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The bridge to possible

How Loblaw Successfully Adopted SD-WAN

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CSSSENT - 2241

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Agenda

- Chapter 1 (The Intro)
 - Loblaw as a Company
- Chapter 2 (The Reasoning)
 - The Need for SD-WAN
- Chapter 3 (The Excitement)
 - The Journey
- Chapter 4 (Lived Happily Ever After)
 - Look into the future

Loblaw as a Company

Canada's Food and Pharmacy Leader



17 million
Canadians shop at our stores
Every week

90% of Canadians
Live within 6 Miles of one of
our locations

More than 18 million
PC Optimum members

More than 2,400
Stores across Canada

190,000
Canadians employed in full- and
part-time positions

3 million
PC Financial® Mastercard®
cardholders

Top 100
One of Canada's top 100
employers

\$56.5 Billion CAD
Total Revenue in 2022

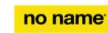
Loblaw Companies Limited

Our Purpose – Live Life Well

Since **1919**, we've innovated the grocery retail experience to better serve
Canadians
Our Portfolio

Two of the Canada's most recognized brands

- Food
- Health and wellness
- Fashion and beauty
- Payments and rewards
- Banking
- President's Choice
- No name

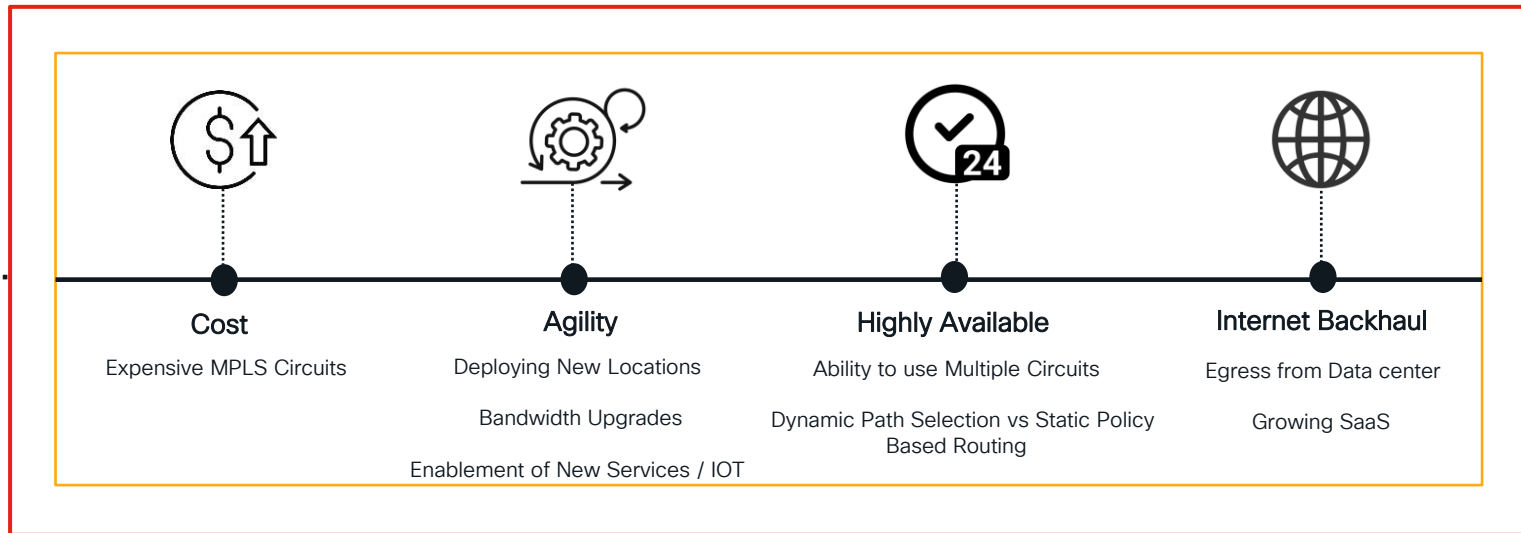


Loblaw as a Company

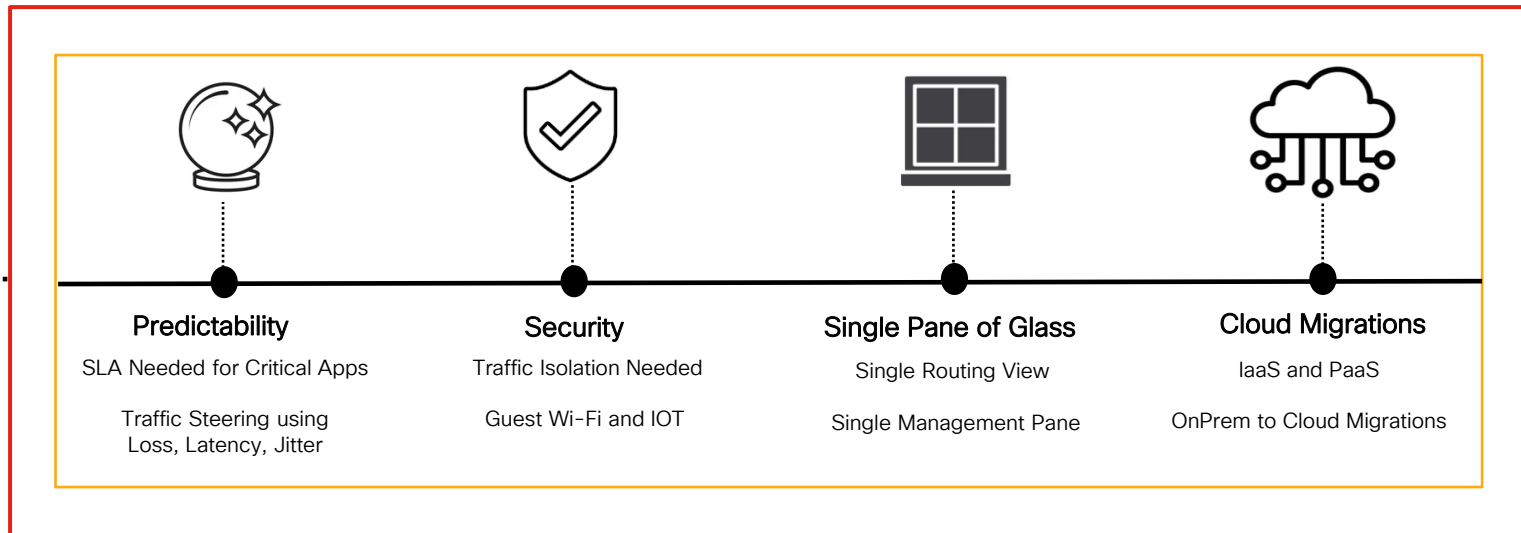
Canada's Food and Pharmacy Leader



The Need for SD-WAN Challenge

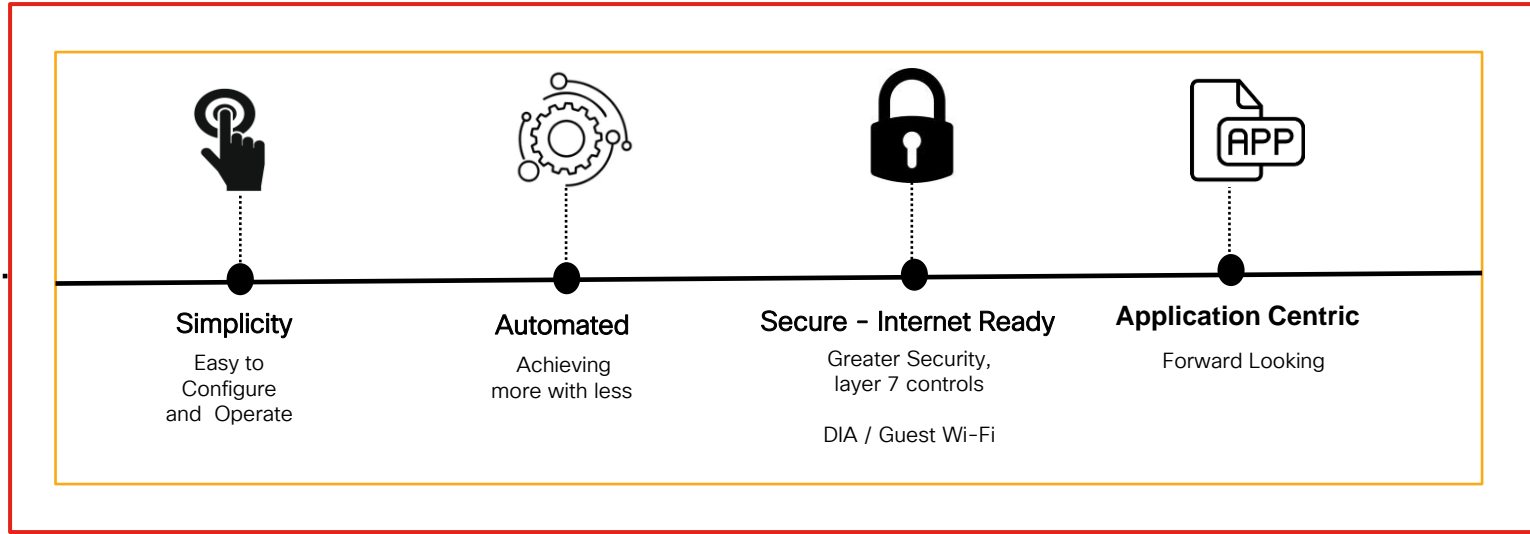


The Need for SD-WAN Challenge



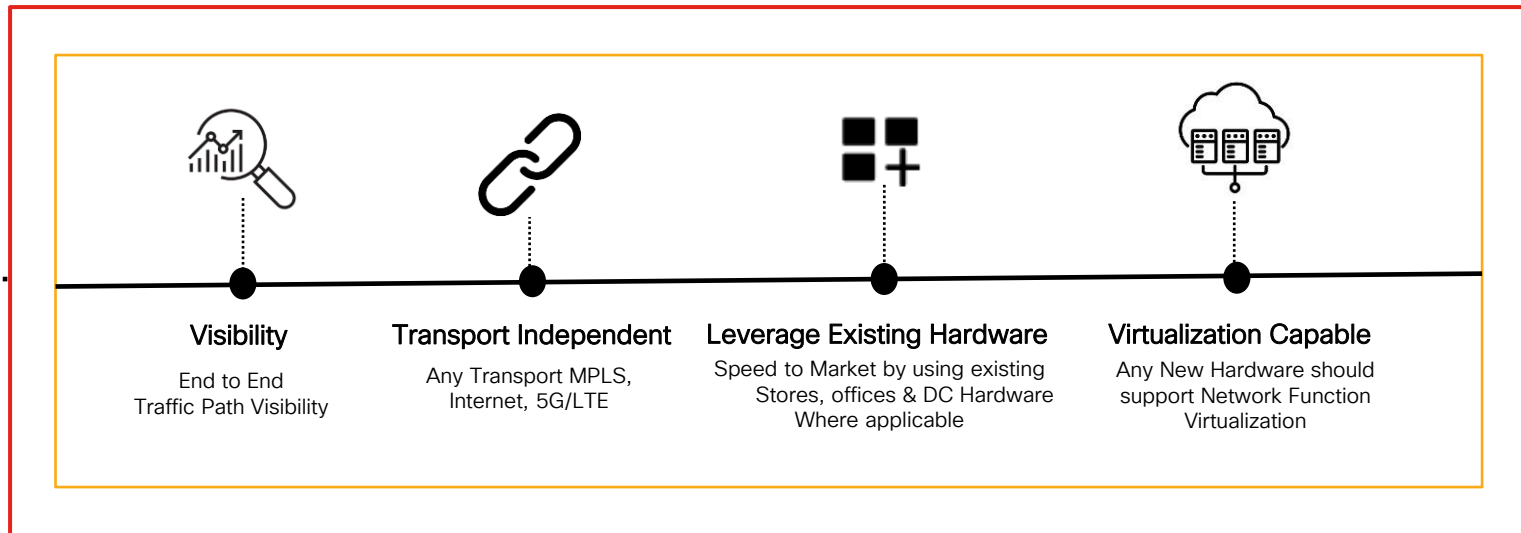
The Need for SD-WAN

Design Principles



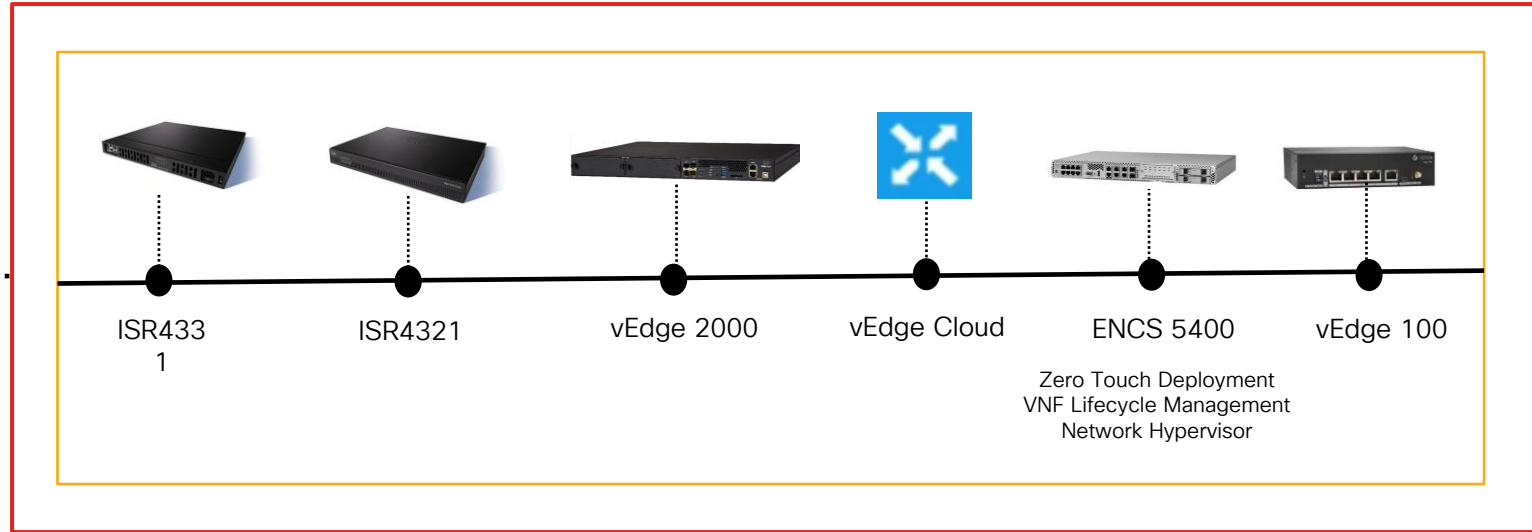
The Need for SD-WAN

Design Principles

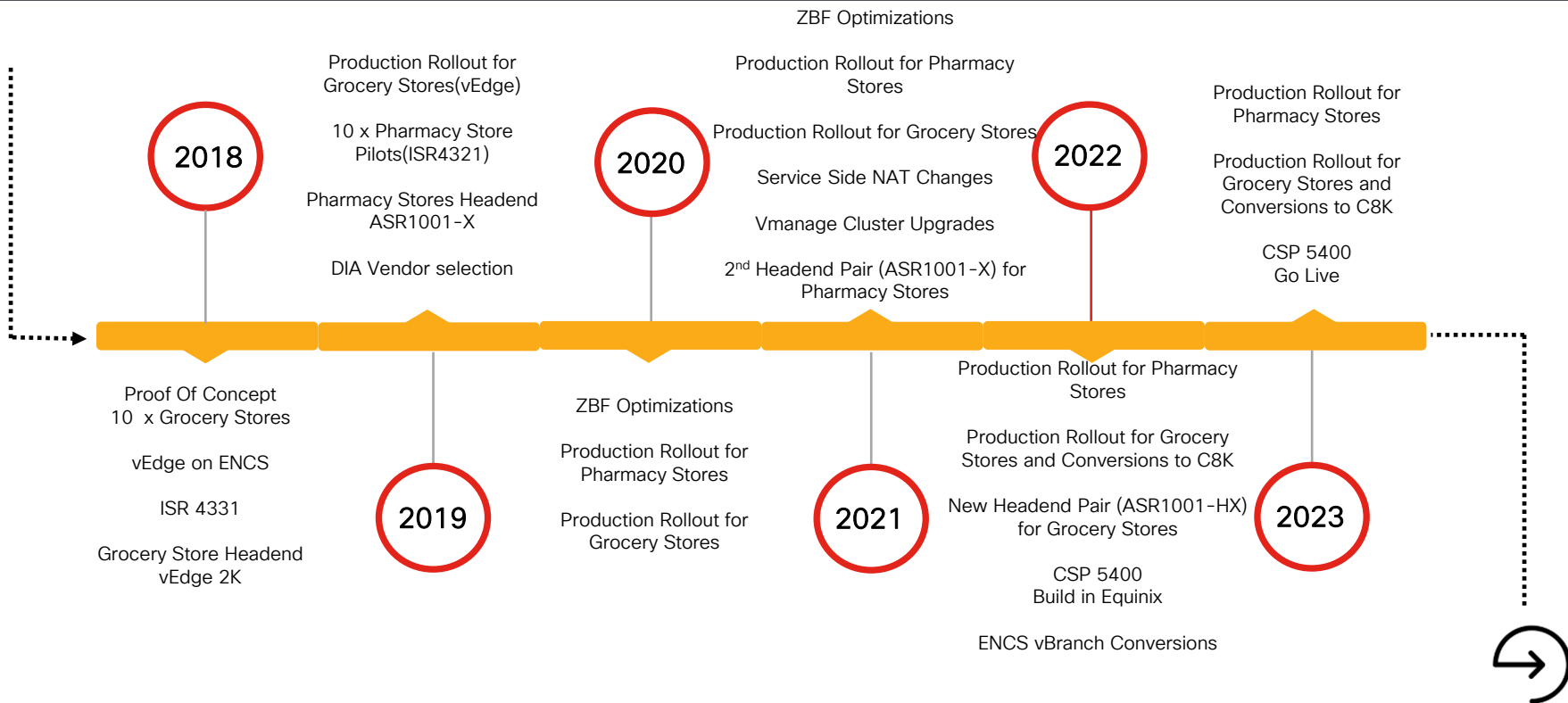


The Journey

Hardware Selection for POC

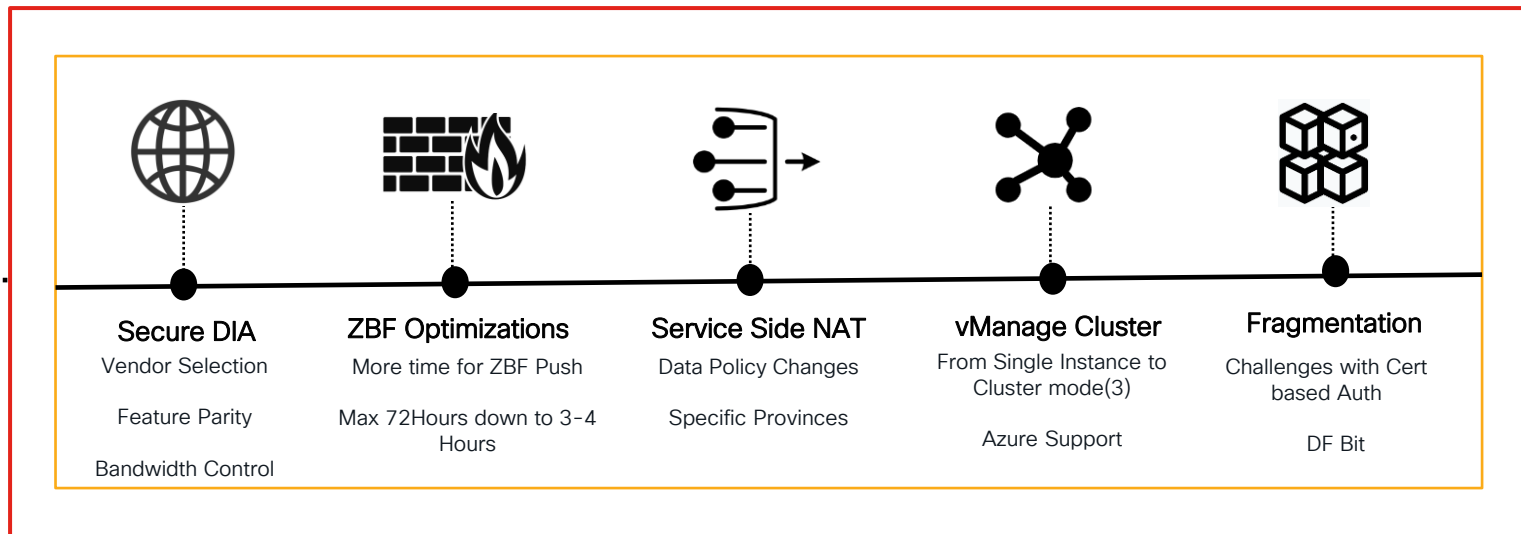


The Journey Network Evolution



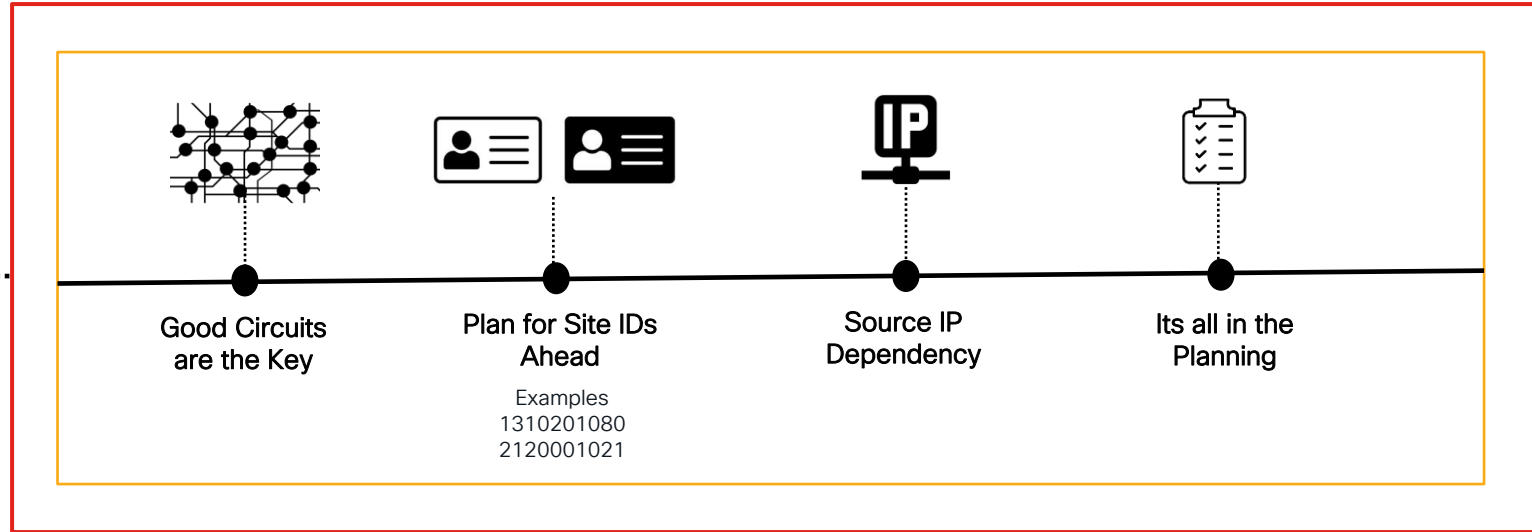
The Journey

Deployment Challenges

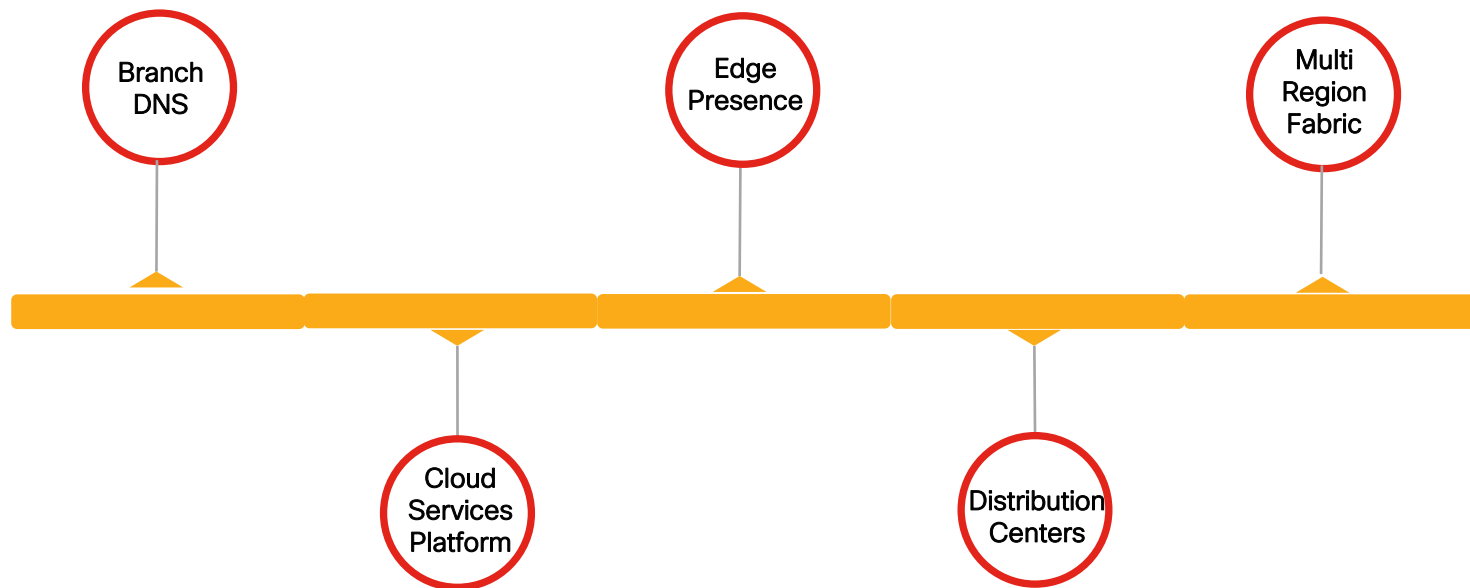


The Journey

Key Learnings



Looking into the Future



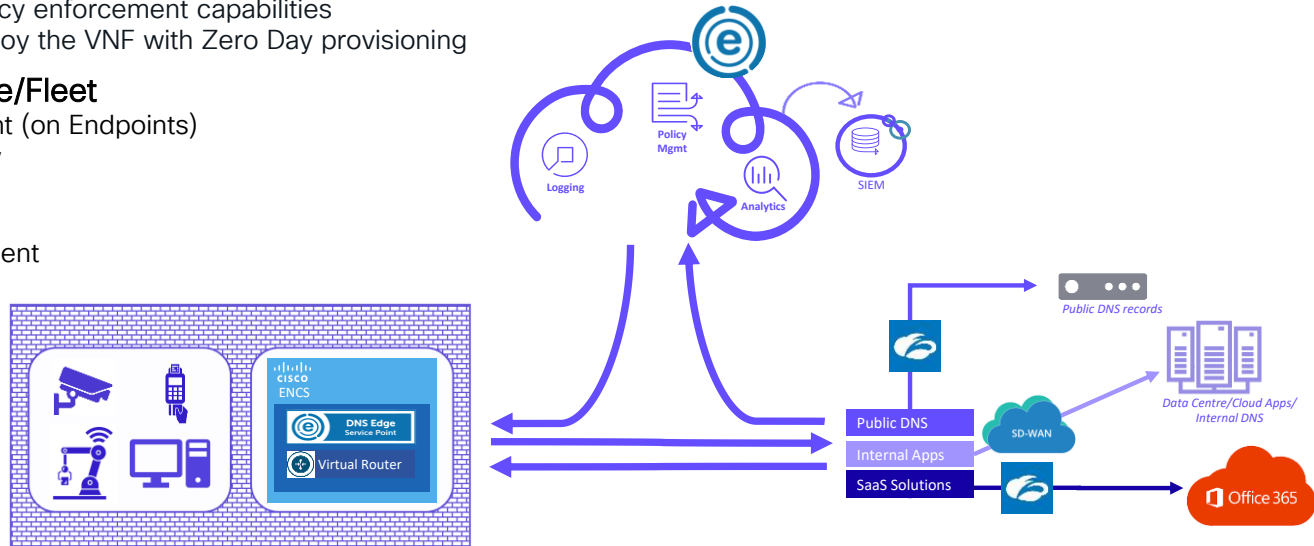
Look into the future DNS at the Store

Approach

- Acts as First hop DNS
- Relies on Cloud/On Prem DNS Servers for Name Resolution(Internal Domains)
- DNS Caching and Policy enforcement capabilities
- Using vBranch to Deploy the VNF with Zero Day provisioning

Benefits of Bluecat Edge/Fleet

- Agentless Deployment (on Endpoints)
- Operational Simplicity
- Better DNS Control
- Deeper Visibility
- Zero-Touch Deployment



Look into the future

Equinix Direct SD-WAN Connectivity

Objectives:

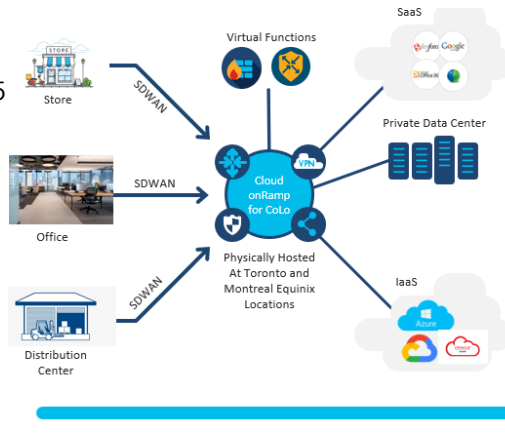
- Eliminate the need of Datacenters for Store Connectivity to Cloud workloads
- Provide Direct connectivity to Cloud POPs from Stores using SD-WAN.
- Deploy on demand SD-WAN Virtual Network Functions(VNFs)

Approach - Deploy Cisco CSP (Cloud Services Platform) in Equinix Locations

- Separate Virtual Headend Routers for Pharmacy and Grocery Stores/Offices/Distribution Centers
- Deploy Virtual Firewalls and Service Chain different traffic patterns
- Manage completely using Cisco Vmanage via APIs and software

Benefits of CSP Platform

- Operational Simplicity
- Turnkey Appliance that can be up and running in 5 min
- Open VNF(Virtual Network Function) Platform for Cisco and 3rd Party VNFs
- Increased automation and operational agility
- User application Policy enforcement
- Optimize Multicloud Connectivity



Security
Central policy enforcement



Agility & Performance
Rapid provisioning, change control and scale-out architecture via NFV fabric. Speed of software with the performance of hardware.



Cost Savings
Lower OpEx and CapEx through NFV. Reduce circuit costs and number of circuits.

Turn-key orchestration and automation of enterprise WAN Service-Chains!

Look into the future

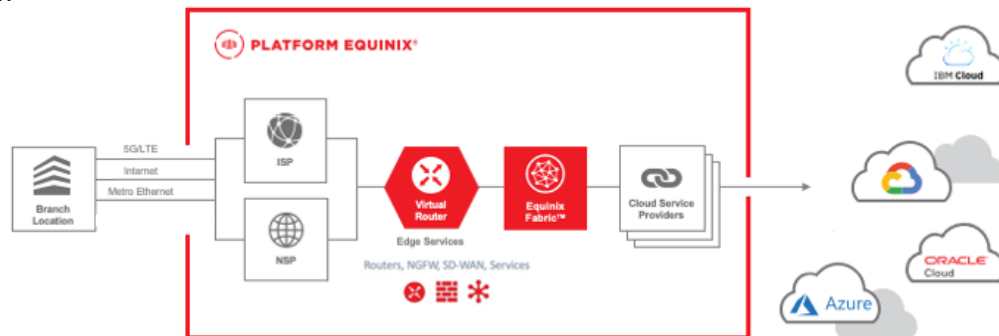
Equinix Lite (Network Services Edge)

Objectives:

- Reduce Complexity and increase network agility
 - Increase Scale and eliminate hardware requirements
 - Reduce Latency for Cloud Hosted Applications from remote locations
 - Optimize Regional Edge Services (DNS/DHCP etc)
 - Extend SD-WAN Fabric in Canada to Small Edge Locations for better store connectivity
- ### Benefits of Equinix Edge
- Faster application access
 - Reduce Complexity
 - Seamless resiliency
 - Deeper Visibility
 - Lower Costs
 - Already Integrated with Cisco Vmanage

Approach - Use Equinix Edge locations in Canada

- No LCL managed Hardware requirements
- Regional Virtual SD-WAN Headends in each Equinix Lite Location
- Vancouver, Winnipeg, Calgary in the roadmap
- Software Driven deployment/Management
- Service Chaining using Virtual Firewalls for better network segmentation



Q&A

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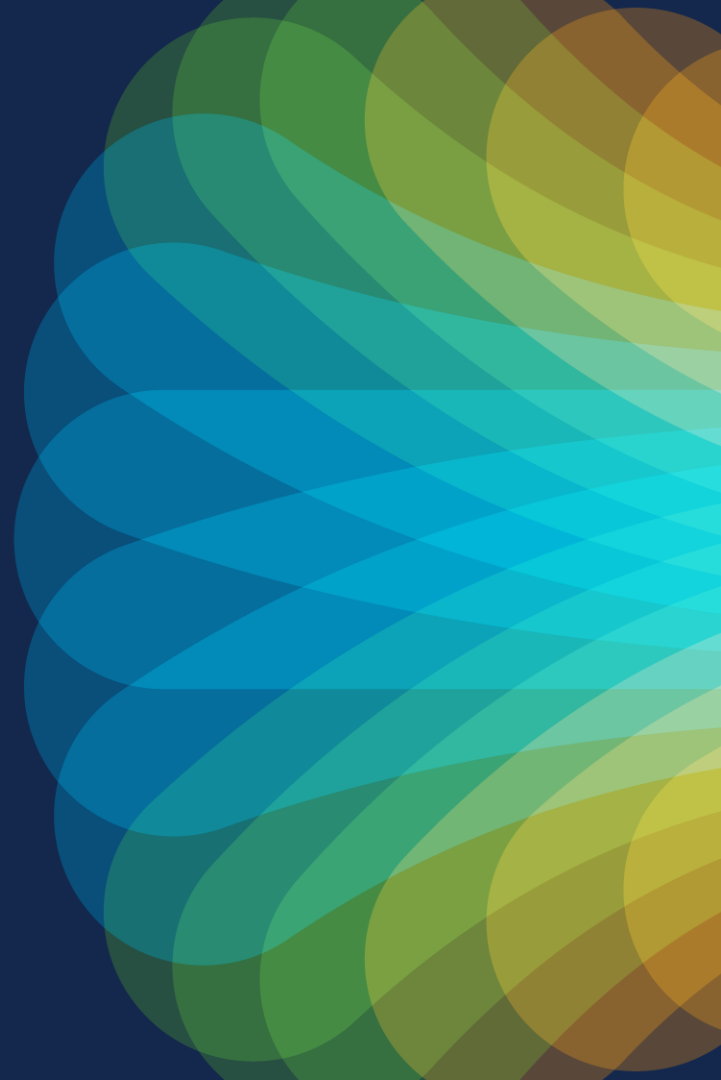


The bridge to possible

Thank you

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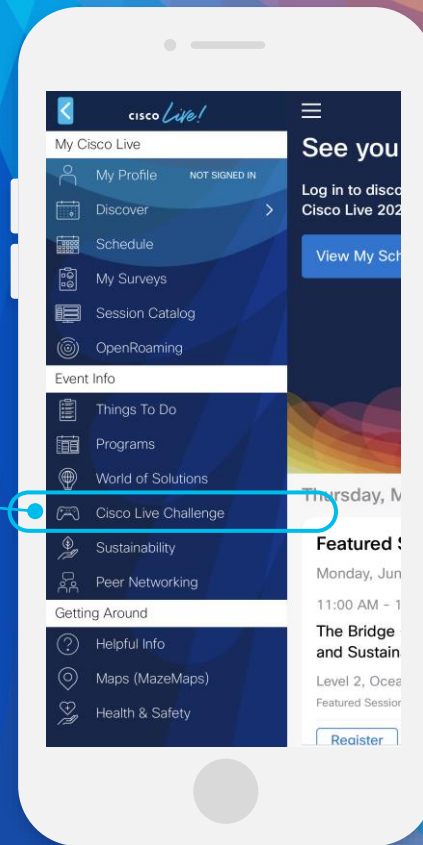
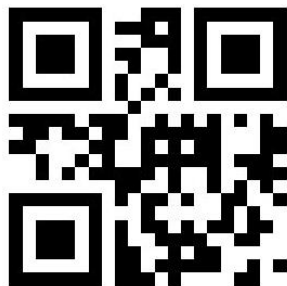


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- 4 Click the + at the bottom of the screen and scan the QR code:



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