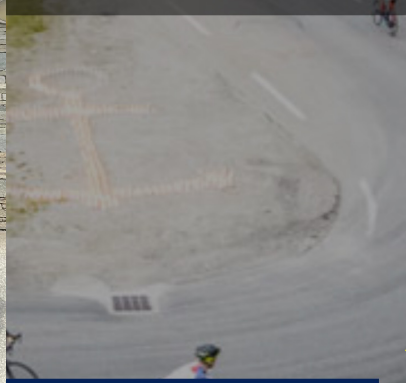


Making Event Networks Uneventful

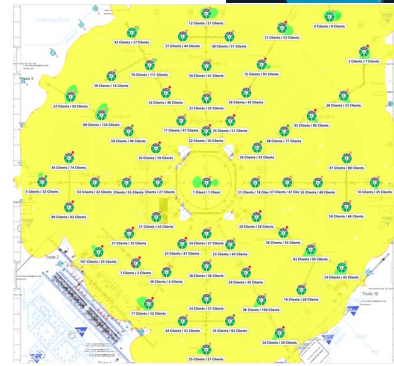
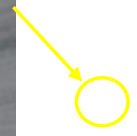
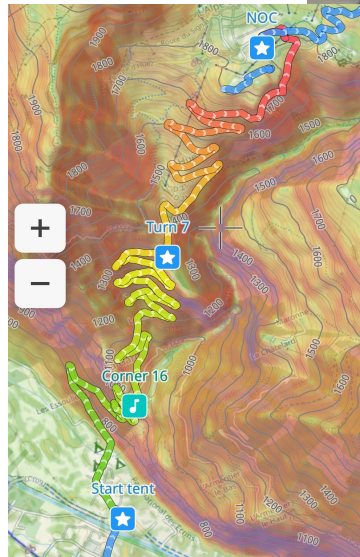
Andrew Yourtchenko

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June 5, 2025

237	:	16	:	47
DAYS		HOURS		MINUTES

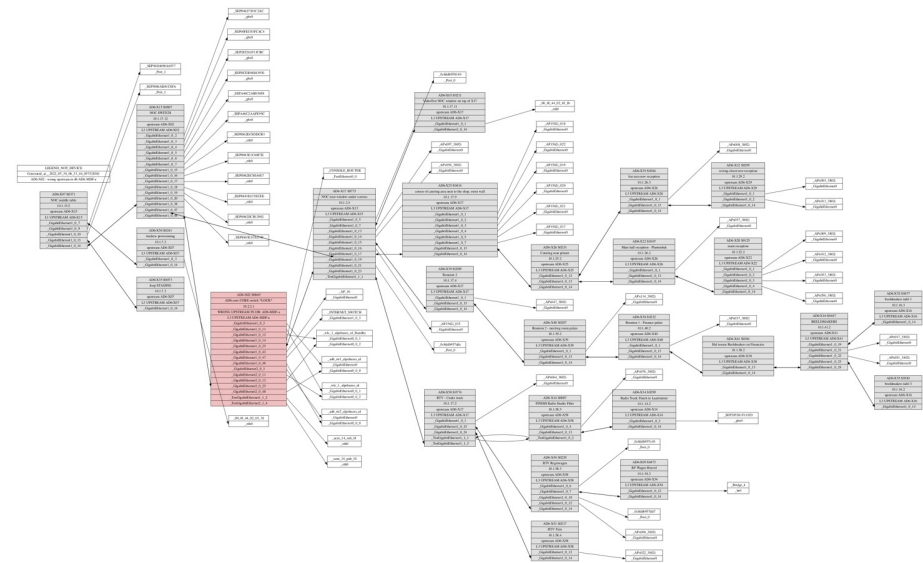
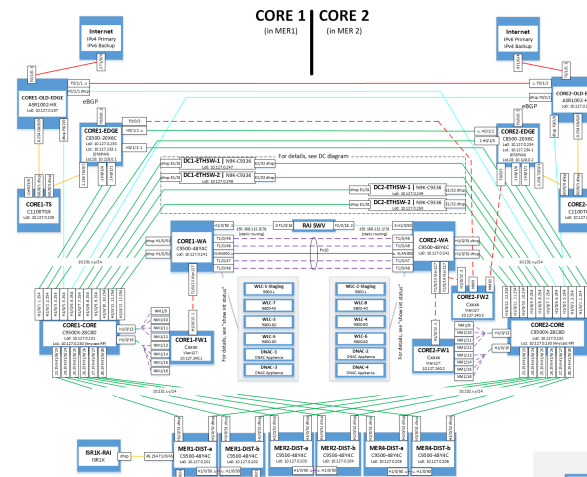


Design principles

- Composability
- Dynamicity
- Automation

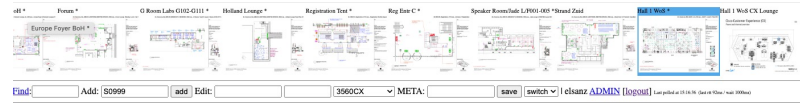
Composability

- “Can we make it like LEGO® ?”
- DHCPv4 + IPv6 LL for switch addressing
 - Local DHCP pools for infra!
- OSPF single-area 0
- Address plan allows for ≤ 200 L3 switches



Dynamicity

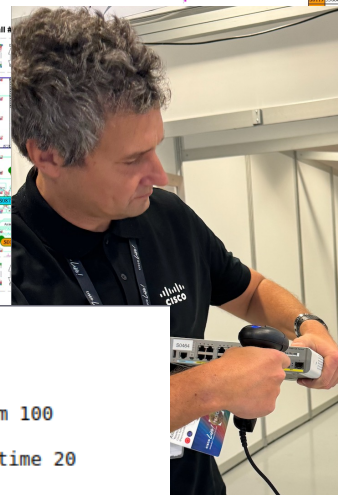
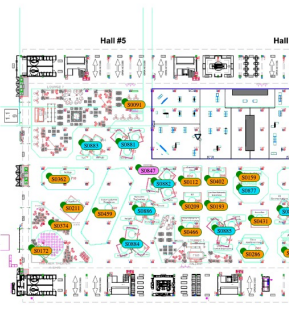
- Robust L2 port config
 - *-guard, storm-control
- Deployment maps
 - Preplanned
 - Dynamically updated
 - Barcode asset tracking
- 2 types of cfg changes
 - "quick and easy" - all
 - "advanced" – limited
- Logging and alerting!
 - Webex bots!



Hall 1 WOS

24_CiscoLive_RAI_Hall #1_L0_v12tl.vwx_Hall #1 - Level 0 - Plan-V012

Name	Type	Description
3560CX	3560CX	D WMS Hall Lounge 2
3560CX	3560CX	D WMS - Open Business
3560CX	3560CX	D WMS - D10 - Disabled by Cisco
3560CX	3560CX	D WMS - Policy



```
switchport
switchport access vlan {vlan}
switchport mode access
switchport nonegotiate
switchport port-security maximum 100
switchport port-security
switchport port-security aging time 20
no logging event link-status
no logging event power-inline-status
load-interval 30
ipv6 nd raguard
ipv6 dhcp guard
ipv6 traffic-filter SEC in
storm-control broadcast level pps 2k
storm-control multicast level pps 2k
cdp enable
spanning-tree portfast
spanning-tree portfast edge
spanning-tree bpduguard enable
spanning-tree link-type point-to-point
lldp transmit
lldp receive
no shutdown
```

Name	Type	Description
3560CX	3560CX	D WMS - L3 - C121222 AccessEdgeVlanMapping
3560CX	3560CX	D WMS - L3 - C141219 BackupNbrOfPhones

Automation

- Open Source

- Netbox, syslog-ng, git, Ansible, LibreNMS, Grafana, ...

- Bespoke

- Rust, Python

- Cisco & industry

- XDR, AI RRM, NetApp, Catalyst Center, Intersight, ThousandEyes, ...

