Cisco Application Networking Manager External Ordering Guide

Product Release 3.0

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Introduction

This document provides guidelines for ordering the software and license components needed to deploy Cisco® Application Networking Manager (ANM) 3.0.

Cisco ANM software is part of the Cisco ACE Application Control Engine product family and is a crucial component of any data center or cloud computing architecture that requires centralized configuration, operation, and monitoring of Cisco data center networking equipment and services. Cisco ANM provides this management capability for the Cisco ACE devices, as well as operations management for the Cisco Content Services Switch (CSS), Cisco Content Switching Module (CSM), Cisco Content Switching Module with SSL (CSM-S), and Cisco ACE Global Site Selector (GSS).

Product Numbers

Cisco ANM 3.0 consists of three main components: the base software, licensing for device management, and licensing for virtual contexts where applicable. A fourth component is the high-availability option, which enables a warm-standby Cisco ANM server to run in parallel with the primary Cisco ANM server.

Cisco ANM is licensed based on the number and types of devices to be managed, and where applicable, the number of additional virtual contexts licensed per Cisco ACE device. Cisco ANM must always be ordered for production use, including the base Cisco ANM server software and ANM high-availability (HA) server software. Additional licensing beyond the base Cisco ANM server software may be required depending on the number of devices to be managed and whether any Cisco ACE devices with additional virtual context licenses are installed (even if the devices are not yet in use). Cisco GSS support is included in the Cisco ANM server software and does not require separate licensing.

Table 1 lists the Cisco ANM 3.0 part numbers. The Cisco ANM high-availability product is an optional product for implementation of a high-availability standby server. The part numbers for the Cisco ANM high-availability option are listed in Table 2.

Table 1.   Cisco ANM 3.0 Part Numbers

Part Number	Description
ANM-SERVER-30-K9	Cisco ANM server software
ANM-AD-005	Cisco ANM license for 5 Cisco ACE devices
ANM-AD-010	Cisco ANM license for 10 Cisco ACE devices
ANM-AD-020	Cisco ANM license for 20 Cisco ACE devices
ANM-AD-050	Cisco ANM license for 50 Cisco ACE devices
ANM-CD-010	Cisco ANM license for 10 Cisco CSS, CSM, or CSM-S devices
ANM-CD-040	Cisco ANM license for 40 Cisco CSS, CSM, or CSM-S devices
ANM-AV-020	Cisco ANM license for 20 virtual contexts on 1 Cisco ACE device
ANM-AV-050	Cisco ANM license for 50 Virtual Context on 1 Cisco ACE device
ANM-AV-100	Cisco ANM license for 100 virtual contexts on 1 Cisco ACE device
ANM-AV-250	Cisco ANM license for 250 virtual contexts on 1 Cisco ACE device
ANM-AV-UP1=	Upgrade Cisco ANM license: AV-020 to AV-050
ANM-AV-UP2=	Upgrade Cisco ANM license: AV-050 to AV-100
ANM-AV-UP3=	Upgrade Cisco ANM license: AV-100 to AV-250

Table 2.   Cisco ANM 3.0 High-Availability Option Part Numbers

Part Number	Description
ANM-SERVER-30-H-K9	Cisco ANM HA server software
ANM-AD-005-H	Cisco ANM HA license for 5 Cisco ACE devices
ANM-AD-010-H	Cisco ANM HA license for 10 Cisco ACE devices
ANM-AD-020-H	Cisco ANM HA license for 20 Cisco ACE devices
ANM-AD-050-H	Cisco ANM HA license for 50 Cisco ACE devices
ANM-CD-010-H	Cisco ANM HA license for 10 Cisco CSS, CSM, or CSM-S devices
ANM-CD-040-H	Cisco ANM HA license for 40 Cisco CSS, CSM, or CSM-S devices
ANM-AV-020-H	Cisco ANM HA license for 20 virtual contexts on 1 Cisco ACE device
ANM-AV-050-H	Cisco ANM HA license for 50 virtual contexts on 1 Cisco ACE device
ANM-AV-100-H	Cisco ANM HA license for 100 virtual contexts on 1 Cisco ACE device
ANM-AV-250-H	Cisco ANM HA license for 250 virtual contexts on 1 Cisco ACE device
ANM-AV-UP1H=	Upgrade Cisco ANM HA license: AV-020 to AV-050
ANM-AV-UP2H=	Upgrade Cisco ANM HA license: AV-050 to AV-100
ANM-AV-UP3H=	Upgrade Cisco ANM HA license: AV-100 to AV-250

Cisco ANM Licensing Components

The Cisco ANM product family is defined by four components:

- **Base server software**: ANM-SERVER-30-K9 is the required base product (which is priced at US$0).
- **Device-count expansion licenses**: Part numbers ANM-AD-nnn are the base software products for Cisco ACE devices. Select the size or combination appropriate for the number of Cisco ACE devices to be managed. A single Cisco ANM server can manage from 5 to 50 Cisco ACE devices, using part numbers ANM-AD-005, -010, -020, or -050. For example, if seven Cisco ACE devices are to be managed, then the managing Cisco ANM server will require installation of either two ANM-AD-005 licenses or one ANM-AD-010 license.
- **Virtual context expansion licenses**: Part numbers ANM-AV-nnn are the virtual context licenses for Cisco ACE devices. These licenses must match 1:1 with the Cisco ACE virtual contexts licenses on a per-device basis. For example, if seven Cisco ACE devices each have ACE-VIRT-050 installed, then the managing Cisco ANM server will require installation of seven ANM-AV-050 licenses.
- **Management server high-availability (HA) licenses**: Use complementary part numbers ending with 'H' to set up a hot-standby Cisco ANM server, with licenses at a significant discount.

Licensing

Cisco ANM 3.0 implements server-locked licensing with enforcement that requires license keys. To simplify key creation and installation, customers expanding their Cisco ANM installations should order options under ANM-LICENSE-PAK or ANM-LICENSE-PAK-H for each Cisco ANM server to which they want to add capability. For new installations, customers should order options under ANM-SERVER-30-K9 for each server they want to install.

The number of licenses for a given deployment will be determined based on the number of managed devices and the number of additional virtual contexts on those managed devices. The licensing of devices is independent of the use of those devices in redundant configurations (device high availability).

ANM-SERVER-30-K9 is a free software package and is the required component of Cisco ANM, the base software application. This is a full-featured version of Cisco ANM but is limited to management of only two Cisco ACE devices (modules or appliances) with the default number of virtual contexts (five). This package also includes operations support for the full capacity (three clusters) of Cisco GSS devices. The application must be run on a customer-supplied server, and the web browser client is run by the end user on a workstation.

ANM-SERVER-30-K9, without any additional ACE device licenses supports two Cisco ACE devices. When the first additional ACE device license is installed on the Cisco ANM server the total number of manageable ACE devices is based on the additional ACE device license. For example if the first additional ACE device license installed is ANM-AD-005, the number of ACE devices that can be managed changes from 2 to 5.

After this first additional ACE device license, all subsequently added ACE device licenses expand the number of managed devices additively. A server with a license for 5 Cisco ACE devices can manage a total of 5 Cisco ACE devices, not 7. A server with a license for 5 Cisco ACE devices and another license for 10 Cisco ACE devices can manage 15 Cisco ACE devices.

All managed device licenses for CSS, CSM and CSM-S are additive. A server with 2 licenses for 10 Cisco CSS, CSM, or CSM-S devices can manage 20 of those devices.

Additional Cisco ACE virtual context licenses are required on a per-device basis. Additional Cisco ANM virtual context licenses for each managed Cisco ACE device must match or be greater than the virtual context licenses on the Cisco ACE device itself, regardless of the number of virtual contexts actually created or used on the device.

Regardless of the licensing installed, any one server can manage only a fixed number of devices. For configurations requiring more than that number of devices, more than one Cisco ANM server is required.

- Each Cisco ANM server can support up to 50 Cisco ACE devices.
- Each Cisco ANM server can support up to 40 Cisco CSS, CSM, and CSM-S devices.
- Each Cisco ANM server can support up to 3 Cisco GSS clusters running Cisco GSS Software 3.0(2) or higher.

These maximums may be met simultaneously on the same Cisco ANM server depending on the scope and frequency of user and configuration operations, configuration size, and level of monitoring performed.

An evaluation license enables Cisco ANM 3.0 to manage the maximum number of devices and the maximum number of virtual contexts for 90 days, allowing you to evaluate these uses prior to purchasing licenses for production use. (See "Ordering Process: Evaluation License" later in this guide.)

Documentation

The main page for Cisco ANM technical documentation is
http://www.cisco.com/en/US/products/ps6904/tsd_products_support_series_home.html.

For information about how to obtain documentation, support, security guidelines, and recommended aliases and general Cisco documents and provide documentation feedback, 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.

Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Ordering Process: Evaluation License

An evaluation license enables Cisco ANM 3.0 to manage the maximum number of devices and the maximum number of virtual contexts for 90 days, allowing you to evaluate these uses prior to purchasing licenses for production use.

To download software and documentation:

- Click the Support links at http://www.cisco.com/go/anm.
- To generate a demonstration license: Click the link "If you do not have a Product Authorization Key (PAK), please click here for available licenses" at http://www.cisco.com/go/license.
- Choose Cisco Application Networking Manager — Demonstration Version.
- Following the instructions, provide the ETH0 MAC address of the server on which you are installing the Cisco ANM demonstration license.

Ordering Process: New Cisco ANM Server Production License

Cisco ANM (ANM-SERVER-30-K9) must be ordered to be received by the customer. Although ANM-SERVER-30-K9 has a list price of US$0, it is not bundled with any Cisco ACE products. Addition of Cisco Software Application Support (SAS) is recommended (for an additional charge).

To place an order, visit the Cisco Ordering homepage.

For online configuration and to order just ANM-SERVER-30-K9 without any additional license options, follow the process listed here.

For a New Line (on order):

1. In the Enter Product field, enter **ANM-SERVER-30-K9**.

2. Click the Enter button.

3. Select the new line number.

4. Click the Configure button.

5. In the license category, choose ANM License (the only choice).<FYI…the all caps is what is actually shown on the screen>

6. Click the Check Configuration button.

7. Click the Add To Order button.

A US$0 line item is added to Config Set / order.

To download software or documentation, click the Support links at http://www.cisco.com/go/anm.

Technical support services can be ordered for these products, through Cisco SAS programs. Cisco SAS plus Upgrade (SASU) is not available for this product. Service part numbers can be found in this document or in the http://www.cisco.com online ordering tools and price lists.

Ordering Process: Upgrade to Cisco ANM 3.0

Cisco ANM 3.0 supports upgrade on same server from all Cisco ANM 2.0 versions. Customers upgrading from Cisco ANM 1.0 versions must first upgrade to Cisco ANM 2.0 before migrating to Cisco ANM 3.0.

Customers upgrading from Cisco ANM 2.0 running on Red Hat Enterprise Linux 4.0 must upgrade to Red Hat Enterprise Linux 5 (base server) Update 2 (5.2) or Update 3 (5.3) 32-bit Server Edition (Linux 2.6 kernel), following the instructions provided in the Installation Guide for Cisco Application Networking Manager 3.0.

All existing Cisco ANM customers are eligible for upgrade without charge to Cisco ANM 3.0.

- Customers upgrading from Cisco ANM 1.0 or 1.1 will require generation of license keys and should contact licensing@cisco.com or open a Cisco Technical Assistance Center (TAC) case (Cisco TAC Global Licensing Operations) to request key generation.

- Customers upgrading from Cisco ANM 1.2 and 2.0 can reuse their existing Cisco ANM licenses when upgrading to Cisco ANM 3.0 on the same server platform.

- Customers wanting to rehost their Cisco ANM on a different server platform should contact Cisco TAC Global Licensing Operations as usual for information about rehosting their existing licenses.

Ordering Process: Adding Device and Virtual Context Licenses to Cisco ANM Server

To simplify key creation and installation, customers expanding their Cisco ANM 3.0 installation should order options under ANM-LICENSE-PAK or ANM-LICENSE-PAK-H for each Cisco ANM server to which they want to add capability. For example, if the purpose of the order is to increase the number of devices that each of three Cisco ANM servers can support, then order three line items of ANM-LICENSE-PAK: one for each server to which the licensing is being added.

To place an order, visit the Cisco Ordering homepage.

For online configuration and ordering of license options being added to an existing Cisco ANM server, follow the process listed here.

For a New Line (on order):

1. In the Enter Product field, enter **ANM-LICENSE-PAK**.

2. Click the Enter button.

3. Select the new line number.

4. Click the Configure button.

5. In Step1: Select Item Category, choose ANM License Options.<FYI…the all caps is what is actually shown on the screen>

6. Enter the quantity of each license option that you want to add to the Cisco ANM server.

7. Click the Check Configuration button.

8. Click the Add To Order button.

A line item is added to Config Set / order.

Repeat this process as necessary for each Cisco ANM server for which additional licensing is being ordered.

Software Support Service Pricing

Maintenance support for Cisco ANM 3.0 is available through Cisco SAS. Cisco SAS provides maintenance support throughout the lifecycle of your application software. To help ensure that customers receive the full benefit of their investments for applications software, Cisco offers this program to provide technical assistance through telephone and online support centers as well as minor maintenance updates and bug-fix releases. Features include:

- Access to minor updates and bug-fix releases (available at http://www.cisco.com/upgrade/)
- Registered access to Cisco.com
- 24-hours-a-day Cisco TAC support through the telephone and the online Cisco TAC website
- Worldwide availability

Table 3 lists ordering information for services for the base Cisco ANM 3.0 server. Table 4 lists part numbers for services for the Cisco ANM 3.0 high-availability option.

Table 3.   Cisco ANM 3.0 Service Part Numbers

Cisco ANM Part Number	Contracts and Products	Service Part Number
ANM-SERVER-30-K9	CSSPS	CON-CSSPS-ANMSRV30
	SPSAS	SP-SAS-ANMSRV30
	SAS	CON-SAS-ANMSRV30
	CBAS	CON-CBAS-ANMSRV30
	PM2S	CON-P2S-ANMSRV30
	NSAS	CON-NSAS-ANMSRV30
	CBUS	CON-CBUS-ANMSRV30
ANM-AD-005	CSSPS	CON-CSSPS-ANMAD5
	SPSAS	SP-SAS-ANMAD5
	SAS	CON-SAS-ANMAD5
	CBAS	CON-CBAS-ANMAD5

Cisco ANM Part Number	Contracts and Products	Service Part Number
	PM2S	CON-P2S-ANMAD5
	NSAS	CON-NSAS-ANMAD5
	CBUS	CON-CBUS-ANMAD5
ANM-AD-010	CSSPS	CON-CSSPS-ANMAD10
	SPSAS	SP-SAS-ANMAD10
	SAS	CON-SAS-ANMAD10
	CBAS	CON-CBAS-ANMAD10
	PM2S	CON-P2S-ANMAD10
	NSAS	CON-NSAS-ANMAD10
	CBUS	CON-CBUS-ANMAD10
ANM-AD-020	CSSPS	CON-CSSPS-ANMAD20
	SPSAS	SP-SAS-ANMAD20
	SAS	CON-SAS-ANMAD20
	CBAS	CON-CBAS-ANMAD20
	PM2S	CON-P2S-ANMAD20
	NSAS	CON-NSAS-ANMAD20
	CBUS	CON-CBUS-ANMAD20
ANM-AD-050	CSSPS	CON-CSSPS-ANMAD50
	SPSAS	SP-SAS-ANMAD50
	SAS	CON-SAS-ANMAD50
	CBAS	CON-CBAS-ANMAD50
	PM2S	CON-P2S-ANMAD50
	NSAS	CON-NSAS-ANMAD50
	CBUS	CON-CBUS-ANMAD50
ANM-CD-010	CSSPS	CON-CSSPS-ANMCD10
	SPSAS	SP-SAS-ANMCD10
	SAS	CON-SAS-ANMCD10
	CBAS	CON-CBAS-ANMCD10
	PM2S	CON-P2S-ANMCD10
	NSAS	CON-NSAS-ANMCD10
	CBUS	CON-CBUS-ANMCD10
ANM-CD-040	CSSPS	CON-CSSPS-ANMCD40
	SPSAS	SP-SAS-ANMCD40
	SAS	CON-SAS-ANMCD40
	CBAS	CON-CBAS-ANMCD40
	PM2S	CON-P2S-ANMCD40
	NSAS	CON-NSAS-ANMCD40
	CBUS	CON-CBUS-ANMCD40
ANM-AV-020	CSSPS	CON-CSSPS-ANMAV020
	SPSAS	SP-SAS-ANMAV020
	SAS	CON-SAS-ANMAV020
	CBAS	CON-CBAS-ANMAV020
	PM2S	CON-P2S-ANMAV020
	NSAS	CON-NSAS-ANMAV020
	CBUS	CON-CBUS-ANMAV020

Cisco ANM Part Number	Contracts and Products	Service Part Number
ANM-AV-050	CSSPS	CON-CSSPS-ANAV50
	SPSAS	SP-SAS-ANAV50
	SAS	CON-SAS-ANAV50
	CBAS	CON-CBAS-ANAV50
	PM2S	CON-P2S-ANAV50
	NSAS	CON-NSAS-ANAV50
	CBUS	CON-CBUS-ANAV50
ANM-AV-100	CSSPS	CON-CSSPS-ANAV100
	SPSAS	SP-SAS-ANAV100
	SAS	CON-SAS-ANAV100
	CBAS	CON-CBAS-ANAV100
	PM2S	CON-P2S-ANAV100
	NSAS	CON-NSAS-ANAV100
	CBUS	CON-CBUS-ANAV100
ANM-AV-250	CSSPS	CON-CSSPS-ANAV250
	SPSAS	SP-SAS-ANAV250
	SAS	CON-SAS-ANAV250
	CBAS	CON-CBAS-ANAV250
	PM2S	CON-P2S-ANAV250
	NSAS	CON-NSAS-ANAV250
	CBUS	CON-CBUS-ANAV250
ANM-AV-UP1=	CSSPS	CON-CSSPS-ANAV50
	SPSAS	SP-SAS-ANAV50
	SAS	CON-SAS-ANAV50
	CBAS	CON-CBAS-ANAV50
	PM2S	CON-P2S-ANAV50
	NSAS	CON-NSAS-ANAV50
	CBUS	CON-CBUS-ANAV50
ANM-AV-UP2=	CSSPS	CON-CSSPS-ANAV100
	SPSAS	SP-SAS-ANAV100
	SAS	CON-SAS-ANAV100
	CBAS	CON-CBAS-ANAV100
	PM2S	CON-P2S-ANAV100
	NSAS	CON-NSAS-ANAV100
	CBUS	CON-CBUS-ANAV100
ANM-AV-UP3=	CSSPS	CON-CSSPS-ANAV250
	SPSAS	SP-SAS-ANAV250
	SAS	CON-SAS-ANAV250
	CBAS	CON-CBAS-ANAV250
	PM2S	CON-P2S-ANAV250
	NSAS	CON-NSAS-ANAV250
	CBUS	CON-CBUS-ANAV250

Table 4.   Cisco ANM 3.0 High-Availability (-H) Service Part Numbers

Cisco ANM Part Number	Contracts and Products	Service Part Number
ANM-SERVER-30-H-K9	CSSPS	CON-CSSPS-ANMSRV30H
	SPSAS	SP-SAS-ANMSRV30H
	SAS	CON-SAS-ANMSRV30H
	CBAS	CON-CBAS-ANMSRV30H
	PM2S	CON-P2S-ANMSRV30H
	NSAS	CON-NSAS-ANMSRV30H
	CBUS	CON-CBUS-ANMSRV30H
ANM-AD-005-H	CSSPS	CON-CSSPS-ANMAD5H
	SPSAS	SP-SAS-ANMAD5H
	SAS	CON-SAS-ANMAD5H
	CBAS	CON-CBAS-ANMAD5H
	PM2S	CON-P2S-ANMAD5H
	NSAS	CON-NSAS-ANMAD5H
	CBUS	CON-CBUS-ANMAD5H
ANM-AD-010-H	CSSPS	CON-CSSPS-ANMAD10H
	SPSAS	SP-SAS-ANMAD10H
	SAS	CON-SAS-ANMAD10H
	CBAS	CON-CBAS-ANMAD10H
	PM2S	CON-P2S-ANMAD10H
	NSAS	CON-NSAS-ANMAD10H
	CBUS	CON-CBUS-ANMAD10H
ANM-AD-020-H	CSSPS	CON-CSSPS-ANMAD20H
	SPSAS	SP-SAS-ANMAD20H
	SAS	CON-SAS-ANMAD20H
	CBAS	CON-CBAS-ANMAD20H
	PM2S	CON-P2S-ANMAD20H
	NSAS	CON-NSAS-ANMAD20H
	CBUS	CON-CBUS-ANMAD20H
ANM-AD-050-H	CSSPS	CON-CSSPS-ANMAD50H
	SPSAS	SP-SAS-ANMAD50H
	SAS	CON-SAS-ANMAD50H
	CBAS	CON-CBAS-ANMAD50H
	PM2S	CON-P2S-ANMAD50H
	NSAS	CON-NSAS-ANMAD50H
	CBUS	CON-CBUS-ANMAD50H
ANM-CD-010-H	CSSPS	CON-CSSPS-ANMCD10H
	SPSAS	SP-SAS-ANMCD10H
	SAS	CON-SAS-ANMCD10H
	CBAS	CON-CBAS-ANMCD10H
	PM2S	CON-P2S-ANMCD10H
	NSAS	CON-NSAS-ANMCD10H
	CBUS	CON-CBUS-ANMCD10H
ANM-CD-040-H	CSSPS	CON-CSSPS-ANMCD40H

Cisco ANM Part Number	Contracts and Products	Service Part Number
	SPSAS	SP-SAS-ANMCD40H
	SAS	CON-SAS-ANMCD40H
	CBAS	CON-CBAS-ANMCD40H
	PM2S	CON-P2S-ANMCD40H
	NSAS	CON-NSAS-ANMCD40H
	CBUS	CON-CBUS-ANMCD40H
ANM-AV-020-H	CSSPS	CON-CSSPS-ANMA020H
	SPSAS	SP-SAS-ANMA020H
	SAS	CON-SAS-ANMA020H
	CBAS	CON-CBAS-ANMA020H
	PM2S	CON-P2S-ANMA020H
	NSAS	CON-NSAS-ANMA020H
	CBUS	CON-CBUS-ANMA020H
ANM-AV-050-H	CSSPS	CON-CSSPS-ANMA050H
	SPSAS	SP-SAS-ANMA050H
	SAS	CON-SAS-ANMA050H
	CBAS	CON-CBAS-ANMA050H
	PM2S	CON-P2S-ANMA050H
	NSAS	CON-NSAS-ANMA050H
	CBUS	CON-CBUS-ANMA050H
ANM-AV-100-H	CSSPS	CON-CSSPS-AV100H
	SPSAS	SP-SAS-AV100H
	SAS	CON-SAS-AV100H
	CBAS	CON-CBAS-AV100H
	PM2S	CON-P2S-AV100H
	NSAS	CON-NSAS-AV100H
	CBUS	CON-CBUS-AV100H
ANM-AV-250-H	CSSPS	CON-CSSPS-AV250H
	SPSAS	SP-SAS-AV250H
	SAS	CON-SAS-AV250H
	CBAS	CON-CBAS-AV250H
	PM2S	CON-P2S-AV250H
	NSAS	CON-NSAS-AV250H
	CBUS	CON-CBUS-AV250H
ANM-AV-UP1-H=	CSSPS	CON-CSSPS-ANMA050H
	SPSAS	SP-SAS-ANMA050H
	SAS	CON-SAS-ANMA050H
	CBAS	CON-CBAS-ANMA050H
	PM2S	CON-P2S-ANMA050H
	NSAS	CON-NSAS-ANMA050H
	CBUS	CON-CBUS-ANMA050H
ANM-AV-UP2-H=	CSSPS	CON-CSSPS-ANMAUP2H
	SPSAS	SP-SAS-ANMAUP2H
	SAS	CON-SAS-ANMAUP2H
	CBAS	CON-CBAS-ANMAUP2H

Cisco ANM Part Number	Contracts and Products	Service Part Number
	PM2S	CON-P2S-ANMAUP2H
	NSAS	CON-NSAS-ANMAUP2H
	CBUS	CON-CBUS-ANMAUP2H
ANM-AV-UP3-H=	CSSPS	CON-CSSPS-ANMA250H
	SPSAS	SP-SAS-ANMA250H
	SAS	CON-SAS-ANMA250H
	CBAS	CON-CBAS-ANMA250H
	PM2S	CON-P2S-ANMA250H
	NSAS	CON-NSAS-ANMA250H
	CBUS	CON-CBUS-ANMA250H

For More Information

This document provides pricing and ordering information for Cisco ANM 3.0.

For additional information, please see:

- Cisco Application Networking Manager product page (external): http://www.cisco.com/go/anm
- Product inquiries (external): ask-anm@cisco.com

Ordering Examples

Cisco ANM 3.0 uses the same pricing and licensing model as Cisco ANM 2.0. The following two substitutions are the only changes from ANM 2.0 versions to ANM 3.0 versions:

- For "ANM-SERVER-20-K9," substitute "ANM-SERVER-30-K9."
- For "ANM-SERVER-30-H-K9," substitute "ANM-SERVER-30-H-K9."

Two Cisco ACE Modules with Default Virtual Contexts

Entry-Level Cisco ANM
Example Order 1

Customer plans to use two Cisco ACE 8-GB modules with the included five virtual contexts each.

Although an embedded manager is not available on the Cisco ACE Modules, since customer is managing just two Cisco ACE devices with the default number of virtual contexts (five), the entry-level Cisco ANM is all that is needed.

Customer can load the entry-level Cisco ANM on the server the customer provides to manage these two devices.

Customer should order:

1 ANM-SERVER-30-K9 from Cisco.com for no charge.

Two Cisco ACE 4710 Appliances with Default Virtual Contexts

Entry Level Cisco ANM (for Appliance)

Example Order #2

Customer plans to use one or two ACE 2G appliance with the included five Virtual Contexts each.

Customer can either use the embedded device manager to manage each appliance separately or customer can load the entry level Cisco ANM on server they provide.

Customer should order:

Use embedded device manager for no charge

-or-

Qty. 1 of ANM-SERVER-30-K9 from CCO for no charge

More Than Two Cisco ACE Devices and Additional Virtual Contexts

Cisco ANM for ACE

Example Order #3

Customer plans to use four ACE 8G modules, two ACE 4G modules and two ACE 2G appliances. They have added ACE license for 50 Virtual Contexts on the four 8G ACE modules. All are paired in Active-Standby configurations.

From Cisco ANM perspective, it doesn't matter if these modules and appliances will be run with or without ACE HA options (such as Active-Active, Active-Standby) as each is counted individually for management.

There are 8 devices to be managed, so ANM-AD-010 is selected for the level of Cisco ANM based software.

The default Virtual Contexts are included in the price of ANM-SERVER device support, but customer needs to purchase Virtual Context license expansions for 50 VCs on the four 8G modules.

Customer should order:

Qty. 1 of ANM-SERVER-30-K9

Qty. 1 of ANM-AD-010

Qty. 4 of ANM-AV-050

Adding to an Existing Cisco ANM Server

Cisco ANM for Cisco ACE

Example Order 4

At a later date, customer from Example Order 3 adds four more Cisco ACE 4-GB modules, each with 20 virtual contexts. For these sets of Cisco ACE 4-GB modules, customer also purchases the Cisco ACE licenses to upgrade the SSL capacity.

Customer purchased ANM-AD-010 in Example Order 3, so customer will also need to get license for additional Cisco ACE devices (now 8 + 4 = 12).

No additional management license is required for the SSL upgrades.

Customer needs to purchase Cisco ACE device license that adds five more devices (total of 15 now) and virtual context license expansions for 20 virtual contexts on the four new modules.

Customer should order:

1 ANM-LICENSE-PAK	at US$0 each	→	US$0
1 ANM-AD-005	at US$10,000 each	→	US$10,000
4 ANM-AV-020	at US$1,800 each	→	US$7,200
	Total before discounts	→	US$17,200

Supporting More Than 50 Cisco ACE Devices

Cisco ANM for ACE
Example Order #5

Customer is a managed hosting service provider that wishes to implement a large deployment of 60 ACE appliances, each with 20 VCs, in one location.

The customer wants all of these appliances to be managed from a central management system.

Cisco ANM currently is specified for any one implementation to manage no more than 50 devices. The customer will need to split the devices into two management domains of no more than 50 devices each.

Customer shall order:

Qty. 1 ANM-SERVER-30-K9

    Qty. 1 of ANM-AD-020

    Qty. 1 of ANM-AD-010

    Qty. 30 of ANM-AV-020

Qty. 1 ANM-SERVER-30-K9

    Qty. 1 of ANM-AD-020

    Qty. 1 of ANM-AD-010

    Qty. 30 of ANM-AV-020

Ordering with Cisco ANM High Availability

Customer plans to use four ACE 8G modules, two ACE 4G modules, and two ACE 2G appliances. They have added optional ACE license for 50 Virtual Contexts on the eight ACE modules. All are paired in Active Standby configurations. (See Example Order #3)

Customer wishes to run Cisco ANM with active-warm standby (HA) pair to ensure operational availability.

The default Virtual Contexts are included in the price of ANM-SERVER-30-K9 device support, but customer needs to purchase Virtual Context license expansions for 50 VCs on the modules, the device license for the 8 ACE being managed, and the matching HA versions.

Customer should order:

Qty. 1 ANM-SERVER-30-K9

   Qty. 1 of ANM-AD-010

   Qty. 4 of ANM-AD-050

Qty. 1 ANM-SERVER-30-H-K9

   Qty. 1 of ANM-AD-010-H

   Qty. 4 of ANM-AV-050-H