

The Cloud Era

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Agenda

Cloud Opportunity

- Cisco's Strategy and Differentiation
- **Cloud Architecture**
- **Next Steps**

Things Change



Modern Business

Business Focus

- Products, offerings
- Customer service
- Employee productivity

Beneath the Waterline

- Infrastructure sprawl, complexity
- Low asset utilization
- High operations overhead
- Difficult to manage, scale, optimize, reconfigure, maintain

Impact

- Low agility, efficiency, resilience
- Reduced competitiveness



Meeting Today's Business Challenges

...we need a solution that enables us to respond to customers within hours instead of days"

"I need to achieve greater cost efficiency and increased IT agility...an elusive combination..."

"At the end of the day, I just want to simply, confidently say 'yes' to my business."

Risk

Growth

Margin

Data Center is today at a Critical Juncture Convergence of Traditional IT and new Business Pressures



Empowered User



Realtime Information



Collaborative Applications



Economic Uncertainty

New Business Pressures

> Operational Challenges





Asset Utilization Complex Provisioning

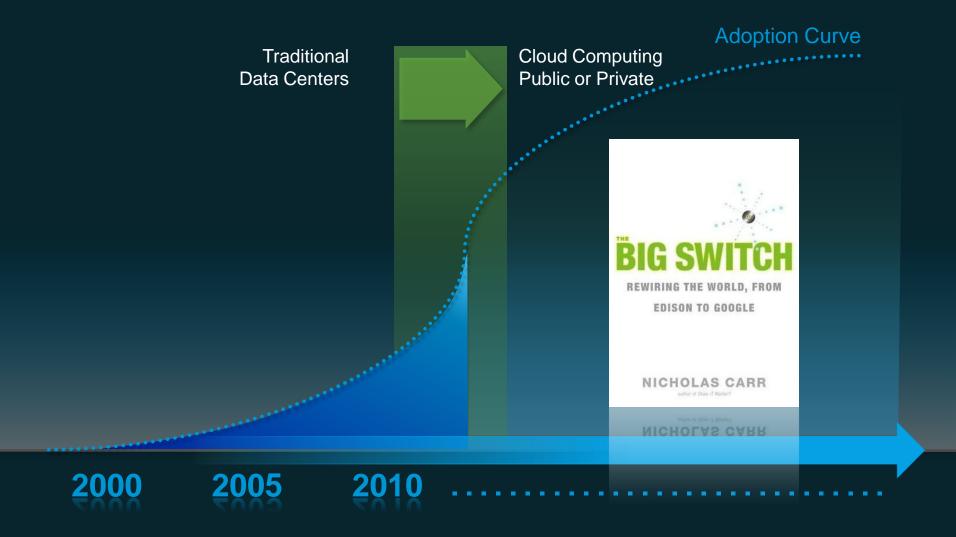


Integrity and Availability

Consumption

Energy

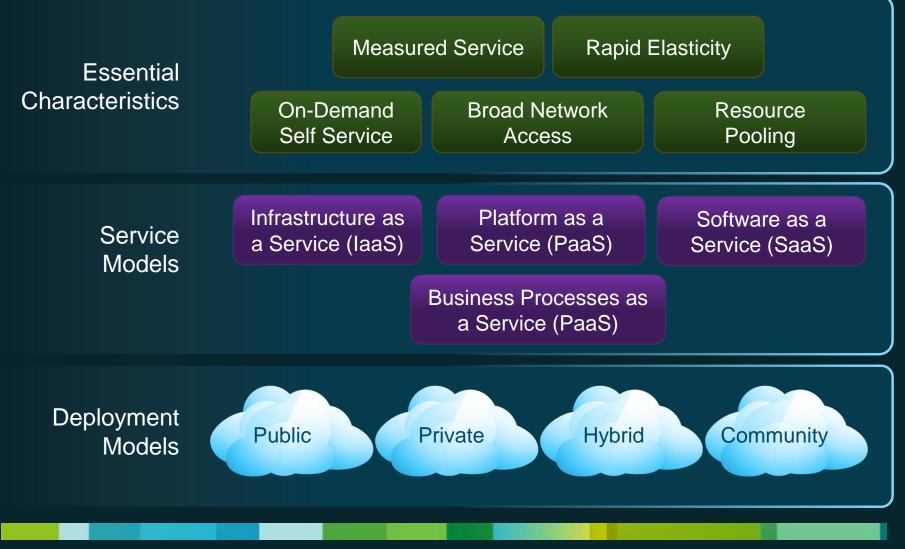
The Beginning of a Major Shift



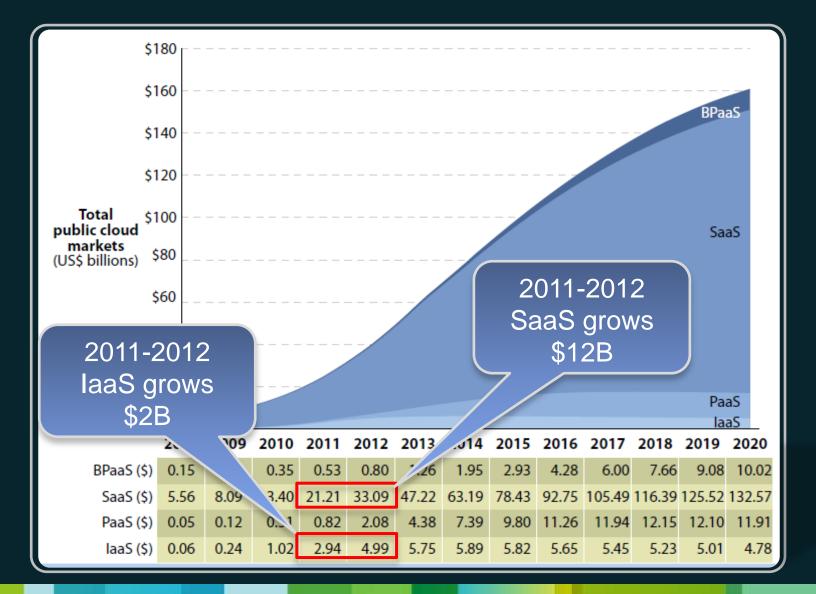
Data Center Architectural Evolution

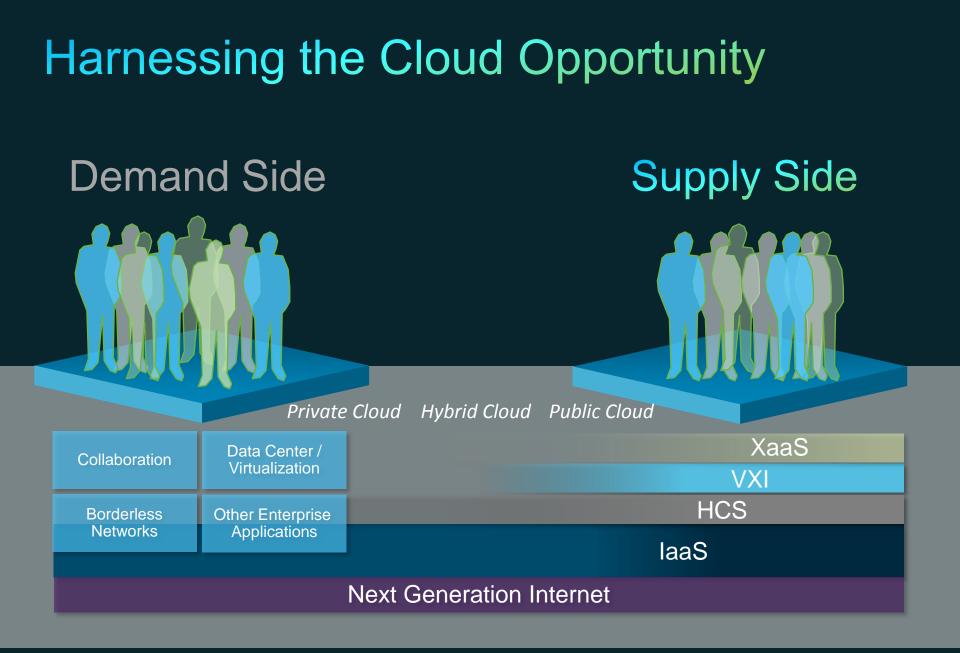
Data Center 1.0	Data Center 2.0	Data Center 3.0							
Mainframe	Client-Server and Distributed Computing	Service-Oriented and cloud							
Centralized	Decentralized	Virtualized							
Application Architecture Evolution									

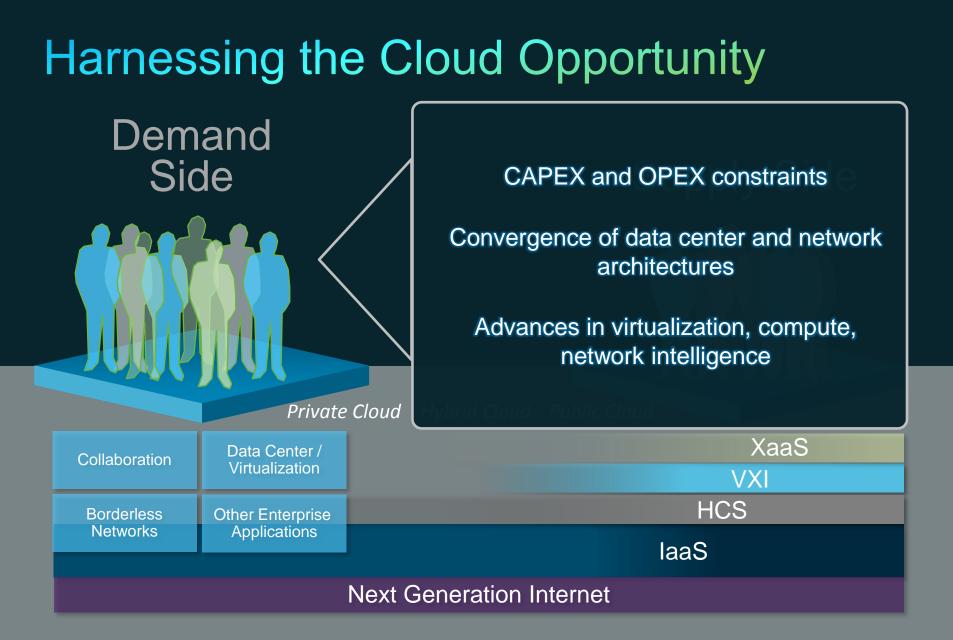
NIST Cloud Definition



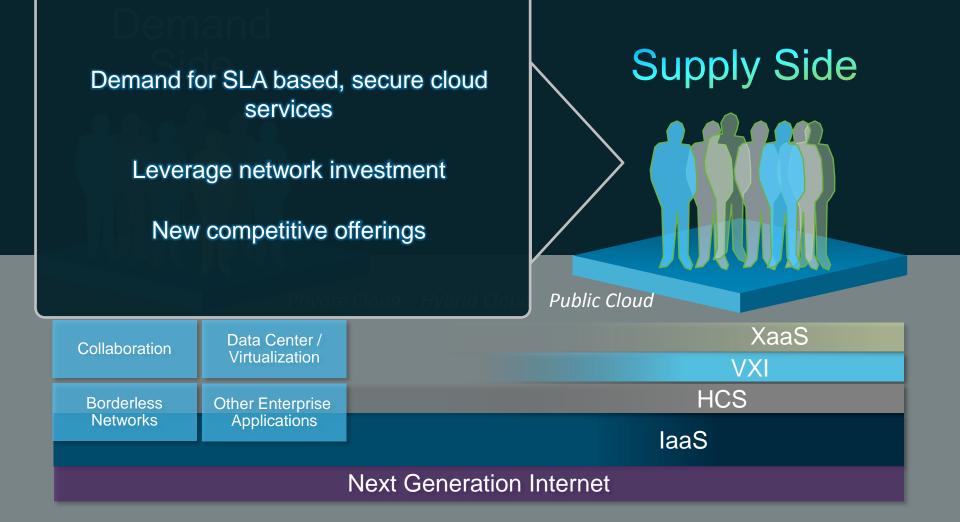
The Cloud Market Opportunity



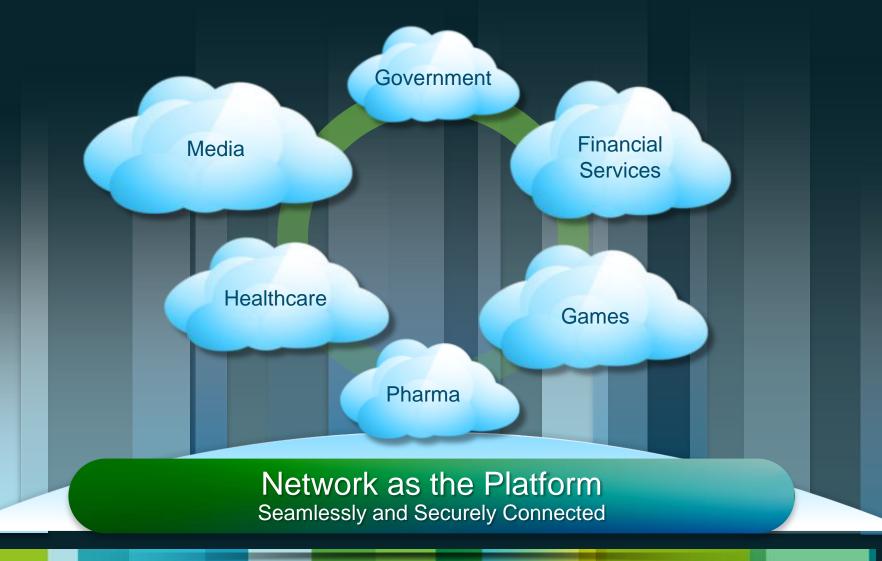




Harnessing the Cloud Opportunity



Vertical Cloud Opportunity



2011 Cloud Headlines for Service Providers



Acquisitions are Shaping the Cloud Market



Agenda

Cloud Opportunity

Cisco's Strategy and Differentiation

SP Cloud Architecture

Next Steps

Cisco's Cloud Vision

Enabling Cloud Services Based on our Network Platform Advantage

Cisco's Cloud Strategy

Enabling Cloud Services Based on our Network Platform Advantage

Tailored Solutions for Building Clouds



Enable customers to build and operate public or private clouds

Rich Ecosystem with Integrated Solutions



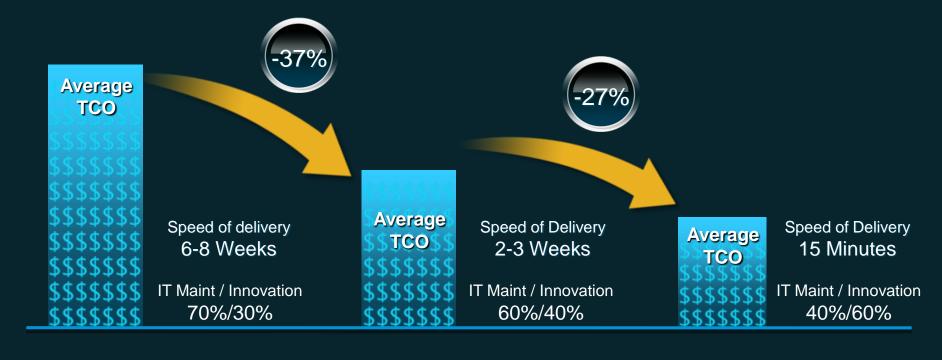
Enable customers to deploy tested, best of breed solutions

Accelerate the Use of Cloud Services



Enable customers to deploy cloud services to collaborate and secure their business

Cloud Case Study Cisco IT Elastic Infrastructure Services (CITEIS)



Legacy Computer Platform 100% Physical

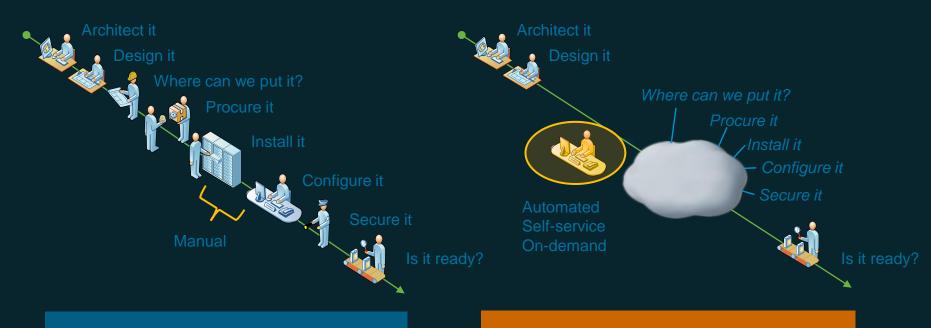
Legacy Computer Platform 46% Physical : 54% Virtual

Unified Computing Platform 25% Physical : 75% Virtual 100% Automated

Virtualization

Unified Infrastructure and Automation

Introducing CITEIS – Concept A Framework for Providing Infrastructure as a Service



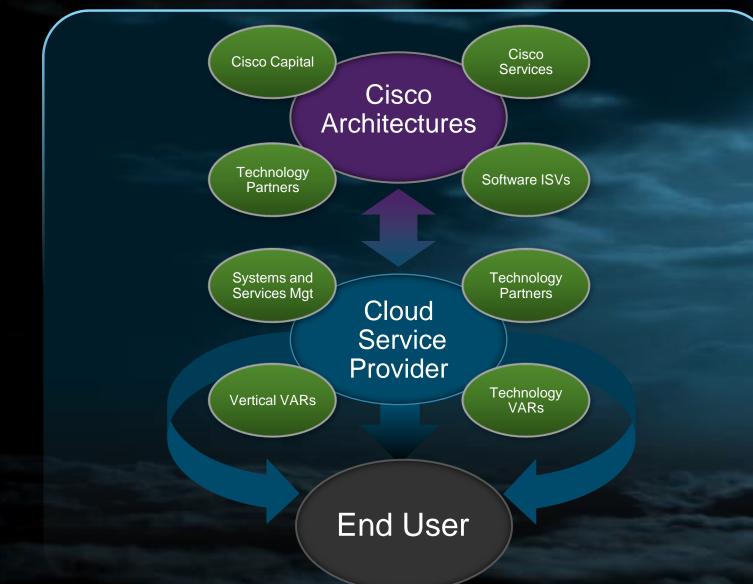
Before CITEIS

- Machine-oriented
- Manual provisioning
- Hard to control utilization
- High provisioning & ops cost
- Extended provisioning time
- Configuration risk

After CITEIS

- Service-oriented
- Self-service; automated provisioning
- Elasticity (capacity-on-demand)
- Optimized provisioning & ops cost
- Rapid provisioning
- Increased Resiliency and Availability

Open Cloud Ecosystem



Service Creation Methodology is Essential



Envision innovative new cloud services Unmatched technology and partner ecosystem

Demand creation and fulfillment

Product Management

Engineering and Operations

Sales and Marketing

Agenda

Cloud Opportunity

Cisco's Strategy and Differentiation

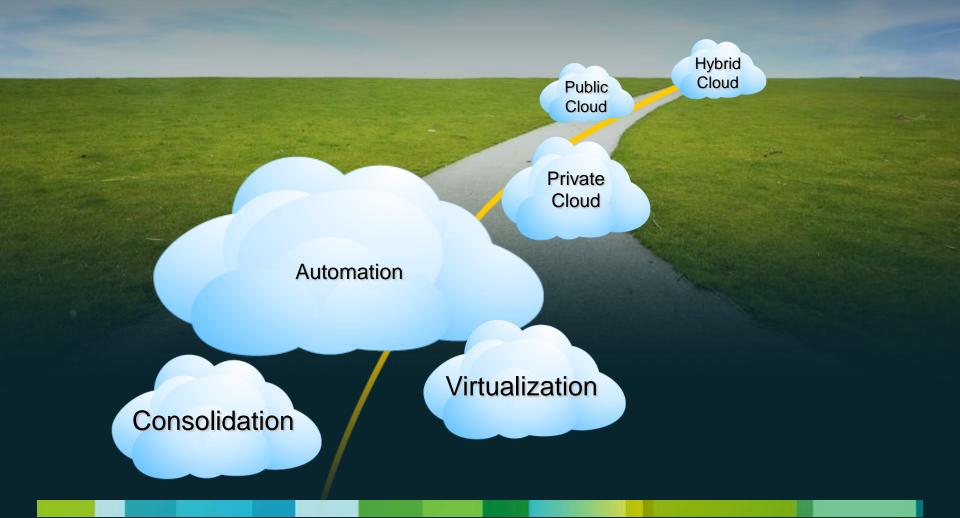
Cloud Architecture

Next Steps

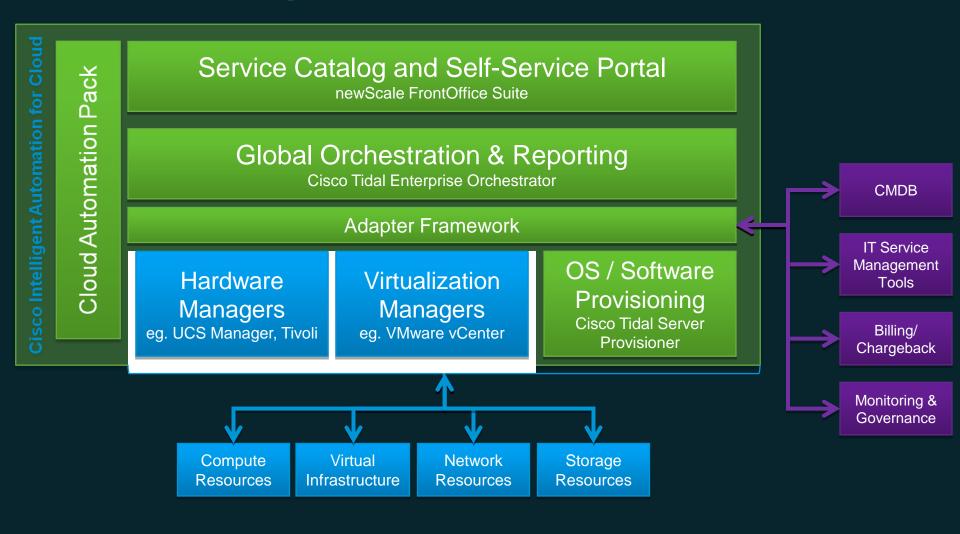
Requirements for Cloud Services



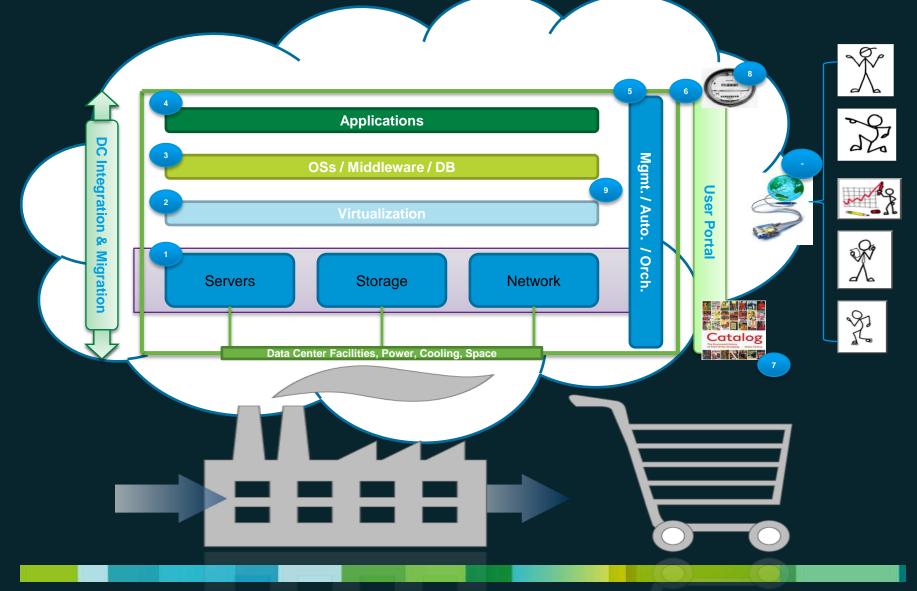
Where is the customer on this Journey?



Cisco Intelligent Automation for Cloud



Cloud Requires Factory + Storefront



Cloud Capability Matrix

		Facilities / Infrastructure	Virtualization	OS / Middleware / DB	Applications	Management / Automation / Orchestration / DC Interface	User Interface	Service Management / Service Catalog	Finance / Chargeback	Process / Governance / Operations	Security / Compliance
5	Public Cloud					7					/
4	Private Cloud										
3	Automated										
2	Virtualized										
1	Consolidated	Factory + Storefron									nt
0	Legacy										

Cisco Intelligent Automation for Cloud

Enable the IT Storefront:

- ✓ Service Portal
- ✓ Service Catalog
- ✓ Policy-based controls
- ✓ Lifecycle management
- ✓ Pay-per-use tracking
- Enable the IT Factory:
 - ✓ Day 1 orchestration and automation
 - ✓ Day 2 management and scheduling



- Across hybrid physical, virtual, and cloud environments, from desktop to data center
- Proven in deployments by the world's largest companies

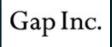








Cable&Wireless Worldwide







CIA: Sample Customers



CIAC platform has attracted blue-chip customers across a variety of vertical markets

Agenda

Cloud Opportunity Cisco's Strategy and Differentiation SP Cloud Architecture

Next Steps



Enabling the Journey to Cloud Summary – Next Steps

Cloud momentum is accelerating



Cisco's strategy is to enable cloud providers

Cloud monetizes your network investment



The network, unified computing, virtualization, and automation make the cloud possible



Cisco's Envision, Build & Operate, Market & Sell enable faster time to value



Thank you.

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