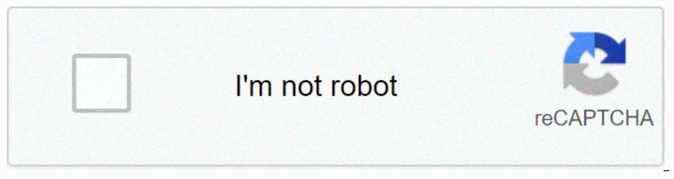

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Hp virtual connect firmware

Course summary This three-day course helps students identify, manage, and configure HP Virtual Connect components. An architecture overview ensures understanding of the Virtual Connect Ethernet, FlexFabric and Fibre Channel components and their function. Hands-on exercises provide configuration setup and a variety of network scenarios. Course goals At the end of this course, you should be able to: Identify HP BladeSystem Virtual Connect Ethernet and Fibre Channel modules Discuss VC Flex-10 Technology Access VC Manager Configure a VC Domain Plan Firmware Updates using HP Firmware Release Sets Installer VC Firmware Understand and Configure FlexFa FirmwareFormepoint and Configure FlexFa FirmwareForeate and Configure FlexFa Firmware and configure FlexFa firmwareForable and configure FlexFa firmwarenBric components Course contourModule 1: Virtual Connect Overview Describe the purpose of Virtual Connect in a data center Compare the differences between Virtual Connect and an Ethernet switch Describe how Virtual Connect configures the server Describe Virtual Connect Components Module 2: Virtual Connect Virtual Connect Components and Connectivity Identification Modules, ports and connectors Describe Virtual Connect Ethernet Failover Module 3: Virtual Connect Fiber Channel Select VC Fiber Channel Options Implement Server Side NPIV Understand VC Fiber Channel Login Balancing and Fail-over Module 4 : Introduction to Planning Virtual Connection Planning for Virtual Connection Basic Deployment Logical Flow to an Initial Installation Using CLI Virtual Connect Failover and Configuration Backup Module 5: Advanced Features of Virtual Connect Manager Features Virtual Connect Firmware History and Enhancements: Original VLANs Fast MAC Cache Failover SmartLink IGMP Snooping Port Monitoring PXE Settings Server VLAN Tag Mapping Private Network Mode Virtual Network Virtual Server I Integrity Server Integrated Channel Boot Parameters Channel Fabric SAN Support certificates/approvals VC domains with multiple enclosures Module 6: Virtual Connect Domain Virtual Connect Networking Definitions and Terminology Virtual Connect vNets VC Ethernet Best Practice Module 7: Virtual Connect Profile Configure VC Profiles using GUI and Script Module 8: Virtual Connect Enterprise Manager Managing Virtual Enterprise Connect Manager New in VCEM 6.2 VCEM Software Developers Toolkit (SDK) Module 9 : VC Flex-10 Overview HP VC Flex-10 Technology Flex-10 port tasks Flex-10 bandwidth allocation Flex-10 Network Configuration Module 10: VC Flex Fabric FlexFabric Definitions and Terminology HP VC FlexFabric Modules HP VC FlexFabric Adapters V C FlexFabric Fiber FlexFabric Fibre iSCSI VC FlexFabric Module Compatibility Converging Enhanced Ethernet Standards Fibre Channel over Ethernet Standards 11: Administration af VC Flex Fabric Module 12: HP BladeSystem Firmware Best Practices Forstå HP Firmware Release Initiative Brug HP Smart Update Manager Find HP BladeSystem Firmware Deploy Virtual Connect Firmware Firmware 13: Support for virtual connect-collects information from the Logs Perform Basic Virtual Connection Error Reset VC to Factory Default Settings Upgrade the VC 1/10 domain to Flex-10 Troubleshooting using Virtual Connect Support Utility Collect information Understand virtual connect stacking port functionality HPE This file contains the firmware for Virtual Connect FlexFabric, Virtual Connect Ethernet (VC-Enet), VC 8Gb 20 port FC, VC 8Gb 24-port FC modules, and VC 16Gb 24-port FC modules, and includes Virtual Connect management capability. Prerequisites:The latest version of hpe virtual connect release notes contains the prerequisites and can be found in the following URL: To ensure the integrity of your download, HPE recommends confirming your results with this SHA-256 Checksum value: ec40c53e8409aab1cb0e5eefd40ef3c56a512eef0eb2ff04c0cf3e3ecb5555 vcfwall450.bin Reboot Requirement: Restart is not required after installation for updates to take effect and hardware stability, to be maintained. Installation: Review OA Customer Advisory c02639172 immediately to see if there is a risk of recent changes in the cabinet configuration. If the changes were made by a non-administrator user account, the solution documented in c02639172 must be executed immediately before the next OA firmware upgrade or reset, and the solution documented in c02639172 must be performed immediately to ensure that the previous cabinet configuration changes are maintained. The problem described in c02639172 was solved with OA 3.21 or later. HPE requires HPE BladeSystem c-Class Virtual Connect Support Utility version 1.12.0 (or later) to install HPE VC-Enet version 4.50, HPE VC 8Gb FC version 3.05 firmware, and HPE VC 16Gb FC version 3.05 firmware. Read the latest release notes for the HPE BladeSystem c-Class Virtual Connect Support Utility. Be aware of a serious problem that could cause network crashes when you upgrade directly from the VC 2.xx version to the VC 4.50 version in the Multi-Enclosure environment. Upgrade from VC 2.xx to VC 3.70 or VC 4.10 first, then upgrade from VC 3.70 or VC 4.10 to VC 4.50 in a multi-chassis setup. For more information about installing the firmware, see the hpe BladeSystem c-Class virtual network support tool on the HPE (www.hpe.com/support/bladesystem/docs) web site. Note: Read the add-on section of the firmware upgrade guide release notes. End User License Agreements:HPE Software License Agreement v1 Upgrade Requirements:Recommended - HPE recommends that users be updated to this version as soon as possible. Note: The latest version of HPE Virtual Connect release notes is available in the following URL: devices funktioner:HPE Flex-10 10 Gb Virtual Connect Ethernet-modul til C-Class BladeSystem HPE Virtual Virtual FlexFabric 10 Gb/24 Port Module for C-Class BladeSystem HPE Virtual Connect 8Gb 24-port Fiber Channel module for c-class BladeSystem HPE Virtual Connect 8Gb 20-port Fibre Channel module for c-class BladeSystem HPE Virtual Connect Flex-10/1 0D Module for c-class BladeSystem HPE Virtual Connect FlexFabric-20/40 F8 Module for HP BladeSystem c-class HPE Virtual Connect 16Gb 24-port Fiber Channel Module for c-class BladeSystem Upgrade Requirement:Recommended - HPE recommends users update to this version as soon as possible. The latest list of issues that have been resolved is included in the HPE Virtual Connect release notes, which are included in the following URL: Version:4.85 (July 22, 2020) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The list of issues resolved in the 485 version is available in the HPE Virtual Connect release notes at the URL: Enhancements Version:4.80 (December 20, 2019) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The list of issues resolved in the 4.80 version is available in the HPE Virtual Connect release notes at the URL: Enhancements Version:4.75 (May 20, 2019) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The list of issues resolved in the 4.75 version is available in the HPE Virtual Connect release notes at the URL: Enhancements Version:4.63 (Oct 8, 2018) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The list of issues resolved in the 4.63 version is available in the HPE Virtual Connect release notes at the URL: Enhancements Version:4.62 (February 26, 2018) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The list of issues resolved in the 4.62 version is available in the HPE Virtual Connect release notes at the URL: Enhancements Version:4.61 (September 12, 2017) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. REMOTE: Virtual Connect firmware version 4.61 is no longer available for download due to a problem that could cause network crashes when Blade(s) or VC modules are restarted, reset, or switched with power. For more information a00029108en_us CA CA. Improvements Version:4.60 (12 Jul 2017) Fixes Upgrade Requirements: Recommended - HPE recommends that users update to this version as soon as possible REMOVED: Virtual Connect firmware version 4.60 is no longer available for because of a problem that can cause network crashes when Blade(s) or VC modules are restarted, reset, or cycled with power. For more information a00029108en_us CA CA. Improvements Version:4.50 (May 16, 2016) Fixes upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The latest list of issues that have been resolved is found in the HPE Virtual Connect release notes, which can be found in the following URL: Enhancements Version:4.45 (12 Aug 2015) Fixes Upgrade Requirements:Recommended - HPE recommends that users be updated to this version as soon as possible. The latest list of issues that have been resolved is available in the HPE Virtual Connect release notes, which are included in the following URL: Enhancements Version:4.41 (March 18, 2015) Resolves upgrade requirements:Recommended - HPE recommends that users be updated to this version as soon as possible. It is recommended to update to this version if you plan to use FIPS mode. The latest list of issues that have been resolved is available in the HPE Virtual Connect release notes, available in the following URL: Enhancements Version:4.40 (February 9, 2015) Fixes Improvements Version:4. 031 (7 Nov 2014) Fixes Upgrade Requirements: Optional - Users should update to this version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the enhanced features provided by this version. Fixed the following issues: Some Virtual Connect Flex-10/10D IO modules running HP Virtual Connect (VC) Firmware Version 4.20 or 4.30 may shut down due to a single occurrence of an erroneous high temperature reading from one of eight sensors on the module. See VC Customer Advisory c04459474 for more information. Updating to VC Firmware Version 4.30 may cause some or all networks to be unavailable, which may result in all uplink ports appearing as Linked Standby. For more information, see VC Customer Advisory c04422904. Servers that transmit too large pause frames may cause the Virtual Connect uplink port to experience channel beatings, link stacking, and loss of server communications. For more information, see VC Customer Advisory c02623029. Any network in use that is created in VC 4.2x or earlier may experience a one-time network interruption when applied to an assigned server profile for the first time in VC 4.30. See VC Customer Advisory c04492888 for more information. The latest list of issues that have been resolved is found in HP Virtual Connection Release Notes, which are listed in the User's Guide section of the following URL: Version:4.21 (Oct 3, 2014) Fixes Version:4.20 (11 Apr 2014) Fixes Version:4.10 (10 Sep 2013) Fixes Upgrade Requirements: Recommended - HPE recommends users update to this version as soon as possible. The latest list of issues that have been resolved is available in the VC 4.10 HP Virtual Connect release notes. Version:4.01 (10 Jun 2013) Fixes Version:3.75 (19 Feb 2013) Fixes Version:3.70 (4 Sep 2012) Fixes Version:3.62 (Jun 8 2015) Fixes Upgrade Requirements:Recommended - HP recommends users update to this version at their earliest. The latest list of issues that have been resolved is found in the HP Virtual Connect release notes, which are included in the following URL: Version:3.61 (4 Apr, 2014) Fix upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The latest list of issues that have been resolved is available in the HP Virtual Connect release notes, available in the User Guide section of the following URL: Version:3.60 (4 Jun 2012) Fixes Version: 3.51 (January 16, 2012) Resolves version:3.30 (September 7, 2011) Resolves upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. The latest list of issues that have been resolved is found in the HP Virtual Connect release notes, which are listed in the User Guide section of the following URL Virtual Connect firmware version 3.30 also provides a solution to the following problem. The following statements are included in the next update to the HP Virtual Connect release notes. Fixed an issue that could trigger a server to shutdown while restoring VC chassis (for example, when communication with OA is lost) for HP Integrity BL870c i2 and BL890c i2 Series Server Blades. During VC enclosure recovery, networks and SAN connections can potentially be taken down and then re-established exactly as they had been configured before the cabinet recovery. The interruption typically lasts less than a minute and can often be imperceptible. However, for Service Guard operations there is the potential that this problem will cause a heartbeat loss that triggers one of the servers (determined through a configuration priority) to shut down. Improvements New features: Command Line Interface Telemetry - New CLI commands to troubleshoot virtual connect system and network problems. Profile network access groups - Restricts server profile access to networks defined in Simplified iSCSI Startup Setup - Automatically download parameters from HP 4000 SAN solutions and connect to server profiles. Significantly reduces manual entries. Concurrent Contemporan and associated VLAN connections – Unique VLAN flexibility supports best practice requirements for virtualized servers. Increased mapped VLAN capacity – up to 1000 VLANs SUS from 128 and up to 162 VLAN to down-link from 28. Extended port status - Function to detect why a port does not currently have linked status. Gui Profile Wizard (Ethernet, iSCSI, FC, FCoE) Native IE8 only supports IGMPv3 Phase 1 IPv4 (no support for source-specific multicast) OS Initiated network loop detection and prevention - uses Cisco PVST BPDUs TACACS+/RADIUS Role-Based Security - User Authentication, Command Authentication, and Network And Storage Team Command Logging. Updated SNMP MIb's - Priority level added to all traps (alerts) to improve custom login screen support notification (typically a security message) Support for connections to support logs for H3C DACs Version:3.18 (29 Apr 2011) Corrects upgrade requirements:Recommended - HPE recommends that users update to this version as soon as possible. Firmware Dependency: OA: Minimum firmware version: 3.11 / Recommended version: 3.31 Generic firmware dependency is documented in HP Virtual Connect Release Notes. It can be found in the 'User's Guide' section under URL: contentType=SupportManual&lang=en&cc=us&docIndexId=64180&taskId=101&prodTypeId=3709945&prodSeriesId=3552695 Problems Fixed: • Fixed a problem, where a Virtual Connect domain with a large number of networks may experience an unstable network state when a VC Ethernet module is restarted under one of the following circumstances: * A power cycle (Off/On) from the built-in administrator * A reset/restart from the built-in administrator * A removal/reinstatement to Interconnect Bay Version:3.17 (21. 2011) Fixes problems fixed: • Fixed an issue where the primary VC module could not communicate with other modules due to a problem with the reverse DNS lookup when DNS is enabled in the VC infrastructure. • Fixed an issue where VCM GUI used HTTP instead of HTTPS. • Fixed an issue where changes to the SNMP configuration caused an outage. • Fixed an issue where updating renumbers while creating or assigning a profile caused a NO-COMM state. • Fixed a GUI issue in which renaming the associated network on the Edit Ethernet Network screen cleared the original property. • Fixed a GUI issue where clicking the Server Connections tab on the Ethernet Network screen showed a pop-up message that there are no server connections to display, even when there were server profiles with assigned networks. • Fixed a GUI issue where The server connection calculation status bar hung after you click the Server Connections tab on the Ethernet Network screen. • Fixed an issue where OA would go into NO-COMM mode when multiple VC Enet modules were reset at the same time and then reconfigured. The VC Ethernet module recovery algorithm has been optimized to restore Odd Page Modules and then Even page modules (previously a full reset/restore of all modules in parallel). Depending on the configuration of the domain, this network crash reduces or eliminates during a full chassis restore. • Solved loss of FC connection when an 8Gb/24-Port VC-FC Module receives a multi-sequence frame from an in band Storage Management application (application was performed on a server in c7000 chassis). Resulted in an 8Gb/24-Port FC Module reset and loss of FC connection. • Fixed an issue as the VC-FC 24-Port Module would not recover from a NO-COMM mode after an OA failover. The IP address of the FC module was not updated correctly and blocked the correct communication with the primary VC module. • Fixed an issue where VCM reported a NO-COMM mode for a VC-FC module, although the VC-FC module was still responding to a ping command. • Fixed an issue where information about the VC 8Gb/24 port FC modular firmware version was not displayed correctly on the OA rack firmware page. This decision requires OA version 3.30. • Fixed an issue with VC Manager not being able to retrieve the configuration generation number from the VC Ethernet module. • Fixed an issue where the network nativelan setting was cleared after adding another network. • Fixed an issue where hpvcm_deleteManagedObjects error in a return code occurred when you deleted a profile. • Fixed an issue that delayed the start time of an enclosure with eight Flex-10/FlexFabric modules. • Fixed a performance issue where adding a single network caused an update to all configured networks. • Fixed an issue where firmware information was not displayed in a Firefox browser window. • Fixed an issue where FCoE login took longer than expected when switching between drugs. • Fixed an issue where the VCM CLI command set enet-vlan did not return an error for the set enet-vlan VlanTagControl=Tunnel SharedServerVlanId=true command. • Fixed an issue with hp integrity BL8x0c i2 Series Server Blade where there was a problem disconnecting Flex-10 ports with I/O modules that do not support Flex-10, which may result in disabled network ports being displayed as enabled. • Fixed a GUI issue where titles on the Device Bay Summary screen were not displayed consistently. • Fixed an issue where an SNMP trap configuration with only FC traps is selected does not have an associated set of severity degrees. • Fixed an issue where no login redistribution error was specified for a crashed/failed SAN in external connections. • Fixed a GUI issue for HP Integrity BL8x0c i2 Series Server Blades where the records in the Server Ethernet Adapter Information table were not broken properly and extended. • Fixed an issue found in an Integrity FlexFabric environment where the HP-UX startup path was lost while a profile was distributed and redistributed. • Solved a problem for a race mode between module recovery and cabinet recovery when a cabinet was coming from a cabinet NO-COMM mode. • Fixed an issue when you recover from a module NO-COMM mode where the correct module mode is tracked correctly to avoid unnecessary errors with LANIO calls and GenNumber requests. • Fixed an FC module firmware issue where the VC 8Gb/24-port FC module firmware version appears as Not Available in OA, but VCM has the correct firmware version information. • Fixed an FC modular firmware issue in which the DHCP client in the VC 8Gb/24 port FC modular firmware was damaged, causing the FC module to stop responding to VCM, resulting in a NO-COMM mode. • Fixed an issue when VC modules coming out of NO-COMM mode may not be synchronized with each other, resulting in unexpected additional module failures. • Fixed a restriction where customers must place the VC domain in VCEM maintenance mode for support. • Fixed an issue where the GUI indicates that event management detection has expired and then the user is unexpectedly logged out of the GUI. • Fixed an FC connection outage due to an error in the Virtual Connect Flex Fabric primary module. While restoring the backup module, the error caused a full reset and virtual connect recovery that caused the crash. • Fixed an issue of increasing memory utilisation on HP VC Flex-10 10Gb Ethernet modules when blades are in a PXE boot loop. • Fixed an issue with a small memory error found in stpd when handling af-data update notifications. • Fixed an issue where a VC domain will enter NO-COMM mode after performing OA failover and then fail back. • Fixed an issue where the privacy filter rules were not updated when the Link Aggregation Group (LAG) membership changes. • Fixed an issue where when a module recovers from NO-COMM mode, stacking links will show failed status even if there is no real operational problem. • Made adjustment for the maximum RSS memory limit for graceful VC management process closure. Version: 3.15 (10 Nov 2010) Fixes Improvements / new features: Added support for HP VC 10 Gb/24 port module Added support for HP NC551m Dual Port FlexFabric 10Gb Converged Network Adapter. Added support for HP ProLiant BL2x220c G7 Server Blades. Added support for HP NC552m 10Gb 2-port Flex-10 Ethernet adapter. Added support for the HP NC542m Dual Port Flex-10 10GbE BL-c adapter. Added support for HP NC551i/m and NC553i Dual Port FlexFabric Adapter protocol personality change between FCoE and iSCSI. Added support for full iSCSI and TCP offload with NC551m FlexFabric adapters and FlexFabric/Flex-10 modules. Added support for iSCSI startup with NC551i/m FlexFabric adapters and FlexFabric/Flex-10 modules. Added support for HP ProLiant BL620c G7 Server Blade. Added support for HP ProLiant BL680c G7 Server Blade. Added support for hp NC553m 10Gb 2-Port FlexFabric Converged Network Adapter. Issues Resolved: Fixed an issue that could result in a network crash when a profile is created with duplicate multiple networks. This issue was resolved when Virtual Connect Manager (VCM) resets modules where port mirroring is enabled when VCM restarts and will cause network crashes. Fixed a problem was VC modules did not provide information about CPU, part number, etc. via Command Line Interface (CLI). Fixed an issue when using VC CLI, where a user cannot add LDAP groups with names that contain spaces. Fixed an issue when creating a multi-network profile that uses a Shared Uplink Set (SUS) without selecting networks. If this profile is applied to a server with Flex PCs, it will result in a segmentation error, VCM SEGV. Solving a problem was the 'About' HP VCM pop-up window was causing IE8 to crash, resulting in if the table does not appear. Fixed an issue with VCM SEGV when the user has a profile (with multiple networks defined in a connection without setting up a network), then edits the profile without making changes, and then applies the profile to a flex-10 LOM server. Known issues: In a double dense domain configuration, interconnectors 7 and 8 should not be used to create an FC Fabric. Instead, the substance should be created at bays 5 and 6. If a substance is created on bays 7 or 8 using VCMCLI, An incorrect error message may appear 'ERROR: Module not found' instead of 'ERROR: A substance must not be created with the specified space for a double sense configuration' When a Blade server port has defined multiple FlexNICs (one of them is defined as FCoE) and FCoE FlexNIC is deleted, the bandwidth is not redistributed to other active FlexNICs, even through the GUI, it displays. If the primary VC modules lose power or are removed, a profile status change trap is not sent as it should be. Solution: When the primary VC module loses power or is removed, the cpqHoSWRunninagStatusChangeTrap trap (defined in cpqhost.mib MIB) sent by the backup VC backup VC when it becomes primary. A sample trap is shown below: Enterprise Specific Trap (.11017) Uptime: 20 days, 2:54:46.44, SNMPv2-MIB::sysName.0 = STRING: bay2TC, SNMPv2-SMI::enterprises.232.11.2.11.1.0 = INTEGER: 10, SNMPv2-SMI::enterprises.232.11.2.6.1.1.2.1 = STRING: aus-c7000-13_vc_domain, SNMPv2-SMI::enterprises.232.11.2.6.1.1.3.1 = STRING: HP Virtual Connect Domain Manager, SNMPv2-SMI::enterprises.232.11.2.6.2.0 = STRING: VCM Domain status trap, SNMPv2-SMI::enterprises.232.11.2.6.1.1.4.1 = STRING: 3.15, SNMPv2-SMI::enterprises.232.11.2.6.1.1.12.1 = INTEGER: 4, SNMPv2-SMI::enterprises.232.11.2.6.1.1.13.1 = INTEGER: 5, SNMPv2-SMI::enterprises.232.11.2.6.1.1.14.1 = STRING: VcD_6f54796e7543, SNMPv2-SMI::enterprises.232.11.2.6.1.1.15.1 = INTEGER: 2 The two MIB OIDs in the trap above to analyze are: enterprises.232.11.2.6.1.1.13.1 enterprises.232.11.2.6.1.1.15.1 These OIDs will contain the following values when the Backup VC module has become the Primary: cpqHoSWRunningConfigStatus : operational(5) cpqHoSWRunningRedundancyMode : master(2) When upgrading from a pre-3.00 VC release, if Fibre Channel SNMP traps were defined with DNS type of the Trap Destination address when the SNMP settings upgrade is complete, they are not applied to the VC-FC modules. Solution: Edit all FC SNMP trap destinations using GUI or CLI that have a DNS name for the trap destination, and change the DNS name to an IPv4 address. After Virtual Connect assigns a server profile to a server, the ROM-based Deployment Tool (RBSU) cannot change the protocol configuration (iSCSI/FCoE) for a network adapter (including 551m), even if the network adapter is not connected to a Virtual Connect module. Any protocol configuration changes must be made when the server profile is not assigned to the server. Improvements Improvements /New Features: Added support for HP VC FlexFabric 10Gb/24 Port Module. Added support for hp NC551m Dual Port FlexFabric 10Gb Converged Network Adapter. Added support for HP ProLiant BL2x220c G7 Server Blades. Added support for HP NC552m 10Gb 2-port Flex-10 Ethernet adapter. Added support for the HP NC542m Dual Port Flex-10 10GbE BL-c adapter. Added support for HP NC551i/m and NC553i Dual Port FlexFabric Adapter protocol personality change between FCoE and iSCSI. Added support for full iSCSI and TCP offload with NC551m FlexFabric adapters and FlexFabric/Flex-10 modules. Added support for iSCSI startup with NC551i/m FlexFabric adapters and FlexFabric/Flex-10 modules. Added support for HP ProLiant BL620c G7 Server Added support for HP ProLiant BL680c G7 Server Blade. Added support for hp NC553m 10Gb 2-Port FlexFabric Converged Network Adapter. Version:3.10 (Sep 9, 2010) Fixes • Fixed an issue where Internet Group Management Protocol (IGMP) is only processed by VC on 1. • Fixed IGMP query-Tx issues when IGMP joins grp 01:00:5e:00:00:00:01. • Improved VC Manager recovery mechanism to ensure that a chassis serial number is validated after an OA firmware upgrade while VC Manager is recovering the domain. • Fixed an issue where VC Ethernet modules running v2.30 or later may unexpectedly lose the stacking connection due to CPU-generated data traffic, such as a loss of data. • Fixed an issue where the VC Manager demon process would occasionally end and cause network crashes due to a segmentation error after a failover treatment. It also resolved the issue documented by the following Customer Advisory c02463297. • Fixed an issue where an OA Apache Web Server hanging can cause VC Manager to crash while assigning the server profile to a device space. VCM error handling has been improved to handle this error state correctly. • Fixed an issue where an OA Apache Web Server hang could cause a miscommunication between OA and VCM and therefore force VCM to perform steps leading to a temporary loss of Ethernet and SAN connection. This is due to VC's inability to detect current physical server state in the enclosure with unresponsive OA Apache web server. • Fixed an issue with VC-FC 4/8Gb 20port modules where during an attempt to register with the DNS server, an update request would fail causing VC-FC modules to write a record in one of the system logs. Depending on the frequency of dhcp lease expirations, this log may cause the root file system to take up to 100 capacity. VC-FC firmware 1.41 prevents the error log message from filling the root file system. • Fixed an issue when you change the automatic power management settings on the iLO and then close or start the blade server, causing the VCM to display the connection reset notification or timeout for the connection. • Fixed an issue when taking a support dump, some older model of SFP modules will be affected and will result in link down situation. This correction also addresses Customer Advisory c02465022. • Fixed an issue where Dot1dBasePortMTUExceedDiscard's statistics were increased even with jumbo frames enabled. • Fixed an issue where HP Insight Orchestration Software (HP IO) implementation may stop responding with continuous looping on the target server with the error message 'Boot device is being configured by Virtual Connect' Improvements Improvements And New Features: • Support for HP ProLiant BL 460c G7 Server Blades • HP ProLiant BL 490c G7 Server Blades Support • HP NC522m Flex-10 10GbE Multifunction BL Adapter Support • Removed VCM Primary/Secondary VC Requirements interconnection modules must be placed in I/O slots 1 and 2 • Support for full iSCSI and TCP offload with NC551i FlexFabric adapters and Flex-10 modules • Support for the iSCSI boot with NC551i FlexFabric adapters and Flex-1 0 modules • Support for iSCSI boot with NC553i FlexFabric adapters and Flex-10 modules • Support for Brokade 804 8Gb FC hBA for HP BladeSystem c-class • Allows you to display Fibre Channel and Ethernet port statistics via VCM CLI Version:3.01 (VCM CLI) June 21, 2010) Fixes Improvements Improvements / New Features : •Support ProLiant BL 465c G7 Server •Support ProLiant BL 685c G7 Server •NC550m Dual Port Flex-10 10GbE BL-c Adapter Version:3.00 (17. May 2010) Adjusts Upgrade Requirements :Recommended - HPE recommends that users be updated to this version as soon as possible. Important Notes: Read the latest version of HP Virtual Connect release notes. This can be found in the User Guide section under the URL: Fixed: 1. Fixed a problem was pre-existing Virtual Server IDs on a blade server will not be cleared when the blade server is inserted into a enclosure with existing profiles that does not contain virtual MACS, WWNs, or server IDs. 2. Solved a problem was jumbo frames are incorrectly reported as ifInErrors.Known Issues: 1. When VC is used and BL870c i2 or BL890c i2 servers are present, after an OA reset OA occasionally will end up displaying factory version WWNs and MIC's for the additional blades in a multi-blade server, even if there are VC-assigned values. Note that this issue does not affect the server's function, the magazines have and will work with the correct VC-assigned WWNs and MAC addresses. The solution to get OA in synch with VCM is to close the server (if it is running), remove the assignment of VC profile, assign the VC profile and start the server. 2. In Virtual Connect release 3.00, the server administrator cannot change the IGMP Snooping settings. This known issue is related to authentications from the server administrator user in the security token that is transferred between Virtual Connect software components. This issue will be resolved in a later version of Virtual Connect. The current solution is for the server administrator to log on as Administrator uses to change the IGMP Snooping settings. 3. In some cases, it has been shown that ports have WWNs that are actually in use by other ports. The user will need to look at the server profile page to be sure which mezzanine ports are really in use. This issue will be resolved in a future Virtual Connect version. 4. Multiple or unsupported versions of Adobe Flash Player cause the Firefox web browser to crash. On some combinations of Firefox web browser, Adobe Flash Player, and operating system, Adobe Flash Player will cause the Firefox web browser to crash unexpectedly – especially if there are multiple versions of the Flash Player Plugin installed with Firefox, or if there is an older/unsupported version of flash player plugin (eg Flash v8.0) installed with Firefox, although the older/unsupported version of Plugin Flash is disabled. It is recommended that Virtual Connect 3.00 users install only 1 supported version of the Adobe Flash Player Plugin with their Firefox web browser. 5. Depending on the installed versions of Firefox, Adobe Flash Player, and OS (e.g. Combination of Firefox v3.5.9, Adobe Flash v9.0/v10.0, on GNU Linux v2.6.9), some fixes from Adobe to Adobe Flash Player may be required. For the latest information about fix fixes from Adobe for Flash Player Plugin, visit the Adobe web site (. Also, users may experience problems with the Firefox browser hanging or crashing and then showing failed to create MSXML object errors. This is a known problem with XSLT transformations in Firefox. See the information on the following URL is about downloading and installing a patch for your specific version of the Firefox browser on this Mozilla website (or this Mozilla website (. 6. If the VC domain is configured for dual close server mode and a profile is assigned to an empty server space, and then a hot connector on a single dense server in that server space will result in the profile not being activated. Restore is to remove the assignment of the profile and reassign it. Improvements Improvements/new features: 1. Support for HP integrity BL8x0C i2 series server blades. 2. IE8 is supported under IE7 compatibility mode. 3. Up to 128 networks in a shared link set. 4. Do NOT advise against the AT GUI/CLI firmware update feature. VCSU 1.5.0 or later is the only supported firmware update mechanism. Version: 2.34 (24 Sep 2010) Fixes Upgrade Requirements: Optional - Users should update to this version if their system is affected by one of the documented fixes or if there is a desire to utilize any of the improved of this version. HP recommends that customers move to VC 3.01 or later firmware for the latest features and fixes. However, for customers who need a delay migration to VC 3.xx for operational reasons, firmware version 2.34 is recommended for systems affected by any of the documented fixes below. Important Notes: Read the latest version of HP Virtual Connect release notes. This can be found in the User Guide section under the URL: recommend that customers move to VC 3.01 or later firmware for the latest features and fixes. However, for customers who need a delay migration to VC 3.xx for operational reasons, firmware version 2.34 is recommended for systems affected by any of the documented fixes below. Issues resolved: • Fixed an issue where IGMP Joins was only processed by Virtual Connect (VC) on the first VLAN when a PF has multiple associated VLANs. • Fixed an issue where IGMP joining grp 01:00:5e:00:00:01 would cause IGMP Query Tx problems. • Fixed an issue where the VCM demon process would occasionally end and cause a network crash due to a segmentation error after a failover treatment. This fix also resolved the issue documented by Customer Advisory c02463297. • Fixed an issue where a VC crash would occur while assigning a server profile to a server space. • Fixed an issue where a VC network crash would occur due to the inability to detect the condition of physical servers. • Fixed an issue where changing the automatic power management settings on iLO and then closing or starting the blade server would cause VCM to display a connection reset or connection timeout message. • Fixed an issue where VC Ethernet modules running VC 2.30 or later may unexpectedly lose the stacking connection due to CPU-generated data traffic, e.g. • Fixed a problem that occurred when taking a support dump, some older SFP module models were affected and would result in a

link down situation. Improvements Version: 2.33 (May 3, 2010) Fixes Version:2.32 (Jan 28, 2010) Fixes Version:2.31 (6 Nov 2009) Fixes Version:2.30 (Oct 1, 2009) Fixes Upgrade Requirements: Critical - HPE requires users update to this version immediately. The following issue has been resolved in Virtual Connect v2.30: Fixed an issue on VC Flex-10 Ethernet modules where Link Aggregation Groups (LAG) cannot be formed with more than 40 GB of total throughput. With this fix, VC Flex-10 Ethernet modules can support LAGs with a unified up to 80GB. Solved a one with some server links associated with the VC Flex-10 Ethernet module that cannot be connected under certain chassis/server configurations. The effect of this fix is that it may take another 30 seconds for a VC Flex-10 Ethernet module to become ready after the first power-on of the module. Fixed an issue for VC 8Gb 24-Port FC Modules when a VC Fabric has all uplink ports in an offline mode and one of the uplink ports comes back online. VC 8 Gb 24 port modules now reconfigure the server connection to the online uplink port. Fixed an issue for VC 8Gb 24-Port FC modules that could not link server connections to a newly added uplink port to a VC Fabric that already has all uplink ports in offline mode. Fixed an issue for VC 8Gb 24-Port FC modules to generate SNMP traps to indicate that the parameters have changed when any of the SNMP configuration parameters change. Fixed an issue for VC 8Gb 24-Port FC modules, so the SNMP System Contact string can now be less than four characters. Fixed a problem for VC 8Gb 24-Port FC Modules to function properly after a VC domain deletion. SAN connection is allowed for all servers in the chassis, regardless of whether a server has previously been assigned a server profile. Fixed an issue for VC 8Gb 24-Port FC modules that did not fill in the SNMP MibStatus Array correctly. Fixed an issue for VC 8Gb 24-Port FC modules so that the server/port logons can occur under the default port group configuration. The VC-Enet version 2.30 enhancements include the following features: Support for the HP Virtual Connect 8Gb 20-Port Fiber Channel module. 8Gb configuration and operation are supported only by G6 or later server generation. SNMP Enhancements: Added limited extensions for already supported MIBs Added SNMP traps for Ethernet port mode Changes Added SNMP traps to key, Predefined threshold conditions Support new MIB/traps for important VC domain elements Supports both SNMPv1 and SNMPv2 traps (by trapdestination) Trap destinations Type of traps to be sent to the destination level(s) of traps to be sent to the destination type/class to be sentDee items do not include user configuration of trapping limits. Added support for dynamic changes to FlexNICs. Servers no longer need to be turned off to change a FlexNIC for its bandwidth, link mode, and network/VLAN assignment. In addition, flexnic link mode is now accurately reported in VCM GUI. Increased the maximum number of VLANs allowed for an uplink port (or port set) from 64 to 128. Support for the BL495c G6 and BL465c G6 SERVER BLADES. Support for the new HP code signing process. Supports the ability to connect two VC domains (SE or ME) by connecting their uplinks directly (no contact between) to form a private network. Version:2.12 (21 Aug 2009) Corrections Following has been resolved in Connect v2.12: Fixed an issue with some server links associated with a VC Flex-10 Ethernet module may not be able to link under certain chassis/server configurations. Customers who do not use HP Virtual Connect Flex-10 10Gb Ethernet modules or are not having trouble connecting do not need to update to Virtual Connect v2.12. Improvements No new features are enabled in HP BladeSystem c-Class Virtual Connect Firmware version 2.12. Version:2.10 (27 Apr 2009) Fixes Upgrade Requirements: Critical - HPE requires users update to this version immediately. The following issues have been resolved in Virtual Connect v2.10: Resolved a potential VC GUI hang if internet browser is used and an uplink port cable is pulled from a VC Ethernet module. Fixed a few unexpected pop-up error messages that may appear on the VC GUI when the VC GUI browser was open on the profile page and a server was turned on. Fixed an issue that caused servers that used FC to lose SAN connectivity when the primary OA module (Onboard Administrator) is reset. Fixed a memory error in the VC Manager demon that was triggered when both Onboard Administrator (OA) modules were absent. Fixed issues that caused CLI to end ssh sessions and log the user out when CTRL-C was entered in the middle of the CLI command execution. Improvements VC-Enet version 2.10 includes the following features: Support for Multi-Chassis Virtual Connect Domain This feature allows support for stacked chassis that allows you to manage up to four c7000 enclosures in a single Virtual Connect domain for a total of up to 64 servers or 128 servers in a dual-range mode. Increased number of Virtual Connect networks (64) per shared uplink set. Support for HP Virtual Connect 8 Gb 24 port-Fibre Channel module. NOTE: 8Gb configuration and operation are supported only by G6 servers. Servers.

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