Discovery Module

Know the exact equipment on your network to identify or remediate risk, be that EOL, misconfigured or non-approved equipment.

Requirements to run Discovery

- Access to the Stella Portal for the property
- Physical Stella Relay on the LAN using a POE port
- OEM end-of-service life and warranty look-up API
- Open outbound internet access via firewall on TCP/443 to Stella VPN
- Unrestricted access to VLANs for device discovery
- VLAN tag, VLAN host IP address and subnet mask for each VLAN
- Active device credentials
- Wireless controller makes and IP addresses

Outputs

- Inventory report of network devices discovered including make, model, name, serial number, firmware, EOSL date*, and warranty status*
- Unidentified active device report
- Audit log
- Notifications (email/Slack/SMS/Teams)

*If supplied

Stella Discovery network report can be produced less than an hour after installation.

Human engineer vs Stella

	Network engineer	Non-technical person working with Stella
1 network	9.3 hours	90 seconds
1,000 networks	61 months*	25 hours
5,000 networks	305 months*	17 days*
Audit — same result when repeated?		✔
Accuracy		100%

An average network with 12-edge switches, core switch, firewall and wireless controller

* Days and months are based on 38hr working weeks

Stella security & hardware

Stella keeps you secure

Security is a principal concern at Stella, so we take a multi-layered approach to security for all Stella systems including the Stella Relay and Stella Satellite:

- **The Stella Relay is a single-purpose device**
  The Stella Relay is built specifically as simple jumping points for securely accessing your network with no additional functionality. Each Relay is provisioned with unique credentials and can only be used with the target network.

- **The Stella Satellite can leverage your VM infrastructure**
  The Stella Satellite is also a secure jumping point but can be virtualised and has the ability to monitor your network. If you don't have virtual server infrastructure, then the Stella Satellite hardware can host a Stella Satellite and other services such as RADIUS or PMS Interfacing.

- **Stella doesn't keep your data**
  All Stella devices, physical or virtual, use encryption in flight and at rest, and temporary storage to ensure your data is secure. Stella Relays purge details such as the configuration of your network, compliance tests, and logs after each round of testing, ready for the next run. Stella Satellites retain data for monitoring but purge all data when powered down.

- **All access to the Stella Relay and Stella Satellite Is over encrypted links**
  Each Stella Relay and Stella Satellite call home to a secure network via encrypted VPN links and wait for instructions.

- **All Stella Relays and Stella Satellites are isolated**
  Stella Relay and Stella Satellites can only access the Stella VPN servers and are not accessible outside of the VPN link. Communication between Stella devices is blocked.

- **Humans need not apply**
  The Stella Relay and Stella Satellite can only be accessed by our automation platform.

Built on the shoulders of giants

Like almost every software product, Stella is built on best-of-breed technologies that includes large and mature open-source software projects such as Linux, SSH, Python, Ansible, and OpenVPN.

Supply-chain security is monitored

We automatically monitor the projects and libraries incorporated into Stella to ensure that all security updates are implemented as soon as possible.

Which means, with Stella your attack surface is minimal and resides in AWS best practice security protocols.

Secure by design

Stella does not hold personal or financial information. All services have a minimal attack surface protected by AWS managed services and configured to AWS best practices.

Hardware environment

Each module of Stella required an on-network presence to operate effectively and report back to Stella.

Determining factors in selecting the Stella Relay or Stella Satellite is the size of the network and the tolerances of the device performance metrics.

Hardware	Deployment	Discovery module	Compliance module	Configuration module	Stella Central (inc. Monitoring)	Can host VMs?
Stella Relay	Dedicated Hardware	✔	✔	✔	✖	✖
Stella Satellite	Virtual Stella Satellite	✔	✔	✔	✔	✔
Existing VM infrastructure	Virtual Stella Satellite	✔	✔	✔	✔	N/A

To find out more, email us at info@stellanetworks.io or got to www.stellanetworks.io