



Licensing for Cisco DNA

Software Switching Subscription

Enterprise Networking
December 2018

Agenda

Digital Network Architecture

What is New

Offer Structure & Pricing

Migration & Ongoing Innovation

Technical Support

Resources

Digital Network Architecture



The network is the
cornerstone of digital
success or failure

Digital Disruption

1 Million Devices
Online Every Hour

Mobile, IoT, Cloud, AI/ML

Explosion of Data,
Lack of Insights

Complexity

\$60B Spent of
Network Operations

95% Manual Operations

Customer Experience in a
Multi-cloud Environment

Security

Attack Surface

Threat Actors

Attack Sophistication

Network Challenges

Relevant Insights
at Scale

Slow and
Error Prone

Dynamic Threat
Landscape

Traditional Networks cannot meet the demands of a Digital Network



Setting Up
End-End Security

Enabling Seamless
Mobility

Users, Device and
IOT Segmentation

Secure Connectivity
to the Cloud

Customer requirements for digital-ready network



Gain visibility & insights
with context to inform
business decisions

Insights & experiences



Increase automation
for speed, scale,
and accuracy

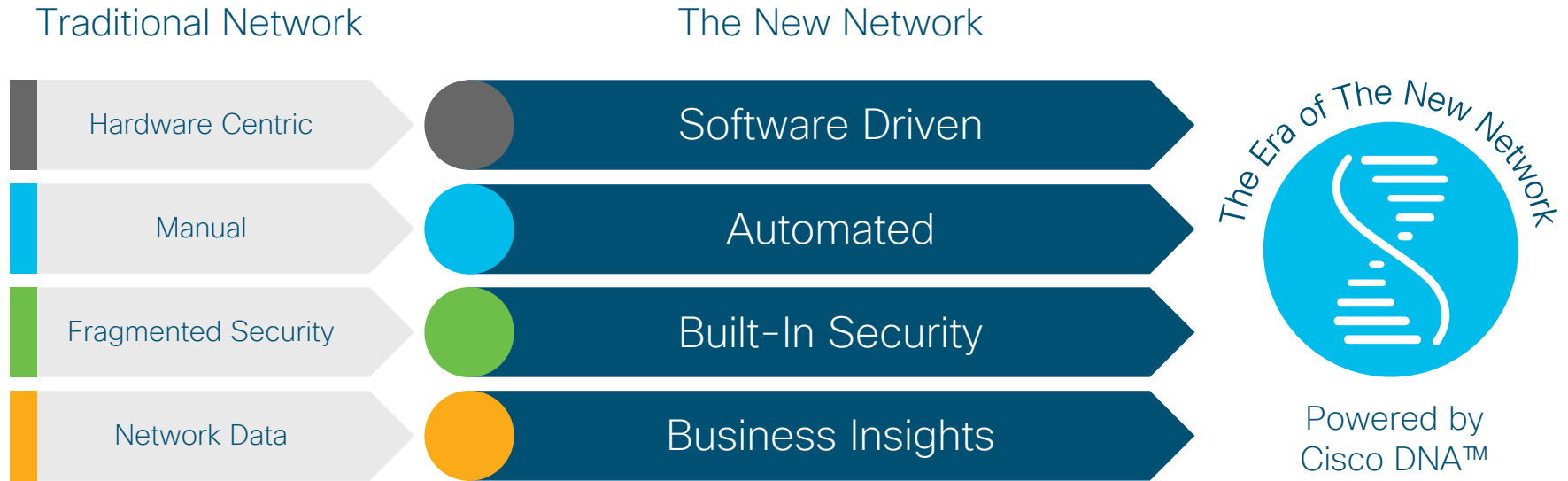
Automation & Assurance



Ensure security &
compliance with real-
time threat defense

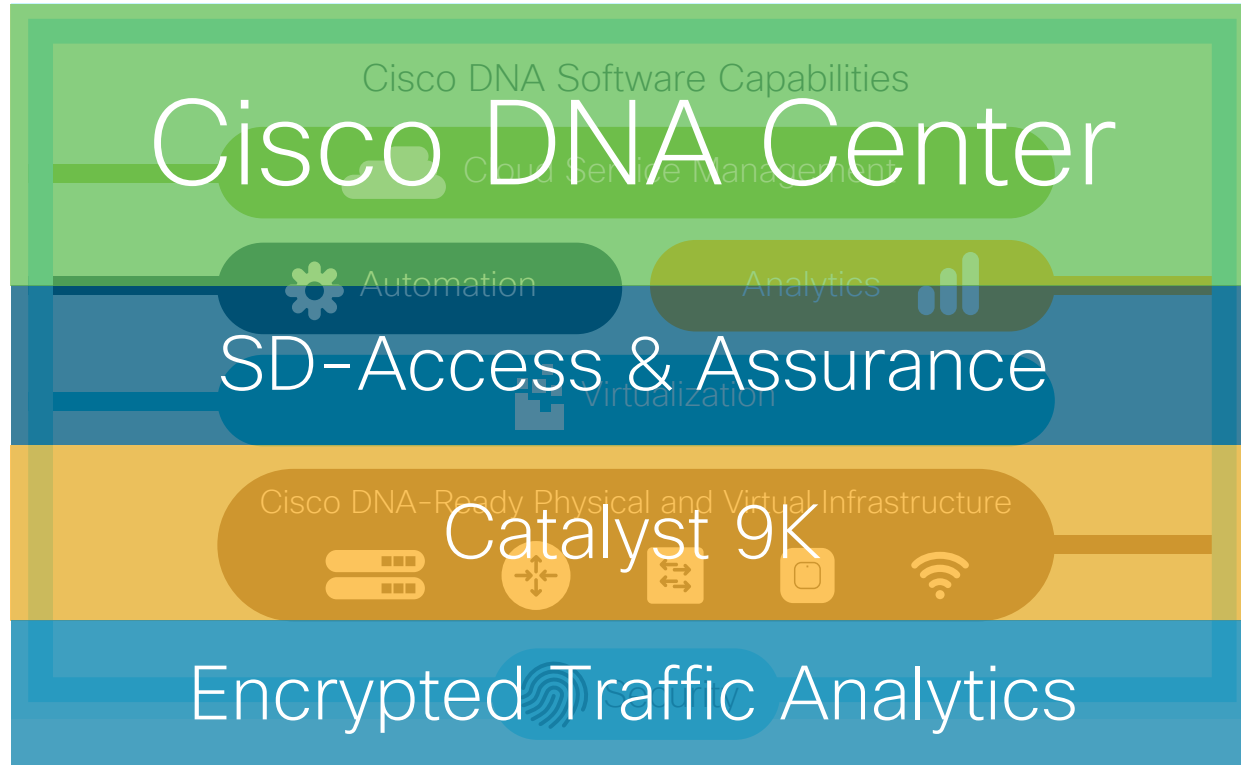
Security & compliance

Cisco Is Rewriting the Network Playbook



What is New

Digital Network Architecture – What's New



Software-Defined Access



Identity-based Policy & Segmentation

Decoupled security policy definition from VLAN and IP Address to enable rapid policy updates



Workflow-based Automation

Workflows for Network Design, Provision, and Operations across Wired and Wireless provide consistency at scale



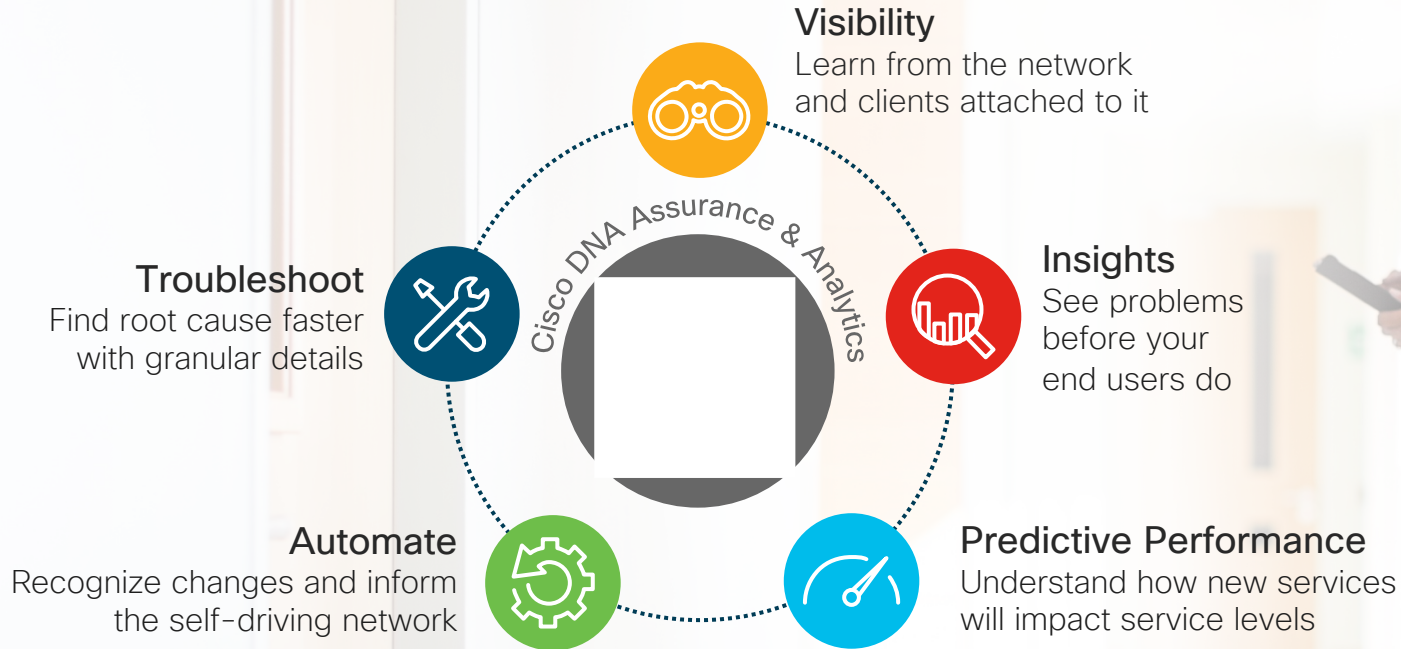
Insights & Telemetry

Analytics and insights into User and application behavior for proactive issue identification and resolution

Industry's first policy-based automation from the Access to the Cloud

Applied Intelligence with Cisco DNA Assurance

Converting Data to Business and IT Insights



Industry's First Self-Predicting Network Analytics Platform

Encrypted Traffic Analytics

Enhanced Network-as-a-Sensor

- Analyze netflow metadata without decrypting traffic flows
- Global-to-local knowledge correlation - 99.99% threat detection accuracy
- Encrypted traffic analytics from Cisco's newest switches and routers



Security with Privacy

The New Catalyst 9K



Integrated Security

Find and contain threats fast with real-time monitoring

Threat detection for encrypted traffic



Mobility Ready

Simplify BYOD onboarding

Manage and secure wired and wireless from one device



IoT Ready

Instantly on-board IoT devices

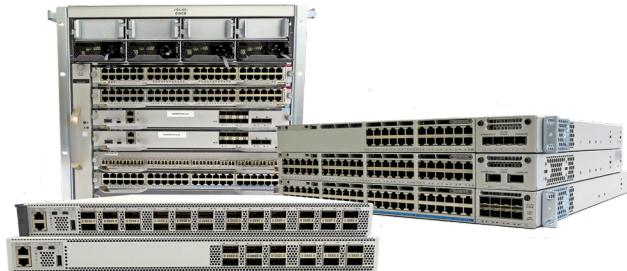
Automatically segment IoT traffic for better security



Cloud Ready

Build apps. Through programmability

Improve applications performance - user to cloud



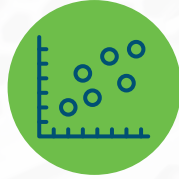
Future-Proofed with UADP 2.0
and open and programmable IOS-XE

Cisco DNA Center: Design, Policy, Provision, Assurance

A better way to manage your network



Logical workflow to design,
provision, set policy
Respond to changes faster



Monitor end-to-end
network performance
Predict and act on problems
before they happen



Pinpoint problems faster
Reduce downtime with an
end-to-end view instead of
hop by hop



Manage hardware and
software lifecycles
Keep up to date, meet
compliance and plan for refresh



Cisco DNA Center: Design, provision,
automate policy and assure services
from one place

Introducing Cisco DNA Software Subscription for Switching

Introducing: Switching Subscription Offer



Simple
Predefined
Offers



Enable All Cisco DNA
Capabilities



Better together
Pricing



Investment
Protection

Why Subscription Matters to Customers

Faster Access to Innovation

Be More Competitive



Frequent Access to Latest Features



Up-to-date Security Protection



Software Refresh Independent of Hardware

Enhanced Agility

Respond to the Market Faster



Renew & Scale What You Want



Better License
Portability



Shorter Planning Cycles

Better Financial Planning

Optimize your IT Spend



Linear, Predictable Budget Spend



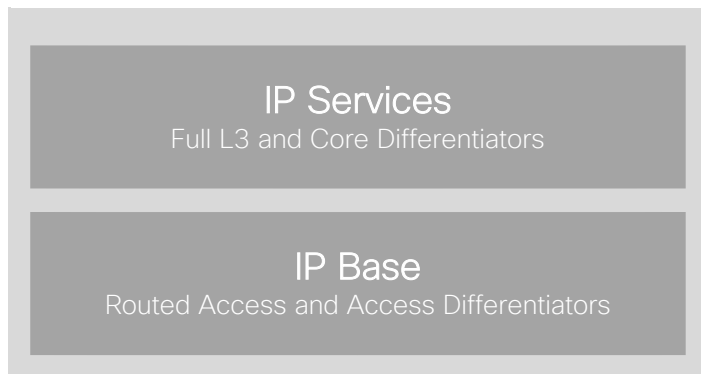
CapEx to OpEx Shift



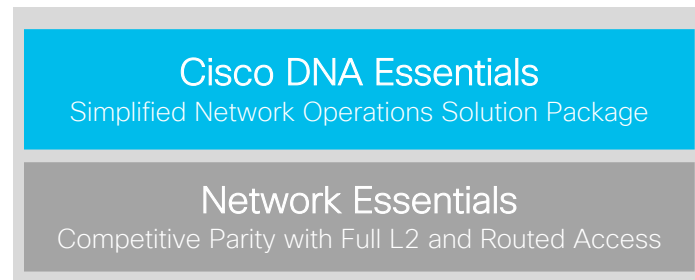
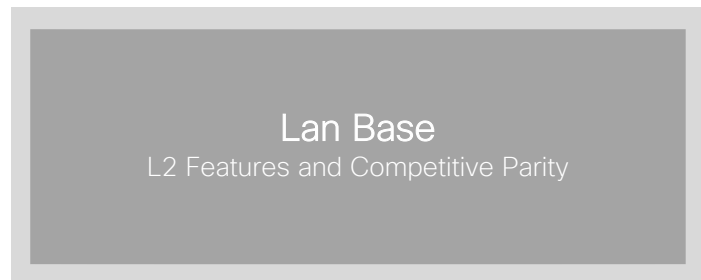
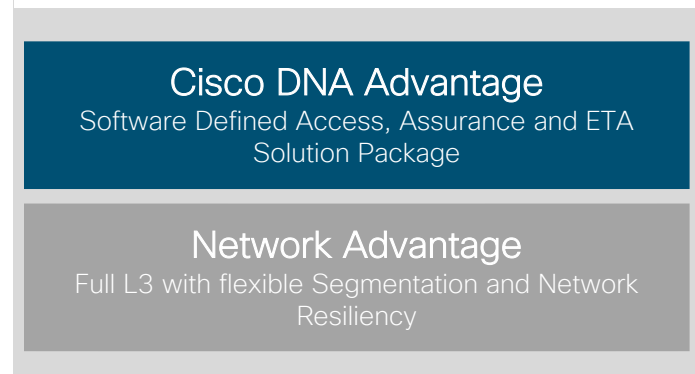
Keep Vendors on Their Toes

Catalyst 9K: Simplified packaging

Current three-tier packaging



Simplified two-tier packaging



Switching: Offer Structure

Cisco DNA Essentials

Single SKU 3/5/7 Year Subscriptions

Cisco DNA Essentials

Catalyst 9K with **Network Essentials**
(Layer 2 Routed Access)



Cisco DNA Advantage

Single SKU 3/5/7 Year Subscriptions

Cisco DNA Advantage

Cisco DNA Essentials

Catalyst 9K with **Network Advantage**
(Full Layer 3 Routing)



Cisco DNA Premier

~~PREFERRED~~

Single SKU 3/5/7 Year Subscriptions

Stealthwatch

ISE Base + ISE Plus

Cisco DNA Advantage

Cisco DNA Essentials

Cisco Software Support Service (SWSS) included in all subscriptions

Must Attach Cisco DNA Premier, Cisco DNA Advantage or Cisco DNA Essentials as Subscription with 9K

Customer Journey to Intent Based Networks



Centralized Management

- Zero touch deployment
- Day 0 and Day 2 provisioning
- Layer 2 routed access
- Software Image Management
- Discovery, Inventory, Topology



Automation

- Advanced Secured segmentation
- SDA

- SD-Access capable*
- Flexible network segmentation
- Application Policy
- DNA service for Bonjour
- Third party app hosting

- PnP
- LAN Automation
- Embedded Event Manager



Assurance & Analytics

- Network security analytics
- User/device context

- Global insights, trends
- Compliance, custom reports
- Switch 360 & wired client 360
- SD-Access & Switch insights
- Application health, application 360, performance (loss, latency, jitter)
- Guided remediation

- Health Dashboard – Network, client, application
- Switch & Wired client health monitoring
- Full Flexible NetFlow



Security

- Stealthwatch
- ISE Base+ISE Plus
- ETA
- Rapid Threat Contain

- ETA capable*
- Rapid threat contain*

Cisco DNA Premier

Cisco DNA Advantage

Cisco DNA Essentials

Cisco DNA Premier Offer Details

StealthWatch - 25 flows
 ISE Base+ ISE Plus - 25 EP

Cisco DNA Advantage (Inclusive of Cisco DNA Essentials) 3,5,7 Year Terms

Advanced Automation <ul style="list-style-type: none"> SD-Access Application Policy Encrypted Traffic Analytics* DNA Service for Bonjour* Third-party App Hosting* 	Assurance & Analytics <ul style="list-style-type: none"> Global Insights, Trends, Compliance, Custom Reports Switch 360 & Wired Client 360 SD-Access and Switch Insights Application Health, Application 360, Performance (Loss, Latency, Jitter)
Element Management <ul style="list-style-type: none"> Patch Lifecycle Management 	Telemetry & Visibility <ul style="list-style-type: none"> ERSPAN* AVC (NBAR2)* Wireshark*

Network Advantage (Inclusive of Network Essentials) Perpetual

Enhanced Security Controls MACsec-256*	Flexible Network Segmentation VRF, VXLAN, LISP, SGT, MPLS*
IoT & Mobility CoAP*, AVB*, PTP*	High Availability & Resiliency NSF*, GIR, Stackwise Virtual*+, ISSU/eFSU*, Patching (CLI)
Full Routing Functionality BGP*, HSRP, OSPF, ISIS, GLBP*	Optimize Bandwidth Utilization with Multicast MSDP, mVPN*, AutoRP

Single SKU

Cisco DNA Premier

3 / 5 / 7 year subscription

Stealthwatch – 25 flows

ISE Base + ISE Plus – 25 EP

Cisco DNA Advantage (inclusive of Cisco DNA Essentials)



Catalyst 9K OR existing platforms with Network Advantage

* Not available on Catalyst 9200 Series Switches +Catalyst 9400/9500 Series switches

Catalyst 9300/9500 includes 25 flows/endpoints for Stealthwatch/ISE
 Catalyst 9400 includes 100 flows/endpoints for Stealthwatch/ISE
 Customer can purchase additional flows/end points in the increments of 25 (maximum of 3)

Enables all Cisco DNA Use Cases including SDA & ETA

Cisco DNA Advantage Offer Details

Cisco DNA Advantage (Inclusive of Cisco DNA Essentials) 3,5,7 Year Terms

Advanced Automation

- SD-Access
- Application Policy
- Encrypted Traffic Analytics*
- DNA Service for Bonjour*
- Third-party App Hosting*

Element Management

- Patch Lifecycle Management

Assurance & Analytics

- Global Insights, Trends,
- Compliance, Custom Reports
- Switch 360 & Wired Client 360
- SD-Access and Switch Insights
- Application Health, Application 360, Performance (Loss, Latency, Jitter)

Telemetry & Visibility

- ERSPAN*
- AVC (NBAR2)*
- Wireshark*

Network Advantage (Inclusive of Network Essentials) Perpetual

Enhanced Security Controls

MACsec-256*

IoT & Mobility

CoAP*, AVB*, PTP*

Full Routing Functionality

BGP*, HSRP, OSPF, ISIS, GLBP*

Flexible Network Segmentation

VRF, VXLAN, LISP, SGT, MPLS*

High Availability & Resiliency

NSF*, GIR, Stackwise Virtual*+, ISSU/eFSU*, Patching (CLI)

Optimize Bandwidth Utilization with Multicast

MSDP, mVPN*, AutoRP

* Not available on Catalyst 9200 Series Switches

+Catalyst 9400/9500 Series switches

Cisco DNA Advantage

3 / 5 / 7 year subscription

Cisco DNA Advantage
(Inclusive of Cisco DNA Essentials)



Catalyst 9K OR existing platforms
with Network Advantage

Customer need to buy ISE & Stealthwatch to Enable Full Cisco DNA Capability

Cisco DNA Essentials Offer Details

Cisco DNA Essentials

3,5,7 Year Terms

Basic Automation

- PnP Application
- LAN Automation
- Embedded Event Manager

Basic Assurance

- Health Dashboards – Network, Client, Application
- Basic Switch & Wired Client Health Monitoring

Element Management

- Software Image Management
- Discovery, Inventory, Topology

Telemetry

- Full Flexible NetFlow

Network Essentials

Perpetual

Essential Switch Capabilities

Layer 2,
Routed Access(RIP, EIGRP Stub, OSPF (1000 routes)),
PBR, PIM Stub Multicast (1000 routes)
PVLAN, VRRP, PBR, CDP, QoS,
FHS, 802.1x, MACsec-128, CoPP,
SXP, IP SLA Responder
SSO*

DevOps Integration

- NETCONF, RESTCONF, gRPC*
- Yang Data Models
- GuestShell (On-Box Python)*
- PnP Agent, ZTP*

Telemetry & Visibility

- Model-driven Telemetry
- Sampled NetFlow
- SPAN,RSPAN

Single SKU

Cisco DNA Essentials

3 / 5 / 7 year subscription

Cisco DNA Essentials



Catalyst 9K OR existing
platforms with Network
Essentials

Enable Base Automation & Monitoring in Cisco DNA Center

Catalyst 9000 Switches - Advantage vs. Essentials

C9200, C9300, C9400, C9500

Advantage

Cisco DNA Advantage (Inclusive of Cisco DNA Essentials) 3,5,7 Year Terms

Advanced Automation

- SD-Access
- Application Policy
- Encrypted Traffic Analytics*
- DNA Service for Bonjour*
- Third-party App Hosting*

Element Management

- Patch Lifecycle Management

Assurance & Analytics

- Global Insights, Trends,
- Compliance, Custom Reports
- Switch 360 & Wired Client 360
- SD-Access and Switch Insights
- Application Health, Application 360, Performance (Loss, Latency, Jitter)

Telemetry & Visibility

- ERSPAN*
- AVC (NBAR2)*
- Wireshark*

Essentials

Cisco DNA Essentials 3,5,7 Year Terms

Basic Automation

- PnP Application
- LAN Automation
- Embedded Event Manager

Element Management

- Software Image Management
- Discovery, Inventory, Topology

Basic Assurance

- Health Dashboards - Network, Client, Application
- Basic Switch & Wired Client Health Monitoring

Telemetry

- Full Flexible NetFlow

Network Advantage (Inclusive of Network Essentials) Perpetual

Enhanced Security Controls

MACsec-256*

IoT & Mobility

CoAP*, AVB*, PTP*

Full Routing Functionality

BGP*, HSRP, OSPF, ISIS, GLBP*

Flexible Network Segmentation

VRF, VXLAN, LISP, SGT, MPLS*

High Availability & Resiliency

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Network Essentials Perpetual

Essential Switch Capabilities

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SSO*

DevOps Integration

- NETCONF, RESTCONF, gRPC*
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- GuestShell (On-Box Python)*
- PnP Agent, ZTP*

Telemetry & Visibility

- Model-driven Telemetry
- Sampled NetFlow
- SPAN, RSPAN

- Catalyst 9000 switching HW **includes** the **Perpetual** Network Stack - **Network Essentials or Network Advantage**
- **Mandatory to attach Cisco DNA License** when ordering Catalyst 9000 switches
- DNA License **includes Switch and DNA Center Features**

* Not available on Catalyst 9200 Series Switches

+Catalyst 9400/9500 Series switches

Current-Gen Catalyst – Advantage vs. Essentials

C2K,CDB, C3K,C4K,C6K

Advantage

Cisco DNA Advantage (Inclusive of Cisco DNA Essentials) 3,5,7 Year Terms

Advanced Automation

- SD-Access*
- Application Policy*
- DNA Service for Bonjour*

Assurance & Analytics

- Global Insights, Trends
- Compliance, Custom Reports
- Switch & Wired Client 360
- SD-Access* and Switch Insights
- Application Health, Application 360*, Performance* (Loss, Latency, Jitter)

Element Management

- Patch Lifecycle Management

Essentials

Cisco DNA Essentials 3,5,7 Year Terms

Basic Automation

- PnP Application
- LAN Automation

Basic Assurance

- Health Dashboards – Network, Client, Application
- Basic Switch & Wired Client Health Monitoring

Element Management

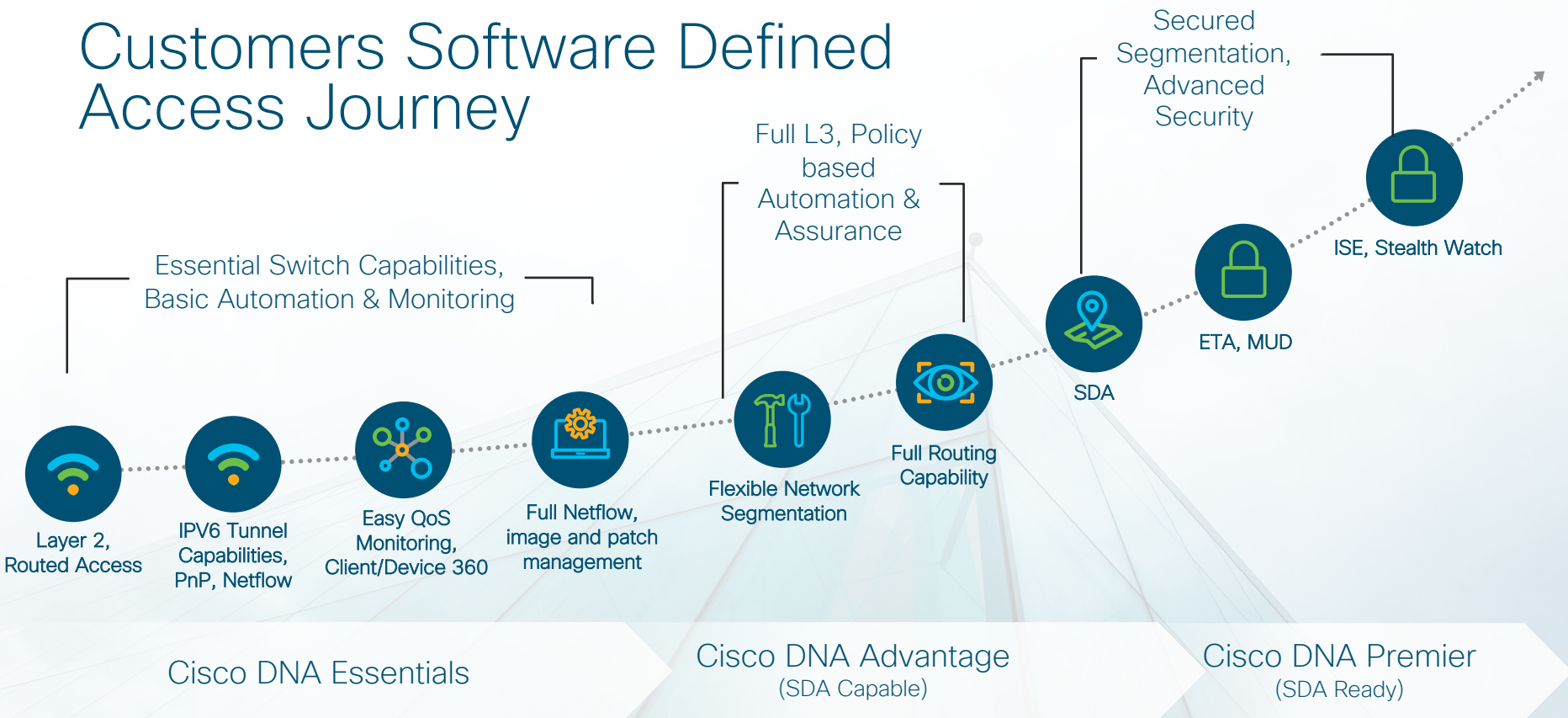
- Software Image Management
- Discovery, Inventory, Topology

*Not supported on all platforms or Caveats Apply. Refer to Product Datasheet for details

- Existing Network Stack remains unchanged and is **Perpetual**.
- Cisco DNA Essentials/Advantage and C1 Advantage is Term-based (3,5,7-yr). **Optional attach when ordering HW.**
- Cisco DNA licenses don't contain any Switch Features for Existing Catalyst families.

Customers Software Defined Access Journey

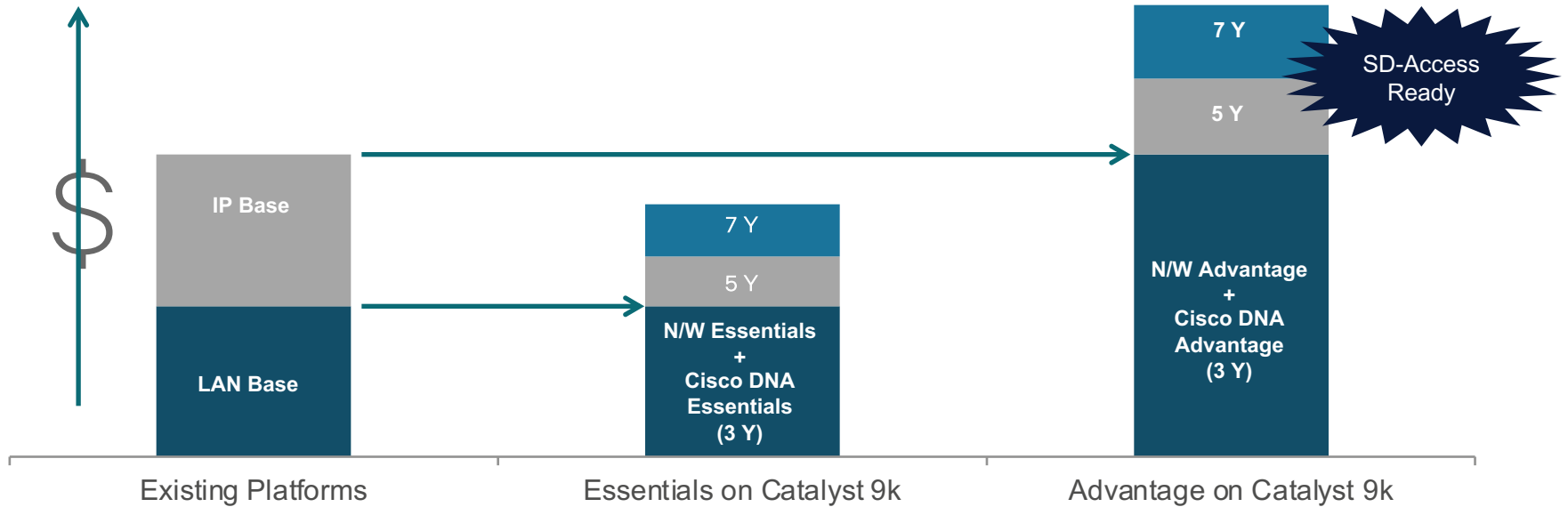
Advanced Security



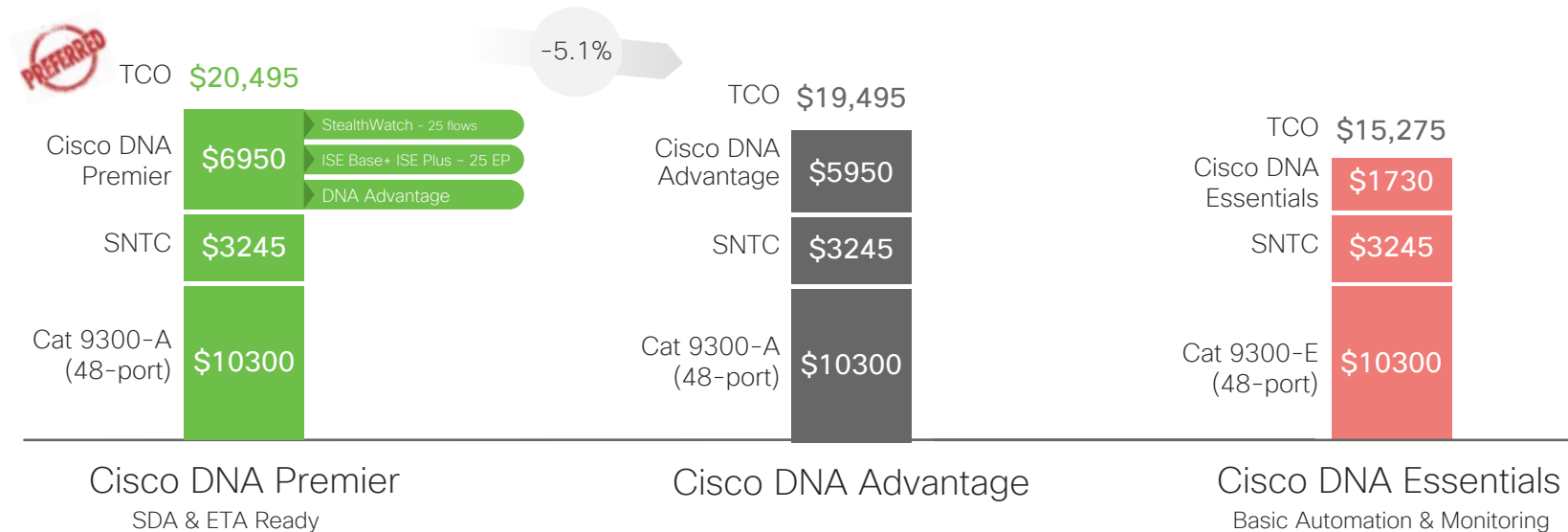
Partner Value Add Opportunity at Every Step

Pricing

Catalyst 9K Priced Right Delivering More Value



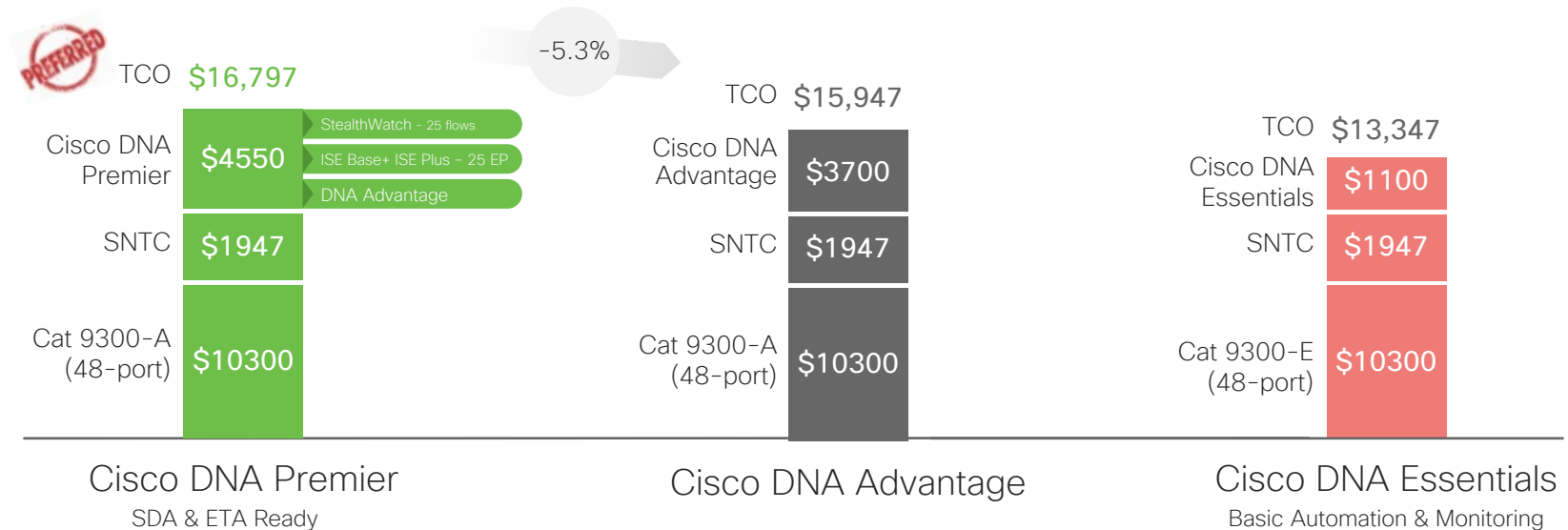
5-Year Hardware & Software TCO Comparison



Additional flows in the increment of 25 can be purchased

Deploy SDA, Assurance and ETA with Cisco DNA Premier for a 5% Price Premium

3-Year Hardware & Software TCO Comparison



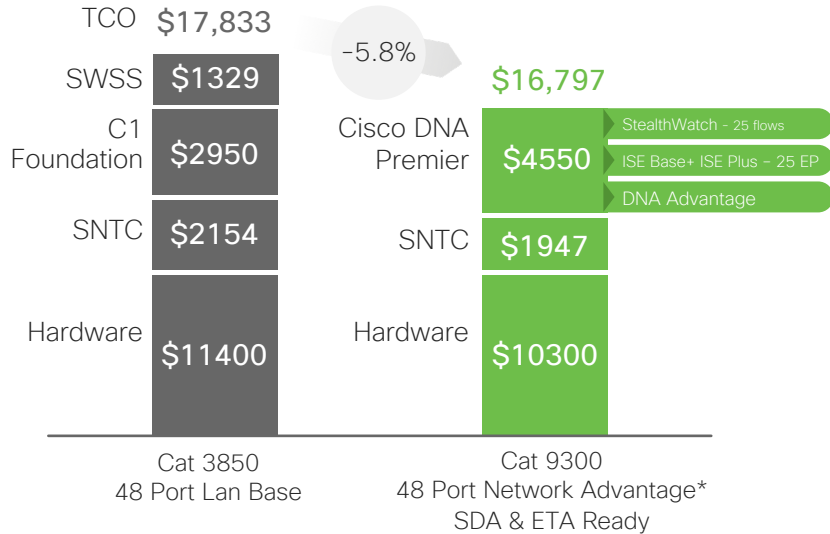
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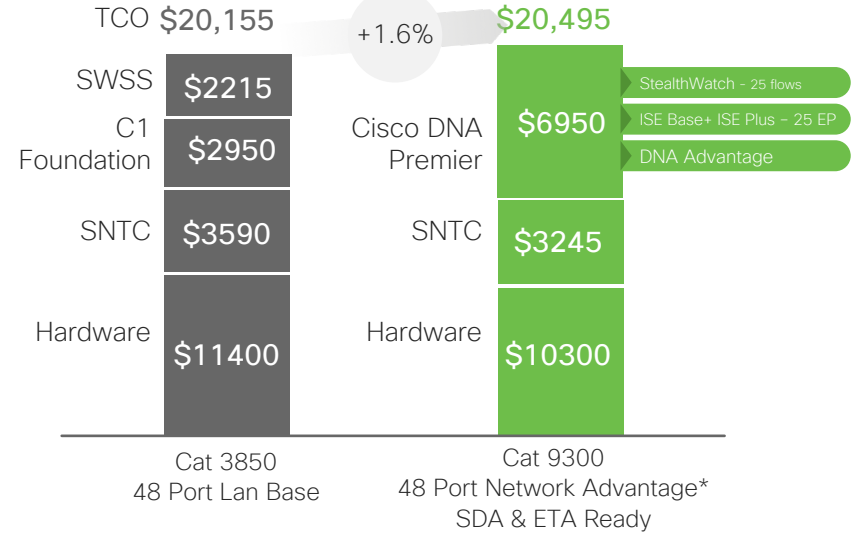
Cisco ONE on Catalyst 3850 vs. 9300

Hardware & Software TCO comparison

3 Year



5 Year

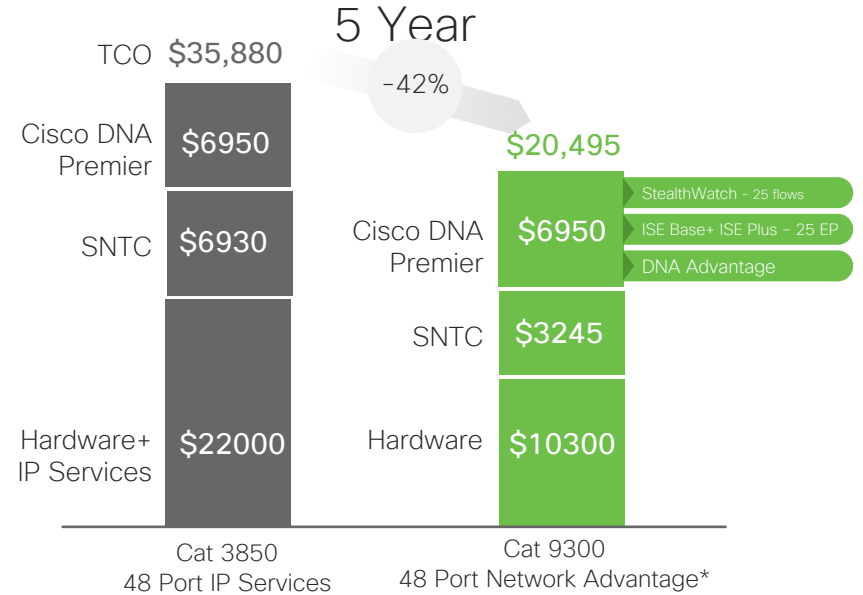
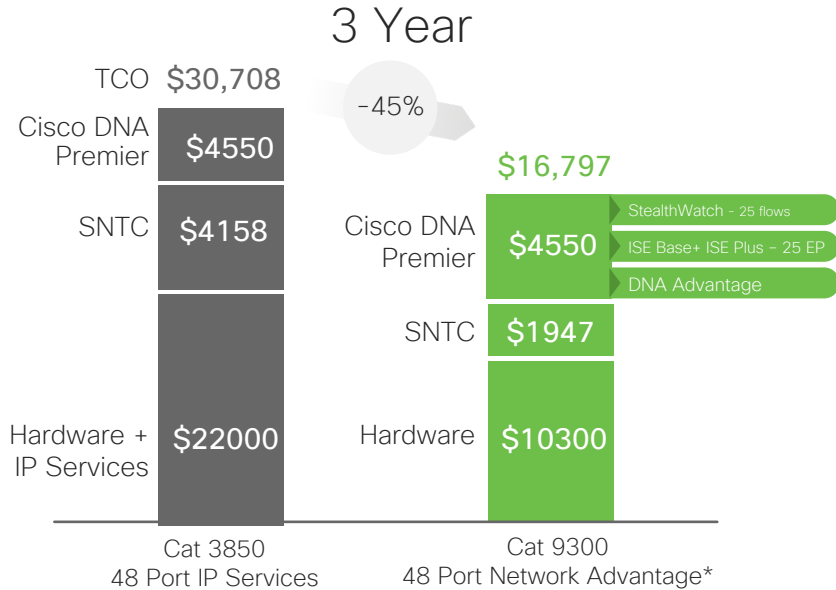


*Network Advantage is equivalent to IP Services. Additional flows in the increment of 25 can be purchased.

Cisco DNA Premier on Catalyst 9K Offers More Value

SDA on Catalyst 3850 vs. 9300 with Cisco ONE

Hardware & Software TCO comparison



*Network Advantage is equivalent to IP Services
Additional flows in the increment of 25 can be purchased

Cisco DNA Premier on Catalyst 9K Offers 40%+ Savings