

# SCU Network Upgrade Project

Technical and Project Management Perspectives

# Introduction

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# Overall Approach

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# Design - General

- Modularity
- High Availability and Resiliency
- Redundancy
- Disaster Recovery

# Design - General

- Scalability and Flexibility
- Simplicity vs Complexity
- Efficiency
- Converged Network

# Design - General

- Management, Monitoring, Automation
- Unified Wired & Wireless, BYOD and Guest
- Security
- QoS

# Design – IP Addressing

# Design - DC

- Speeds and feeds
- SVF (Super Virtual Fabric)
- Separate Routed DCs



# Design – DC Security

- Segregation
- Changed policy control points
- Trying to simplify

# Design – Campus

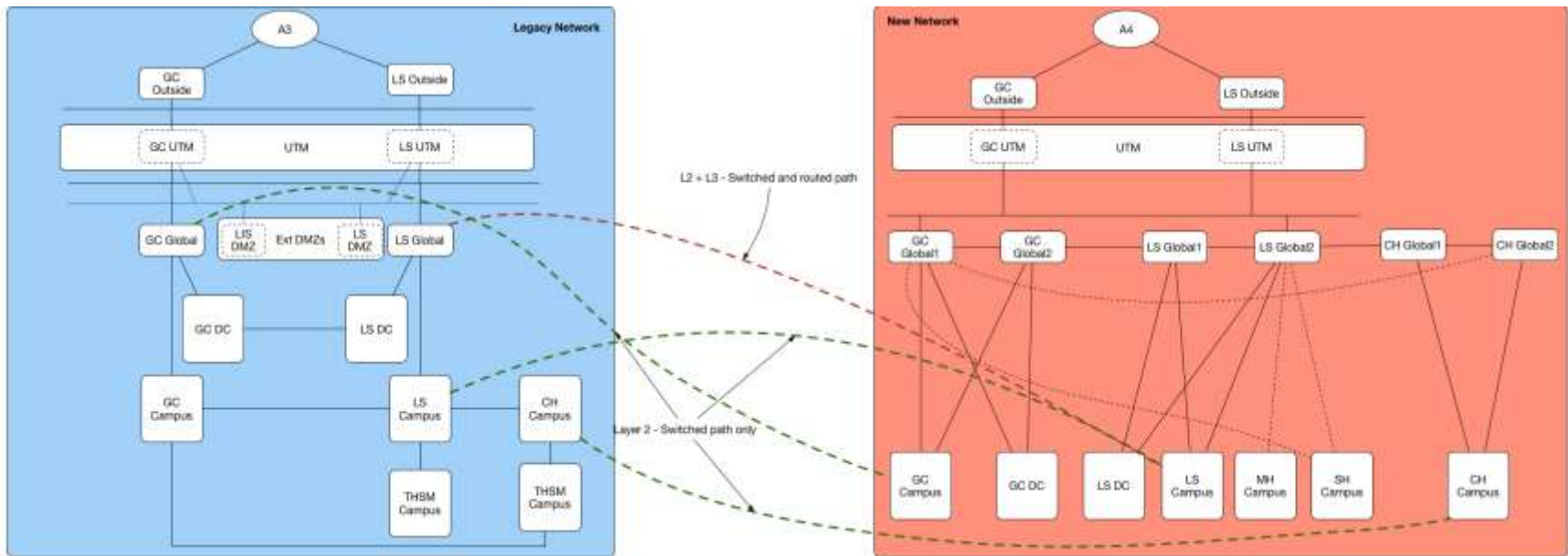
- Speeds and feeds
- Segregation
- Agile

# Design – WAN

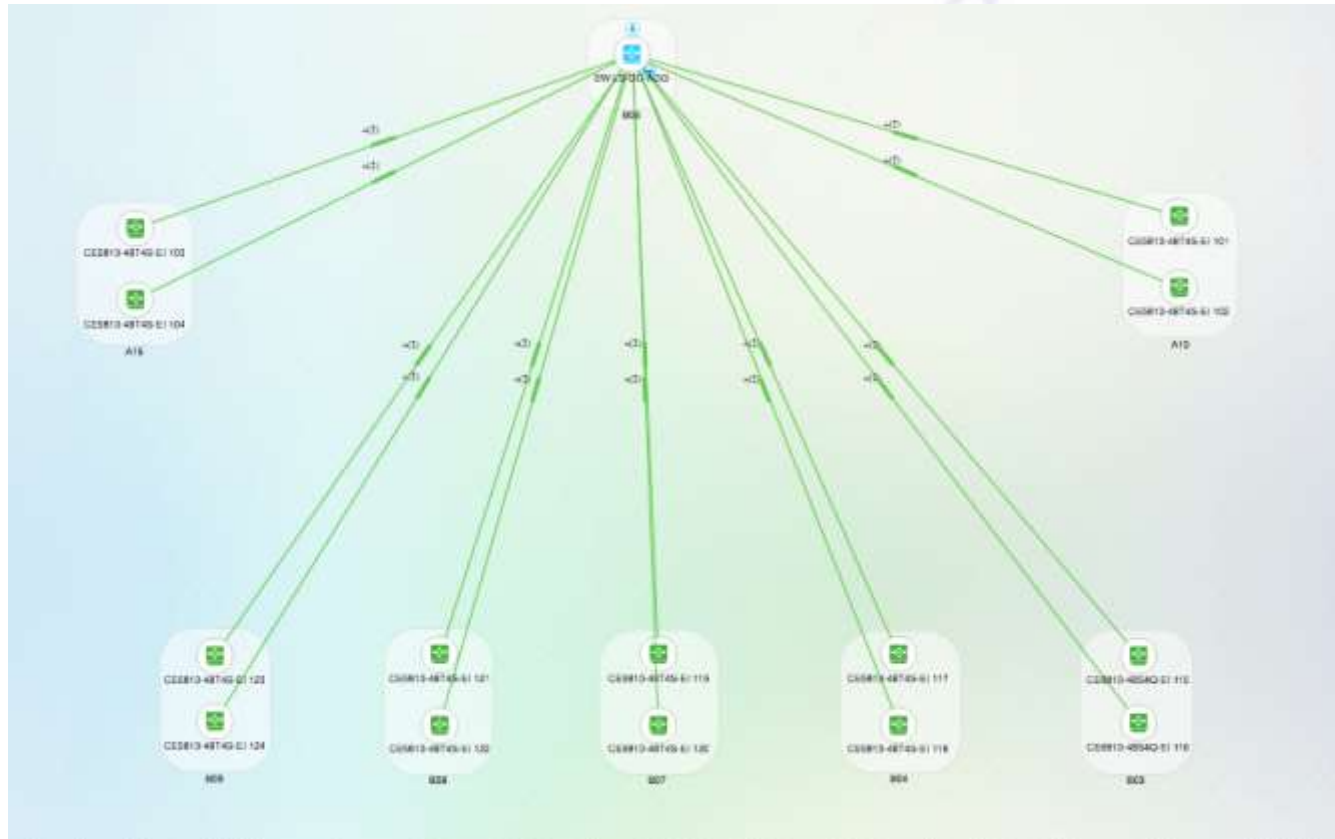
# Implementation

- Staging & Testing
- Incremental deployment vs forklift
- Communication strategies

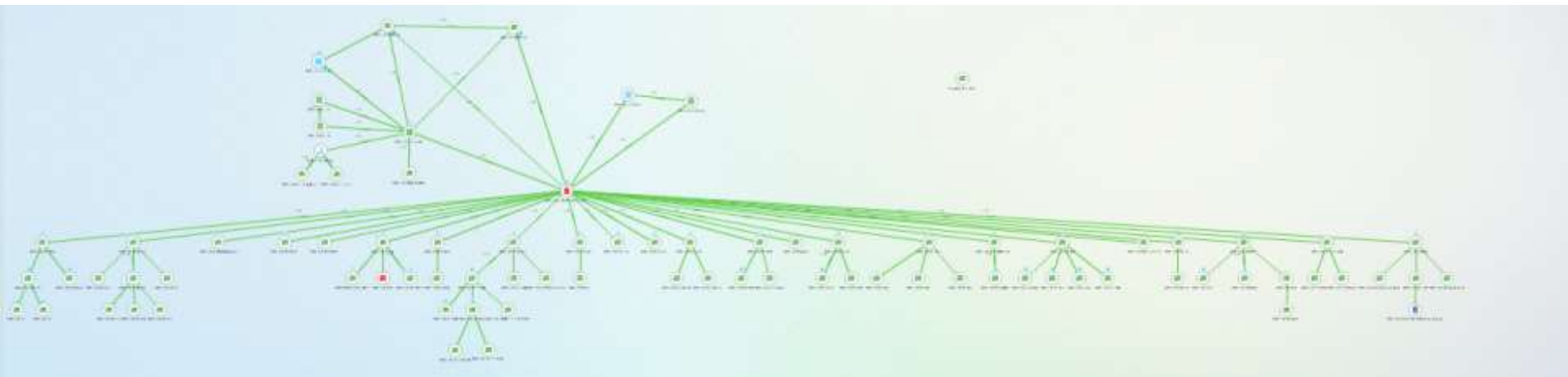
# Implementation – WAN/Internet



# Implementation - DC



# Implementation - Campus



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# Afterwork

- Security review
- Campus - Agile deployment
  - Identity based network access and security
  - Removes the need to segregate the network using VPN (VRF)
- IPv6
- IPAM



# The end ... not really

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