

IP Address Management System (IPAM)

Designed for network administrators, IPAM is a comprehensive address management platform that allows you to securely manage your entire IP inventory from a single center with automated network scanning, VLAN tracking, device and rack management.

Network Management Challenges

Growing IT infrastructures and the increasing number of devices push the complexity of corporate networks to the peak. Tracking IP addresses in manual spreadsheets leads to IP conflicts and network outages due to missing or incorrect records, severely reducing operational efficiency. The inability to monitor devices, racks, and VLAN structures in scattered locations from a single center blinds network visibility. The lack of standardization in request and approval processes paves the way for unauthorized or incorrect IP assignments. Inability to detect offline devices in dynamic network environments and outdated inventory data create security and audit vulnerabilities.

⚠ Who can benefit?

· For teams experiencing conflicts while tracking IPs in Excel spreadsheets

· For administrators unable to monitor different locations and VLANs on a single screen

· For specialists losing time manually cleaning idle IPs on the network

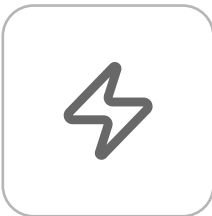
· For teams seeking security and approval mechanisms in IP assignment processes

Core Principles



Centralization

Single address for the entire IP inventory



Consistency

Prevention of IP conflicts and errors



Automation

Automated network discovery and status tracking



Visibility

Clear tracking of VLANs, devices, and networks

Technical Specifications

Network and Inventory Management

- ✔ Automated network scanning and IP discovery
- ✔ Device, circuit, and location inventory
- ✔ Visual rack and hardware topology
- ✔ Comprehensive VLAN tracking and management

Status Monitoring and Operation

- ✔ Status control with ping scanning
- ✔ Automated deletion of offline IPs
- ✔ Automated IP request and approval workflows
- ✔ Email-integrated notifications

Authentication Management

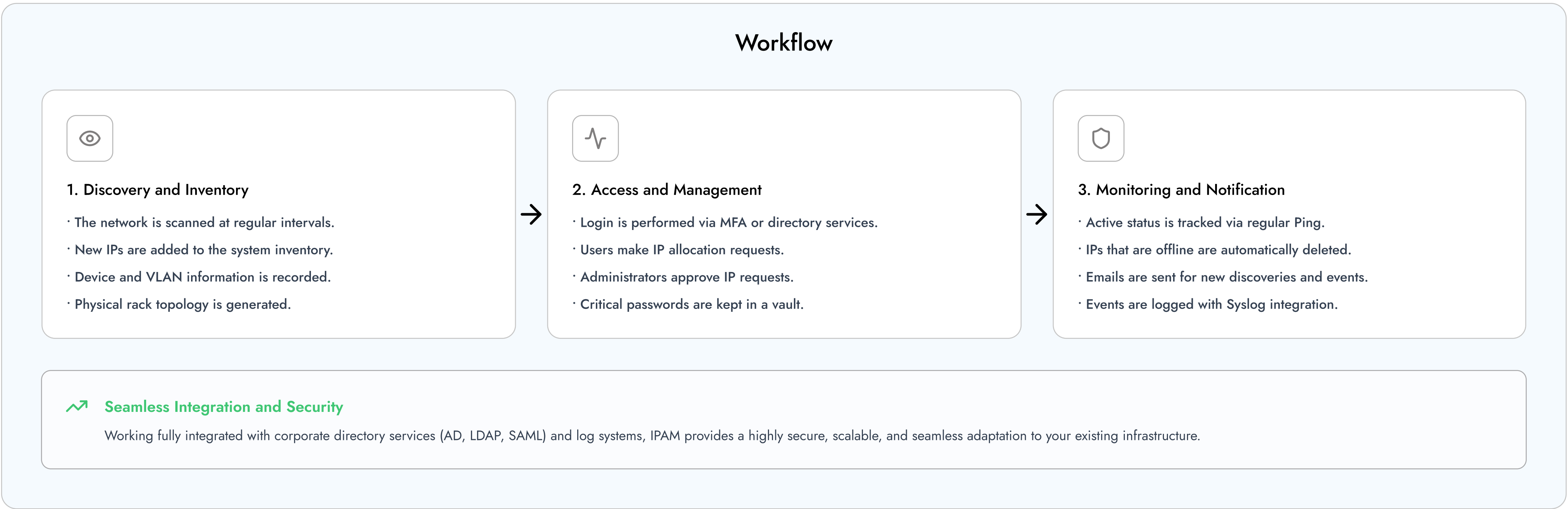
- ✔ AD, LDAP, and Radius integration
- ✔ Local, NetIQ, and SAML authentication
- ✔ Multi-factor access with Google 2FA
- ✔ Hardened password policy

Security and Log Management

- ✔ Encrypted vault for sensitive data
- ✔ Centralized logging via Syslog
- ✔ Instant alert on new IP discoveries
- ✔ Tracking of system changes

How Does IPAM Work?

IPAM builds your IP inventory by automatically scanning your network infrastructure. It manages address allocation through secure access and approval mechanisms. Thanks to centralized monitoring and logging, it ensures your network remains up-to-date, organized, and continuously secure.



Advantages



Automated Network Scanning

It scans your network automatically to detect new IPs. It performs status tracking with ping scans and cleans up offline addresses.



Security and Authentication

It works integrated with AD, LDAP, and SAML. It increases access security with Google 2FA and protects sensitive passwords with Vault.



Visual Rack Management

It centralizes your device, circuit, location, and VLAN inventory. It presents intra-rack device layouts via a visual topology.



Request and Approval Processes

It prevents conflicts by linking IP address allocations to approval. It sends instant emails upon new IP discoveries and system changes.