Preface

Overview

The *Cisco Analog Telephone Adapter 187 Administration Guide for SIP (Version 1.0)* provides the information you need to install, configure, and manage the Cisco ATA 187 Analog Telephone Adapter (ATA 187) on a Session Initiation Protocol (SIP) network.

Audience

This guide is intended for service providers and network administrators who administer Voice over IP (VoIP) services using the ATA 187. Most of the tasks described in this guide are not intended for end users of the ATA 187. Many of these tasks impact the ability of the ATA 187 to function on the network, and require an understanding of IP networking and telephony concepts.

Organization

This manual is organized as follows:

Chapter 1, "Cisco ATA 187 Analog Telephone Adapter Overview"	Provides descriptions of hardware and software features of the ATA 187 along with a brief overview of the Session Initiation Protocol (SIP).
Chapter 2, "Preparing to Install the ATA 187 on Your Network"	Provides information on the interactions between the ATA 187, Cisco Unified Communications Manager and other devices. It also describes options for powering the ATA 187.
Chapter 3, "Installing the ATA 187"	Provides information on how to connect the ATA 187 hardware and load the QED and firmware files.
Chapter 4, "Configuring the ATA 187 for SIP	Provides information on how to configure the ATA 187 to operate with Session Initiation Protocol (SIP).

Chapter 5, “Configuring and Debugging Fax Services”	Provides instructions for configuring both ports of the ATA 187 to support fax transmission.
Chapter 6, “Troubleshooting and Maintenance”	Provides basic testing and troubleshooting procedures for the ATA 187.
Chapter 6, “Using SIP Supplementary Services”	Provides end-user information about pre-call and mid-call services.
Chapter 8, “Voice Menu Codes”	Provides a quick-reference list of the voice configuration menu options for the ATA 187.
Appendix A, “ATA 187 Specifications”	Provides physical specifications for the ATA 187.
Appendix B, “SIP Call Flows”	Provides ATA 187 call flows for SIP scenarios.
Appendix C, “Recommended ATA 187 Tone Parameter Values by Country”	Provides tone parameters for various countries.
Glossary	Provides definitions of commonly used terms.
Index	Provides reference information.

Related Documentation

For more information about the ATA 187 or Cisco Unified Communications Manager, refer to the following publications:

Cisco ATA 187 Analog Telephone Adapter

- RFC 3261 (*SIP: Session Initiation Protocol*)
- RFC 2543 (*SIP: Session Initiation Protocol*)
- *Cisco ATA SIP Compliance Reference Information*

  http://www-vnt.cisco.com/SPUniv/SIP/documents/CiscoATASIPComplianceRef.pdf
- RFC 768 *(User Datagram Protocol*)
- RFC 2198 (*RTP Payload for Redundant Audio Data*)
- RFC 2833 (*RTP Payload for DTMF Digits, Telephony Phones and Telephony Signals*)
- RFC 2327 (*SDP: Session Description Protocol)*
- RFC 4730 (*A Session Initiation Protocol (SIP) Event Package for Key Press Stimulus (KPML)*)
- RFC 3515 (*The Session Initiation Protocol (SIP) Refer Method*)
- *Read Me First - ATA Boot Load Information*
- *Cisco ATA 187 Analog Telephone Adapter At a Glance*
- *Regulatory Compliance and Safety Information for the Cisco ATA 187*
- *Cisco ATA 187 Analog Telephone Adaptor Release Notes*

Cisco Unified Communications Manager

These publications are available at the following URL:

http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html

Cisco Unified Communications Manager Business Edition

These publications are available at the following URL:

http://www.cisco.com/en/US/products/ps7273/tsd_products_support_series_home.html

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly What's New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html

Cisco Product Security Overview

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

Further information regarding U.S. export regulations may be found at http://www.access.gpo.gov/bis/ear/ear_data.html.

Document Conventions

This document uses the following conventions:

Convention	Description
boldface font	Commands and keywords are in **boldface**.
italic font	Arguments for which you supply values are in *italics*.
[ ]	Elements in square brackets are optional.
{ x | y | z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x | y | z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
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 *italic screen* font.

Convention	Description
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

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

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

Warning **Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.**