



Cisco NAC Appliance Ordering Guide

This document describes the ordering guidelines for the Cisco® NAC Appliance product (formerly Cisco Clean Access), effective September 10, 2007.

What's New in This Guide?

This version of the guide incorporates the latest form factor for the Cisco NAC Appliance: the Cisco NAC Network Module. In addition to offering the Cisco NAC Appliance components as discrete appliances, customers can now order the Cisco Clean Access Server as a network module that fits into the Cisco Series 2800 and 3800 Integrated Services Routers.

New Network Module

The Cisco® NAC Network Module for Integrated Services Routers brings the feature-rich Cisco Clean Access Server capabilities to Cisco 2800 and 3800 Series Integrated Services Routers. By extending the Cisco NAC Appliance portfolio of products to smaller locations, the Cisco NAC Network Module allows network administrators to manage a single device in the branch office for data, voice, and security requirements.

For more information about the Cisco NAC Network Module, please read the datasheet available at <http://www.cisco.com/go/NACNM>.

Customers can use the Cisco NAC Network Module in combination with the existing, appliance-based Cisco Clean Access Servers and Clean Access Managers. The following table outlines the additional options customers have.

Table 1. Cisco NAC Appliance Options

Cisco Clean Access Manager	Cisco Clean Access Server as an Appliance	Cisco NAC Network Module for ISRs
Manager for 3 Clean Access Servers (only those supporting 500 or fewer users)	<ul style="list-style-type: none">• 100 users• 250 users• 500 users	<ul style="list-style-type: none">• 50 users• 100 users
Manager for 20 Clean Access Servers (those supporting any number of users) Manager for 40 Clean Access Servers (those supporting any number of users)	<ul style="list-style-type: none">• 1500 users• 2500 users• 3500 users	

Cisco NAC Hardware Platforms

The Cisco NAC Appliance runs on the Cisco NAC Appliance 3300 Series hardware. Each hardware platform in the series supports several license requirements. Table 2 maps the licenses to the corresponding hardware.

Table 2. Mapping of Cisco NAC Appliance 3300 Series to Licenses

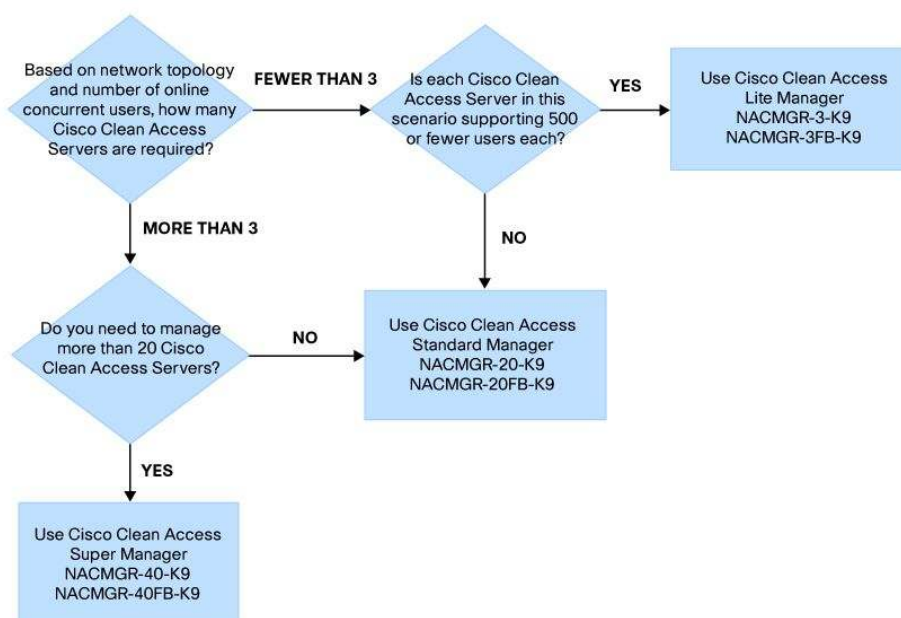
	Cisco NAC Appliance 3310	Cisco NAC Appliance 3350	Cisco NAC Appliance 3390
Cisco Clean Access Servers	<ul style="list-style-type: none">• License for 100 users• License for 250 users• License for 500 users	<ul style="list-style-type: none">• License for 1500 users• License for 2500 users• License for 3500 users	-

	Cisco NAC Appliance 3310	Cisco NAC Appliance 3350	Cisco NAC Appliance 3390
Cisco Clean Access Managers	<ul style="list-style-type: none"> • License for Cisco Clean Access Lite Manager • Supports up to 3 Clean Access Servers on the 3310 platform plus the network module 	<ul style="list-style-type: none"> • License for Cisco Clean Access Standard Manager • Supports up to 20 Clean Access Servers on any platform plus the network module 	<ul style="list-style-type: none"> • License for Cisco Clean Access Super Manager • Supports up to 40 Clean Access Servers on any platform plus the network module

Sizing the Deployment

The number of online, concurrent users in a deployment determines the type and quantity of Cisco Clean Access Servers required. In turn, the type and quantity of Cisco Clean Access Servers determines the type of Cisco Clean Access Manager required. Figure 1 explains the selection process for the Cisco Clean Access Manager.

Figure 1. Cisco Clean Access Manager Selection Process



About Failover Bundles

Failover bundles are denoted by the "FB" in each part number. Customers that purchase a failover bundle will receive two appliances and a failover license that counts both appliances as one redundant unit. Failover bundles are not available for the Cisco NAC Network Module.

When sizing the Cisco Clean Access Manager, it is useful to note that one Cisco Clean Access Server failover bundle counts as one server toward the capacity of the manager. Thus, a Cisco Clean Access Super Manager can manage up to 40 Cisco Clean Access Server failover bundles.

Sample Scenarios

The following scenarios illustrate two typical deployments of the Cisco NAC Appliance.

Scenario 1

Customer has one headquarters location with 300 users and two remote sites with fewer than 50 users at each site. Customer prefers a central deployment, using Layer 3 in-band capability to consolidate the remote sites.

Management	1 Cisco Clean Access Lite Manager with failover	NACMGR-3FB-K9
Headquarters	1 Cisco Clean Access Server with failover for 500 users	NAC3310-500FB-K9

Scenario 2

Customer has one headquarters location with 500 users. Customer would like to provide wireless guest access for its conference rooms (estimated number of users as high as 200) and enforce security policies on employee wired access in an out-of-band deployment. Based on these requirements, a central deployment is recommended, with one Cisco Clean Access Server with failover for wireless users, and another for wired users.

Management	1 Cisco Clean Access Lite Manager with failover	NACMGR-3FB-K9
Wireless Guest Access	1 Cisco Clean Access Server with failover for 250 users	NAC3310-250FB-K9
Wired Employee Access	1 Cisco Clean Access Server with failover for 500 users	NAC3310-500FB-K9

Scenario 3

Customer has one headquarters location with 4500 users and ten branch offices with 50 users each. Customer would like to provide posture assessment for all employees. Based on these requirements, a central deployment is recommended.

Management	1 Cisco Clean Access Standard Manager with failover	NACMGR-20FB-K9
Headquarters	2 Cisco Clean Access Servers with failover for 2500 users each	NAC3350-2500FB-K9
Branch offices	10 Cisco NAC Network Modules for 50 users each	NACNM-50-K9

Part Numbers for Appliances

Tables 3 and 4 list the part numbers for Cisco Clean Access Server and Cisco Clean Access Manager.

Table 3. Part Numbers for Cisco Clean Access Server

Product Part Number	Description	Coordinating Hardware
NAC3310-100-K9	Cisco Clean Access Server for 100 users	1 Cisco NAC Appliance 3310
NAC3310-100FB-K9	Cisco Clean Access Server for 100 users; failover bundle	2 Cisco NAC Appliance 3310s
NAC3310-250-K9	Cisco Clean Access Server for 250 users	1 Cisco NAC Appliance 3310
NAC3310-250FB-K9	Cisco Clean Access Server for 250 users; failover bundle	2 Cisco NAC Appliance 3310s
NAC3310-500-K9	Cisco Clean Access Server for 500 users	1 Cisco NAC Appliance 3310
NAC3310-500FB-K9	Cisco Clean Access Server for 500 users; failover bundle	2 Cisco NAC Appliance 3310s
NAC3350-1500-K9	Cisco Clean Access Server for 1500 users	1 Cisco NAC Appliance 3350
NAC3350-1500FB-K9	Cisco Clean Access Server for 1500 users; failover bundle	2 Cisco NAC Appliance 3350s

Product Part Number	Description	Coordinating Hardware
NAC3350-2500-K9	Cisco Clean Access Server for 2500 users	1 Cisco NAC Appliance 3350
NAC3350-2500FB-K9	Cisco Clean Access Server for 2500 users; failover bundle	2 Cisco NAC Appliance 3350s
NAC3350-3500-K9	Cisco Clean Access Server for 3500 users	1 Cisco NAC Appliance 3350
NAC3350-3500FB-K9	Cisco Clean Access Server for 3500 users; failover bundle	2 Cisco NAC Appliance 3350s

Table 4. Part Numbers for Cisco Clean Access Manager

Product Part Number	Description	Coordinating Hardware
NACMGR-3-K9	Cisco Clean Access Lite Manager for 3 servers	1 Cisco NAC Appliance 3310
NACMGR-3FB-K9	Cisco Clean Access Lite Manager for 3 servers; failover bundle	2 Cisco NAC Appliance 3310s
NACMGR-20-K9	Cisco Clean Access Standard Manager for 20 servers	1 Cisco NAC Appliance 3350
NACMGR-20FB-K9	Cisco Clean Access Standard Manager for 20 servers; failover bundle	2 Cisco NAC Appliance 3350s
NACMGR-40-K9	Cisco Clean Access Super Manager for 40 servers	1 Cisco NAC Appliance 3390
NACMGR-40FB-K9	Cisco Clean Access Super Manager for 40 servers; failover bundle	2 Cisco NAC Appliance 3390s

Part Numbers for Cisco NAC Network Module

Table 5 lists the part numbers associated with the Cisco NAC Network Module.

Table 5. Part Numbers for Cisco NAC Network Module for Integrated Services Routers

Hardware and Software Part Number	Needed for Supporting Cisco NAC Network Module
NME-NAC-K9	Cisco NAC Network Module for 2800 & 3800 ISR
NACNM-50-K9	NAC Network Module Server License -max 50 users
NACNM-100-K9	NAC Network Module Server License -max 100 users
NACNM-50UL=	NAC Network Module Server License Upgrade -50 to 100 users
NME-NAC-K9=	Cisco NAC Network Module for 2800 & 3800 ISR (spare)

When configuring a Cisco 2800 or 3800 Integrated Services Router chassis or bundle, select part number NME-NAC-K9 as an option within Network Modules. After confirming the software version for the NAC network module, select between the two Cisco NAC Network Module Server Licenses: part number NACNM-50-K9 or NACNM-100-K9.

If you initially purchase the 50-user license (NACNM-50-K9) for the NAC network module, you can upgrade to the 100-user license later by ordering part number NACNM-50UL=. You can select the license part numbers and apply them to the module spare (NME-NAC-K9=) in a similar manner.

Licensing information is available at

http://www.cisco.com/en/US/products/ps6128/prod_pre_installation_guide09186a008073136b.htm

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License and Hardware Upgrades for Appliances

Because of the different hardware models in the Cisco NAC Appliance 3300 Series, all license upgrades for the Cisco Clean Access Manager, and some for the Cisco Clean Access Server, require participation in the Cisco Technology Migration Program (TMP) in order to upgrade the hardware. Table 6 lists the product part numbers that require hardware upgrades.

Table 6. Cisco NAC Appliance Products Requiring Hardware Upgrades

Product Part Number	Description
NACMGR-3-K9	Cisco Clean Access Lite Manager for 3 servers
NACMGR-3FB-K9	Cisco Clean Access Lite Manager for 3 servers; failover bundle
NACMGR-20-K9	Cisco Clean Access Standard Manager for 20 servers
NACMGR-20FB-K9	Cisco Clean Access Standard Manager for 20 servers; failover bundle
NACMGR-40-K9	Cisco Clean Access Super Manager for 40 servers
NACMGR-40FB-K9	Cisco Clean Access Super Manager for 40 servers; failover bundle
NAC3310-500-K9	Cisco Clean Access Server for 500 users
NAC3310-500FB-K9	Cisco Clean Access Server for 500 users; failover bundle

In the case of some Cisco Clean Access Server licenses, customers may upgrade to a larger user license by purchasing a software upgrade license. Table 7 lists the product part numbers that do not require a hardware upgrade, along with their appropriate software upgrade license product number.

Table 7. Cisco NAC Appliance Products Eligible for Software Upgrade Licenses

Product Part Number	Description	Upgrade Part Number	Upgrade Description
NAC3310-100-K9	Cisco Clean Access Server for 100 users	NAC3310-100UL	Upgrades the 100-user Cisco Clean Access Server license to a 250-user license
NAC3310-100FB-K9	Cisco Clean Access Server for 100 users; failover bundle	NAC3310-100FBUL	Upgrades the 100-user Cisco Clean Access Server license with failover to a 250-user license with failover
NAC3310-250-K9	Cisco Clean Access Server for 250 users	NAC3310-250UL	Upgrades the 250-user Cisco Clean Access Server license to a 500-user license
NAC3310-250FB-K9	Cisco Clean Access Server for 250 users; failover bundle	NAC3310-250FBUL	Upgrades the 250-user Cisco Clean Access Server license with failover to a 500-user license with failover
NAC3350-1500-K9	Cisco Clean Access Server for 1500 users	NAC3350-1500UL	Upgrades the 1500-user Cisco Clean Access Server license to a 2500-user license
NAC3350-1500FB-K9	Cisco Clean Access Server for 1500 users; failover bundle	NAC3350-1500FBUL	Upgrades the 1500-user Cisco Clean Access Server license with failover to a 2500-user license with failover
NAC3350-2500-K9	Cisco Clean Access Server for 2500 users	NAC3350-2500UL	Upgrades the 2500-user Cisco Clean Access Server license to a 3500-user license
NAC3350-2500FB-K9	Cisco Clean Access Server for 2500 users; failover bundle	NAC3350-2500FBUL	Upgrades the 2500-user Cisco Clean Access Server license with failover to a 3500-user license with failover

Part Numbers for Support

Four types of Cisco SMARTnet support services are available for Cisco NAC Appliance customers:

- 8x5xNBD: Next business day (order received before cutoff time)
- 8x5x4: Standard 4-hour service
- 24x7x4: Premium 4-hour service
- 24x7x2: Premium 2-hour service

For more information about Cisco SMARTnet service offerings, please visit

http://www.cisco.com/en/US/products/svcs/ps3034/ps2827/ps2978/serv_group_home.html.

Support for Cisco Clean Access Servers and Cisco Clean Access Managers is sold separately, while support for the Cisco NAC Network Module is included in SMARTNet for the Integrated Services Router.

Table 8 lists the part numbers of the four service options available for the Cisco Clean Access Server. Table 9 lists the part numbers of the four service options available for the Cisco Clean Access Manager. Table 10 lists the part numbers for upgrade licenses for the Clean Access Servers.

Table 8. Cisco Clean Access Server Support Part Numbers

Product Part Number	8x5xNBD	8x5x4	24x7x4	24x7x2
NAC3310-100-K9	CON-SNT-NAC100	CON-SNTE-NAC100	CON-SNTP-NAC100	CON-S2P-NAC100
NAC3310-100FB-K9	CON-SNT-NAC100F	CON-SNTE-NAC100F	CON-SNTP-NAC100F	CON-S2P-NAC100F
NAC3310-250-K9	CON-SNT-NAC250	CON-SNTE-NAC250	CON-SNTP-NAC250	CON-S2P-NAC250
NAC3310-250FB-K9	CON-SNT-NAC250F	CON-SNTE-NAC250F	CON-SNTP-NAC250F	CON-S2P-NAC250F
NAC3310-500-K9	CON-SNT-NAC500	CON-SNTE-NAC500	CON-SNTP-NAC500	CON-S2P-NAC500
NAC3310-500FB-K9	CON-SNT-NAC500F	CON-SNTE-NAC500F	CON-SNTP-NAC500F	CON-S2P-NAC500F
NAC3350-1500-K9	CON-SNT-NAC1500	CON-SNTE-NAC1500	CON-SNTP-NAC1500	CON-S2P-NAC1500
NAC3350-1500FB-K9	CON-SNT-NAC1500F	CON-SNTE-NAC1500F	CON-SNTP-NAC1500F	CON-S2P-NAC1500F
NAC3350-2500-K9	CON-SNT-NAC2500	CON-SNTE-NAC2500	CON-SNTP-NAC2500	CON-S2P-NAC2500
NAC3350-2500FB-K9	CON-SNT-NAC2500F	CON-SNTE-NAC2500F	CON-SNTP-NAC2500F	CON-S2P-NAC2500F
NAC3350-3500-K9	CON-SNT-NAC3500	CON-SNTE-NAC3500	CON-SNTP-NAC3500	CON-S2P-NAC3500
NAC3350-3500FB-K9	CON-SNT-NAC3500F	CON-SNTE-NAC3500F	CON-SNTP-NAC3500F	CON-S2P-NAC3500F

Table 9. Cisco Clean Access Manager Support Part Numbers

Product Part Number	8x5xNBD	8x5x4	24x7x4	24x7x2
NACMGR-3-K9	CON-SNT-NACM3	CON-SNTE-NACM3	CON-SNTP-NACM3	CON-S2P-NACM3
NACMGR-3FB-K9	CON-SNT-NACM3F	CON-SNTE-NACM3F	CON-SNTP-NACM3F	CON-S2P-NACM3F
NACMGR-20-K9	CON-SNT-NACM20	CON-SNTE-NACM20	CON-SNTP-NACM20	CON-S2P-NACM20
NACMGR-20FB-K9	CON-SNT-NACM20F	CON-SNTE-NACM20F	CON-SNTP-NACM20F	CON-S2P-NACM20F
NACMGR-40-K9	CON-SNT-NACM40	CON-SNTE-NACM40	CON-SNTP-NACM40	CON-S2P-NACM40
NACMGR-40FB-K9	CON-SNT-NACM40F	CON-SNTE-NACM40F	CON-SNTP-NACM40F	CON-S2P-NACM40F

Table 10. Upgrade License Support Part Numbers

Product Part Number	8x5xNBD	8x5x4	24x7x4	24x7x2
NAC3310-100UL	CON-SNT-NAC100U	CON-SNTE-NAC100U	CON-SNTP-NAC100U	CON-S2P-NAC100U
NAC3310-100FBUL	CON-SNT-NAC100UF	CON-SNTE-NAC100UF	CON-SNTP-NAC100UF	CON-S2P-NAC100UF
NAC3310-250UL	CON-SNT-NAC250U	CON-SNTE-NAC250U	CON-SNTP-NAC250U	CON-S2P-NAC250U
NAC3310-250FBUL	CON-SNT-NAC250UF	CON-SNTE-NAC250UF	CON-SNTP-NAC250UF	CON-S2P-NAC250UF
NAC3350-1500UL	CON-SNT-NAC1500U	CON-SNTE-NAC1500U	CON-SNTP-NAC1500U	CON-S2P-NAC1500U
NAC3350-1500FBUL	CON-SNT-NAC1500W	CON-SNTE-NAC1500W	CON-SNTP-NAC1500W	CON-S2P-NAC1500W
NAC3350-2500UL	CON-SNT-NAC2500U	CON-SNTE-NAC2500U	CON-SNTP-NAC2500U	CON-S2P-NAC2500U
NAC3350-2500FBUL	CON-SNT-NAC2500W	CON-SNTE-NAC2500W	CON-SNTP-NAC2500W	CON-S2P-NAC2500W

Q&A

Q. Can one Cisco Clean Access Manager manage a deployment containing both Cisco Clean Access Servers and Cisco NAC Network Modules?

A. Yes. One Cisco Clean Access Manager can manage deployments with both appliance- and network module-based Clean Access Servers.

Q. Does the Cisco NAC Network Module have the same functionality as a Clean Access Server?

Yes. The Cisco NAC Network Module has exactly the same functionality as the Cisco Clean Access Server.

Q. Do the software features vary between the models in the Cisco NAC Appliance 3300 Series?

A. No. The only difference is the number of users or the server count allowed by the license.

Q. Are customers still able to purchase the Cisco NAC Appliance software separately?

A. Yes, although this is not recommended. Customers that prefer to purchase their own hardware must first review the certified hardware list at http://www.cisco.com/en/US/products/ps6128/products_device_support_tables_list.html

Q. Can I deploy Cisco Clean Access Servers either in-band or out-of-band?

A. Yes. All Cisco Clean Access Servers can be deployed either in-band or out-of-band; however, one server cannot do both simultaneously. A Cisco Clean Access Manager can manage any combination of in-band and out-of-band servers.

Q. What is the difference between the models within the Cisco NAC Appliance 3300 Series?

A. The three models in the Cisco NAC Appliance 3300 Series differ in their hardware specifications. For more information, please refer to the Cisco NAC Appliance data sheets at <http://www.cisco.com/go/nac/appliance>.

Q. Is a starter kit still available for pilot deployments?

A. Yes. Customers can still order a bundled Cisco Clean Access Server + Manager software solution for up to 100 users. The part number is CCA-100-SM-BUN-K9. For the hardware, customers can purchase one failover pair to accommodate both components using the part number CCA-3140-H1-FB.

For More Information

For more information about Cisco NAC Appliance hardware and software, visit <http://www.cisco.com/go/nac/appliance> or contact your local account representative. Inquiries on ordering or deployment sizing can also be e-mailed to cca-questions@external.cisco.com.



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