Cisco Active Network Abstraction 4.0 Documentation Roadmap and Getting Started Guide

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This document contains the following sections:

Product Documentation Set

The printed documentation shipped with Cisco Active Network Abstraction (ANA) 4.0, contains information that you need to access this product.

The product documentation such as the User and Administration Guide, Installation Guide, and Release Notes, are available in the documentation folder within the Cisco ANA 4.0 product DVD in the PDF format.

For the latest and updated product documentation of Cisco ANA 4.0 see Cisco.com at:

http://www.cisco.com/en/US/products/ps6776/
tsd_products_support_series_home.html

For a list of the Cisco ANA 4.0 product documentation, see Table 1 on page 2.

For a list of the Cisco ANA 4.0 related documentation, see Related Product Documentation, page 3.

Table 1 **ANA 4.0 Product Documentation**

Document Title	Description	Document Number	Available
Cisco Active Network Abstraction 4.0 Documentation Roadmap and Getting Started Guide (This guide)	Provides a list of the product and supported documentation.	78-17518-01B0	• Printed; available with the ANA 4.0 package. • Within the documentation folder in the Product DVD
Cisco Active Network Abstraction 4.0 Installation and Setup Guide	Describes the installation of Cisco ANA 4.0 and helps you to get started with this product. Also provides the prerequisites for installation and troubleshooting tips.	OL-12839-01	• On Cisco.com • Within the documentation folder in the Product DVD
Cisco Active Network Abstraction 4.0 User and Administration Guide	Provides the information required to use Cisco ANA 4.0. Also contains administration-related information on Cisco ANA.	OL-12837-01	• On Cisco.com • Within the documentation folder in the Product DVD • As Online help, integrated with the product

Table 1   ANA 4.0 Product Documentation

Document Title	Description	Document Number	Available
Cisco Active Network Abstraction 4.0 Release Notes	Provides release information and caveats for Cisco ANA 4.0. Also lists the known defects and their workarounds.	OL-12840-01	• On Cisco.com • Within the documentation folder in the Product DVD
• *Cisco Active Network Abstraction VNE Reference* • *Cisco Active Network Abstraction VNE Reference—Addendum*	Provides support information for the Cisco ANA 4.0 network elements. The Addendum provides information on supported technologies (such as, IP, ARP, BGP, and so on.)	OL-9354-01	• On Cisco.com • Within the documentation folder in the Product DVD
Third Party and Open Source Copyrights	Provides the copyrights to the open source and third party components used in ANA 4.0.	OL-14520-01	• On Cisco.com • Within the documentation folder in the Product DVD

Related Product Documentation

Table 2 includes documentation related to ANA 4.0.

These documents were not shipped with your product, but you can access the latest and updated versions of these documents from the Cisco Technology Developer Program for ANA website at:
http://www.cisco.com/cgi-bin/dev_support/access_level/
product_support?pcgi=1&product=ana_isdk

Table 2   ANA 4.0 Related Product Documentation

Document Title	Description	Document Number
Cisco Active Network Abstraction Integration Developer Guide	Describes how to use the ANA integration interfaces.	OL-12841-01
Cisco Active Network Abstraction Integration Developer Reference	Provides reference information about the Integration APIs and the ANA Information Model objects they use.	OL-14519-01
Cisco Active Network Abstraction Integration Developer Troubleshooting Guide	Provides troubleshooting information for the ANA integration interfaces.	OL-14437-01
Cisco Active Network Abstraction Information Model Primer	Provides an overview of the ANA Information Model.	OL-14175-01
Cisco Active Network Abstraction Integration Developer Java Client API Reference	Describes the details of the Java-based ANA integration interfaces (syntax, parameters, return codes, data structures, and so on).	OL-14564-01

Getting Started with Cisco ANA 4.0

This section has the following topics:

What is ANA?

Cisco Active Network Abstraction (ANA) is a resource management platform that serves as an active mediation layer between the operation and network layers. It provides a set of easy-to-use applications and well defined APIs for Operation Support Systems (OSS).

ANA enables service providers to efficiently respond to the constant market demand for new, reliable, and more complex services, while hiding the complexity of large, multivendor, mixed technology networks.

ANA can manage diverse network environments. It offers an integrated process for network modeling, intelligent fault analysis, and a highly flexible network configuration and activation engine. This enables fully correlated management of global scale networks that need to support millions of subscribers and customers.

ANA is a network management system that provides a fully integrated service-oriented offering including:

- Multivendor network element support (physical components that can be managed through an IP address).
- Mixed technologies (IP, VPN, MPLS, Ethernet, POS, BGP).
- Multiple functions (network discovery, fault, activation, and configuration).
- Standards-based Northbound APIs that provide integration with assorted Operation Support Systems/Business Support Systems applications.

Based on a patented architecture of distributed autonomous virtual network elements (VNEs), ANA enables integration management for multivendor, multi-technology network environments—while at the same time scaling according to network growth and evolution.

ANA hides the complexity of large, multivendor, mixed technology networks while allowing you to modify your network in response to the market demand for new, reliable, and more sophisticated services.

The user interface provides a normalized view of network elements and the network, abstracting out differences and nuances. This makes it easier to view the status, control the configuration, and manage the state of the network and intra-network element operations.

For details of ANA, VNEs, the architecture, installation, usage and administration see the documentation listed in Table 1 on page 2 and Table 2 on page 4.

ANA Package Contents

The ANA package contains the following:

- ANA Product DVD.

- *Cisco Active Network Abstraction 4.0 Documentation Roadmap and Getting Started Guide.*

Installing and Starting to Use Cisco ANA 4.0

To install and use Cisco ANA 4.0:

Step 1 Review this document *Cisco Active Network Abstraction 4.0 Documentation Roadmap and Getting Started Guide*.

It contains the complete list of Cisco ANA 4.0 documentation and tells you how to access it.

Step 2 Check the section, Cisco ANA 4.0 Installation Prerequisites, in the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide,* and ensure that you have the necessary setup to install Cisco ANA 4.0.

This guide also provides the hardware and software requirements in the section Hardware and Software Requirements.

Step 3 Install Cisco ANA 4.0.

For detailed installation procedures for the gateway, units and the client, see the section, Installing and Uninstalling Cisco ANA 4.0 in the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide.*

Step 4 Verify the installation.

For the procedures to start the gateway or the unit and verify the installation, see the section Installing and Uninstalling Cisco ANA 4.0 in the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide.*

If you encounter problems while installing, see the section, Troubleshooting the Cisco ANA 4.0 Installation, in the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide.*

The installation log file location and other details are in the section Accessing Installation Log Files, of the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide*.

Step 5 Log into Cisco ANA.

See the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide.*

To view network elements using the ANA user interface, you must:

a. Add the network elements to the ANA system so ANA can manage them. You can use the following methods:

– Run autodiscovery based on a seed file.

See the topic, Managing Auto Discovery and Seed Files, in the *Cisco Active Network Abstraction 4.0 User and Administration Guide*.

– Add network elements using the user interface.

See the topic, Overview: Adding and Deleting Network Elements, in the *Cisco Active Network Abstraction 4.0 User and Administration Guide.*

Administrators normally add network elements and create user accounts.

b. To allow others to use ANA, configure users and scopes.

See the topic, Creating and Managing Users and Scopes, in the *Cisco Active Network Abstraction 4.0 User and Administration Guide.*

c. Create at least one network domain map that includes the elements you added, so you can view the elements using the Monitoring perspective.

See the topic Working with Topology Maps, in the *Cisco Active Network Abstraction 4.0 User and Administration Guide.*

After you have added network elements and created a network map, you can begin monitoring your elements, viewing tickets, getting details about network elements, and so forth. See the *Cisco Active Network Abstraction 4.0 User and Administration Guide.*

If you are a developer integrating third party applications with ANA, see the website for Cisco Technology Developer Program for ANA at: http://www.cisco.com/cgi-bin/dev_support/access_level/ product_support?pcgi=1&product=ana_isdk

For the release information and known problems, see the *Cisco Active Network Abstraction 4.0 Release Notes.*

For the procedure to log into the gateway server, add units, launch the client, etc., see the section Getting Started with Cisco ANA 4.0 of the *Cisco Active Network Abstraction 4.0 Installation and Setup Guide.*

For the usage and administration details of Cisco ANA 4.0, see the *Cisco Active Network Abstraction 4.0 User and Administration Guide.* As you get started, the topics, Getting Started, and Using the ANA UI, in the ANA Overview section, provide useful information.

For the support information for the Cisco ANA 4.0 network elements, see the *Cisco Active Network Abstraction VNE Reference*.

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