Release Notes for Cisco Enhanced Device Interface 2.1.1

September 25, 2007

These release notes support the release of Cisco Enhanced Device Interface 2.1.1.

Contents

This document includes the following topics:

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Introduction

Cisco E-DI provides a comprehensive management interface for configuration of Cisco devices.

Cisco E-DI offers interfaces with network devices through the command line interface (CLI) or a Graphical User Interface (GUI).

Cisco E-DI 2.1.1 includes the following new features:

1. Integration with Windows OS, with a new installation and uninstallation procedure.
2. The Apache Derby database is used in place of the MySQL database.
3. IDU packages are installed using the **load-idu** commands in the server configuration submode.
4. A Cisco CatOS to Cisco IOS conversion tool is provided to help Cisco Catalyst 6500 users migrate their CatOS devices to Cisco IOS. The tool is available in the CLI console and the GUI.

Since Cisco E-DI will share the system resources with other applications running on Windows, it will not have control over the resources available (specifically RAM) on the target machine. Because of this, Cisco E-DI 2.1.1 has the following default settings:

- Maximum number of devices it can manage is set to 5 by default.
- Cisco E-DI limits the number of IDUs loaded to those it finds in the running configuration.

These defaults can be changed.

Installation

Refer to the *Cisco E-DI 2.1.1 Readme for Windows* for details to install, configure and start using Cisco E-DI.

Incremental Device Updates

IDUs allow Cisco E-DI to be updated with support for new device packages.

The device packages listed in Table 2 are included in this build.

To add device packages from CCO, the Cisco E-DI administrator can login to CCO, specify the Cisco E-DI version, and download the files for the device packages. See http://www.cisco.com/kobayashi/sw-center/sw-netmgmt.shtml. Once the required device package files are downloaded, they can be copied to Cisco E-DI, and installed using the maintenance shell. Refer to *Cisco E-DI Quick Start Guide 2.1* for details of the installation process.

Known Caveats With This Release

Open Caveats

Table 1 Open Caveats

Identifier	Title	Impact	Workaround
CSCeh77656	In group config mode, the interface selection behavior is inconsistent.	Interface selection is not allowed in group config mode, except in the interface configuration.	Do the same operation on individual devices.
CSCeh94947	The device status shows offline when SNMP connectivity fails but Telnet connectivity exists.	Device status is misleading.	Check SNMP credentials on Cisco E-DI configuration and on the NE.
CSCsc34466	Even if a device is locked, the users that are already in edit mode can continue to perform configuation changes.	User who acquires a lock may see a cached configuration if the other user who is in edit mode commits changes to the device configuration.	None.
CSCsd01701	The command **show mac-address-table** does not show static MAC table entries.	User will only see dynamic MAC table entries using this command.	User can use **exec-cmd** to see the static entries in the CLI output from the device.
CSCsd38141	In the network mode, device locks are not released when a device is unmanaged.	When a device is unmanaged and managed again, the locks from the previous session would remain.	Use **clear lock** to clear the previous locks.
CSCse13755	Cisco E-DI does not start if all available IDUs in CCO are loaded using load-idu all.	Cisco E-DI service is not started.	Based on available memory, load only required IDU packages.
CSCse20997	The **show label**, and **clear label** commands are not working.	Cannot clear or view existing labels.	None.
CSCse26113	**server max-devices n** will manage only (n-1) devices.	When max-device is reached, one device will be offline.	None.
CSCse45529	The **load-idu all** command, followed by a single idu load overwrite loads all IDUs.	All expected IDU packages are not loaded.	**load-idu all** to be used as the final command.
CSCse54471	An existing opened VCE GUI session does not work after the Cisco E-DI service is restarted.	Cannot continue to use same VCE session after Cisco E-DI service is restarted.	VCE needs to be closed and launched again.

Known Limitations with IDUs

Cisco IOS Devices

The following are known limitations with the Incremental Device Updates (IDUs) for the Cisco IOS devices listed in Table 2:

1. Implicit support provides a super-set/sub-set CLI of what is supported on a particular device type.
2. The following commands are not supported in network config mode:
   a. do
   b. define
   c. interface range
   d. default
   e. help
3. Only the following commands are supported in network exec mode:
   a. clear
   b. clock
   c. erase
   d. show
   e. write
4. Complete syntax checking for some commands in the following scenarios may be not be available:
   a. access-list (syntax checks available to depth 7)
   b. redistribute (syntax checks available to depth 5)—The user will see a customized node WORD with description Command Parameters. This node will accept any syntax, and will recurse to an infinite depth.
5. Some commands may not have a <cr>. This can occur for deprecated commands or any Cisco IOS commands that need special handling.
6. Hidden commands supported by Cisco IOS will not be supported through Cisco E-DI.

CatOS Devices

The following are known limitations with the Incremental Device Updates (IDUs) for the Cisco CatOS devices listed in Table 2:

1. Implicit support provides a super-set/sub-set CLI of what is supported on a particular device type.
2. Only the following commands are supported in network config mode:
   a. set
   b. clear
   c. commit
3. Only the following commands are supported in network exec mode:
   a. show
   b. history

c. disconnect
d. reconfirm
e. reset
f. slip
g. switch
h. rollback

4. Complete syntax checking for some commands in the following scenarios may not be available:
   a. set vlan <vlan> name
   b. set security acl—The user will see a customized node WORD with description Command Parameters. This node will accept any syntax and will recurse to an infinite depth.
5. Some commands may not have a <cr>. This can occur for deprecated commands or any CatOS commands that need special handling.
6. Hidden commands supported by CatOS will not be supported through Cisco E-DI.
7. Interactive commands that require user input after a carriage-return is typed will not be not supported. For example:
   - issc-6509-2> (enable) set password
   - issc-6509-2> (enable) set enablepass

Devices Supported by Cisco E-DI

Complete device support can be accessed using the Cisco E-DI server command **show server known-devices**.

Cisco E-DI 2.1.1 supports the following Cisco PIX Firewall devices:

- Cisco PIX Firewall 501
- Cisco PIX Firewall 506E
- Cisco PIX Firewall 515E
- Cisco PIX Firewall 525
- Cisco PIX Firewall 535

The device packages listed in Table 2 are included in this build.

Note When additional device packages are supported, they will be made available through CCO.

Table 2 IDUs Available on Cisco E-DI Product CD-ROM and CCO

IDU	OS Version	IDU Version
Cat2950	Cisco 12.1(13)EA1c	1.1
Cat3550	Cisco 12.1(14)EA1a, 12.1(22)EA2	1.2
Cat3750	Cisco 12.1(19)EA1a	1.1
Cat4000	Cisco 12.1(19)EW1	1.1

Table 2 IDUs Available on Cisco E-DI Product CD-ROM and CCO (continued)

IDU	OS Version	IDU Version
Cat6500	Cisco 12.1(11b)E1, 12.2(17d)SXB6, 12.2(18)SXE3, 12.2(18)SXF	1.4
Cat6500CatOS	Cisco 7.6(6), 8.5(1)	1.2
Cat6500Firewall	Cisco 3.1(1)	1.1
CiscoPIX500	Cisco 7.0(4)	1.1
Cisco12000	Cisco 12.0(27)S5	1.1
Cisco1700	Cisco 12.2(15)T14, 12.3(8)T6	1.3
Cisco1800	Cisco 12.3(11)T5	1.1
Cisco2600	Cisco 12.1(17), 12.2(24a), 12.3(10e)	1.4
Cisco2800	Cisco 12.3(11)T7	1.1
Cisco3700	Cisco 12.3(6e)	1.1
Cisco3800	Cisco 12.3(11)T3	1.1
Cisco7200	Cisco 12.2(13)T14	1.2
Cisco7600	Cisco 12.2(18)SXD4	1.1
Cisco800	Cisco 12.3(8)T7	1.1
CiscoAP350IOS	Cisco 12.3(4)JA	1.1
IAD2400	Cisco 12.3(11)T7	1.1
IDUBase	Cisco N/A	1.6

Devices Not Supported by Cisco E-DI

Not all the devices in a customer network may have IDU support. An asterisk (*) next to the device IP address in the **show devices** output indicates that IDU support is not available for that device.

Related Documentation

Refer to the following publications for additional information:

- Cisco *Enhanced Device Interface Quick Start Guide, 2.1*
- Cisco *Enhanced Device Interface User's Guide, 2.1*
- Cisco *IDU Read-me Files*

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

http://www.cisco.com/techsupport

You can access the Cisco website at this URL:

http://www.cisco.com

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Product Documentation DVD

The Product Documentation DVD is a comprehensive library of technical product documentation on a portable medium. The DVD enables you to access multiple versions of installation, configuration, and command guides for Cisco hardware and software products. With the DVD, you have access to the same HTML documentation that is found on the Cisco website without being connected to the Internet. Certain products also have .PDF versions of the documentation available.

The Product Documentation DVD is available as a single unit or as a subscription. Registered Cisco.com users (Cisco direct customers) can order a Product Documentation DVD (product number DOC-DOCDVD= or DOC-DOCDVD=SUB) from Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Ordering Documentation

Registered Cisco.com users may order Cisco documentation at the Product Documentation Store in the Cisco Marketplace at this URL:

http://www.cisco.com/go/marketplace/

Nonregistered Cisco.com users can order technical documentation from 8:00 a.m. to 5:00 p.m. (0800 to 1700) PDT by calling 1 866 463-3487 in the United States and Canada, or elsewhere by calling 011 408 519-5055. You can also order documentation by e-mail at tech-doc-store-mkpl@external.cisco.com or by fax at 1 408 519-5001 in the United States and Canada, or elsewhere at 011 408 519-5001.

Documentation Feedback

You can rate and provide feedback about Cisco technical documents by completing the online feedback form that appears with the technical documents on Cisco.com.

You can submit comments about Cisco documentation by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you will find information about how to:

- Report security vulnerabilities in Cisco products.
- Obtain assistance with security incidents that involve Cisco products.
- Register to receive security information from Cisco.

A current list of security advisories, security notices, and security responses for Cisco products is available at this URL:

http://www.cisco.com/go/psirt

To see security advisories, security notices, and security responses as they are updated in real time, you can subscribe to the Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed. Information about how to subscribe to the PSIRT RSS feed is found at this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you have identified a vulnerability in a Cisco product, contact PSIRT:

- For Emergencies only—security-alert@cisco.com

  An emergency is either a condition in which a system is under active attack or a condition for which a severe and urgent security vulnerability should be reported. All other conditions are considered nonemergencies.
- For Nonemergencies—psirt@cisco.com

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532

Tip We encourage you to use Pretty Good Privacy (PGP) or a compatible product (for example, GnuPG) to encrypt any sensitive information that you send to Cisco. PSIRT can work with information that has been encrypted with PGP versions 2.*x* through 9.*x*.

Never use a revoked or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one linked in the Contact Summary section of the Security Vulnerability Policy page at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

The link on this page has the current PGP key ID in use.

If you do not have or use PGP, contact PSIRT at the aforementioned e-mail addresses or phone numbers before sending any sensitive material to find other means of encrypting the data.

Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your reseller.

Cisco Technical Support & Documentation Website

The Cisco Technical Support & Documentation website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, at this URL:

http://www.cisco.com/techsupport

Access to all tools on the Cisco Technical Support & Documentation website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

http://tools.cisco.com/RPF/register/register.do

Note Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support & Documentation website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI tool offers three search options: by product ID or model name; by tree view; or for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco engineer. The TAC Service Request Tool is located at this URL:

http://www.cisco.com/techsupport/servicerequest

For S1 or S2 service requests, or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)
EMEA: +32 2 704 55 55
USA: 1 800 553-2447

For a complete list of Cisco TAC contacts, go to this URL:

http://www.cisco.com/techsupport/contacts

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—An existing network is down, or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operations are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of the network is impaired, while most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- The *Cisco Product Quick Reference Guide* is a handy, compact reference tool that includes brief product overviews, key features, sample part numbers, and abbreviated technical specifications for many Cisco products that are sold through channel partners. It is updated twice a year and includes the latest Cisco offerings. To order and find out more about the Cisco Product Quick Reference Guide, go to this URL:

  http://www.cisco.com/go/guide

- Cisco Marketplace provides a variety of Cisco books, reference guides, documentation, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:

  http://www.cisco.com/go/marketplace/

- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

  http://www.ciscopress.com

- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:

  http://www.cisco.com/packet

- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:

  http://www.cisco.com/go/iqmagazine

  or view the digital edition at this URL:

  http://ciscoiq.texterity.com/ciscoiq/sample/

- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

  http://www.cisco.com/ipj

- Networking products offered by Cisco Systems, as well as customer support services, can be obtained at this URL:

  http://www.cisco.com/en/US/products/index.html

- Networking Professionals Connection is an interactive website for networking professionals to share questions, suggestions, and information about networking products and technologies with Cisco experts and other networking professionals. Join a discussion at this URL:

  http://www.cisco.com/discuss/networking

- World-class networking training is available from Cisco. You can view current offerings at this URL:

  http://www.cisco.com/en/US/learning/index.html

This document is to be used in conjunction with the documents listed in the "Related Documentation" section.