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Contivity Configuration Manager v2.2 System Release Notes



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Introduction

These release notes, which describe the latest enhancements and changes to the Contivity Configuration Manager* (CCM) software, supplement the Contivity Configuration Manager documentation set. Read these notes before you install or use the software.

Supported drivers

Contivity Configuration Manager supports the following drivers:

- Contivity 4.7x and 4.8x
- Contivity Branch Access 7.2 (formerly Instant Internet)
- Contivity 221
- Contivity 251

Models supported are Contivity 100, 400, 600, 1010, 1050, 1100, 1500, 1600, 1700, 1750, 2500, 2600, 2700, 4500, 4600, and 5000.

For driver specific information, see *Contivity Configuration Manager v2.2 Cartridge Release Notes*.

New features in this release

New features in CCM 2.2 include:

- 1750 platform supported
- Contivity Security Accelerator Card — A card supported by Contivity 5000. Support includes increased encryption throughput, improved compression performance, 3DES and AES-128 support in hardware, ISAKMP and IPsec encryption key generation for Group 1, 2, and 5, and True Random number generation. You can find card configuration information on the Properties > Accelerator tab.
- Advanced Encryption Standard (AES) for User Tunnels — An enhancement to the Contivity Advanced Encryption Standard feature. Contivity has supported AES-128 for Branch Office tunnels, and the Contivity VPN Client (CVC) has supported DES and 3DES. This enhancement adds AES-128 and AES-256 support for Client Tunnels in Contivity and CVC. Use of AES-128

for IPsec encryption and IKE Encryption with Diffie-Hellman Group8, Group5, and Group2 is now allowed. In addition, use of AES-256 for IPsec encryption and for IKE Encryption with Diffie-Hellman Group8, Group5, and Group2 is now allowed.

- Gigabit Ethernet Fiber & Copper — Provides configuration support for the Contivity 5000 onboard LAN ports, the 1000 BASE-SX PCI interface card, and the 1000 BASE-T PCI interface card.
- 802.1Q Interface VLAN — Routes traffic between Virtual Local Area Networks.
- Configurable MTU and TCP MSS Clamping — Supports configurable Physical Interface MTU, configurable effective tunnel MTU for IPsec, configurable effective MTU PPP for L2TP, L2F, and PPTP, ICMP RFC compliance, TCP MSS Clamping per interface, and DF Bit behavior compliance with RFC 2401.
- QoS Guarantee Bandwidth for each Application — An enhancement to Contivity QoS, which provides the option of dropping data that exceeds configured Traffic Conditioning Assured Forwarding rates. With this enhancement, Contivity now supplies guaranteed bandwidth based on Diffserv code points, enabling the customer to offer a service that guarantees a fixed percentage of total bandwidth to each of several applications.
- Inverse Split Tunneling — Provides the capability to enable or disable Inverse Split Tunneling on a per-group basis, and to control the networks to which the inverse split tunneling allows access to outside of the tunnel.
- LDAP special character — Provides configuration support needed for allowing certificate subject DN's to be created that include previously not allowed special characters, such as a comma.
- IPsec Mobility — Provides configuration support for enabling and disabling IPsec Mobile. Also provides configuration for enabling and disabling Mobile IPsec Persistence as well as configuration for Roaming Time and Session Persistence Time parameters.
- Internal DHCP for IP Address Pools — A default pool can be used to provide addresses when the preferred pool is exhausted or unavailable. The default fail over control enables/disables use of the default pool. Named pools are also supported. The pool name for the user/group profile can be used to select which of the internal DHCP Server's pools a local address comes from.

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- Data Link SWitching (DLSW) — Provides a standards-based mechanism for reliably transporting connection-oriented Systems Network Architecture (SNA) and Network Basic Input/Output System (NetBIOS) data across a network. DLSW can be accessed only if a valid key is installed.
 - LDAP proxy enhancement for travelers — Provides configuration support for advanced setup for User Certificate Access.
 - Stateful Firewall TCP rule enforcement ICMP service — Supports Stateful Firewall TCP rule enforcement ICMP service.
 - Dynamic Administrator Password Authentication — Provides dynamic password support for administrative users. When enabled, administrative users are forced to authenticate via RADIUS which, if configured, can then forward authentication credentials to a dynamic password authentication system. The Administrative Privileges tab under Profiles > Users contains the enabling checkbox.
 - Backup and Restore — The Backup and Restore tool (BNR) provides a central place for the storage and full control of the backup and restore operations for each of your Contivity devices.
 - Firewall Policy Manager — The Firewall Policy Manager (FPM) tool provides a way to configure all your Contivity devices' firewall policies from a central location. If you need to add a rule to either permit, or prevent, or control a certain type of communication on a large number of your Contivity devices, you can do that from a single location in one step.

Installation notes

This section provides supplemental information about installing the Contivity Configuration Manager software. For complete information about installation requirements and installation tasks, see *Installing Contivity Configuration Manager*.

Known Anomalies in 2.2

No known anomalies at publication.

Operational notes

This section provides operational notes for the Contivity Configuration Manager release.

General issues and recommendations

- CCM supports multiple login sessions for a particular user ID. You can use this feature so that first-level support engineers can log in with one user ID, second-level support engineers can log in with another user ID, and so on. Note, however, that the audit log records information based on user ID. Therefore, in this scenario, you could determine only the level of the engineer who performed a particular task; you would not be able to determine the identity of the particular engineer who performed a particular task.
- If you change the settings on the system clock, you must restart the CCM server and client software; otherwise, CCM continues to operate based on the old clock settings.
- In order to perform Import/Export functions, the Contivity device must be configured to allow FTP sessions.

Auto-detecting drivers

You must enable SNMP and FTP in the devices in order to auto-detect and configure Contivity devices in CCM.

Timeout errors when importing device configurations

When you import and export configurations to and from devices on the network, CCM waits for a response from the device. If the timeout period (which is device-dependent) expires and CCM has not received a response from the device, CCM displays a timeout error message.

To increase or decrease the timeout period for a device, open its Properties dialog box and click the Import or Export tab. Change the timeout period and click OK.

In some situations (for example, over a busy WAN connection), the default timeout period might not be sufficient to receive a response from a device. In these

situations, you can increase the timeout variable. You can set the timeout variable for devices on the Import tab and the Export tab for each device.

Renaming a device and reimporting from TFTP

When you rename a device after you import its configuration from the network, the information in the Re-import from TFTP dialog box reflects the new name. Therefore, before you can reimport a configuration from TFTP, you must do one of the following:

- Export to TFTP after you change the device name.
- Update the TFTP file name in the Re-import from TFTP dialog box.

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