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# SP SDN Moving from Connection Provider to Cloud Provider

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Topics Key Drivers Network Focus Areas Baseline Principles Cloud and SP





## Service Provider Networking: An Industry in Change





ın	damental Targets
	One truly converged network         • de-layered, IP and Optical are one, bits over wavelengths, no L1-L2-L3 dependencies
	The same technology for LAN and WAN           • For LAN: IP packets in Home, Office, Data Center; for WAN: IP packets in Metro, Country, Continent
	All digital services for consumers and businesses         • communication, information, cloud -apps, -compute and -storage
	Real-time OSS         • instantaneous self-service provisioning, guaranteed good user experience, real-time analytics
	Standardized service toolbox     services in the Data Centers, with standard computers instead of specialized appliances
	Cloud-era economics  • service flexibility, fast-paced innovation, agile implementation, reduced system complexity, lower cost
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# Baseline SDN and NfV principles for SP

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### **Network function Virtualization**

Transition network services to virtual workloads





# Cisco Open Network Environment Interaction Among all Components of Service Creation & Delivery



#### SDN – Enabling Programmatic Network Access Open APIs as Flexible Integration Vehicles at Multiple Layers



# Deployment Use Case – What to use it for ?



# The Cloud Debate: How to positively affect GTM and TTM for Services

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# Need a new Operational Model and Capability











## **Driving the Next Wave of Innovation**



