

### Bonjour Services Use Cases

Various Use Cases for IT and Users



Bonjour enabled devices on the rise!

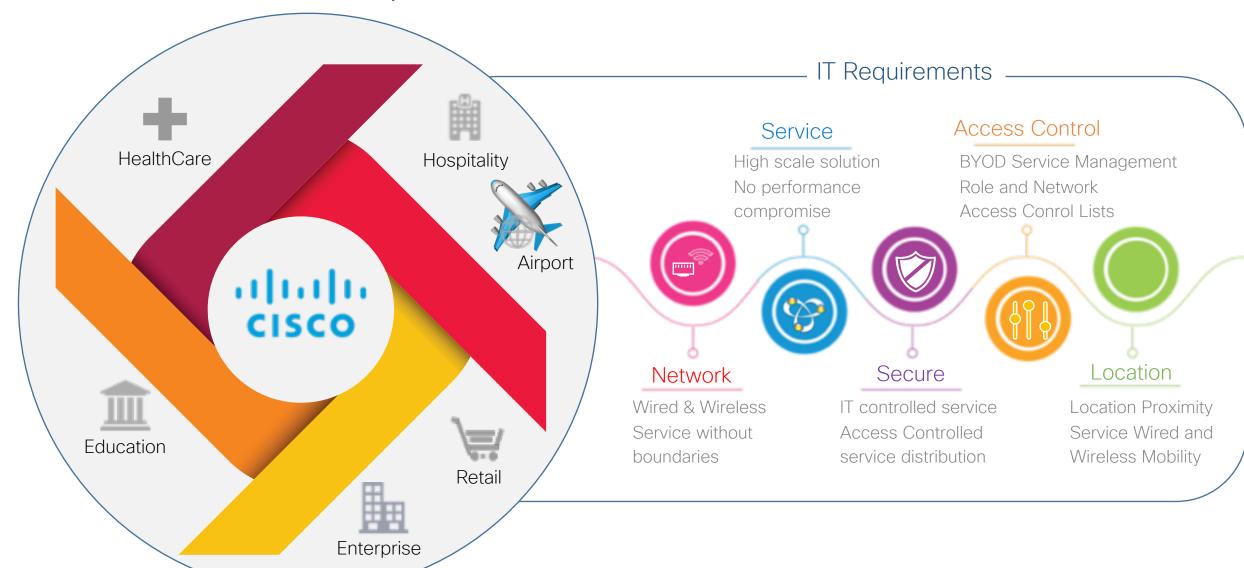




### Enterprise-Class Zero-Conf Solution

Cross-Verticals common IT Requirements

cisco



### **Current Limitations for Service Discovery**



- Residential-class Technology
- Single network segment discovery
- Integration in Enterprise networks



- Fragmented Gateway Solutions
- Local System Bonjour Solution
- Not end-to-end solution



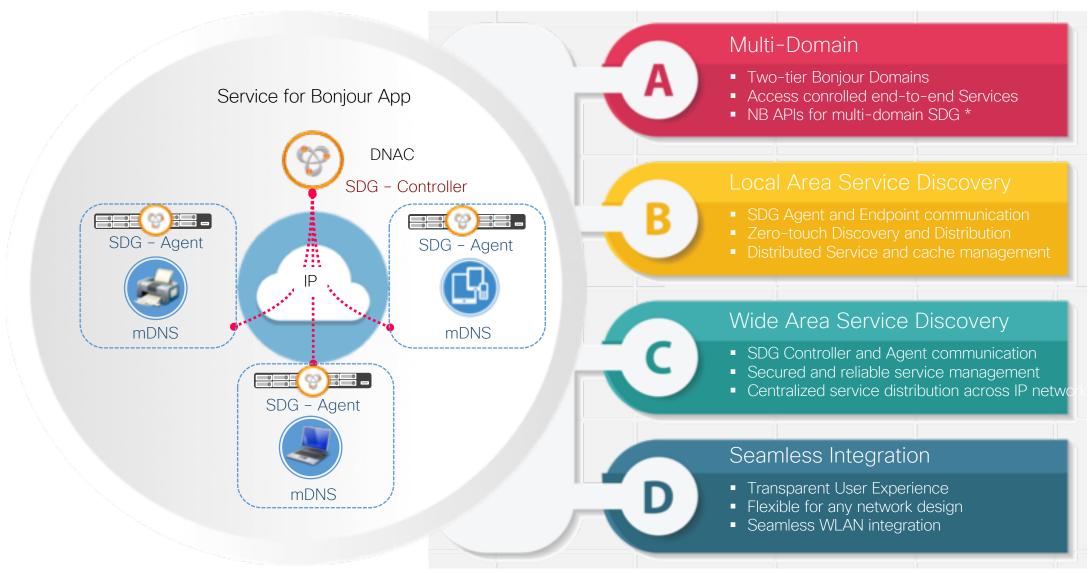
- Single Device solution
- Unable to scale beyond single system
- Limited network discovery boundary



- Limited scale and performance
- Centralized architecture impact performance
- Sub-optimal mobility with scale

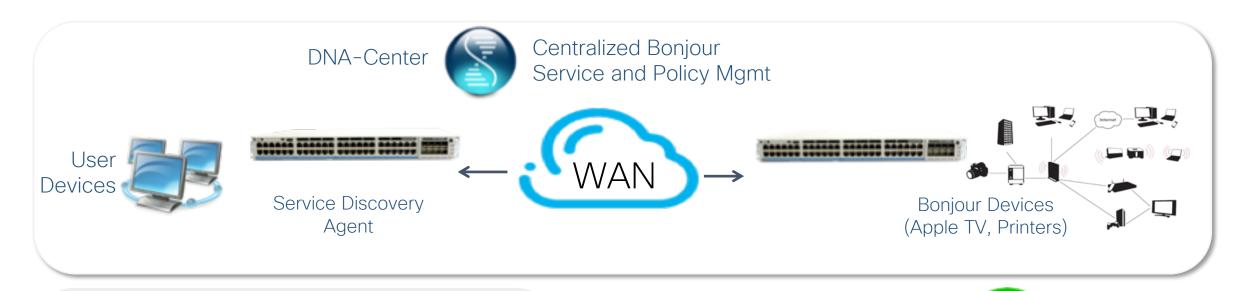


### Distributed Architecture for "Service for Bonjour"





### Bonjour Service Discovery Without Boundaries



#### Traditional Bonjour

- Single Gateway solution, cannot scale across enterprises
- No access control
- Limited Management capabilities

### DNA Service for Bonjour

- Enables Discovery and service distribution across WAN
- Access Controlled
- Simplified Intuitive Controller Based Management

### Simplified Education Experience





- Scalable LAN/WLAN architecture supporting distributed sites of an educational institution
- Access Conrolled Bonjour services discovery and distribution between Teachers, Students, Admins.
- Centralized IT administration and Policy control
- Transparent solution supporting Bonjour enabled devices or any Multicast DNS compliant end-points



### Interactive Healthcare Experience

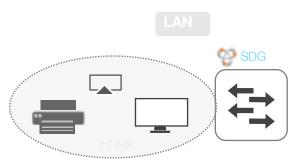


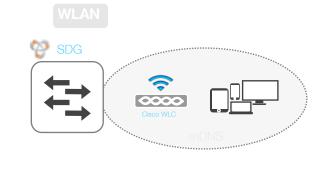


- Interactive and digital communication between Healthcare professionals and patients
- High-tech patient rooms from managing room environments, connect care team and family
- Secure network and access conrolled service distribution protects privacy and compliance

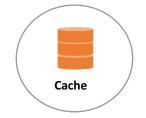


# Local Area Bonjour Domain – Key Function

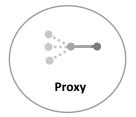












- First-Hop policy-Enforcement point for LAN and WLAN networks.
- Policy-Based Bonjour services discovery and distribution
- Granular and bi-directional policy control.

- Local Bonjour cache database.
- Each SDG Agent switch stores local Bonjour cache database.
- Distributed and scalable architecture for large scale environments.
- Distributed service time management providing better scale.
- Bonjour source end point maintenance to keep network updated.
- Scalable architecture to maintain and auto-refresh service entries
- Policy-Based Bonjour service distribution
- Asymmetric proxy model support based on deployment scenarios
- Granular service classification support.



### Enterprise Class Bonjour Experience

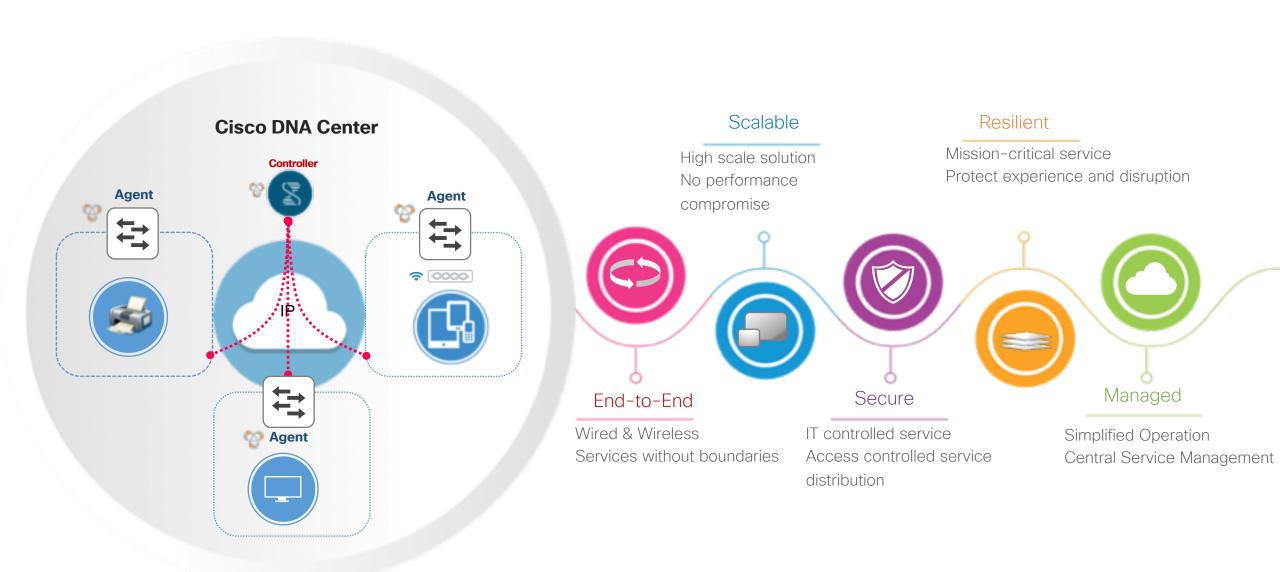




- Seamless Wired and Wireless Integration
- Access Controlled Service Distribution
- Simplified Centralized Management
- Protect User Experience and limit Service Disruption
- Higher scale



### Cisco DNA Service for Bonjour





## What's needed to implement at the UofU

- Create policies to define management
- Technical updates
  - Controller Deployment
  - Network design
  - Routing protocol changes (Cisco Bonjour Control Policy)
- What should we do until then?
  - Bluetooth discovery



Thank you.

