



# ALI Formatting Tool User Guide for SBC Ameritech

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## **Preface**

The preface describes who should read this publication and provides the document conventions.

The preface includes the following topics:

- · Purpose, page v
- · Audience, page vi
- · Related Documentation, page vi
- · Obtaining Documentation, page viii
- Obtaining Technical Assistance, page x

# **Purpose**

The Automatic Location Information Formatting Tool (AFT) enables you to modify the automatic location information (ALI) records that you create in Cisco Emergency Responder to a format that is compatible with the one used by your service provider.

The ALI Formatting Tool User Guide provides you with the information that you need to understand, install, use, and troubleshoot the ALI Formatting Tool (AFT).

## **Audience**

Network engineers, system administrators, and telecommunications engineers should review this guide to learn the steps that are required to install, use and troubleshoot AFT. You should be familiar with Cisco Emergency Responder and Cisco CallManager before deploying AFT.

## **Related Documentation**

For information about Cisco CallManager and additional information about Cisco Emergency Responder (Cisco ER), refer to these publications:

- These Cisco Emergency Responder documents are available at: http://www.cisco.com/univercd/cc/td/doc/product/voice/respond/index.htm
  - Release Notes for Cisco Emergency Responder
  - Cisco Emergency Responder Administration Guide
  - Cisco Emergency Responder User's Guide (also built into the end-user interface as the Cisco ER online help system)
- Cisco CallManager documents are available at: http://www.cisco.com/univercd/cc/td/doc/product/voice/c\_callmg/index.htm

# **Online Help and Document Conventions**

The ALI Formatting Tool User Guide is built into the end-user interface as the AFT online help system. AFT's online help system provides task-oriented help that is available from the AFT window.

The help system includes an index and is organized the same way as the *ALI Formatting Tool User Guide*.

- Using the Online Help, page vii
- Document Conventions, page vii

## Using the Online Help

You can access online help in any of these ways:

- From the Help menu, access the contents of the online help system by selecting Help>Contents and Index or by clicking on the Help icon, a question mark.
- For a printed version of the manual associated with the application, or to view
  or search an Adobe Acrobat version of the help system, click the View PDF
  button in the top frame of the help system. If you have Adobe Acrobat
  installed (either as an independent application or as a plug-in to your
  browser), the document opens.

From Acrobat, you can search the entire manual, print the entire manual or selected pages, or read the manual online.

## **Document Conventions**

This publication uses the following conventions:

| Convention           | Description   |  |
|----------------------|---|--|
| boldface font        | Commands and keywords are in <b>boldface</b> .  |  |
| italic font          | Arguments for which you supply values are in italics.   |  |
| string               | A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks. |  |
| screen font          | Terminal sessions and information the system displays are in screen font.   |  |
| boldface screen font | Information you must enter is in boldface screen font.  |  |
| italic screen font   | Arguments for which you supply values are in <i>italic</i> screen font.   |  |
| Action>Reports       | Command paths in a graphical user interface (GUI).  |  |

Notes use the following convention:



Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

Cautions use the following convention:



Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

# **Obtaining Documentation**

Cisco provides several ways to obtain documentation, 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 on the World Wide Web at this URL:

http://www.cisco.com/univercd/home/home.htm

You can access the Cisco website at this URL:

http://www.cisco.com

International Cisco websites can be accessed from this URL:

http://www.cisco.com/public/countries\_languages.shtml

## **Documentation CD-ROM**

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

http://www.cisco.com/en/US/partner/ordering/ordering\_place\_order\_ordering\_t ool\_launch.html

All users can order monthly or quarterly subscriptions through the online Subscription Store:

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

## **Ordering Documentation**

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es\_inpck/pdi.htm

You can order Cisco documentation in these ways:

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  - http://www.cisco.com/en/US/partner/ordering/index.shtml
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, U.S.A.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

## **Documentation Feedback**

You can submit comments electronically on Cisco.com. On the Cisco Documentation home page, click **Feedback** at the top of the page.

You can e-mail your comments to bug-doc@cisco.com.

You can submit comments 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.

# **Obtaining Technical Assistance**

Cisco provides Cisco.com, which includes the Cisco Technical Assistance Center (TAC) website, as a starting point for all technical assistance. Customers and partners can obtain online documentation, troubleshooting tips, and sample configurations from the Cisco TAC website. Cisco.com registered users have complete access to the technical support resources on the Cisco TAC website, including TAC tools and utilities.

### Cisco.com

Cisco.com offers a suite of interactive, networked services that let you access Cisco information, networking solutions, services, programs, and resources at any time, from anywhere in the world.

Cisco.com provides a broad range of features and services to help you with these tasks:

- · Streamline business processes and improve productivity
- · Resolve technical issues with online support
- · Download and test software packages
- Order Cisco learning materials and merchandise
- Register for online skill assessment, training, and certification programs

To obtain customized information and service, you can self-register on Cisco.com at this URL:

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

## **Technical Assistance Center**

The Cisco TAC is available to all customers who need technical assistance with a Cisco product, technology, or solution. Two types of support are available: the Cisco TAC website and the Cisco TAC Escalation Center. The type of support that you choose depends on the priority of the problem and the conditions stated in service contracts, when applicable.

We categorize Cisco TAC inquiries according to urgency:

- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration.
   There is little or no impact to your business operations.
- Priority level 3 (P3)—Operational performance of the network is impaired, but most business operations remain functional. You and Cisco are willing to commit resources during normal business hours to restore service to satisfactory levels.
- Priority level 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operations are negatively impacted by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.
- Priority level 1 (P1)—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.

#### Cisco TAC Website

The Cisco TAC website provides online documents and tools to help troubleshoot and resolve technical issues with Cisco products and technologies. To access the Cisco TAC website, go to this URL:

http://www.cisco.com/tac

All customers, partners, and resellers who have a valid Cisco service contract have complete access to the technical support resources on the Cisco TAC website. Some services on the Cisco TAC website require a Cisco.com login ID and password. If you have a valid service contract but do not have a login ID or password, go to this URL to register:

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

If you are a Cisco.com registered user, and you cannot resolve your technical issues by using the Cisco TAC website, you can open a case online at this URL:

http://www.cisco.com/tac/caseopen

If you have Internet access, we recommend that you open P3 and P4 cases online so that you can fully describe the situation and attach any necessary files.

#### Cisco TAC Escalation Center

The Cisco TAC Escalation Center addresses priority level 1 or priority level 2 issues. These classifications are assigned when severe network degradation significantly impacts business operations. When you contact the TAC Escalation Center with a P1 or P2 problem, a Cisco TAC engineer automatically opens a case.

To obtain a directory of toll-free Cisco TAC telephone numbers for your country, go to this URL:

http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml

Before calling, please check with your network operations center to determine the Cisco support services to which your company is entitled: for example, SMARTnet, SMARTnet Onsite, or Network Supported Accounts (NSA). When you call the center, please have available your service agreement number and your product serial number.

# Obtaining Additional Publications and Information

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

 The Cisco Product Catalog describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:

http://www.cisco.com/en/US/products/products\_catalog\_links\_launch.html

• Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: Internetworking Terms and Acronyms Dictionary, Internetworking Technology Handbook, Internetworking Troubleshooting Guide, and the Internetworking Design Guide. For current Cisco Press titles and other information, go to Cisco Press online at this URL:

#### http://www.ciscopress.com

Packet magazine is the Cisco quarterly publication that provides the latest
networking trends, technology breakthroughs, and Cisco products and
solutions to help industry professionals get the most from their networking
investment. Included are networking deployment and troubleshooting tips,
configuration examples, customer case studies, tutorials and training,
certification information, and links to numerous in-depth online resources.
You can access Packet magazine at this URL:

#### http://www.cisco.com/go/packet

 iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:

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

- 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/en/US/about/ac123/ac147/about\_cisco\_the\_internet\_protocol\_journal.html
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:

http://www.cisco.com/en/US/learning/le31/learning\_recommended\_training list.html

Obtaining Additional Publications and Information



# Overview of ALI Formatting Tool

The Automatic Location Information Formatting Tool (AFT) enables you to modify the automatic location information (ALI) records that you create in Cisco Emergency Responder to a format that is compatible with the one used by your service provider.

Cisco Emergency Responder (Cisco ER) helps you manage emergency calls in your telephony network. Emergency Responder tracks a system's phones and locations and exports this information in ALI records that conform to National Emergency Number Association (NENA) 2.0, 2.1, and 3.0 formats. However, many service providers do not use NENA standards. You can use AFT to modify the Emergency Responder-generated ALI records according to service provider-specific formats. That service provider then uses the reformatted file to update their ALI database.

The *ALI Formatting Tool User Guide* provides you with the information that you need to understand, install, use and troubleshoot AFT. Service provider-specific information is described in the appendix.



SBC Ameritech does not use additional service provider-specific fields. See Appendix A, "Using the ALI Formatting Tool for SBC Ameritech" for information on when you need to change the Function Code.

These topics provide an overview of Emergency Responder and the ALI formatting tool:

- Overview of Enhanced 911, page 1-2
- Overview of the ALI Formatting Tool, page 1-3
- Understanding E911 and Emergency Responder Terminology, page 1-4

## Overview of Enhanced 911

Cisco Emergency Responder (Cisco ER) helps you manage emergency calls in your telephony network so that you can respond to these calls effectively and so that you can comply with your local ordinances concerning the handling of emergency calls. In North America, these local ordinances are called "enhanced 911," or E911. Other countries and locales might have similar ordinances.

Enhanced 911 (E911) extends the basic 911 emergency call standard to make it more reliable.

In basic 911 in North America, if a caller dials 911, the call is routed to a *public safety answering point* (PSAP), also called the 911 operator. The PSAP is responsible for talking to the caller and arranging the appropriate emergency response, such as sending police, fire, or ambulance teams.

E911 extends this standard with these requirements:

- The emergency call must be routed to the local PSAP based on the location of the caller. In basic 911, the call simply needs to be routed to some PSAP, not necessarily the local one.
- The caller's location information must be displayed at the emergency operator's terminal. This information is obtained by querying an *automatic location information* (ALI) database.

In E911, the location of the caller is determined by the *emergency location identification number* (ELIN), which is a phone number the PSAP can dial to reconnect to the emergency caller if the emergency call is cut off for any reason, or if the PSAP simply needs to talk to the caller again. The emergency call is routed to the PSAP based on the location information associated with this number. For multi-line phone systems, such as an office system, the ELIN can be associated with more than one telephone by grouping the phones in an *emergency response location* (ERL). In this case, the location the PSAP receives would be

the address of an office building. For large buildings, the location would include additional information such as floor or region on a floor. Each ERL requires a unique ELIN.

#### **Related Topics**

- Overview of the ALI Formatting Tool, page 1-3
- Understanding E911 and Emergency Responder Terminology, page 1-4

# Overview of the ALI Formatting Tool

The ALI Formatting Tool (AFT) reads the automatic location information (ALI) file generated by Cisco Emergency Responder (Cisco ER) and displays all the ELIN records in the AFT interface. You can use AFT to:

- Easily view the details of the ALI records. ALI files are difficult to read in the NENA fixed-length format. AFT reads the ALI files and presents the NENA fields in an interface that is easy to read.
- Select a record and update the value for ALI fields. AFT allows you to edit
  the ALI fields to customize them to meet the requirements of different service
  providers. You service provider can then read the reformatted ALI files and
  use them to update their ELIN records.
- Perform bulk updates on multiple ALI records. Using the bulk update feature, you can apply common changes to all the records that you have selected, to one area code, or to one area code and one city code.
- Selectively export ALI records based on Area Code, City Code or a 4-digit
  Directory Number. By selecting to export all the ALI records in an Area
  Code, for example, you can quickly access all the ELIN records for each
  service provider allowing you to easily support multiple service providers.

#### Related Topics

- Overview of Enhanced 911, page 1-2
- Understanding E911 and Emergency Responder Terminology, page 1-4
- Chapter 3, "Using the ALI Formatting Tool"

# **Understanding E911 and Emergency Responder Terminology**

Table 1-1 defines some of the key terminology used in this document.

Table 1-1 E911 and Emergency Responder Terminology

| Term             | Definition   |
|------------------|--|
| ALI              | Automatic location information. Information that ties an ELIN to a location, and is used to route emergency calls from that ELIN to the correct local PSAP. Information that is presented to the PSAP to help the PSAP locate the emergency caller. In Emergency Responder, you fill in ALI data for each ERL, and submit the ALI data to your service provider for inclusion in the ALI database. |
| ANI              | Automatic number identification. ANI is another name for ELIN.   |
| CAMA             | Centralized automated message accounting. An analog phone trunk that connects directly to an E911 selective router, bypassing the PSTN.  |
| DID              | Direct inward dial. A telephone number obtained from your service provider that can be used to dial into your telephone network. DIDs are used for ELINs.  |
| ELIN             | Emergency location identification number. A phone number that routes the emergency call to the local PSAP, and which the PSAP can use to call back the emergency caller. The PSAP might need to call the number if the emergency call is cut off, or if the PSAP needs additional information after normally ending the emergency call. See ALI.   |
| emergency call   | A call made to the local emergency number, such as 911. Emergency Responder routes the call to the service provider's network, where the call is routed to the local public safety answering point (PSAP).   |
| emergency caller | The person who places the emergency call. The caller might require help for a personal emergency, or might be reporting a more general emergency (fire, theft, accident, and so forth).  |
| ERL              | Emergency response location. The area from which an emergency call is placed. This is not necessarily the location of the emergency. If an emergency caller is reporting a general emergency, the actual emergency might be in a different area. In Emergency Responder, you assign switch ports and phones to ERLs, and ERL definitions include ALI data.   |

Table 1-1 E911 and Emergency Responder Terminology (continued)

| Term | Definition  |
|------|---|
| ESZ  | Emergency service zone. The area covered by a given PSAP. This area usually includes several police and fire departments. For example, a city and its suburbs might be serviced by one PSAP.  |
|      | Each ESZ is assigned a unique emergency service number (ESN) to identify it.  |
| MSAG | Master street address guide. A database listing of all valid street address ranges within a community, the contents of which is typically managed by a local government organization. The MSAG database service can be managed by a local government organization, an incumbent local exchange carrier, or by a database service provider (often the same as the ALI database service provider).    |
| NENA | National Emergency Number Association. The organization that recommends data and file formats for ALI definitions and other emergency call requirements in the United States. Emergency Responder uses the NENA formats for ALI data export files. Your service provider might have additional restrictions on data format, so ensure that your ALI entries abide by your service provider's rules. |
| PSAP | Public safety answering point. This is the organization that receives emergency calls, for example, the 911 operator. The PSAP is staffed by people trained in handling emergency calls. The PSAP talks to the emergency caller and notifies the appropriate public service organizations (such as police, fire, or ambulance) of the emergency and its location.                                   |

■ Understanding E911 and Emergency Responder Terminology



# Installing the ALI Formatting Tool

Use these topics to install ALI Formatting Tool (AFT):

- System Requirements, page 2-1
- Installing the ALI Formatting Tool, page 2-2

## **System Requirements**

The ALI Formatting Tool (AFT) requires the following software components to operate:

- Cisco Emergency Responder 1.1 (Cisco ER) or later
- Microsoft Windows 2000

The ALI Formatting Tool (AFT) supports all hardware platforms supported by Emergency Responder. Refer to the *Cisco Emergency Responder Administration Guide* for Cisco ER-supported Cisco Media Convergence Server (MCS) hardware platforms.



You must install AFT on the same server with Cisco ER.

#### **Related Topics**

• Installing the ALI Formatting Tool, page 2-2

# Installing the ALI Formatting Tool

The ALI Formatting Tool (AFT) is downloadable from the Internet. To install AFT, perform the following steps:

#### **Procedure**

Step 1 Start the Cisco MCS or Cisco certified server and log in to Windows 2000.

Step 2 Use a web browser to access the following URL:

http://www.cisco.com/cgi-bin/tablebuild.pl/aft

**Step 3** Download the AFT installation file that is specific to your service provider.

The AFT .exe files are named as shown here:

CER-aft-< service provider>.< main release>-< minor release>

-<maintrelease>.exe

where *serviceprovider* is the name of your Service Provider

and maintrelease, minorrelease and maintrelease make up the AFT release number.

For example, to select the SBC Ameritech AFT, click on:

**CER-aft-SBC** Ameritech.1-1-1.exe

Step 4 Double-click on the downloaded file to launch the installer.

The Welcome to the ALI Formatting Tool (AFT) Installation Wizard screen appears.

Step 5 At this point, the installation checks for the presence of Cisco ER 1.1 or later.

If Cisco ER 1.1 or later is not present, you are prompted to install it. The installation of AFT will not continue until Cisco ER 1.1 or later is present.

Step 6 Click Next.

The License Agreement Screen appears.

Step 7 Select Accept and click Next.

The User Information Screen appears.

Step 8 Enter the user name and organization information and click Next.

- **Step 9** Select administrator rights by clicking on one of the following choices:
  - For me
  - · For all who use the computer
- Step 10 Click Next.

The Ready to Install screen appears.

- Step 11 Click Next.
- Step 12 To test that the application successfully loaded, install the new shortcut path and launch the AFT application. Go to:
  - a. Start > Programs > Cisco Emergency Responder > AFT > <serviceprovider (NENA version)>

For SBC Ameritech, go to:

Start > Programs > Cisco Emergency Responder > AFT > SBC Ameritech (NENA 2.0)

The AFT login screen appears.

b. To log in to AFT, enter your Cisco ER Main Administrator or ERL Administrator login ID and Password.

#### **Related Topics**

- System Requirements, page 2-1
- Chapter 3, "Using the ALI Formatting Tool"

Installing the ALI Formatting Tool



# **Using the ALI Formatting Tool**

This section provides information about how to use the ALI Formatting Tool (AFT):

- Using the ALI Formatting Tool Interface, page 3-1
- Using AFT to Generate a Formatted ALI File, page 3-7

# **Using the ALI Formatting Tool Interface**

To familiarize yourself with the AFT interface, select the pull-down menus from the AFT main menu to see the options. Hold your mouse over each AFT icon to view the icon description in the tool tip box.

These topics will help you become familiar with the AFT interface:

- ALI Formatting Tool Fields, page 3-2
- Using the Tool Bar and Icons, page 3-3

## **ALI Formatting Tool Fields**

You can edit the following fields using AFT:

- The header and trailer fields. The ALI Formatting Tool (AFT) displays all the ALI record data in the ALI tab. The ALI file consists of one header record and one trailer record only; there is not an individual header and trailer record for each ELIN record.
- The Function/Transaction Code field. Refer to the Appendix A, "Using the ALI Formatting Tool for SBC Ameritech" for more information.
- Any service provider-specific fields. SBC Ameritech does not have any service provider-specific fields.

You cannot edit the following fields using AFT:

- The ALI records fields that you configure and edit through Cisco Emergency Responder (Cisco ER). They are disabled (greyed out) in AFT.
- The record count field. This trailer field cannot be edited in AFT because AFT calculates this number internally based on the number of records selected to export.

#### **Related Topics**

- Using the Tool Bar and Icons, page 3-3
- Before You Generate Files, page 3-7
- Generating a Formatted ALI File, page 3-8

## **Using the Tool Bar and Icons**

Use Table 3-1 to learn how you use the AFT interface to perform the main AFT tasks.

Use the "Generating a Formatted ALI File" section on page 3-8 for a step-by-step procedure about putting the tasks together and generating reformatted ALI files.

Table 3-1 Using the AFT Interface

| Task                             | Procedure   | Notes  |
|----------------------------------|---|--|
| Give a NENA file as input to AFT | <ul> <li>Use one of these methods:</li> <li>Click the File Open icon.</li> <li>Select Menu &gt; File &gt; Open (Ctrl+O).</li> </ul> | If the NENA files are on the Master CER server and AFT is installed on the Standby CER server, you can use the Open Window Dialog box to browse to a shared Master CER folder.                                     |
| Go to a specific ELIN number     | <ol> <li>Select Menu &gt; File &gt; Go to ELIN (Ctrl+E).</li> <li>Enter the ELIN number.</li> </ol>                                 | If the ELIN is present, it is selected in the tree and the ALI tab is populated with data for that record.  If it is an invalid record number, a message displays with the valid range of numbers.                 |
| Go to a specific record          | <ol> <li>Select Menu &gt; File &gt; Go to Record<br/>Number (Ctrl+R).</li> <li>Enter the record number.</li> </ol>                  | If the record number is valid, that record is selected in the tree and the ALI tab is populated with data for that record.  If it is an invalid record number, a message displays with the valid range of numbers. |

Table 3-1 Using the AFT Interface (continued)

| Task   | Procedure                                  | Notes  |
|--|--|--|
| View ALI details for an ELIN/Select an ELIN to edit its ALI fields | Click on the ELIN in the tree.             | This highlights the ELIN and populates its details in the right pane of the window.  |
|  |  | You can then edit the ALI records by entering new values in the ALI editable fields. |
| Undo record change/Redo record change                              | Use one of these methods:                  | The Undo/Redo option remembers the last 20 record changes.                           |
|  | • Click the Undo/Redo icon.                |  |
|  | • Select Menu > Edit > Undo                |  |
|  | record/Redo record change (Ctrl+Z/Ctrl+Y). |  |
| Cut/Copy/Paste record input  | Use one of these methods:                  |  |
|  | • Click the Cut/Copy/Paste icon.           |  |
|  | • Select Menu > Edit >                     |  |
|  | Cut/Copy/Paste<br>(Ctrl+X/Ctrl+C/Ctrl+V).  |  |
|  | (CIFI+A/CIFI+C/CIFI+V).                    |  |

Table 3-1 Using the AFT Interface (continued)

| Task   | Procedure   | Notes  |
|--|---|--|
| Select ALI records to be exported to your service provider | <ul> <li>In the tree, click in the ELIN check box.</li> <li>Use one of the following options:</li> <li>Select all ELINs in the tree by checking the root node of the tree.</li> </ul> | Check marks will indicate the ELINs that are selected.                     |
|  | • Select all ELINs with a specific area code by checking the Area Code in the tree. For example, checking the 408 check box will select all the numbers in the 408 area code.         |  |
|  | • Select all ELINs with a specific City Code by checking the City Code in the tree. For example, clicking on 228 will also select 228-9333 and 228-5672.                              |  |
|  | • Select an individual ELIN by checking the 4-digit directory number, for example, 9933.  |  |
| Generate Formatted File                                    | Use one of the following methods:  • Click the Generate Formatted File icon.  | AFT generates an ALI file in a format that your service provider can read. |
|  | • Go to Menu > Tools and click<br>Generate Formatted File (Ctrl+G).   |  |

Table 3-1 Using the AFT Interface (continued)

| Task                         | Procedure  | Notes  |
|------------------------------|--|--|
| Perform a bulk update to the | 1. Use one of these methods:   | The bulk update feature  |
| ALI files                    | - Click the <b>Bulk Update</b> icon.   | saves the changes automatically.   |
|                              | <ul><li>Select Menu &gt; Tools &gt; Bulk<br/>Update (Ctrl+B).</li></ul>  |  |
|                              | AFT displays the bulk update form.   |  |
|                              | 2. Select one of the following options:  |  |
|                              | <ul> <li>To apply the changes to all records, click the first tab, Apply All.</li> </ul>   |  |
|                              | <ul> <li>To apply the changes to one area code, click the second tab,</li> <li>Apply by Area Code.</li> </ul>                                  |  |
|                              | <ul> <li>To apply the change to one area<br/>code and one city code, click the<br/>third tab, Apply by Area Code<br/>and City Code.</li> </ul> |  |
| Save updates to the ALI file | Select Menu > Tools > Save Record (Ctrl+S).  | The new value is saved and displayed in the interface.   |
|                              |  | If you modify an ALI record<br>but do not save the changes,<br>an alert asks if you want to<br>save the changes. |
| Close AFT                    | Select Menu > File > Exit.   | If you try to close AFT without saving changes, AFT asks if you want to generate a formatted file.               |

### **Related Topics**

- ALI Formatting Tool Fields, page 3-2
- Using AFT to Generate a Formatted ALI File, page 3-7

# Using AFT to Generate a Formatted ALI File

Use the following topics to generate a formatted ALI file:

- Before You Generate Files, page 3-7
- Generating a Formatted ALI File, page 3-8

## **Before You Generate Files**

Make sure you have completed the following tasks before you begin to use AFT to generate an exported file:

- You have installed, set up and used Cisco Emergency Responder (Cisco ER) to configure ERLs with the ELIN and ALI information and to generate a NENA file. For information on performing these tasks, refer to the Cisco Emergency Responder Administration Guide.
- You have successfully installed, launched and tested AFT. See Chapter 2, "Installing the ALI Formatting Tool,"
- You understand which specific information you modify for your service provider. For details, see Appendix A, "Using the ALI Formatting Tool for SBC Ameritech."

## Generating a Formatted ALI File

To use AFT to generate a formatted file, perform the following steps:

#### **Procedure**

- Step 1 Provide a NENA file generated by Cisco Emergency Responder (Cisco ER) as input to AFT in one of these ways:
  - Select **Menu** > **File** > **Open** (**Ctrl**+**O**) and browse to select the file name.
  - Use the File Open icon and enter the file name.



If the NENA files are on the Master Cisco ER server and AFT is installed on the Standby Cisco ER server, you can use the Open Window Dialog box to browse to a shared Master Cisco ER folder.

AFT displays all the ELINs from the NENA file in a tree box in the left side of the page by the Area Code, City Code and 4-digit directory number.

- Step 2 To view details of the ALI files, click on an ELIN in the tree.

  This highlights the ELIN and populates its details in the right pane of the window.
- Step 3 Edit the ALI fields by entering new values in the editable fields.
- Step 4 Save any changes that you made to the ALI file:

Select Menu > Tools > Save Record (Ctrl+S).

- Step 5 Select the ELINs that you want to export to the service provider by clicking in the corresponding check boxes in the tree.
  - To select all ELINs in the tree, check the root node of the tree.
  - To select all ELINs with a specific area code, click in the Area Code check box in the tree. For example, clicking the 408 check box will select all the numbers in the 408 area code. All the 408 numbers display check marks.
  - To select all ELINs with a specific City Code, click in the City Code check box. For example, selecting 228 will also select 228-9333 and 228-5672.
  - To select an individual ELIN, click in the 4-digit check box, for example, 9933

Check marks will indicate the ELINs that are selected.

**Step 6** Update the service provider-fields in AFT:

For details about the service provider-specific information required, see Appendix A, "Using the ALI Formatting Tool for SBC Ameritech."

- Step 7 At this point, if the service provider-specific field is common for many ELIN records (for example, if all the ELIN records share the same Private Switch Code), you can use AFT's Bulk Update feature:
  - a. Select Menu > Tools > Bulk Update (Ctrl+B) or the Bulk Update icon.
     AFT displays the bulk update form.
  - **b.** Select one of the following options:
    - To apply the changes to all records, click the first tab: **Apply All**.
    - To apply the changes to one area code, click the second tab: Apply by Area Code.
    - To apply the changes to one area code and one city code, click the third tab: Apply by Area Code and City Code.
- **Step 8** Generate a formatted file in one of these way:
  - Go to Menu > Tools and click Generate Formatted File (Ctrl+G).
  - From the Tool Bar, click the Generate Formatted File icon.

AFT generates an ALI file in a format specific to your service provider and prompts you for a location to save it.

- Step 9 Enter a location where you want to store the formatted file.
- Step 10 Using the service provider's preferred method of transmitting files, send the ALI file to your service provider so they can update their E911 database with the ELINs from the AFT ALI file.



Tip

Be sure to keep a copy of the AFT ALI file for your records. This will be helpful if the service providers reports errors; you can make any required changes to the file without having to re-do all the AFT formatting changes.

#### Step 11 Your service provider returns the status of the ALI files.

- If your service provider reports that there are no errors, you can continue using AFT to generate more formatted records or you can quit the program.
- If your service provider reports that there are ALI errors, perform the following steps:
  - Make corrections to the formatted file that you sent to the service provider. All the error codes for the service providers are defined in the ALI format documentation for that service provider. Refer to their documentation to determine the errors in your file and correct the errors using AFT.



If an error occurs in fields that cannot be edited using AFT, you must use CER to correct the fields. Then use AFT to generate the file again.

- Send the corrected file to your service provider. Again, be sure to keep a copy of your corrected file for your records.
- Repeat this process until your service provider can read the formatted files and can use them to update their ELIN records.

#### **Related Topics**

- Using the Tool Bar and Icons, page 3-3
- Chapter 4, "Troubleshooting the ALI Formatting Tool"
- Appendix A, "Using the ALI Formatting Tool for SBC Ameritech"



# Troubleshooting the ALI Formatting Tool

These topics address problems you might encounter using the ALI Formatting Tool (AFT) and provide ways to resolve them:

- Collecting Error and Trace Messages, page 4-1
- Troubleshooting AFT Problems, page 4-2
- Frequently Asked Questions, page 4-4

# **Collecting Error and Trace Messages**

The ALI Formatting Tool (AFT) logs errors, warnings, record changes, and information messages using a logging device that is similar to the one that Cisco Emergency Responder (Cisco ER) uses.



Un-installing AFT does not remove the AFT logs. This allows you to use the logs to find details about old AFT transactions.

For bulk operations, AFT logs information related to the bulk operation, not individual record updates.

You can access the AFT logs, in one of two ways. Go to:

- the log folder at:
  - C:\ProgramFiles\CiscoSystems\AFT\logs\<*providername*>
- the install folder at:
  - C:\Program Files\CiscoSystems\AFT\<*providername*> and follow the shortcut to the AFT logs.

#### Related Topics

- Troubleshooting AFT Problems, page 4-2
- Frequently Asked Questions, page 4-4

# Troubleshooting AFT Problems

Use the following sections to resolve AFT problems:

- Cannot Install AFT, page 4-2
- Cannot Log In To AFT, page 4-3
- Cannot Locate the AFT Logs, page 4-3

## Cannot Install AFT

**Problem:** You receive an error message when you try to install AFT on a Windows 2000 system.

**Action:** Cisco Emergency Responder (Cisco ER) must be installed before you can install AFT. You must install AFT on the same server with Cisco ER.

Make sure that Cisco ER is installed, then try to install AFT again.

## Cannot Log In To AFT

**Problem:** You get an "Invalid Login" message when you try to log in to AFT.

**Action:** You must be a member of CERSystemAdmin and CERERLAdminGroup for Cisco Emergency Responder (Cisco ER). Check the group membership at:

Start > Control Panel > Administrative Tools > Computer Management > Users and Groups > Groups

## Cannot Locate the AFT Logs

**Problem:** You cannot find the AFT Logs.

**Action:** The ALI Formatting Tool (AFT) is installed in:

C:\Program Files\CiscoSystems\AFT\<*providername*>

Follow the shortcut in this folder to the AFT Log Folder.

All AFT logs are saved here:

C:\ProgramFiles\CiscoSystems\AFT\logs\<*providername*>

#### **Related Topics**

- Collecting Error and Trace Messages, page 4-1
- Frequently Asked Questions, page 4-4

# **Frequently Asked Questions**

- Q. My Service Provider accepts NENA 2.0 files. From the Cisco Emergency Responder (Cisco ER) documentation, I see that Cisco ER itself generates NENA 2.0 files. Will I need to use AFT for sending ALI files to my service provider?
- A. Cisco ER was designed to generate ALI files in NENA 2.0, 2.1 and 3.0 format. However, many service providers have specific fields that they use for internal purposes. If their fields are missing, they might reject the ALI file you send them from Cisco ER. These ALI files need formatting for the service provider-specific fields. This might be adding, removing, or changing the position of some fields. AFT is a small application that you can download from CCO and use for formatting the ALI files which Cisco ER generates according to your service provider's requirements.
- Q. In my Cisco ER setup, I have a set of ELINs that I bought from SBC Ameritech (Ameritech) and another set of ELINs that I bought from Sprint. I have configured these ELINs in Cisco ER. I did an ALI export and exported the ELINs to a single file. How will I send this ELIN file separately to Ameritech and Sprint?
- A. You can use AFT to accomplish this task. Perform the following steps:

#### Procedure

- Step 1 Download the AFT for Ameritech and download the AFT for Sprint from CCO and install them on your Cisco ER server.
- **Step 2** Give the ALI file exported from Cisco ER as input to the Ameritech AFT.
- **Step 3** Perform the necessary formatting selectively for the Ameritech ELINs:
- Step 4 Use the Ameritech Area Code which is different from the Sprint area code. Send this file of the Ameritech ELINs to Ameritech.
- Step 5 Repeat steps 2 4 to generate a file containing just the Sprint ELINs by using AFT for Sprint.

#### **Related Topics**

- Collecting Error and Trace Messages, page 4-1
- Troubleshooting AFT Problems, page 4-2

Frequently Asked Questions



# Using the ALI Formatting Tool for SBC Ameritech

SBC Ameritech (Ameritech) does not have any service provider-specific fields that you must modify using the ALI Formatting Tool (AFT). However, when using AFT to format records for Ameritech, you may need to modify the Function Code. Use the following information along with Chapter 3, "Using the ALI Formatting Tool" to generate ALI files in a format that Ameritech can use to update their ELIN records.

#### **Changing the Function Code**

Cisco Emergency Responder (Cisco ER) sets the Function Code to one of the following:

- I for Inserting a new ALI record (the default)
- C for Updating an ALI record, such as changing a street name
- · D for Deleting an ALI record

If you make changes to an ALI record in Cisco ER to correct errors reported by Ameritech, you may need to use AFT to change the Function Code for ELIN records. Example A-1 illustrates when you need to change the function code.

#### Example A-1 Changing the Function Code

Cisco ER initially generates ALI records with a function code of I, for insert. After you format a file and export it to Ameritech using AFT, Ameritech may reject the file because of an error. The error may be that the street suffix is incorrect, for example. You cannot change the street suffix in AFT because this field is disabled in AFT. You must change the ALI record using Cisco ER.

When Cisco ER generates the ALI record the second time after you make the change, it sets the Function Code to C because it assumes that the first file was accepted. Use AFT to change the Function Code for ELIN records from C to I.

Then, generate the format using AFT, and send the reformatted file to Ameritech.



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