EM DevXchange 11 & 12th May 2016

Support for Cisco Wireless Controller and Access Points

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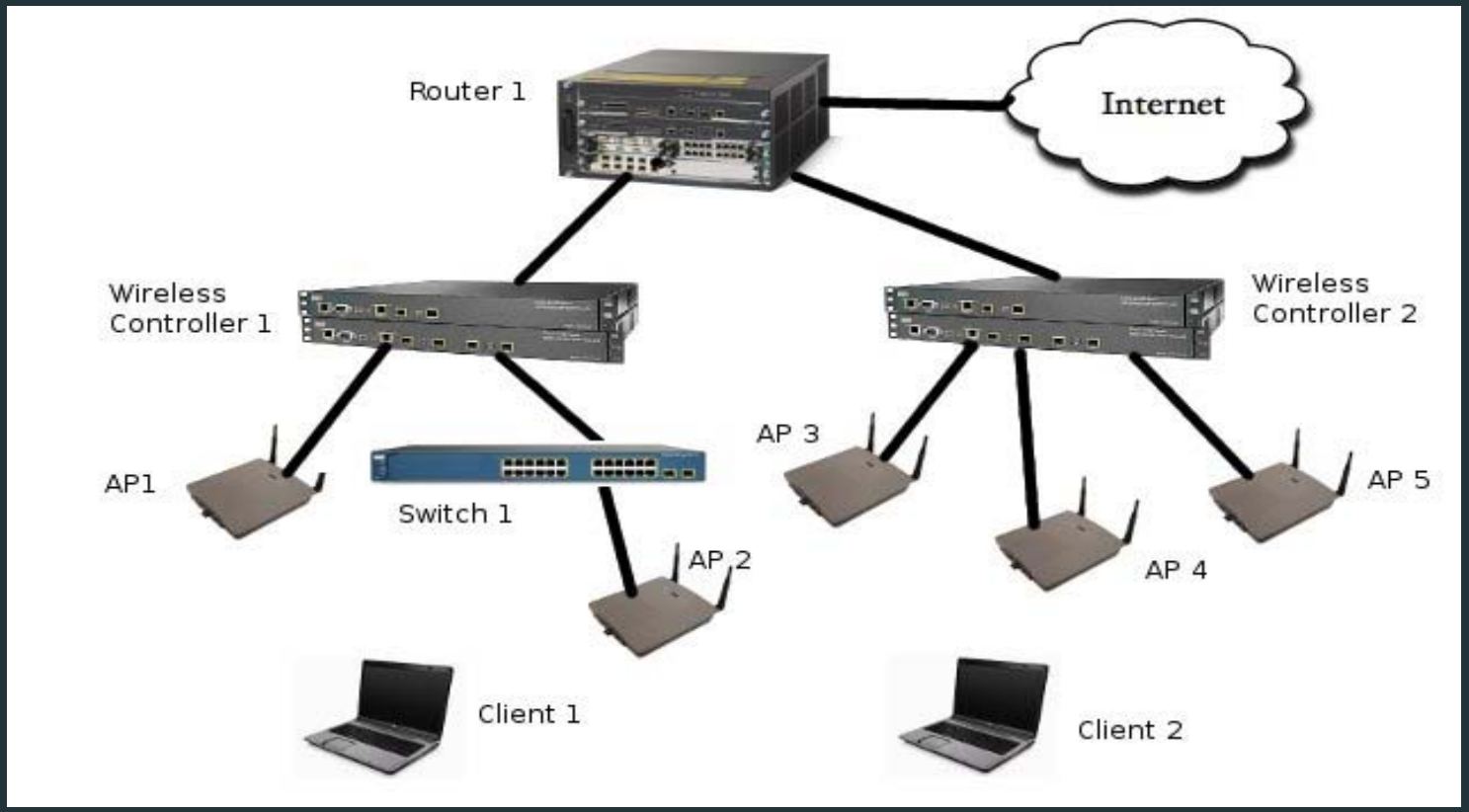
Overview



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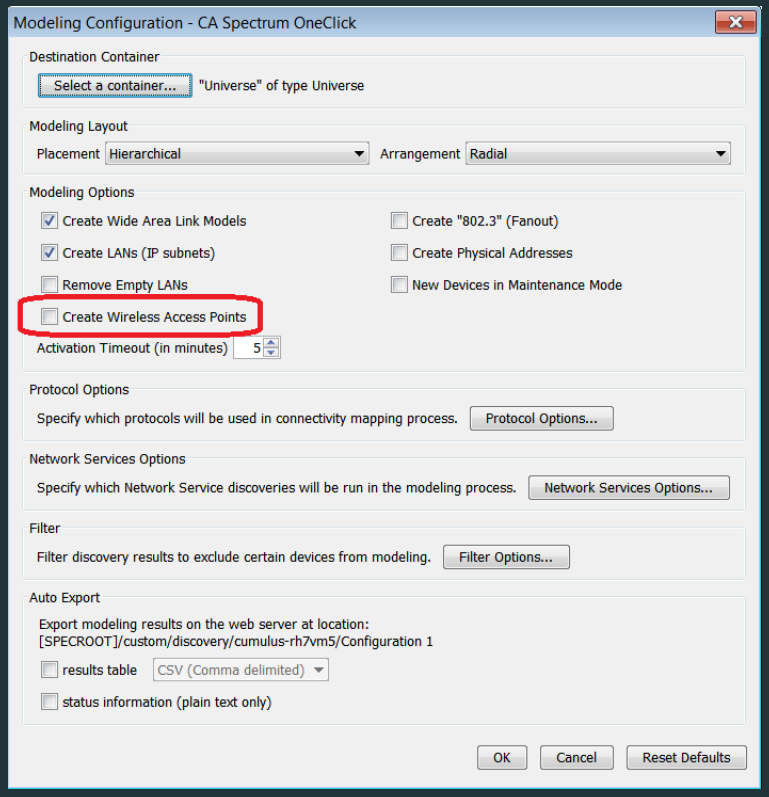
Wireless Key Features

- Support for monitoring of Cisco Wireless LAN Controllers (WLC) and its connected Cisco Access Points (AP)
- Discovery and modelling of different series of Cisco WLC's and AP's
- Complete WLC network topology with connections in between WLC, L2/L3 devices and AP's
- WLC device information tabs have different views which provide insight into details of wireless configuration, access points, mobile stations and thresholds
- WLC can be monitored for different traps, events, alarms, thresholds

Discovery and Modeling

- Enable the "Create Wireless Access Points" option in the Discovery Console > Modeling Options during initial discovery



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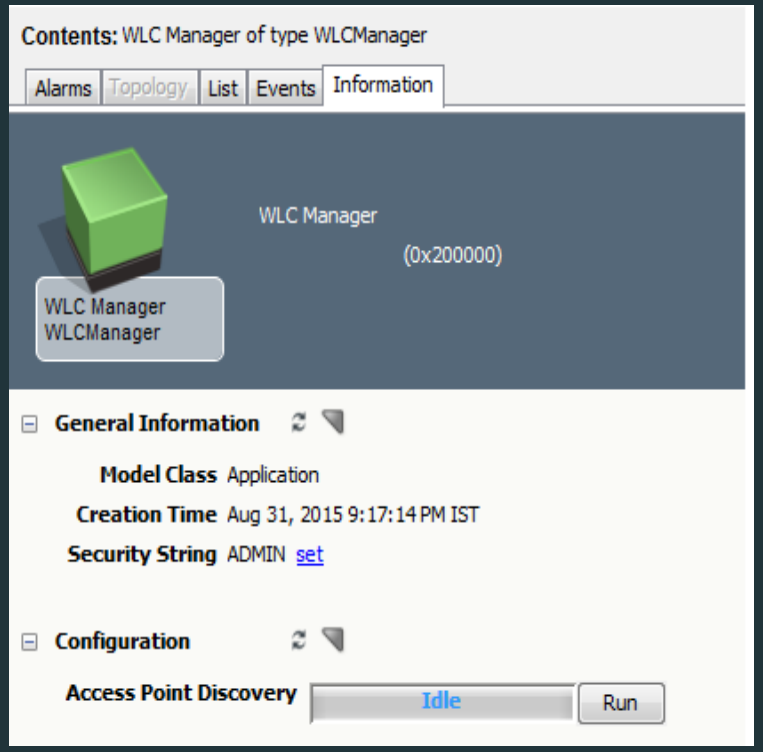
Discovery and Modeling



- Navigate to Explorer View > WLC Manager > Information Tab > Configuration sub-view > Access Point Discovery: and then click Run
- All access points (APs) will be created under their corresponding WLC Device(s)

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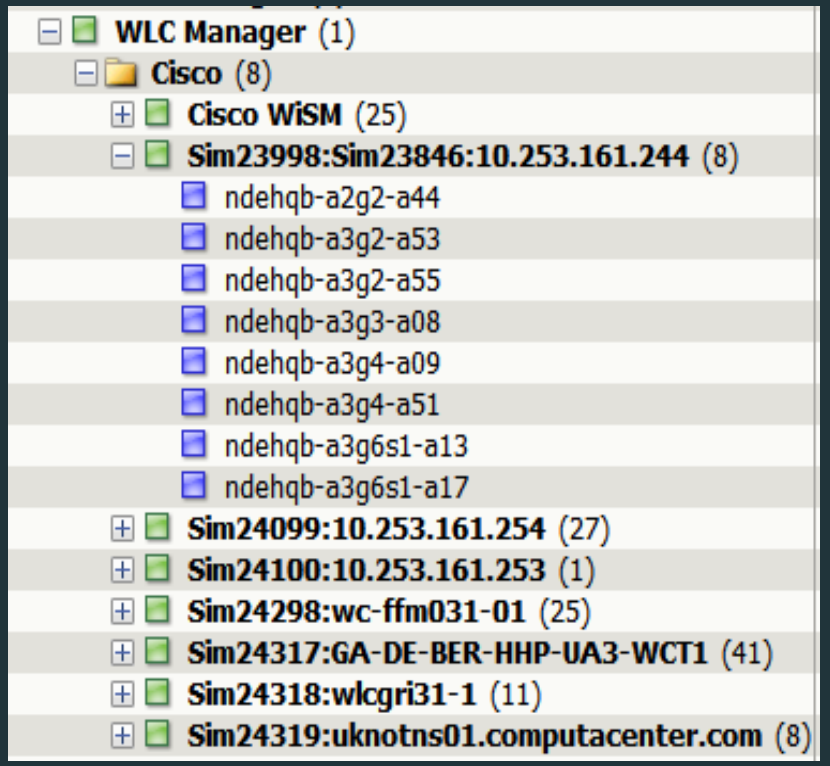
OneClick Views

- WLC devices modeled are listed under new WLC Manager Hierarchy in OneClick Console with respective AP's



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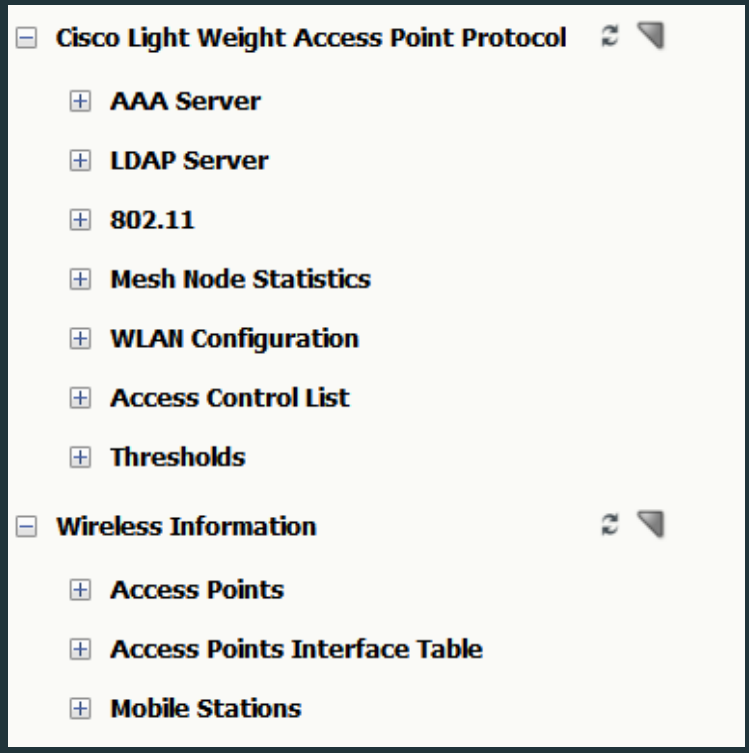
OneClick Views

- The OneClick content pane has views for LWAP and Wireless information and its sub views



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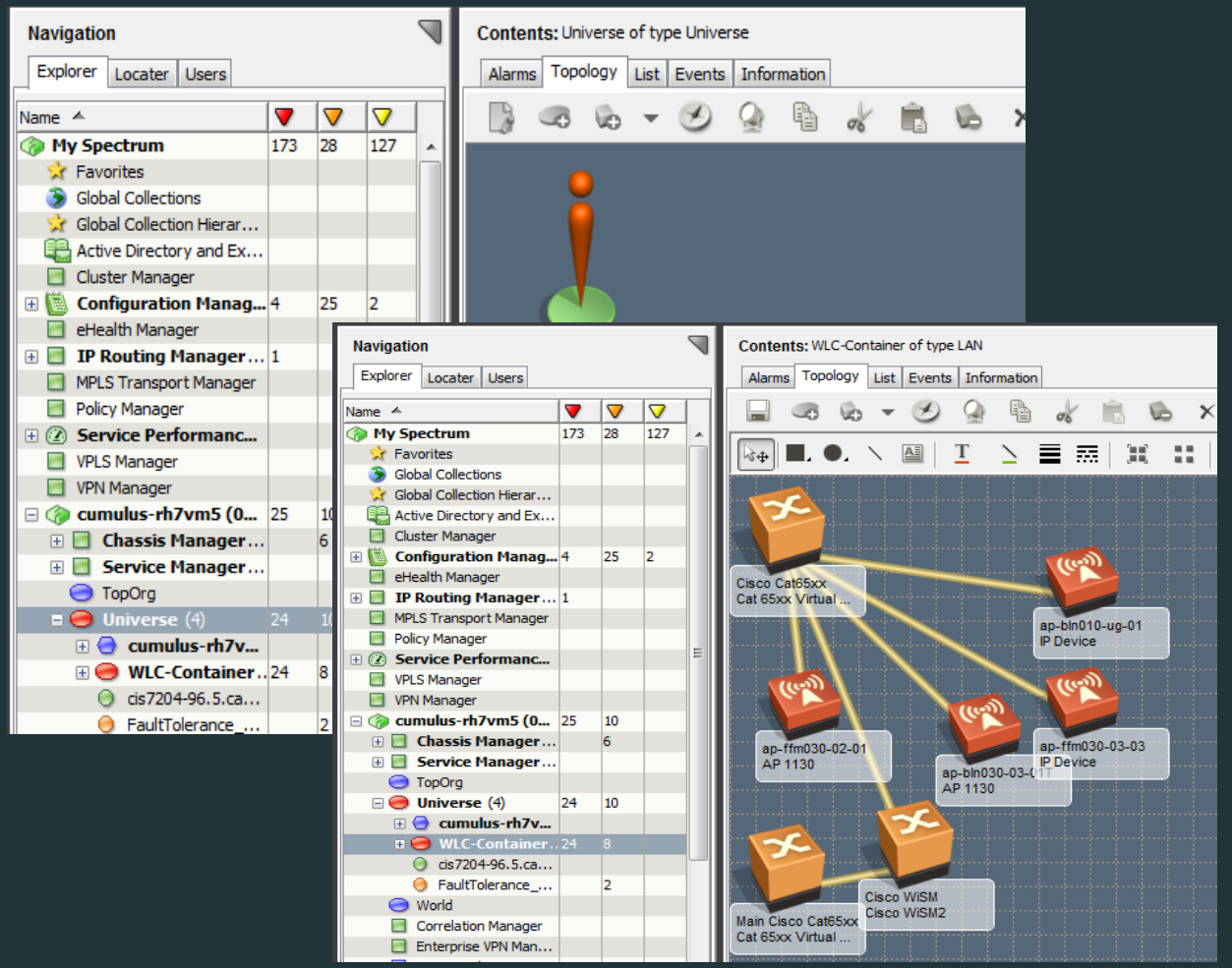
Topology View of WLCs and APs

- Topology view which display Controller and its connected access points
- Wireless Controller can be copied to a Container and its respective Access Points also get copied automatically
- Provides ability to manage the devices in the OC views



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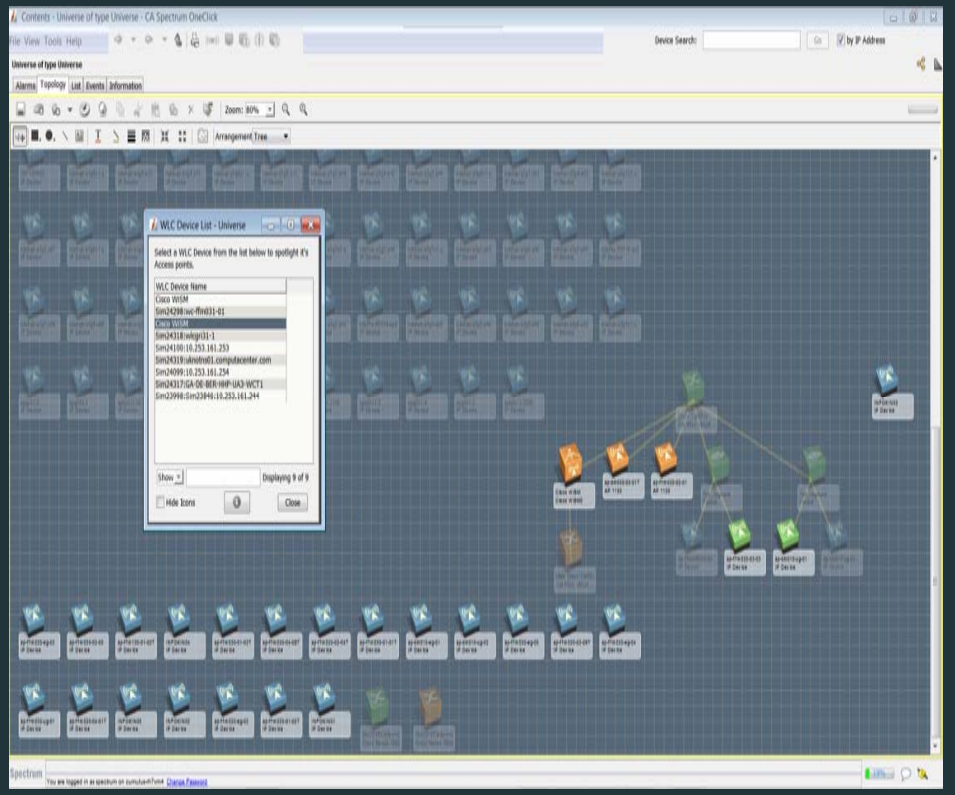
Spotlight View within Topology View

- Spotlighting Wireless Devices in the Topology view helps you determine relationships between WLC Devices and Access Points on your network
- Spectrum spotlights the WLC device selected from the list and its corresponding Access Points by dimming all other models/devices in the topology



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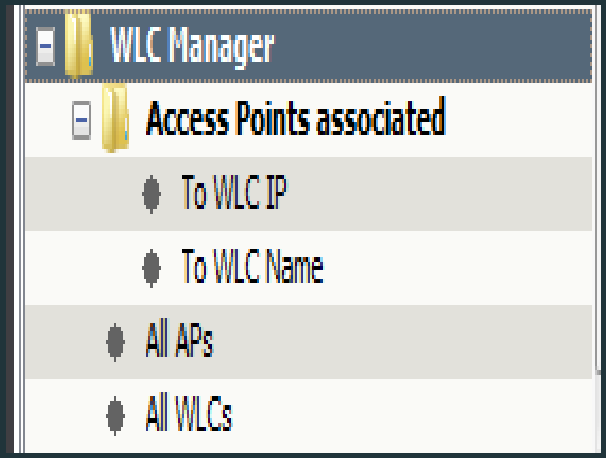
Locator Search for WLCs and APs

- Locater Search allows to use pre-configured searches to locate entities in the CA Spectrum database that are related to Wireless technologies
- Ability to search all Access Points which are associated to a Wireless Controller by specifying the name or IP Address
- Similarly allows to search all Wireless Controllers and Access Points in Spectrum



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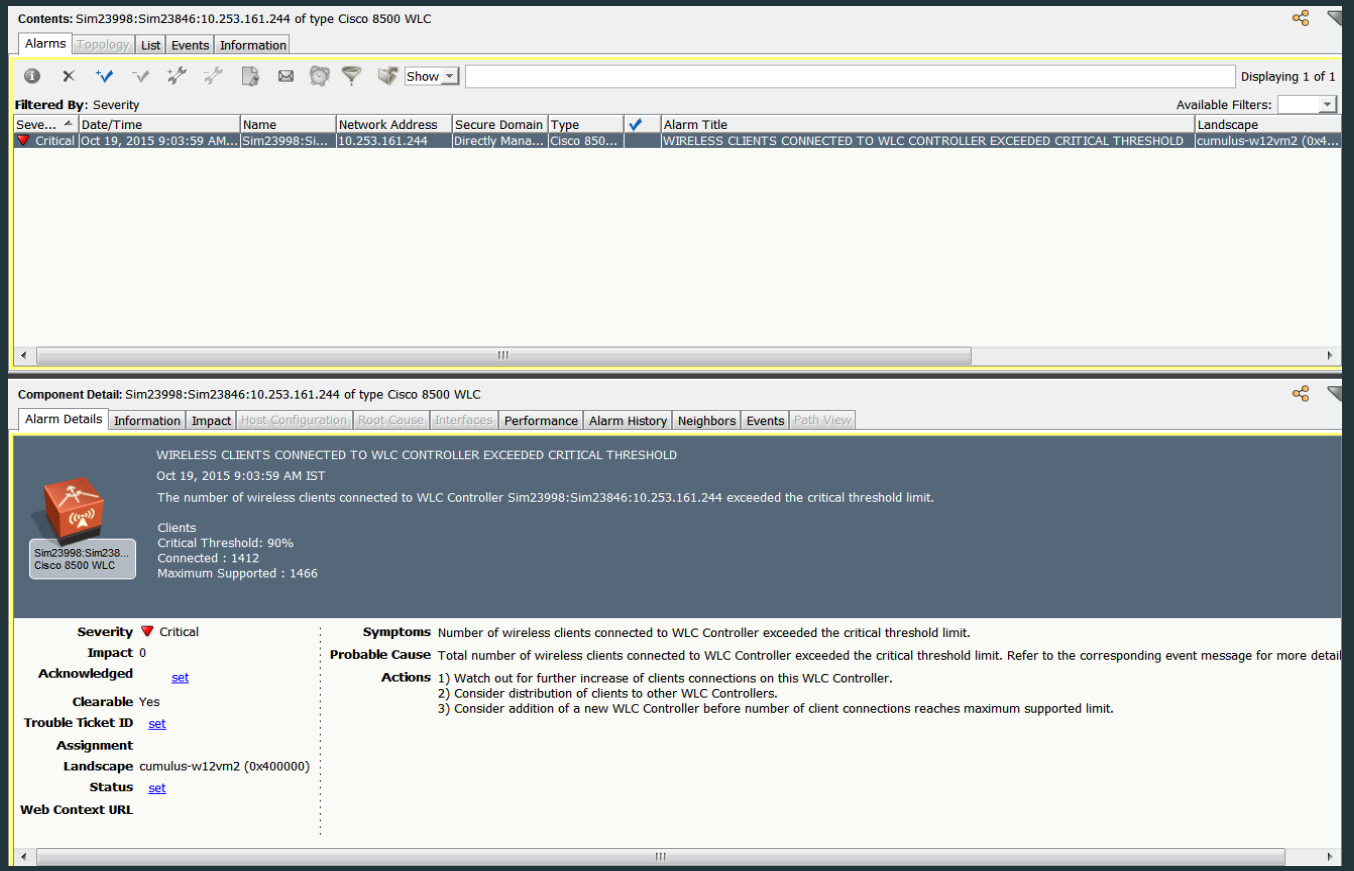
Alarms, Events & Traps

- All alarms on AP's are asserted on respective WLC



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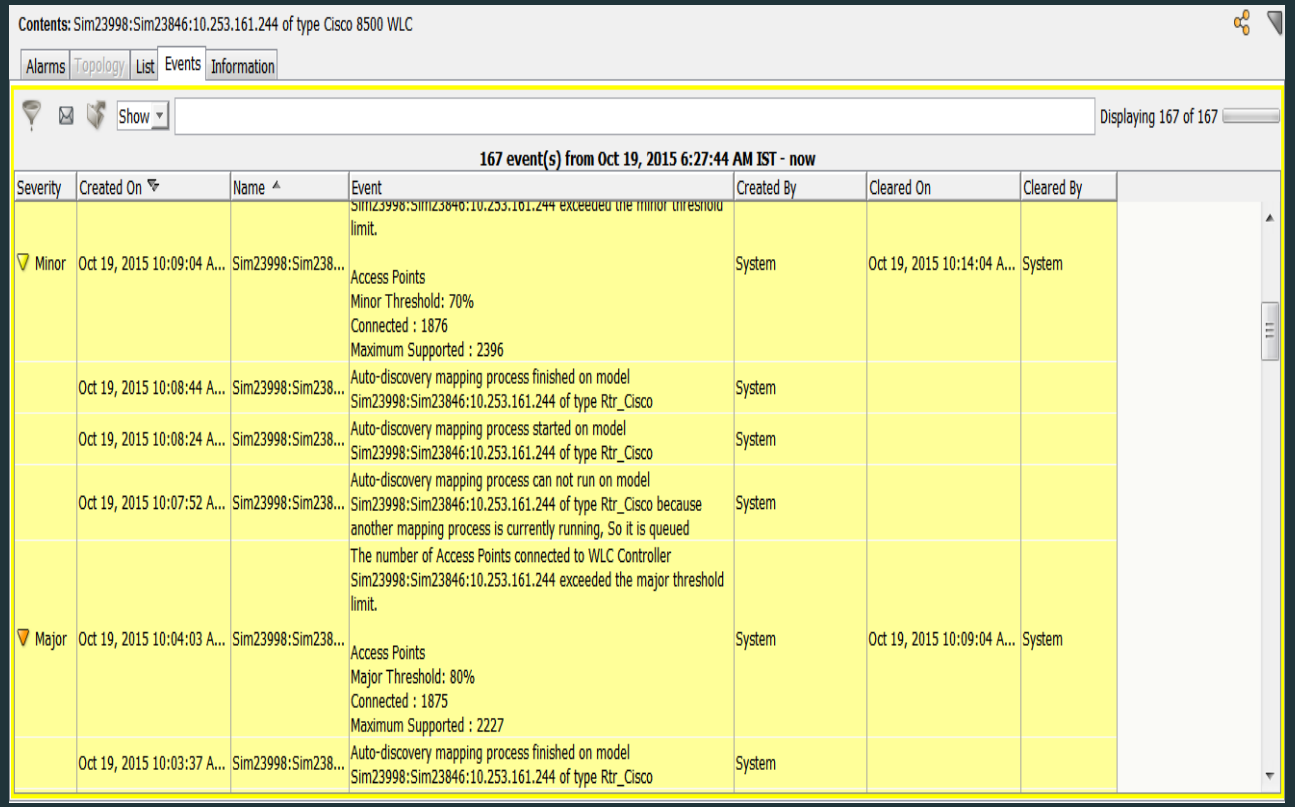
Alarms, Events & Traps

- Events for the selected Alarm



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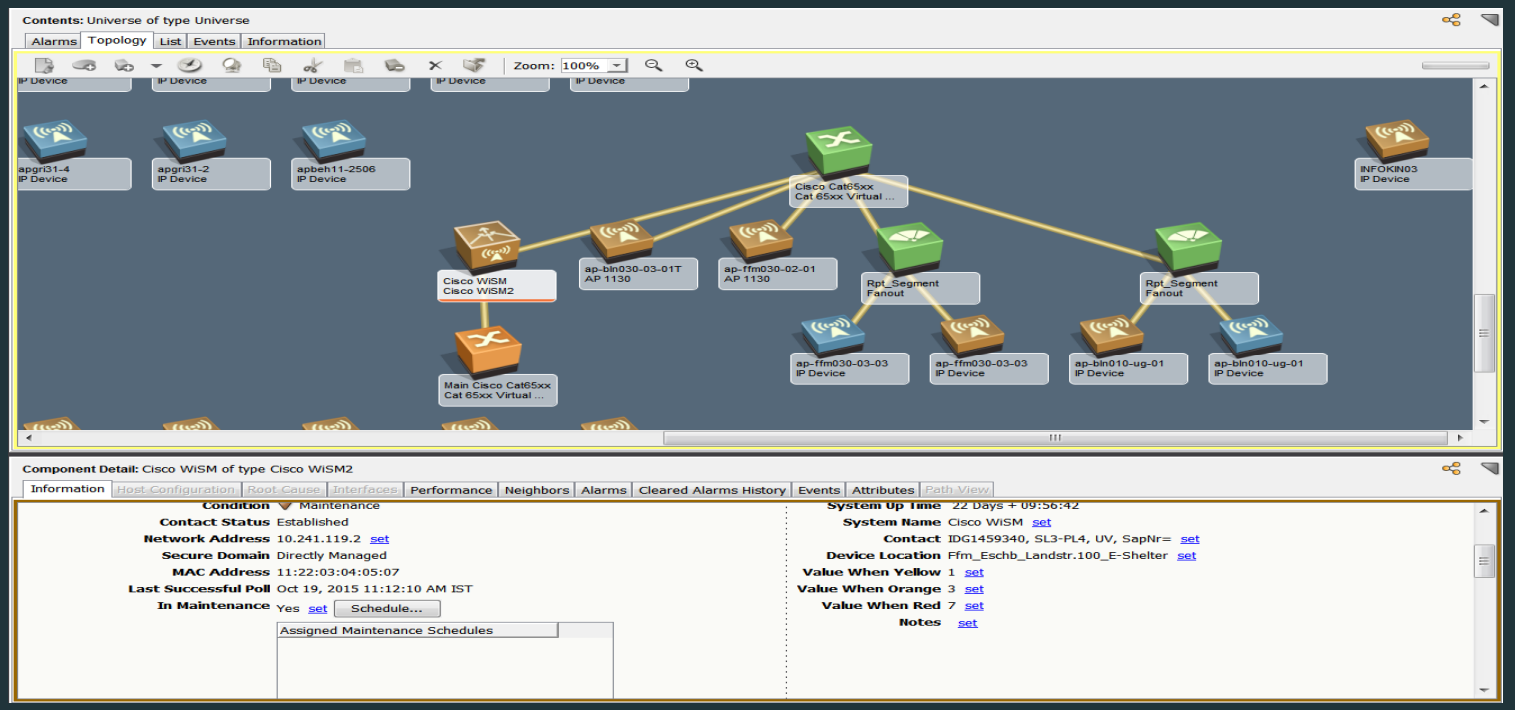
Support for Maintenance Mode

- WLC Manager can be put into maintenance mode
- The respective AP's will also be put into maintenance mode



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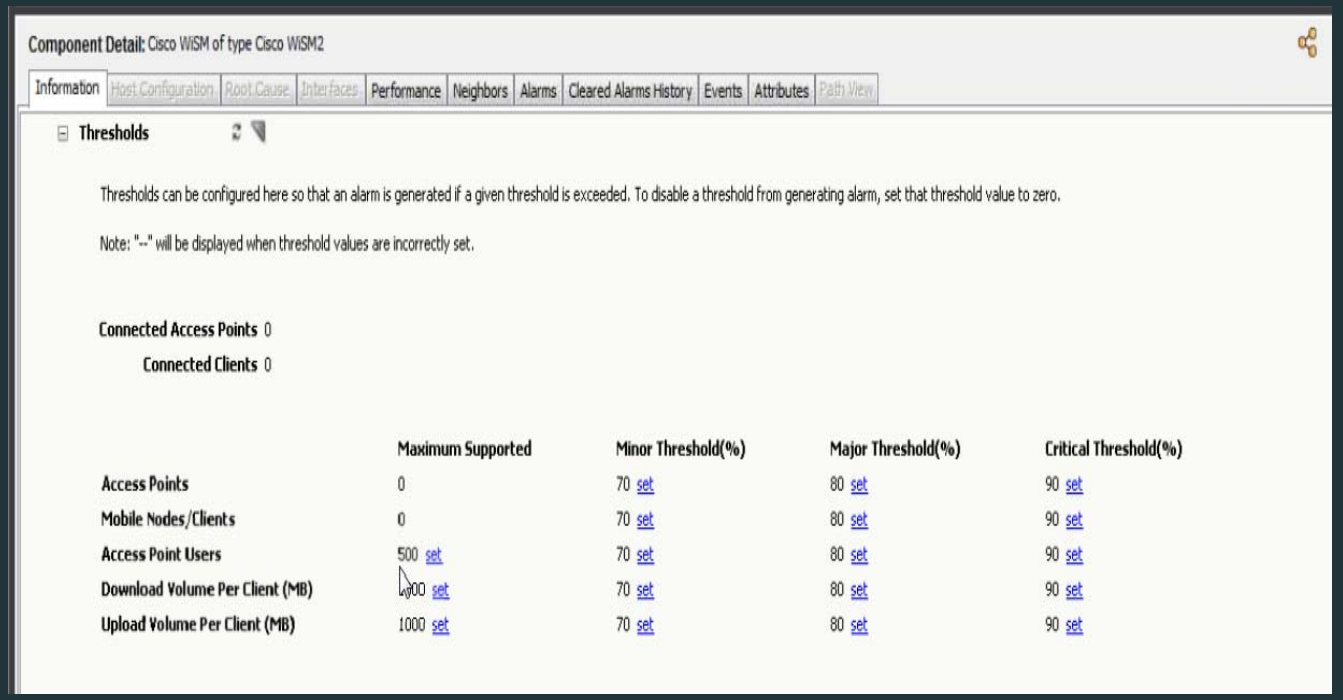
Proactive Management of the Wireless Environment

- Configure Thresholds for:
  - Access Points
  - Mobile Nodes / Clients
  - Access Point Users
  - Download and Upload Volume per Client



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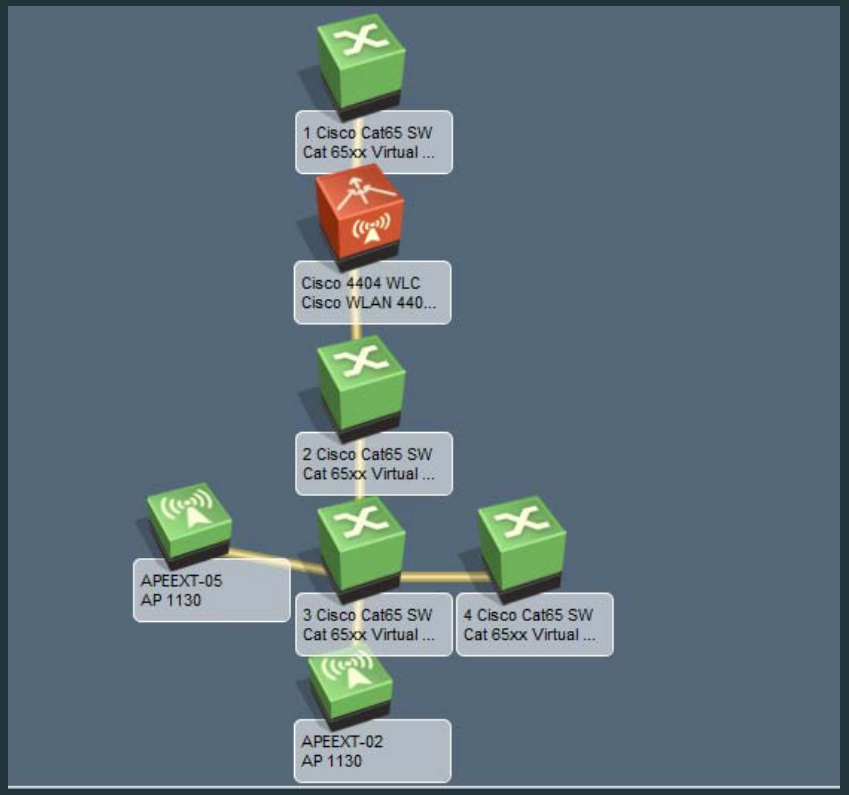
Root Cause Analysis – Case 1



- WLC is down but AP's are reachable
  - Critical alarm raise on WLC

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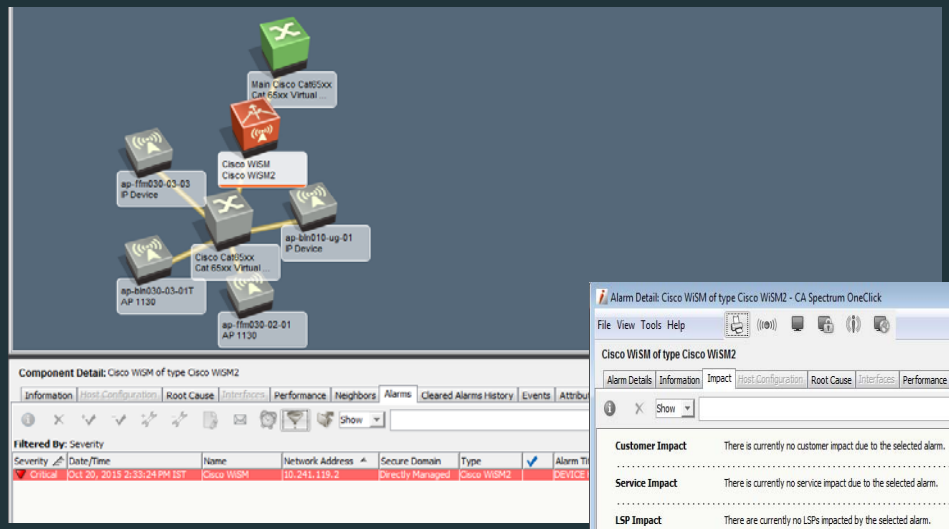
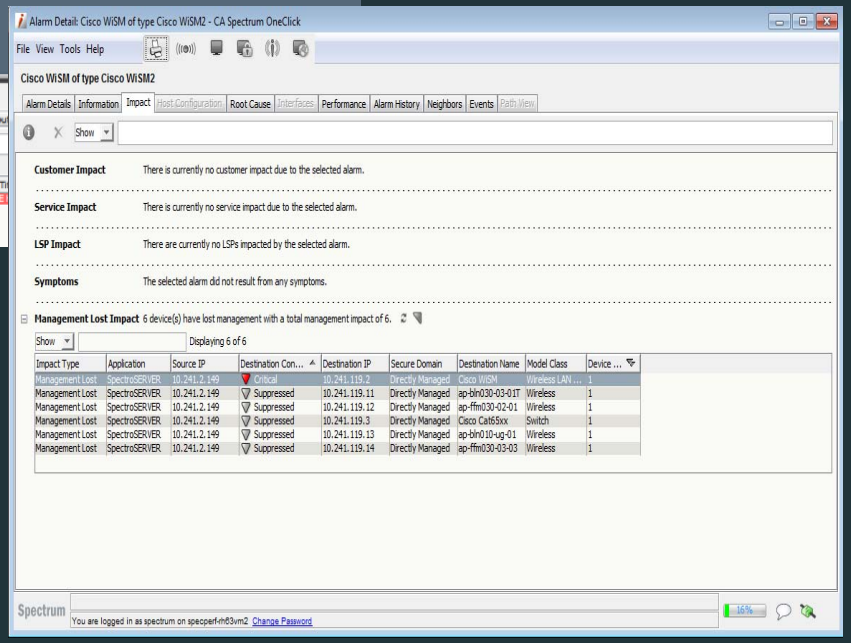
Root Cause Analysis – Case 2





- WLC is down and AP's also not reachable
  - Critical alarm raise on WLC and AP's will be greyed out

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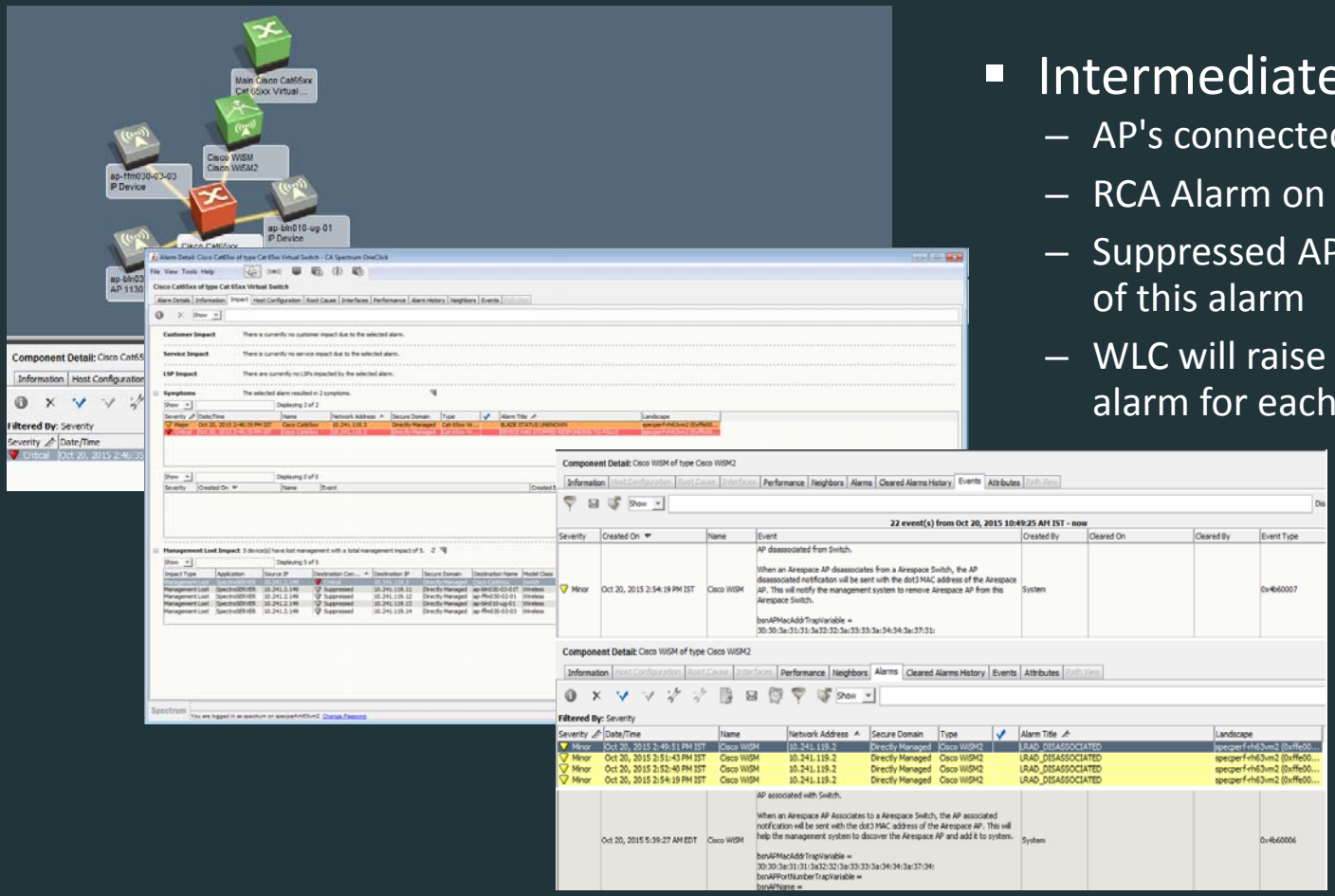
Root Cause Analysis – Case 3



- Intermediate Switch is down
  - AP's connected to switch greyed out
  - RCA Alarm on Switch
  - Suppressed APs will be listed as symptoms of this alarm
  - WLC will raise “AP down/disassociated” alarm for each unreachable AP

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Roadmap
Enhancements

Demo

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Responding to Feedback

- Support for WLC Fault Tolerance
  - Creates new Standby Model
  - Pairs Active and Standby WLC Models
  - Supports AP migration, maintenance and hibernation
- Support for DHCP enabled Access Points
  - Detects IP address change of AP
  - Avoids creating duplicate model of AP

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Support for More Vendors

- Support for Aruba Wi-Fi
- Ability to discover and model Aruba wireless controllers and connected access points
- Proactive tracking, monitoring and troubleshooting of wireless controllers, access points, and corresponding mobile stations
- Ability to monitor number of users connected to the AP, upload/download volume of data and other parameters

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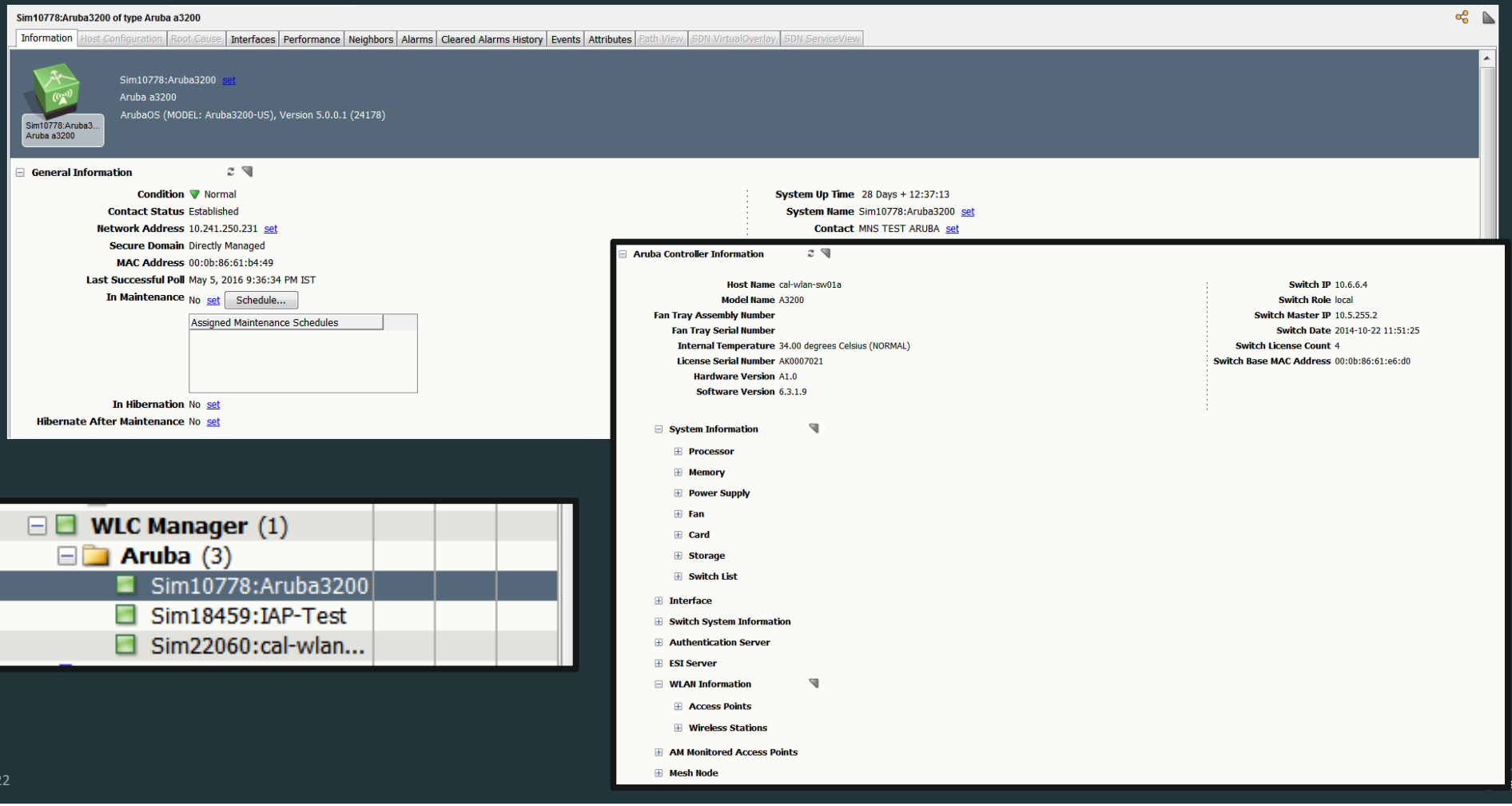
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