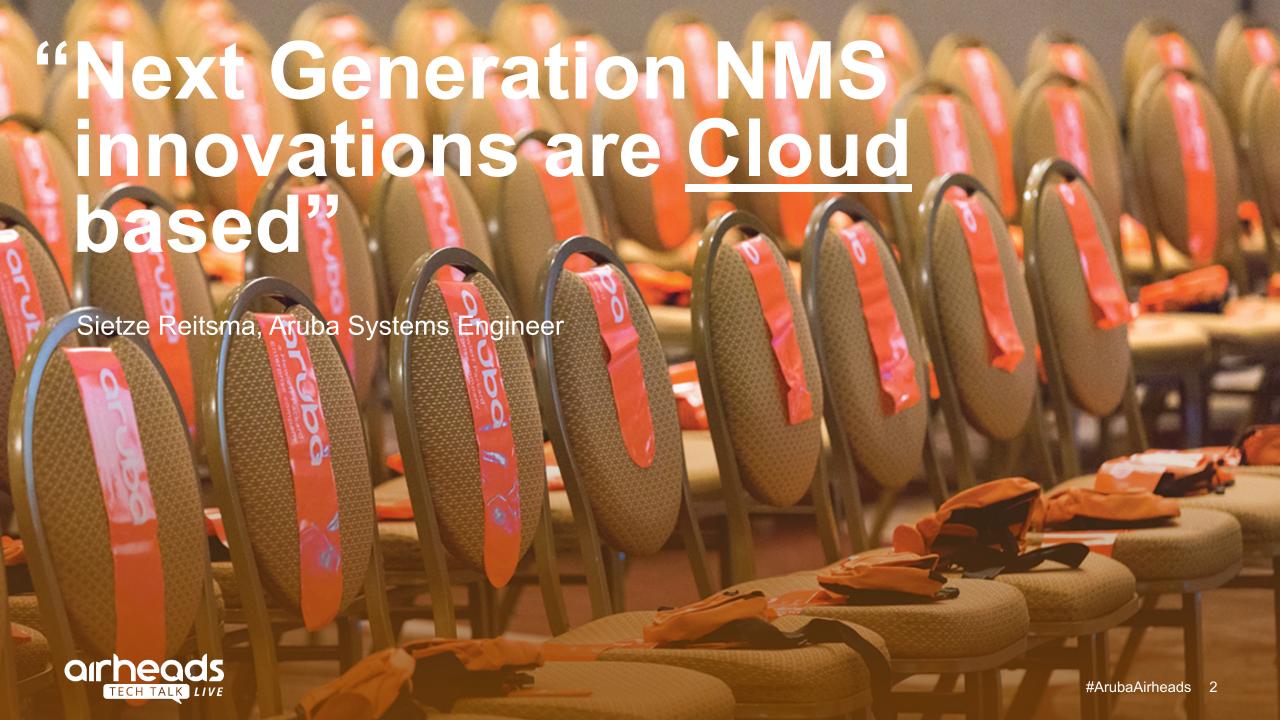




Aruba Central

Switch management

Sietze Reitsma, Systems Engineer



TODAY'S ENVIRONMENTS HAVE CHANGED

External Factors

Mobility & IoT



Growing number of users, devices & things

Geography



Multiple business locations, sites or locales

Performance



Anywhere access via non-traditional devices

Organizational Challenges

Manpower & Budget



Leaner teams driven to do more with less

Insigh



Limited visibility & control to avoid firefighting

Flexibility



Inability to grow with emerging business needs



THE ROLE OF IT IS SHIFTING

By 2021, 40% of IT staff will hold multiple roles, most of which will be business- rather than technology-related.

Gartner 2018 Predictions

Old World

Network Management

Element Monitoring

Break/Fix Tools

New World

Experience Management

Services-Oriented IT

Automation / Orchestration
Cloud



AUTOMATE EVERYTHING

SD-BRANCH



PROVISIONING

Automation that drives network infrastructure configuration.



POLICY

Automation that drives device identification, segmentation, and applied actions



AI-OPS

Automation driven from telemetry collection and ML

Installer App

Group and device hierarchy

Device Insight

Dynamic Segmentation

Al Insights to fine-tune RF

Adaptive QoS for WAN

Al Insights for SD-WAN



ARUBA CENTRAL CLOUD **MANAGEMENT**

Experience Driven Management



Wired and Wireless



Value Added Services

Wi-Fi

Presence Analytics

Connectivity Health







Redundant & Frequently Updated Scalable Architecture

Streamlined Provisioning & Workflow-Driven Usage Models

Built-In API Extensibility and Managed Services Mode

Extensibility via REST APIs

(Configuration, Monitoring, Alerts and Secure Access)





ZERO TOUCH PROVISIONING



Streamlined Deployment

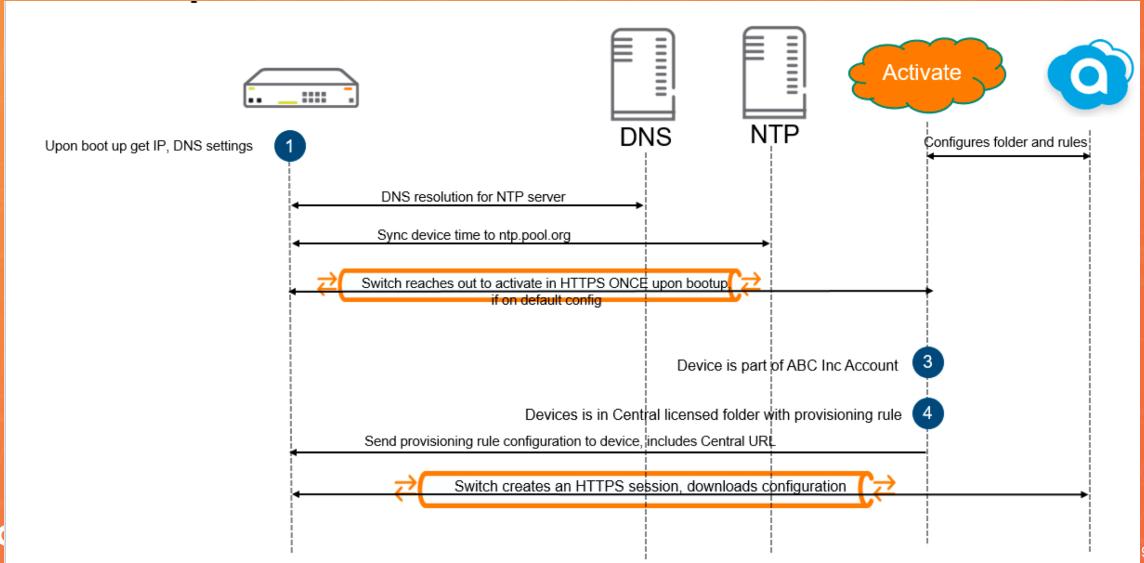
No Onsite Expertise

Intelligent Workflow

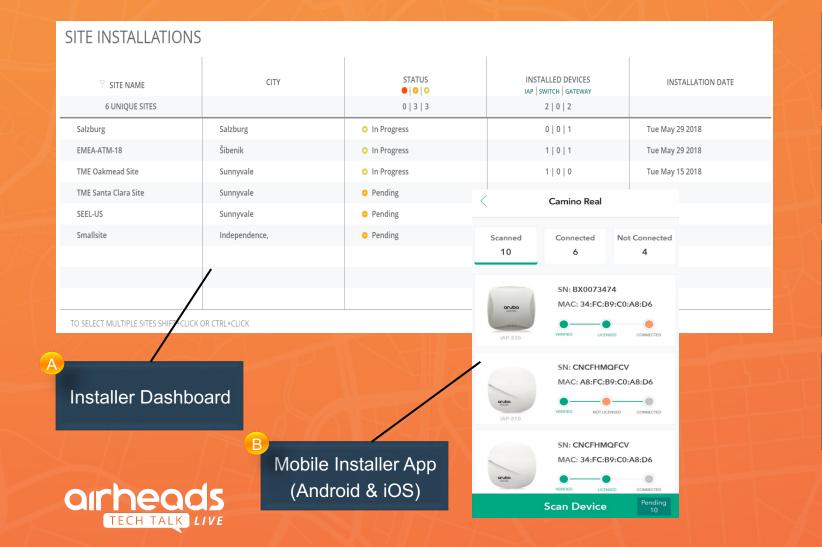
Business Grade Wi-Fi



ZTP



DEVICE ONBOARDING (w/MOBILE APP)



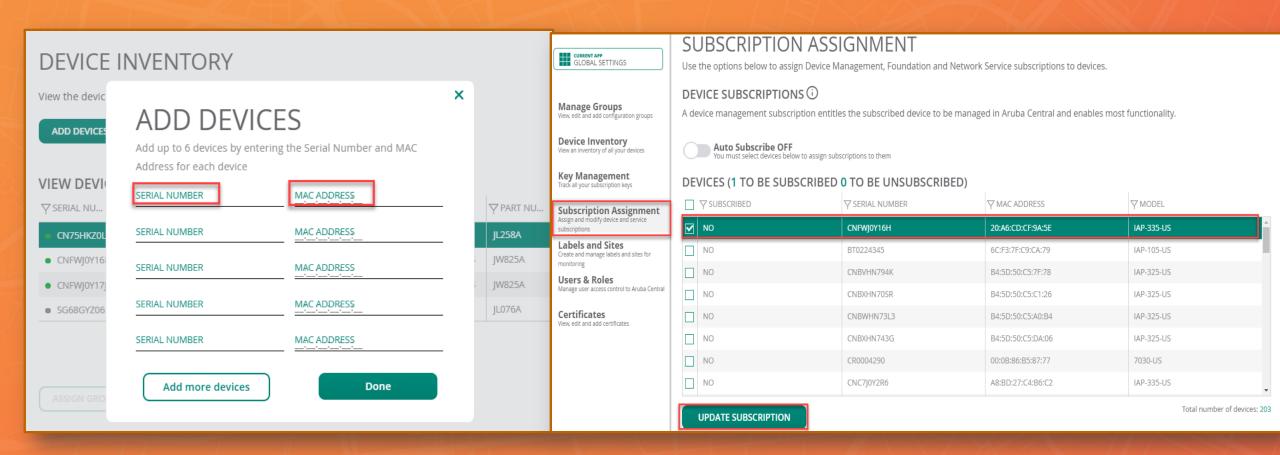
Admin configures installer details and allowed sites

Installer receives SMS on allowed sites and credentials

Installer scans devices and adds to assigned network

Site status and types of installed devices provided in dashboard

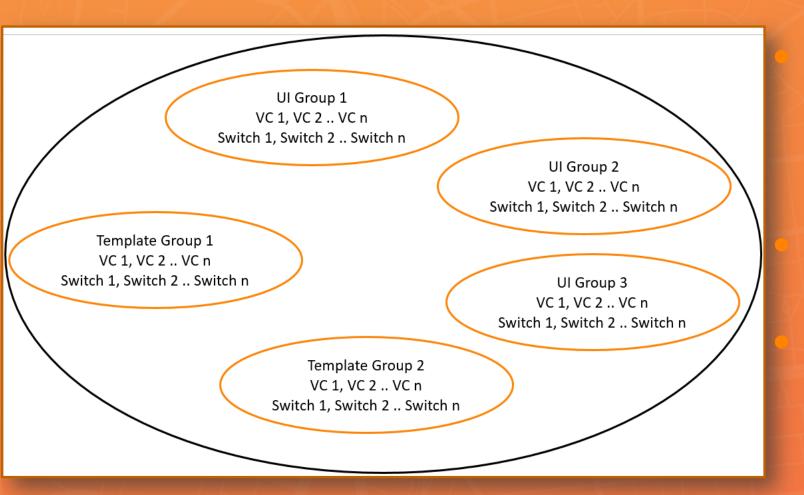
Add device manually





Understand and create UI Group and Template Group.

Groups are mutually exclusive configuration containers



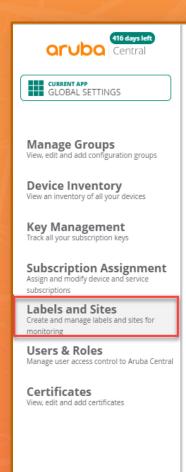
Central defines a **Group** as a collection of devices which share common configuration settings.

There can be several groups in Central.

A Group can contain one device or hundreds of devices.



Create sites for monitoring



LABELS AND SITES

Labels are logical sets of devices which can be used for a variety of monitoring and reporting purposes. Each device can be associated with up to five labels, and a label can apply to as many devices as you want.

Sites allow you to group devices based on the location context

MANAGE SITES

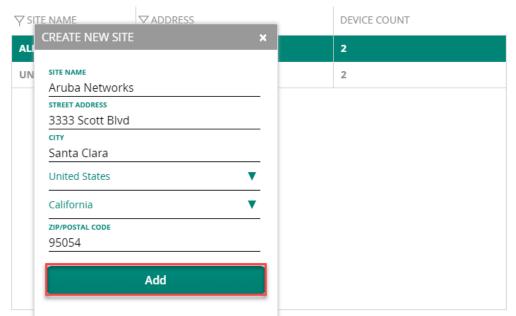
New Site

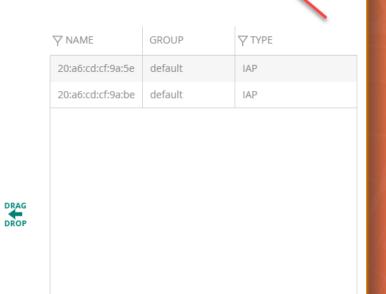
Bulk upload

DRAG AND DROP DEVICES TO ADD TO A SITE

TO SELECT MULTIPLE DEVICES SHIFT+CLICK OR CTRL+CLICK

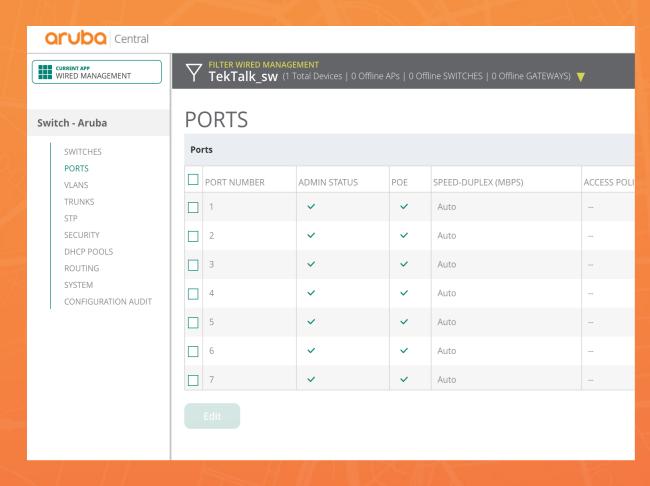
CONVERT LABELS TO SITES





Labels

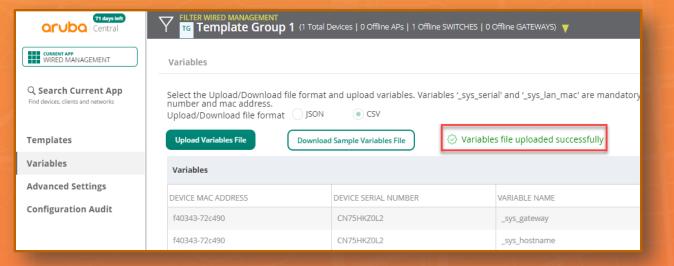
GUI vs Templates



- %_sys_template_header%
- hostname "% sys hostname%"
- % sys module command%
- %if sys use dhcp = 0%
- ip default-gateway %gw%
- ip dns server-address priority 1 %dns%
- %endif%
- no cwmp enable
- include-credentials
- interface 1
- %port.1.status%
- name "IAP-1"
- exit
- vlan X



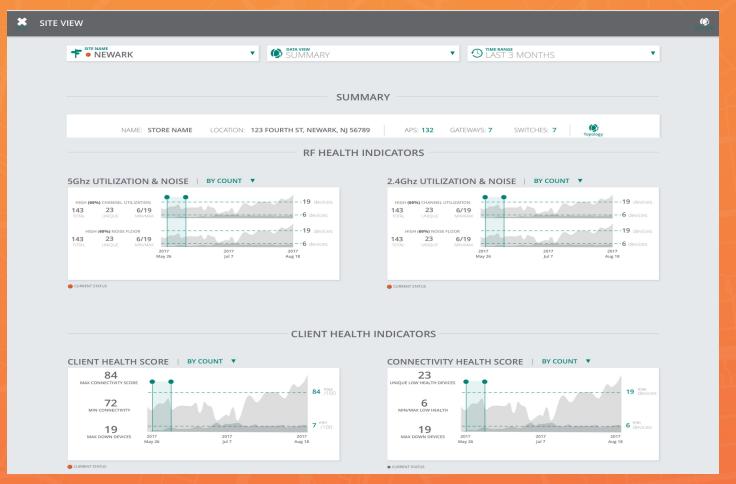
Golden template with variables



```
arheads
```

```
"Serial number of switch": {
 " sys lan mac": "MAC address of Switch",
 " sys serial": "Serial number of switch",
          " sys hostname": "HOL-POD-X-SW",
          " sys snmpv3 engineid": "",
          "_sys_use_dhcp": "0",
          "gw": "172.30.Y.1",
          "dns": "1.1.1.1",
          "static.ip.mask": "172.30.Z.9 255.255.255.224",
  "port.1.status": "enable",
          "port.2.status": "enable",
          "port.9.status": "disable",
          "port.10.status": "disable"
```

SITE HEALTH MONITORING



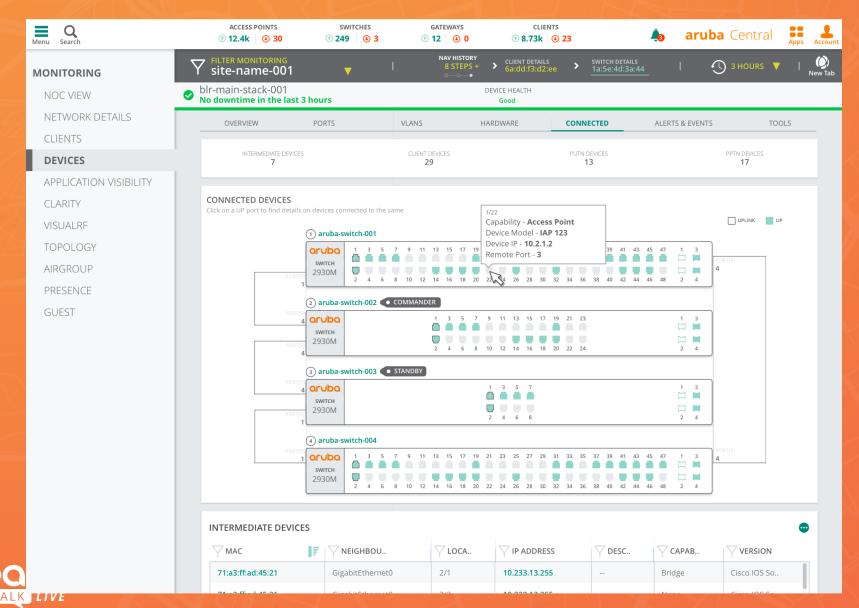
System Health – Connectivity, **CPU & Memory Utilization**

RF Health – Channel Utilization and Noise Floor

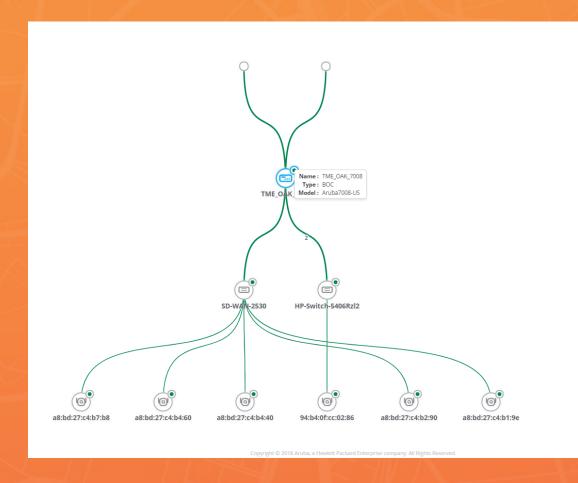
Health Scores – Clients and Connectivity

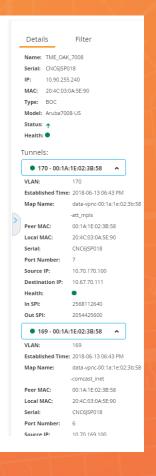


Physical Stack monitoring



SITE TOPOLOGY & OPERATIONAL HEALTH





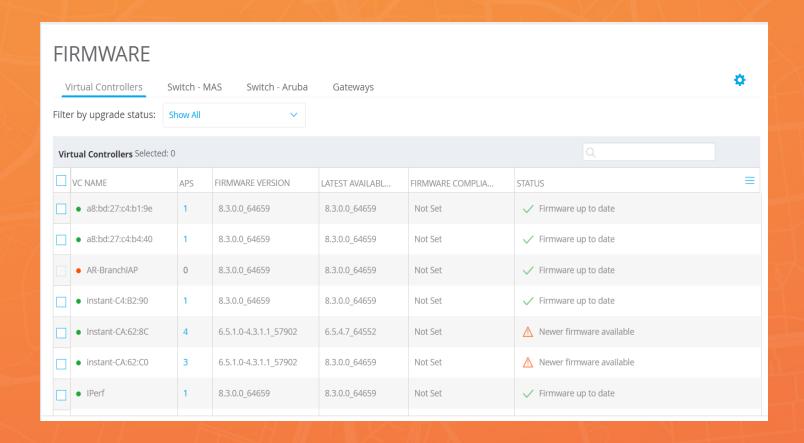
Health Status of Targeted **Devices and Links**

Multiple Views – Tree & Planetary with VLAN Overlays

Detailed Status of Connected Devices and Links



FIRMWARE UPGRADES & COMPLIANCE



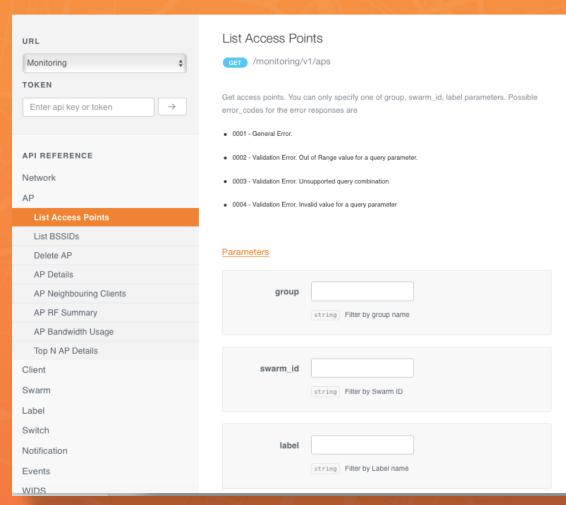
Manage Compliance Status Across Entire Infrastructure

Coverage for Wired, Wireless and WAN

Displays Current, Latest Available and Compliance Status



API BASED EXTENSIBILITY





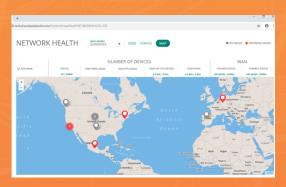
Every feature and function of UI available via API's

Complete lifecycle coverage from provisioning to logging & reporting

Secure gateway access, with OAuth authentication



ARUBA SD-BRANCH CLOUD MANAGED FULL-STACK SOLUTION



Single Pane of Glass

Zero-touch Provisioning

One touch, hierarchical config changes across thousands of sites

End-to-end visibility across Wireless, Wired, WAN



Client, Gateway, WAN Health Scores

Easy troubleshooting & RCA

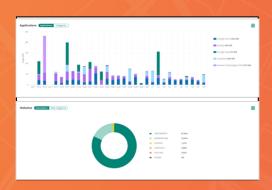
Site Topology, Context Based Correlation



True Enterprise SD-WAN

Dynamic Path Selection and Policy Based Routing

> SLAs with fine-grained context awareness



Role-Based Policies, Application Visibility, Access Control

Layer-7 Firewall, Web Content Classification

Prioritize business critical applications for QoS





OIT ALK LIVE

Thank You