighbor discovery packets CSCvm01064 PE in ACL drops TCP/UDP packets. CSCvk39041 SDA: IP phone latency in fabric is close to 4 sec's CSCvk02589 Connectivity is lost every four hours when ipv4 and ipv6 dual stack is configured. CSCvf55376 third-party camera (UTC) TVP-N120D-12X-P is not powering up on WS-C3850-48U CSCvj86644 SDA: DHCP does not remove option 82 when sending packets to end-hosts CSCvk31115 Device-sensor doesn't send data off initial boot CSCvk42902 ACL is not passing traffic after upgrading to 16.6.4 from 3.7.4E. in a heavy ACL deployment CSCvk54649 Memory Leak in fman rp on 3850 running 16.6.4 CSCvm01609 3850/3650- Mgig ports may fail to come up after upgrading to 16.6.4 CSCvm36748 FED crash at expired "FED MAC AGING TIMER" or "unknown" timer without a stack trace. CSCvm47139 3850 16.6.4 not providing PoE+ for APs CSCvj33865 Clearing mac address table should not delete entries created by control plane/remote entries created by control plane/remote entries CSCvk07070 Observing bmalloc smd leaks at OBJ WEBAUTH LOGOUT URL with webauth CSCvk16813 DHCP client traffic dropped with DHCP snooping and port-channel or cross stack uplinks. CSCvk50734 Device Tracking - Memory leak observed with IPv6 NS/NA Packets. CSCvk53444 Packets with Fragment Offset not forwarded with DHCP Snooping Enabled in 16.6.4 CSCvm09121 Evaluation of IOS-XE for CVE-2018-5391 (FragmentSmack) CSCvj76259 MOSFET fault 3850/3650 suddenly stops providing PoE on certain ports The following are the resolved caveats in Cisco IOS XE Everest 16.6.4. CSCvi83373 Repetitive logs show up 47K times in fed tracelogs CSCvj16271 Addressing memory leaks in IPC error handling cases in LED, RPS, VMARGIN, USB, THERMAL CSCvh72868 FlowSequence value in CiscoNetflow/IPFIX is always "0" in Denali 16.6.2 CSCvj52681 dynamic vlan assignment causes all sisf entires under the port to be deleted CSCvi91714 IPv6 address not assigned or delayed when RA Guard is enabled CSCvi76084 Device-tracking entry stuck in TENTATIVE for certain Mac Pro hosts configured with static IP CSCvi26398 "%LISP-4-LOCAL EID RLOC INCONSISTENCY" should be supported in 16.6.2 CSCvi26398 "%LISP-4-LOCAL EID RLOC INCONSISTENCY" should be support of the state of the stat Abnormal output for show pnp tech-support CSCvh09334 SDA-IPV6::SISF traceback @ar_relay_create_entry - L2 Binding tbl entry insertion failed CSCvq45950 packet drop seen intermittently if 40G traffic sent via cts interface CSCvb69966 Memory leak under LLDP Protocol process CSCvq89940 Adjacency Objects fail to program and connectivity gets lost - %FMFP-3-OBJ DWNLD TO DP FAILED CSCvh85071 Device returns incorrect SNMP value for oid 1.3.6.1.4.1.9.9.390.1.2.2.1.8 (ccdTdrIfResultPairStatus) CSCvh11581 netflow export packet Vlan ID display as "unknown" in packet capture CSCvg53159 %SNMP-3-RESPONSE DELAYED: processing GetNext of cafSessionEntry.2 seen on catalyst switch CSCvc47165 SFP port detect link-flap error and it's in error-disabled state CSCvg77396 Port went to err-disable due to link-flap detected after shutdown no shut CSCvg85084 3850 mGig port autonegotiated but remain down if remote device is configured manually to 100/Full CSCvh11396 Switchport Security Command triggering Bulk Sync Failure CSCvh28402 optical signal present on shut interface with "cts manual" CSCvh48269 Stack member loses connection to active on single cable auth failure CSCvh48397 create directory cache: failed to stat flash message see when device managed by dnac CSCvh50091 No temperature reading for catalyst C3850-24XU CSCvh60088 3850/3650 running 16.3.5b, unresponsive on save with multiple privilege commands CSCvh70501 Continuous CRCs seen on links using ACWXXX GLC-GE-100FX CSCvh84345 IOS CLI "show platform software fed switch active punt cause summary" may display negative counts CSCvh87270 StackWise Virtual not forwarding IGMP traffic over the standby switch. CSCvh89372 Memory leak in linux_iosd-imag and/or platform mgr CSCvi06186 stack logging onboard (OBFL) config disappear after switchover CSCvi08459 set different words for username and password, but username and password, but username and password, but username and password, but username and password CSCvi09054 Stackwise Virtual: Routing Neighborships on Standby dont come up with MTU > 9116 CSCvi08459 set different words for username and password CSCvi09054 Stackwise Virtual: Routing Neighborships on Standby dont come up with MTU > 9116 CSCvi08459 set different words for username and password CSCvi09054 Stackwise Virtual: Routing Neighborships on Standby dont come up with MTU > 9116 CSCvi08459 set different words for username and password CSCvi08459 set different word running Everest 16.6.2 CSCvi19809 Memory leak in TMS process CSCvi21226 C3850: GLC-T/SFP-GE-T 100M link is half duplex after reinserting SFP or reloading device CSCvi28014 Ping down for 2-4s during insert SFP into 3850 CSCvi38191 Memory leak in Iman process due to "ld license ext.dat" build-up. CSCvi39202 DHCP fails when DHCP snooping trust is enabled on uplink etherchannel CSCvi49946 link flap once after reload 3850 CSCvi77574 16.6.3 Packets mapped to wrong DGTid CSCvi96502 WS-C3850-48XS-S interface up/down delay with 48 SFP module inserted. CSCvi941950 Cisco IOS XE Software Diagnostic Shell Path Traversal Vulnerability CSCvh71539 Command "show aaa servers" reloads the switch CSCvj49476 Telnet Sessions Hang/Become unavailable at execution of "show run" The following are the resolved caveats in Cisco IOS XE Everest 16.6.3 CSCvf97328 1G SFP in 10G port does not come up after SFP OIR with speed noneg config CSCvg71118 Dot1x configuration on AP Trunk Ports causes unreachability CSCvf92341 sh inv raw o/p for 40G is not consistent with 1G/10G o/p. CSCvh31431 Memory leak in linux iosd-image on 16.6 releases. CSCvh31431 Memory leak in linux iosd-image on 16.6 releases. when DHCP snooping is enabled on the switch. CSCvf27728 Catalyst 3k improve Last Reload Reason. CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to PBR nexthop CSCvg01236 3850/3650 not send out ARP to P applied but not working on the interface. CSCvh81152 Local SVI IP is registered as dynamic-eid. CSCvf81218 SFP showing unknown status in show interface on stack standby device. CSCvf81218 SFP showing unknown status in show interface. CSCvg58932 Qos classification issue with NBAR CSCvg60156 CTS fails to enforce RBACLs on known mappings CSCvg70013 GLC-T/SFP-GE-T 100M link is half duplex after reinserting SFP or reloading device. CSCvg74751 Cat3k - Memory Leak in pvp.sh Process. CSCvg75317 Reload standby device of stack, lacp PDU packet stopped sending from active device. CSCvg81139 ping failure for more than 10 seconds after REP topo change. CSCvg95142 running multicast traffic 3850 crashed by fed process. CSCvg95142 running multicast traffic 3850 crashed by fed process. FED crash with MPLS. CSCvf77371 Ethernet Trailer or additional bytes are added by 3650 in GRE Tunnel. CSCvg48154 UDLD error disables the 10G interface when enabling "udld aggresive" on peer. CSCvg62818 When polling duplex status using dot3StatsDuplexStatus SNMP does not show correct value. CSCvg66077 Default static smartport macros are not presented on 3850 running 16.x.x version. CSCvg66399 Hardware OutDrops interface counter is cloned on the Software OutDrops interface counter. criteria' not available on IPBASEK9 license. CSCvg22330 %UTIL-6-RANDOM: A pseudo-random number was generated twice in succession. CSCvf43271 Traceback: Stack master crash at dot1x authentication. CSCvg22515 After upgrade of IOS, SSH passwords longer than 25 characters do not work. CSCvg60288 Device IP address AV pair replaced with 192.168.1.5. CSCvh32416 Evaluation of all for CPU Side-Channel Information Disclosure Vulnerability. CSCvq67442 [C3850-24XS Crash] UNIX-EXT-SIGNAL: Illegal instruction(4), Process = SSH Process. CSCvh55578 To add recovery mechanism for glean entry. CSCvf84349 Router crash on polling cEigrpPeerEntry. The following are the resolved caveats in Cisco IOS XE Everest 16.6.2. CSCvu98441 DOM support for 40G SFP. CSCvd89348 %PLATFORM
PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove and insert SFP on admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down port. CSCvd89348 %PLATFORM PM-6-MODULE ERRDISABLE when remove admin down pm-6-MODULE ERRDISABLE wh Series running Cisco IOS XE Denali shows UDLD/CDP issues when native VLAN is not in the database. CSCve60795 Catalyst 3850 reload. CSCve57390 Catalyst 3850 reload. CSCve57390 Catalyst 3850 reload. CSCve57390 Catalyst 3850 10G port in err-disable state due to link-flap error after peer reload CSCve60795 Catalyst 3850 incorrect group-mask when configure 7 member-ports in a port-channel. CSCve78157 Stack member ports may transition to shutdown after SSO. CSCve85179 Speed negotiate cannot be reflected on a port which has no SFP inserted. CSCve99435 Keepaliye packets do not check loop when use C3850 IOS-XE16.X. CSCvf04625 Deprecated command facility-alarm critical exceed-action shutdown present in config. CSCvf30773 SF: Multicast fails to converge faster. CSCvf59240 PID shown in show inventory/version should be based on CFG MODEL NUM. CSCvf63727 cbQosMatchStmtCfgTable not supported on Cisco IOS XE Everest 16.6.1. CSCvf64859 Stackwise-virtual configuration. CSCvf66433 Catalyst 3850 - Continuous link flap due to Cisco TrustSec configuration. CSCvf73558 Ethernet header padding field are non-zero in VRRP packet on Cisco IOS XE Denali 16.3.3 sometimes. CSCvf75518 Controller port error interface. CSCvf79255 Catalyst 3850- Cisco IOS XE Denali 16.3.3 sometimes. Cisco IOS XE Denali 16.3.2 and Cisco IOS XE Everest 16.6.1 images. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker/listeners are connected to different ASICs. CSCvf94632 AVB stream not forwarded when talker communication. The following are the resolved caveats in Cisco IOS XE Everest 16.6.1. CSCuw59595 Cannot get expected packet rate for PQ in output QoS policy. CSCvb91970 Switch Crash in the FED Process. CSCvc20807 16.3.3: MPLS over Macsec is not working. CSCvc63975 Ping fails with RSPAN configured when SRC and DEST (remote-span) vlans are allowed on the same trunk. CSCvc72794 16.3.3: SV: SV stack split to dual active randomly. CSCvc83011 WDAVC: cisco-jabber-audio & ms-lync protocol becomes unknown on WS-C3850. CSCvc85100 Should not install Policy Map that has a Table map action in police used with priority feature. CSCvc96706 Denali 16.3.2 not providing PoE after bouncing the port. CSCvc97252 PTP neighbor p-delay values are fluctuating b/w nano seconds to hours with Audio science MINI. CSCvd01545 MSTP is blocked on trunk when native vlan does not exist. CSCvd03465 Switch prevents updating MAC address in multi-host mode. CSCvd05280 DBM Crash on Active Switch while changing DCA channels. CSCvd20857 Stack may reload when making config changes. CSCvd20857 Stack may reload when making config changes. seen with node reload and link flap on the REP ring. CSCvd42535 "mtu 17892" is automatically created under LISP0 interface with system mtu cfg. CSCvd70351 MVPN: Traffic not resumed after switchover. CSCvd70351 MVPN: Traffic not resumed after switchover.

doesn't come up during boot, happens very infrequently. CSCve30033 WDAVC: FNF and WDAVC not functional. CSCve38240 iPXE: DHCPv4 user-class option should use Microsoft format instead of RFC3004 format CSCuz61879 Ports in new standby not mirrored SPAN/ERSPAN For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly What's New in Cisco Product Documentation, which also lists all new and revised Cisco Technical documentation, as an RSS feed and deliver content directly to your desktop using a read application. The RSS feeds are a free service. Cisco and the Cisco logo are trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R) © 2019 Cisco Systems, Inc. All rights reserved. Page 2 The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, or language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product. Learn more about how Cisco is using Inclusive Language. Page 3 A - B - C - D - E - I - L - M - N - O - P - R - S - U - V Index A Address Resolution Protocol adjacency tables, with CEF 1 aggregate addresses, BGP 1 static cache configuration 1 authentication keys, and routing protocols 1 autonomous systems, in BGP 1 B routing domain confederation 1 C Caching Source-Active State: Example command 1 Configuring multicast VRFs 1 Controlling Source Information that Your Switch Forwards: Example command 1 Configuring Source Information that Your Switch Originates: Example command 1 D Diffusing Update Algorithm (DUAL) 1 distance-vector protocols 1 distribute-list command 1 domains, ISO IGRP routing 1 DUAL finite state machine, EIGRP 1 E interface parameters, configuring 1 external neighbors, BGP 1 I ICMP Router Discovery Protocol Interior Gateway Protocol internal neighbors, BGP 1 administrative distances 1 configuring static routes 1 EtherChannel Layer 3 interface 1 MAC address and IP address protocols 1 L M metric translations, between routing protocols 1 packet-forwarding process 1 multiple VPN routing/forwarding in customer edge devices N neighbor discovery/recovery, EIGRP 1 NSAPs, as ISO IGRP addresses 1 O area parameters, configuring 1 P parallel paths, in routing tables 1 fast-switched policy-based routing 1 local policybased routing 1 protocol-dependent modules, EIGRP 1 with IP routing disabled 1 R reliable transport protocol, EIGRP 1 Reverse Address Resolution of information, OSPF 1 redistribution of information 1 routing domain confederation, BGP 1 Routing Information Protocol S stack changes, effects on U V in service provider networks 1 VRFs, configuring multicast 1 Page 4 When a source sends its first multicast packet, the first-hop router (designated router or RP) directly connected to the source sends a PIM register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. The RP uses the register message to the RP. 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The SA message identifies the source, the group the source is sending to, and the address of the RP or the originator ID (the IP address of the RP or the originator ID (the IP address), if configured. Each MSDP peer receives and forwards the SA message away from the originating RP to achieve peer reverse-path flooding (RPF). The MSDP device examines the BGP or MBGP routing table to discover which peer is called an RPF peer (reverse-path forwarding peer). The MSDP device forwards the message to all MSDP peers other than the RPF peer. For information on how to configure an MSDP peer when BGP and MBGP are not supported, see the Configuring a Default MSDP peers. If the MSDP peer toward the originating RP, it drops the message from a non-RPF peer toward the originating RP, it drops the message to all its MSDP peers. The RP for a domain receives the SA message from an MSDP peer. If the RP has any join requests for the group, and the group, and the RP triggers an (S,G) join toward the source's DR, a branch of the source tree has been built from the source to the RP in the remote domain. Multicast traffic can now flow from the source across the source tree to the RP and then down the shared tree in the remote domain to the receiver. Figure 1. MSDP Running Between RP Peers. This figure shows MSDP operating between two MSDP peers. PIM uses MSDP as the standard mechanism to register a source with the RP of a domain. When MSDP is configured, this sequence occurs. By default, the switch forwards the MSDP source or group pairs from received SA messages. When the switch does not cache source or group pairs from received source or group soon after an SA message is received by the local RP, that member needs to wait until the next SA messages to hear about the source. This delay is known as join latency. Local RPs can send SA requests and get immediate responses for all active sources for a given group. By default, the switch does not send any SA request messages to its MSDP peers when a new member joins a group and wants to receive multicast traffic. The new member waits to receive the next periodic SA messages to the specified MSDP peer when a new member joins a group.

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