

iPScan[®] XE



Secure IP Address Management
Layer 2 Network Access Control Solution

SOLUTION OVERVIEW



IPScan is the only solution that provides complete control over all IP/MAC access onto the network. IPScan automatically detects and documents every ethernet and IP address that attempts the network access, and enforces centrally defined policies in real-time, with the ability to block unauthorized devices from communicating on the network.

IPScan is deployed by hundreds of large enterprises, service providers, governments and military agencies and educational institutions. IPScan consists of four components: (1) administrative console software, (2) centralized server, (3) database(MariaDB, MySQL, MS SQL, Oracle), and (4) distributed hardware; probes.

IPScan XE Features

Dynamic IP management - secure DHCP server

- Quarantine unauthorized DHCP client
- Network access time control for visitor
- MAC address filtering for access security
- Static IP address control in DHCP pool
- Unknown DHCP server detection

Secure IP/MAC management - Static IP address management

- Real-time IP/MAC status update for entire network: online/offline/unused/expired, IP change, new IP, new MAC, IP conflict, etc.
- Unused IP reservation
- IP/MAC binding
- Group & description

LAN access control & L2 security

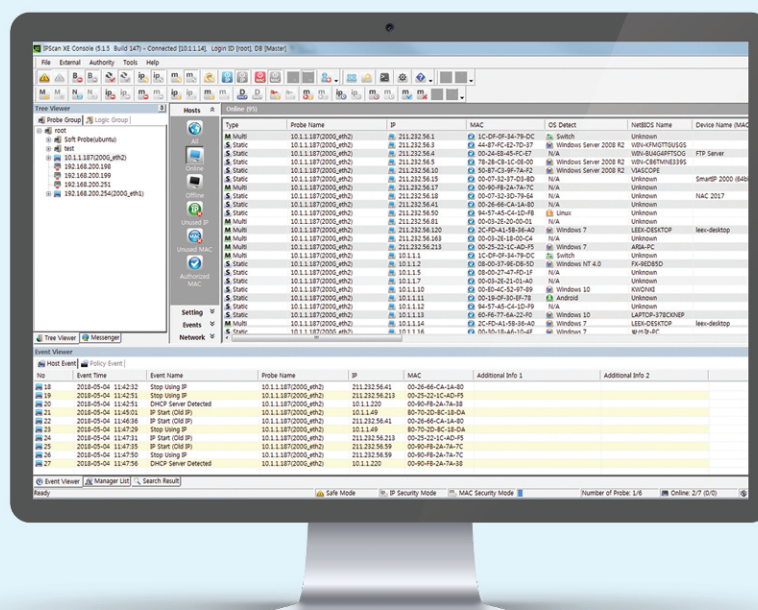
- Appliance based NAC policy enforcer (non 802.1x)
- Improve vulnerability management process
- L2 Security : controlling access by MAC address filtering
- Manual / automatic network access control :
IP blocking / MAC blocking
- Increase wireless network access security (AP bridge mode)

IP conflict management

- IP protection on mission critical devices

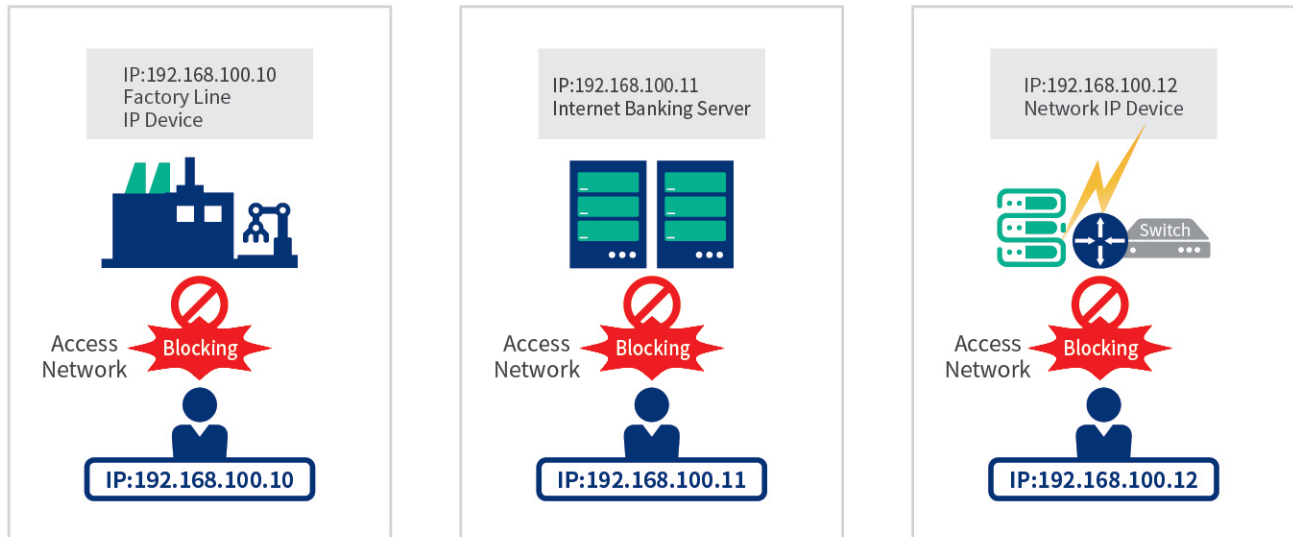
Automatic IP/MAC inventory

- Online, offline, unused IP/MAC address

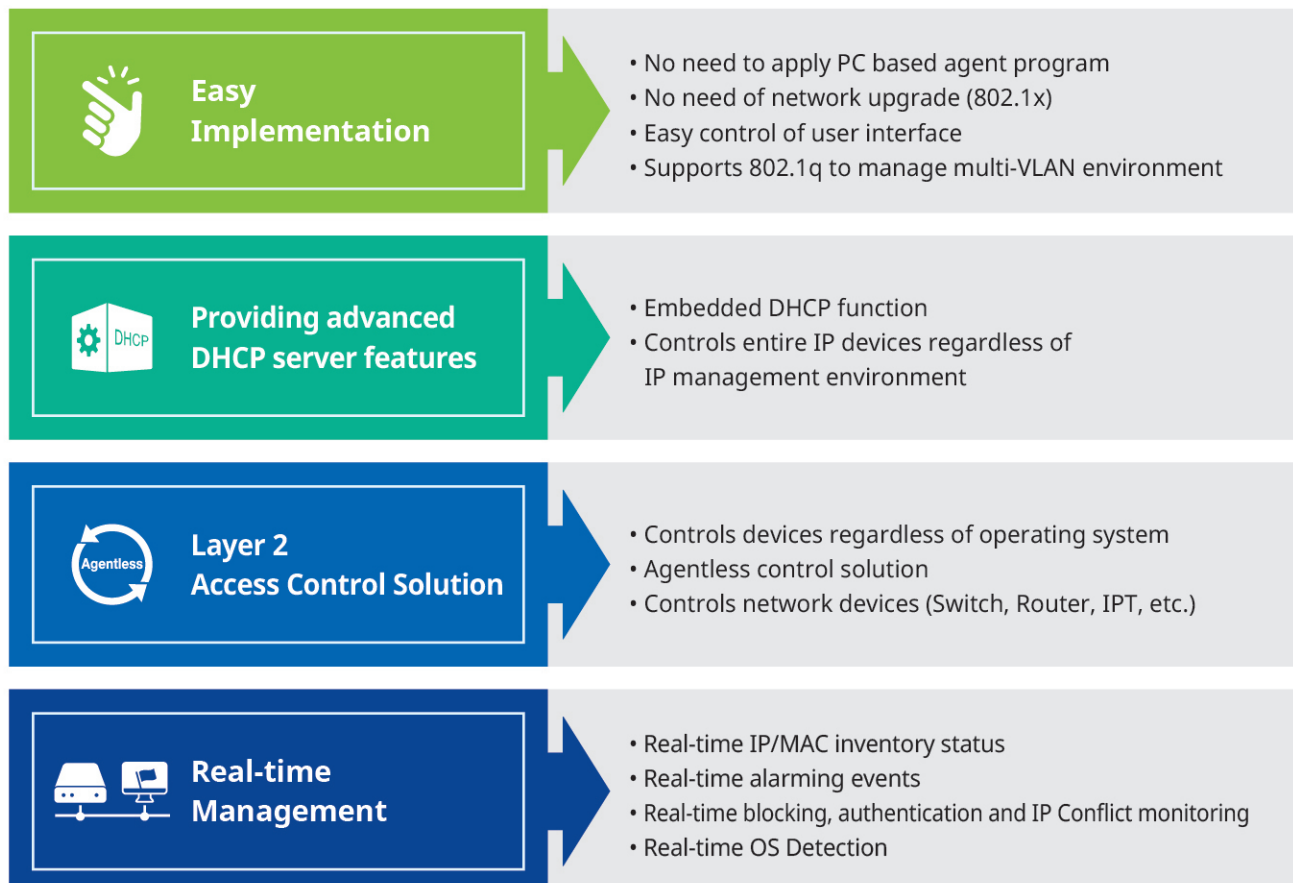


SOLUTION REVIEW

Protection from IP Conflicts



Major Functions

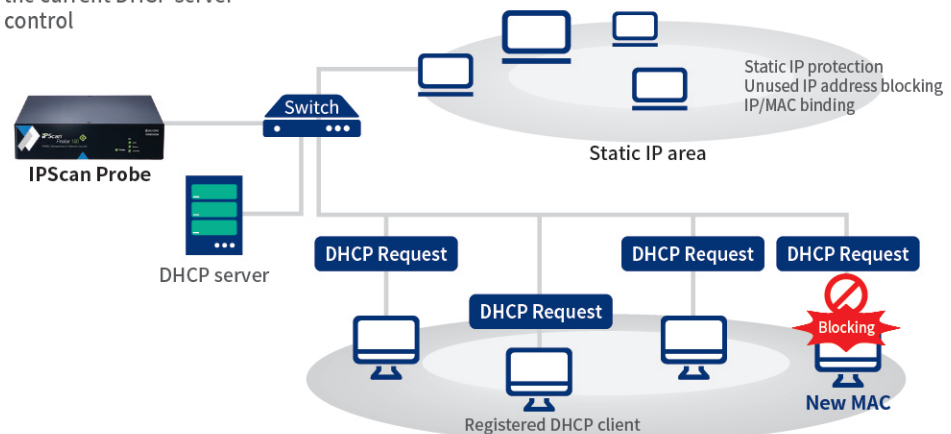


IPSCAN XE NETWORK CONFIGURATION

IPScan with 3rd Party DHCP server

Easy implementation for the current DHCP server environment with visitor control

New Mac Blocking



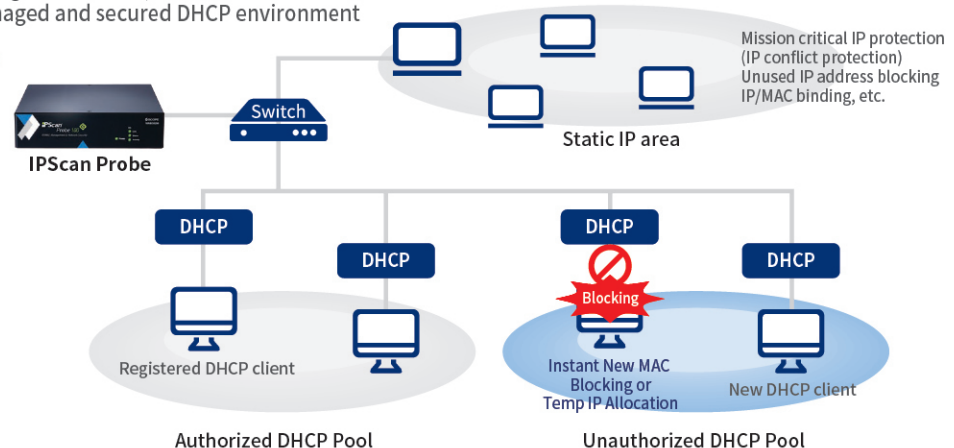
1. Terminate unauthorized user.
2. Authorize unauthorized user.
3. Terminate unauthorized Static IP user.

4. Secure Network Server and Devices from IP duplication.
5. Define Static IP range to Server zone.

Built in Secure DHCP server

Need to replace the existing DHCP server, but, it provides more managed and secured DHCP environment

Built-In DHCP server



1. Allocating IP addresses from authorized pool range for authorized MAC user & Allocating temporary IP addresses from unauthorized pool for unauthorized MAC user.
2. Secure Router from IP duplication.
3. Terminate unauthorized user.

4. Apply graduated policies to Temporary access users.
5. Terminate unregistered Static IP User.
6. Reserve DHCP IP to particular MAC.
7. Secure Network Server and Devices from IP duplication.
8. Define Static IP range to Server zone.

BENEFITS

If You have these kind of issues, we can make it better

IPAM



IP Address Management

- Manually update daily changed IP allocation or online status
- Difficult to manage real-time online IP/MAC status
- Unable to prevent IP duplication
- Unable to control unauthorized IP/MAC in use
- OS Detection

DHCP server



DHCP IP Management

- IP allocation failure in rush hour
- High cost for HA or/and relay server
- Monitoring only DHCP IP pool
- Unable to manage static IP range
- Unable to manage the IPs of server or network devices
- Unknown DHCP server allocates unauthorized DHCP IPs

NAC



Network Access Control

- Difficulty of implementing
- Installing PC agent program
- IP-phone, etc.
- High deployment cost
- Changing network devices
- Unable to control non-supported O/S such as network printer
- Not easy to control non 802.1x devices

Why IPScan XE for Your IP Managements?

LAN access security	Non-802.1x based. Agentless. No port mirroring required, Out of band control ► Less cost, less complexity, easy operation
Unique static IP address management	IP/MAC binding, unused IP blocking, IP change control ► IPAM with IP control, IP protection
Secure DHCP server	Non-DHCP client detection and blocking. Static & DHCP mixed environment management. Unauthorized DHCP client management ► Advanced DHCP server with non-DHCP client control
ARP based real-time monitoring and control	Easy-to-deploy ► IP/MAC monitoring / control for any Layer 2 environment (Just connect to any switch / hub port) ► Vendor independent, device independent (Unmanaged switch, managed switch, HUB, AP, PC with PC Firewall) ► Multi-VLAN environment supported (Using 802.1q)
High capacity	► HA support, 100,000 devices control in a Server



Agentless Network Access Control with Secure DHCP Server

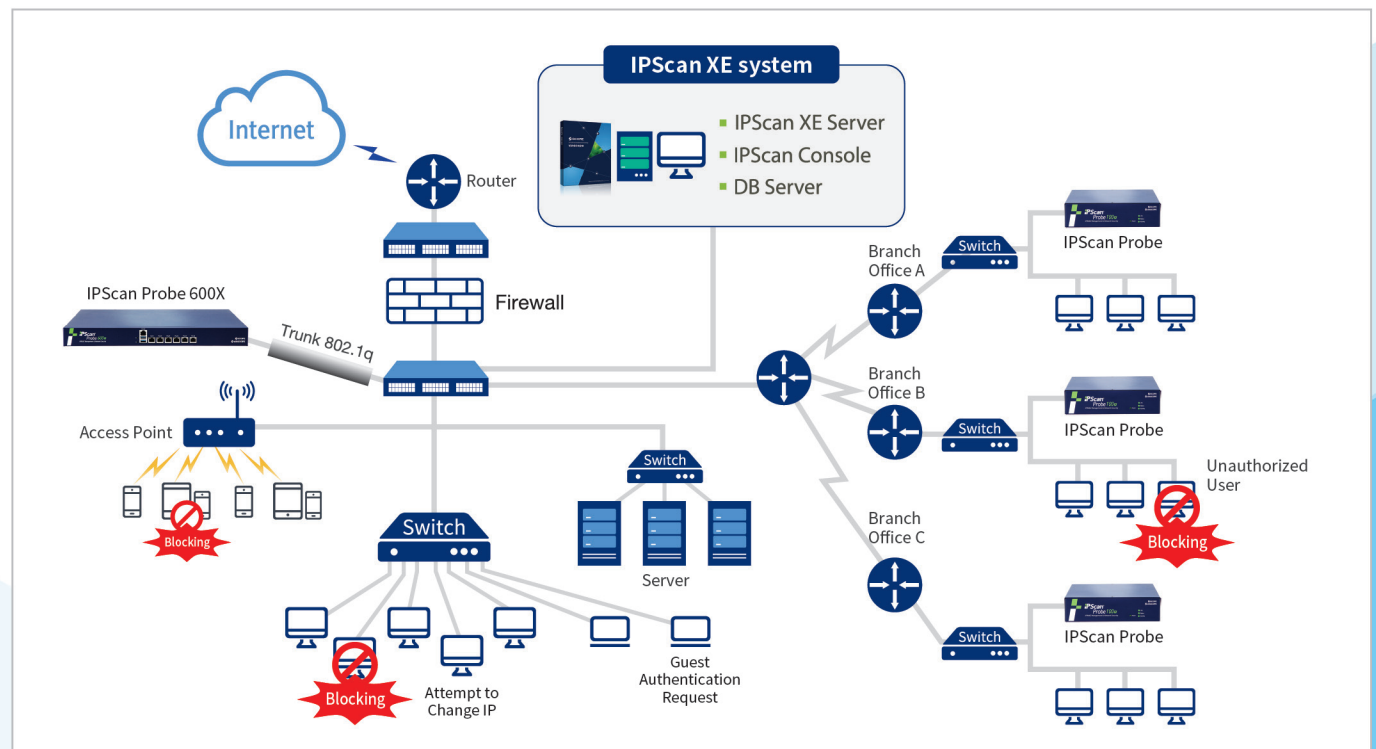
IPScan is an IP/MAC resource management and network security solution that enables IT managers to automate the IP/MAC resource management process.

IPScan controls network access of any device that uses IP addresses.

Utilizing a powerful blocking technology, IPScan ensures that unknown and unauthorized IP/MAC addresses are prevented from accessing the network.








Network Diagram



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► Specification

	Probe 50X Plus	Probe 100X Plus	Probe 200X Plus
image			
CPU	Cortex-A53 1.0GHz (1Core)_64Bit	Cortex-A53 1.5GHz (4Core)_64Bit	Intel® Atom™ J1900 1.99GHz (4Core)
MEMORY	1GB	2GB	4GB
Flash	8GB MicroSD	16GB MicroSD	HDD 1TB
Interface	1 x RJ-45 (Ethernet 10/100/1000Mbps) 1 x RS-232 (DB-9) Console 1 x USB 2.0	1 x RJ-45 (Ethernet 10/100/1000Mbps) 1 x RS-232 (DB-9) Console 1 x USB 2.0	2 x RJ-45 (Ethernet 10/100/1000Mbps) 1 x RJ-45 (to RS-232) Console 1 x USB 2.0
Size (mm)	170 (W) x 44 (H) x 183 (D)	170 (W) x 44 (H) x 183 (D)	300 (W) x 44 (H) x 195 (D)
Weight	1.0Kg	1.0Kg	3.0Kg
Operation Environment	Temperature : 0°C ~ 40°C Humidity : 0% ~ 90% RH	Temperature : 0°C ~ 40°C Humidity : 0% ~ 90% RH	Temperature : 0°C ~ 40°C Humidity : 0% ~ 90% RH
Power	15W	15W	300W
Input Voltage	AC 100 ~ 240V, 50 ~ 60Hz	AC 100 ~ 240V, 50 ~ 60Hz	AC 100 ~ 240V, 50 ~ 60Hz
Trunk Protocol	IEEE 802.1q	IEEE 802.1q	IEEE 802.1q
Firmware OS	Ubuntu	Ubuntu	Ubuntu
DHCP Server	Yes	Yes	Yes

	Probe 600X Plus	Probe 1000X Plus
image		
CPU	Intel G5400 3.7GHz (2Core)	Intel I3-8100 3.6GHz (4Core)
MEMORY	8GB	8GB
Flash	1TB	1TB
Interface	4 x RJ-45 (Ethernet 10/100/1000 Mbps) 2 x SFP Module Slots 1 x RJ-45 (to RS-232) Console 2 x USB 3.0	4 x RJ-45 (Ethernet 10/100/1000 Mbps) 4 x SFP Module Slots 1 x RJ-45 (to RS-232) Console 2 x USB 3.0
Size (mm)	430 (W) x 44 (H) x 330 (D)	430 (W) x 44 (H) x 330 (D)
Weight	5.0Kg	8.0Kg
Operation Environment	Temperature : 0°C ~ 40°C Humidity : 0% ~ 80% RH	Temperature : 0°C ~ 40°C Humidity : 0% ~ 80% RH
Power	300W	400W Redundant
Input Voltage	AC 100 ~ 240V, 50 ~ 60Hz	AC 100 ~ 240V, 50 ~ 60Hz
Trunk Protocol	IEEE 802.1q	IEEE 802.1q
Firmware OS	Ubuntu	Ubuntu
DHCP Server	Yes	Yes

*Above H/W specifications are subject to change without notice.

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