

Network Access Control (NAC)

Identity-based NAC with IPS and SIEM Integration



Open-architecture, standards-based in-line or out-of-band deployment flexibility

Integrated management visibility and control of pre-connect and post-connect behavior

Support for multi-vendor edge switches in both wired and wireless environments

Support for Layer 2, Layer 3, and VPN deployments

Product Overview

Enterasys Network Access Control (NAC) is a complete standards-based, multi-vendor interoperable pre-connect and post-connect Network Access Control solution. Using Enterasys **NAC Inline Controller** and/or **NAC Out-of-Band Gateway** appliances with **NMS NAC Manager** configuration and reporting software, IT administrators can deploy a leading-edge NAC solution to ensure only the right users have access to the right information from the right place at the right time. Existing investments are protected since no new switching hardware needs to be deployed, and no agent needs to be installed on all of your computers. The Enterasys NAC solution performs multi-user, multi-method authentication, vulnerability assessment and assisted remediation. You have the flexibility of choosing whether or not to restrict access for guests/contractors to public Internet services only—and how to handle authenticated internal users/devices that do not pass the security posture assessment.

The Enterasys NAC advantage is business-oriented granular visibility and control over individual users and applications. Enterasys NAC policies permit, deny, prioritize, rate-limit, tag, re-direct, and audit network traffic based on user identity, time and location, device type, and other environmental variables. Enterasys NAC supports RFC 3580 port and VLAN-based quarantine for Enterasys and third-party switches, plus more powerful isolation policies (which prevent compromised endpoints from launching attacks while in the quarantine state) on Enterasys switches.

NMS NAC Manager

Enterasys NMS NAC Manager seamlessly integrates with other Enterasys NMS network management applications such as NMS Policy Manager to enable “one click” enforcement of role-based access controls. In addition, the NMS NAC Manager **IP-to-ID Mapping** feature binds together the Username, IP Address, MAC address, and physical port of each endpoint—a key requirement for auditing and forensics. IP-to-ID Mapping is also used by NMS Automated Security Manager to implement location-independent distributed intrusion prevention and by Enterasys Security Information and Event Manager (SIEM) to pinpoint the source of a threat.

Benefits

Delivers a Complete NAC Solution

- Proactively prevents unauthorized users, compromised endpoints, and other vulnerable systems from accessing the network
- Eases deployment through flexible support of multi-user, multi-method, multi-vendor authentication
- Supports agent-less or agent-based security posture assessment of endpoints
- Standards-based, open architecture that scales from a single location to global deployment

Leverages Your Existing Infrastructure and Expertise

- No forklift upgrades; Enterasys NAC works with existing Enterasys and many third-party switches, routers, and wireless access points
- No vendor lock-in; Enterasys NAC works with multiple assessment servers, authentication servers, and security software agents to match the needs of different organizations

Improves IT Efficiency and Effectiveness

- Ensure only the right users are accessing the right information from the right place at the right time
- Automated endpoint isolation, quarantine and remediation, plus ongoing threat analysis, prevention, and containment
- Intelligent integration with NMS Automated Security Manager, NMS Policy Manager, IPS, and SIEM
- Simple design and practical, achievable deployment

**There is nothing more important
than our customers.**

Enterasys NAC Controller

The Enterasys NAC Controller is an inline NAC appliance that may be integrated into any network from any vendor, and provides Network Access Control for wired LAN, wireless LAN, and VPN users. The NAC Controller leverages the granular visibility and control features of Enterasys N-Series Distributed Forwarding Engines, and may be deployed without reconfiguration of network edge infrastructure.

The Enterasys NAC Controller in-line appliance supports up to 2,000 endpoints and addresses a number of out-of-band NAC deployment challenges:

- Out-of-band NAC requires intelligent edge switches that support IEEE 802.1X authentication and RFC3580 quarantine. Enterasys and some third party switches meet these requirements, but many older edge switches do not. The Enterasys NAC Controller provides authentication and isolation for each user and application flow regardless of the edge switch deployed.
- Out-of-band NAC often requires reconfiguration of edge switches. The Enterasys NAC Controller is installed in-line between the edge and distribution layers, and does not require any reconfiguration at the network edge.

Network performance and network fail-over availability are two important issues to consider when deploying any in-line security appliance. Because Enterasys NAC Controllers take advantage of Enterasys N-Series DFE technology these appliances will not become congestion points on the network. Dual Enterasys NAC Controllers can be deployed in a fail-over mode where redundancy is required. Each constantly communicates with the NMS NAC Manager application to replicate status and configuration information.

Features

- Proven interoperability with Microsoft NAP and Trusted Computing Group TNC.
- Enterasys NAC Controllers and NAC Gateways detect new network endpoints by identifying new MAC addresses, new IP addresses, or new 802.1X / Web-based authentication sessions.
- Support for Layer 2 and Layer 3 deployment modes and support for all 5 NAC deployment models: intelligent wired edge, intelligent wireless edge, non-intelligent wired edge, non-intelligent wireless edge, and VPN.
- Support for both “In-Band” and “Out-of-Band” management: Management options (in-band or out-of-band) can be tailored to existing network management schemes and security requirements.

Enterasys NAC Gateway

The out-of-band Enterasys NAC Gateway controls endpoint authentication, security posture assessment, and network authorization. For authentication services, the Enterasys NAC Gateway acts as a RADIUS proxy that communicates with the organization’s RADIUS authentication services, (e.g., interfaces with Active Directory or another LDAP-based directory service). The Enterasys NAC Gateway supports 802.1X (Extensible Authentication Protocol), MAC, and Web-based authentication. For endpoint assessment, the Enterasys NAC Gateway connects to multiple security assessment servers.

For authorization services, the Enterasys NAC Gateway communicates RADIUS attributes to the authenticating switch. This allows the switch to dynamically authorize and allocate network resources to the connecting endpoint based on authentication and assessment results.

The Enterasys NAC Gateway appliance also stores NAC configuration information and the physical location of each endpoint. It easily scales to support redundancy and large NAC deployments. These models are available to meet the needs of different-sized implementations.

- The Enterasys NAC Gateway is available as a NAC Security Module for N-Series Distributed Forwarding Engines (DFEs) that support a Network Expansion Module (NEM). NAC Security Module 7S-NSTAG-01 supports up to 1,000 endpoints
- The Enterasys NAC Gateway appliance SNS-TAG-LPA supports up to 2,000 endpoints

- 1 + 1 Redundancy for both Layer 2 and Layer 3 deployment modes: provides high-availability and eliminates the NAC Controller or NAC Gateway as a single point of failure
- Detailed assessment configuration provides fine grained control of end system access based on risk level presented by end system.
- Risk level configuration allows flexibility in determining threat presented by the end system. Fine grained control allows NAC administrator to define High Risk, Medium Risk, and Low Risk thresholds based on local security policies and concerns.
- The Enterasys NAC Controller and NAC Gateway are upgradable, allowing assessment to be integrated onto a single box with the other NAC functions. The upgraded appliances are capable of supporting both network-based and/or agent-based assessment.

Specifications

Enterasys NAC Controller

Physical Specifications

Form Factor: Rack-mounting 19"
Height: 3.48" (8.81 cm)
Width: 17.62" (144.46 cm)
Depth: 20.44" (51.92 cm)
Weight: 14 lbs (6.3503 kg)

Power

Wattage 250 watts maximum
Input Frequency 50 to 60 Hz
Input Voltage Range 100 to 125 VAC
Input Current 120 V 3.6 Amps; 240 V 1.6 Amps

Environmental Specifications

Operating Temperature: 5° C to +40° C (41° F to 104° F)
Storage Temperature: -30° C to 73° C (-22° F to 164° F)
Operating Humidity: 5%–90% RH, non-condensing

Agency and Standards Specifications Safety

UL 60950, CSA 60950, EN 60950, EN 60825, and IEC 60950

Electromagnetic Compatibility

47 CFR Parts 2 and 15, CSA C108.8, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, and VCCI V-3

Enterasys NAC Gateway

Physical Specifications

Form Factor: Rack-mounting 19"
Height: 1.75" (44.4 mm)
Width: 17.2" (437 mm)
Depth: 17.8" (452.16 mm)
Weight: 15.4 lbs (7 kg)

Power

Wattage 400 watts maximum
Input Frequency 50 to 60 Hz
Input Voltage Range 100 to 125 VAC
Input Current 120 V 6 Amps; 240 V 3 Amps

Environmental Specifications

Operating Temperature: 0° C to +50° C (32° F to 122° F)
Storage Temperature: -40° C to 70° C (-40° F to 158° F)
Operating Humidity: 5%–90% RH, non-condensing

Agency and Standards Specifications Safety

UL 60950, CSA 60950, EN 60950, EN 60825, and IEC 60950

Electromagnetic Compatibility

47 CFR Parts 2 and 15, CSA C108.8, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3, AS/NZS CISPR 22, and VCCI V-3

NMS NAC Manager

NMS NAC Manager is a plug-in application for Enterasys NMS Console. Therefore, NMS Console must be installed and configured prior to installing NMS NAC Manager. NMS Console is available for Microsoft Windows XP, Microsoft Windows Server 2003, RedHat Linux Enterprise ES/WS, and Novell SuSe Linux. Minimum requirements: 3 GHz P4 processor with 1 GB DRAM and 600 MB free disk space.

Ordering Information

NAC Controller

Part Number	Description
2S4082-25-SYS	NAC Controller, 24-Port Triple Speed, Uplink SFP, Optional Assessment
7S4280-19-SYS	NAC Controller, 18-Port SFP, Uplink SFP, Optional Assessment
<i>For interfaces</i>	
MGBIC-LC01	1000Base-SX Mini-GBIC w/ LC connector
MGBIC-LC03	1000Base-LX/LH (2km) Mini-GBIC MMF port w/ LC connector
MGBIC-LC09	1000Base-LX Mini-GBIC w/ LC connector
MGBIC-MT01	1000Base-SX Mini-GBIC w/ MTRJ connector
MGBIC-02	1000Base-T Mini-GBIC w/ RJ45 connector
MGBIC-08	1000Base-LX/LH (70 km Long Haul) Mini-GBIC SMF via LC connector

NAC Gateway

Part Number	Description
SNS-TAG-HPA	Enterasys NAC Gateway 3,000 endpoints
SNS-TAG-LPA	Enterasys NAC Gateway 2,000 endpoints
SNS-TAG-ITA	Enterasys NAC Gateway 3000 endpoints, optional on-board assessment
7S-NSTAG-01	Enterasys NAC Security Module for N-Series DFE (1,000 endpoints). Includes external power supply.
7S-NSTAG-01-NPS	Enterasys NAC Security Module for N-Series DFE (1,000 endpoints). No external power supply.

NAC Assessment

Part Number	Description
NAC-ASSESS-LIC	Enterasys NAC Assessment, includes both agent-based and agent-less assessment

Ordering Information (cont.)

NMS NAC Manager

Part Number	Description
NS-NAC	NAC Manager (for use with existing NMS License)
NS-AB-50	NMS Advanced Bundle 50-devices (NMS Console with NMS NAC Manager, NMS Policy Manager, NMS Automated Security Manager, and NMS Inventory Manager)
NS-AB-U	NMS Advanced Bundle Unrestricted (NMS Console with NMS NAC Manager, NMS Policy Manager, NMS Automated Security Manager, and NMS Inventory Manager)

Warranty

As a customer-centric company, Enterasys is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible.

Enterasys NAC comes with a one year warranty against manufacturing defects. Software warranties are ninety (90) days, and cover defects in media only. For full warranty terms and conditions please go to <http://www.enterasys.com/support/warranty.aspx>.

Service and Support

Enterasys Networks provides comprehensive service offerings that range from Professional Services to design, deploy and optimize customer networks, customized technical training, to service and support tailored to individual customer needs. Please contact your Enterasys account executive for more information about Enterasys Service and Support.

Contact Us

For more information, call Enterasys Networks toll free at **1-877-801-7082**, or +1-978-684-1000 and visit us on the Web at enterasys.com



© 2009 Enterasys Networks, Inc. All rights reserved. Enterasys Networks reserves the right to change specifications without notice. Please contact your representative to confirm current specifications. Please visit <http://www.enterasys.com/company/trademarks.aspx> for trademark information.

