

## Cisco Enhanced Device Interface 2.2

PB342589

Cisco® announces Cisco Enhanced Device Interface (EDI) 2.2, providing new enhancements for device configuration and troubleshooting. Cisco Enhanced Device Interface is accessible through an intelligent command-line interface (CLI) and an Extensible Markup Language programmatic interface (XML PI).

Cisco Enhanced Device Interface is an external implementation of the network element interface and provides two major features: an enhanced CLI user interface and an XML PI. The CLI user interface is a CLI-like command emulator with added features and enhanced for usability; it allows the user to manage multiple network elements from a single location, individually or as a group. The exposed CLI is based on the CLI of the managed network element; in this release, Cisco IOS® Software, Cisco PIX® OS, and Cisco Catalyst® OS CLIs are supported.

The purpose of the XML PI in Cisco Enhanced Device Interface is to provide a programmatic interface to be used by management applications for configuring Cisco devices. The programmatic interface has a well-defined set of operations based on the IETF NETCONF Internet draft along with a supporting data model defined using the XML schema language. Customers that configure and monitor devices through scripting tools and do not wish to make use of the data model may continue to use CLI commands as payload in the management operations supported over the XML PI.

Cisco Enhanced Device Interface is aimed to increase end-user as well as management application-developer productivity in the areas of device configuration and troubleshooting. Table 1 describes the features of Cisco Enhanced Device Interface 2.2.

**Table 1.** Features of Cisco Enhanced Device Interface 2.2

Feature	Description
<b>OS parser emulation (CLI syntax check command context validation)</b>	This feature helps eliminate common user errors.
<b>Grouping capability</b>	This capability allows for the definition of administrative domains. Access control can be performed at the administrative domain level. This feature simplifies configuration and administrative tasks.
<b>Group least common denominator CLI (that is, a common CLI)</b>	This feature allows users to perform group operations without the possibility of generating an unsupported command.
<b>Context-based CLI</b>	This capability allows users to simultaneously apply changes to one or more devices by simply selecting the context. It provides a single point for network configuration.
<b>Macro CLI</b>	Helps enable users to push commands to various types of platforms (Cisco Catalyst OS, Cisco IOS Software, and Cisco PIX OS) that have variation in CLI commands.
<b>GUI applications</b>	Eclipse-based GUI applications: Config Manager, Macro Command Manager, Command Translator, Command Analyzer, Command Modeler
<b>XML programmatic interface, IETF NETCONF operations</b>	The standards-based interface promotes consistency.
<b>XML command data model</b>	Command structure and syntax can be programmatically read; simplifies interaction with Cisco devices.

<b>Operational data model</b>	Provides applications with an XML interface to retrieve from network elements the operational data that is available through the CLI show commands. Allows you to create a model specification file, an XML file, and an XSD.
<b>Configuration compliance</b>	Provides Cisco EDI with the capability to verify the configuration commit. It displays details about the success or failure of the configuration on the given network.  This helps you ensure that the configuration commit is successful and complies with the candidate configuration.
<b>XML PI Java SDK</b>	Provides Java APIs over XML PI. Cisco EDI provides Java client API libraries that take Java objects as inputs and return Java objects; you can use these APIs to develop your own applications. You can also use these APIs in existing applications.

## Availability

Cisco Enhanced Device Interface 2.2 will begin shipping May 10, 2007.

## Cisco EDI Software Download Information

To download the Cisco EDI 2.2 software, perform the following steps:

Step 1. Go to <https://upload.cisco.com/cgi-bin/swc/fileexg/main.cgi?CONTYPES=ccu-forum>.

Step 2. Log in with your authorized Cisco username and password.

Step 3. Go to the Cisco Enhanced Device Interface 2.2 Release Table. This table contains the following zip files:

- E-DI.2.2-Windows.zip – Windows E-DI Installation (Server and Client Apps)
- E-DI.2.2-Linux.zip – Linux E-DI Installation (Server and Client Apps)
- E-DI.2.2-Documentation.zip – E-DI user documents for Windows and Linux
- E-DI.2.2-ClientApps.zip – E-DI GUI applications for Windows and Linux

Step 4. Download the required zip files.

Please send an e-mail to [cs-edi@cisco.com](mailto:cs-edi@cisco.com) if you have questions relating to Cisco Enhanced Device Interface.

## For More Information

For additional product information, visit <http://www.cisco.com/en/US/products/ps6456/index.html> or contact your local Cisco account representative.



**Americas Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
[www.cisco.com](http://www.cisco.com)  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883

**Asia Pacific Headquarters**  
Cisco Systems, Inc.  
168 Robinson Road  
#28-01 Capital Tower  
Singapore 068912  
[www.cisco.com](http://www.cisco.com)  
Tel: +65 6317 7777  
Fax: +65 6317 7799

**Europe Headquarters**  
Cisco Systems International BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
[www-europe.cisco.com](http://www-europe.cisco.com)  
Tel: +31 0 800 020 0791  
Fax: +31 0 20 357 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

©2007 Cisco Systems, Inc. All rights reserved. CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc. Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website 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. (0704R)