



Access/One Network IWS user traffic is managed locally at the network node and system-wide by the Network Server. The Network Server generates internal tables that contain a list of users who are attached to each node. This list facilitates the prioritization and routing of user traffic through the network. By managing all user data this way, including broadcast and multicast traffic, the overhead on the network is reduced significantly.

## Technical Specifications

### Network Server Unit

- ▶ Network Architecture Type:  
Infrastructure, mesh, auto-discovery, self-healing
- ▶ Remote Configuration Support:  
BOOTP, DHCP, Telnet, HTTP, FTP, TFTP and SNMP
- ▶ SNMP Compliance:  
MIB I, MIB II, 802.11 MIB, Strix MIB
- ▶ Status LEDs:  
Single multi-state LED: green, orange, red
- ▶ Network Connect:  
Auto sensing 802.3 10/100 Ethernet via the Base Module or IEEE 802.11a / 802.11g
- ▶ Integrated Power over Ethernet Support:  
802.3af and Cisco proprietary (Base Module); 13 Watts maximum
- ▶ Input Power Requirements:  
Base Module - 90 to 265 VAC 47 to 63 KHz (power supply); 18 Watts maximum
- ▶ Dimensions: 5.0 x 3.65 x 0.60 in
- ▶ Environmental:  
32° to 104° F (0° to 40° C) 10 to 90% humidity (non-condensing)
- ▶ MTBF: 150,000 hours

### Security

- ▶ Authentication: 802.1x support, including RADIUS client, EAP-MD5, EAP-TLS, and PEAP-TTLS, WPA
- ▶ Encryption: IEEE 802.11i (WPA2) with AES, and WEP

### Compliance (802.11a/b/g)

- ▶ Emissions:  
EN 55022:1998 + A1:2000, FCC Part 15, ICES-003, VCCI, AS/NZS, CNS 13438, CE Mark

- ▶ Immunity:  
EN 55024:1998 + A1:2001, CE Mark
- ▶ Product Safety:  
IEC 60950:1999 / EN 60950:2000, UL 60950, CSA 22.2 No. 60950-00, CE Mark
- ▶ Health (Radiation Hazard):  
RSS-102, FCC Bulletin OET-65C

The Network Server is a critical component in the Access/One Network IWS. It consists of a hardware platform and base software, plus additional optional software modules. The hardware is an Access/One Network IWS module and can be installed into any network node within the system. The software running on this module provides much of the intelligence within the system and facilitates most of the unique features and functions of the Access/One Network IWS.

The Network Server enables you to install, manage and maintain an Enterprise-class wireless network with minimal effort, while maintaining corporate LAN security that cannot be compromised. Multiple Network Servers can be distributed throughout the network to protect against a single point-of-failure and improve network performance.

## Module Configurations

### Dual Function Network Node with System Server

To add server functionality anywhere in the network, place a Network Server Module into any of the permissible network node configurations.

### Module Placement Rule

The Network Server Module is always placed immediately above the Base Module.

### Base Modules

The Network Server Module may be used with any of the following Base Modules:

- BME0** – No Ethernet ports; used with 802.11a wireless network connect configurations.
- BME1** – One Ethernet port; used for wired network connect or to attach to the wired LAN.
- BME4** – Four switched Ethernet ports for added flexibility.

*Access/One® Network IWS increases mobile worker productivity by providing a continuous and secure connection to company networks in Ethernet-free environments.*