



BUILDING DATA CENTERS FOR THE CLOUD

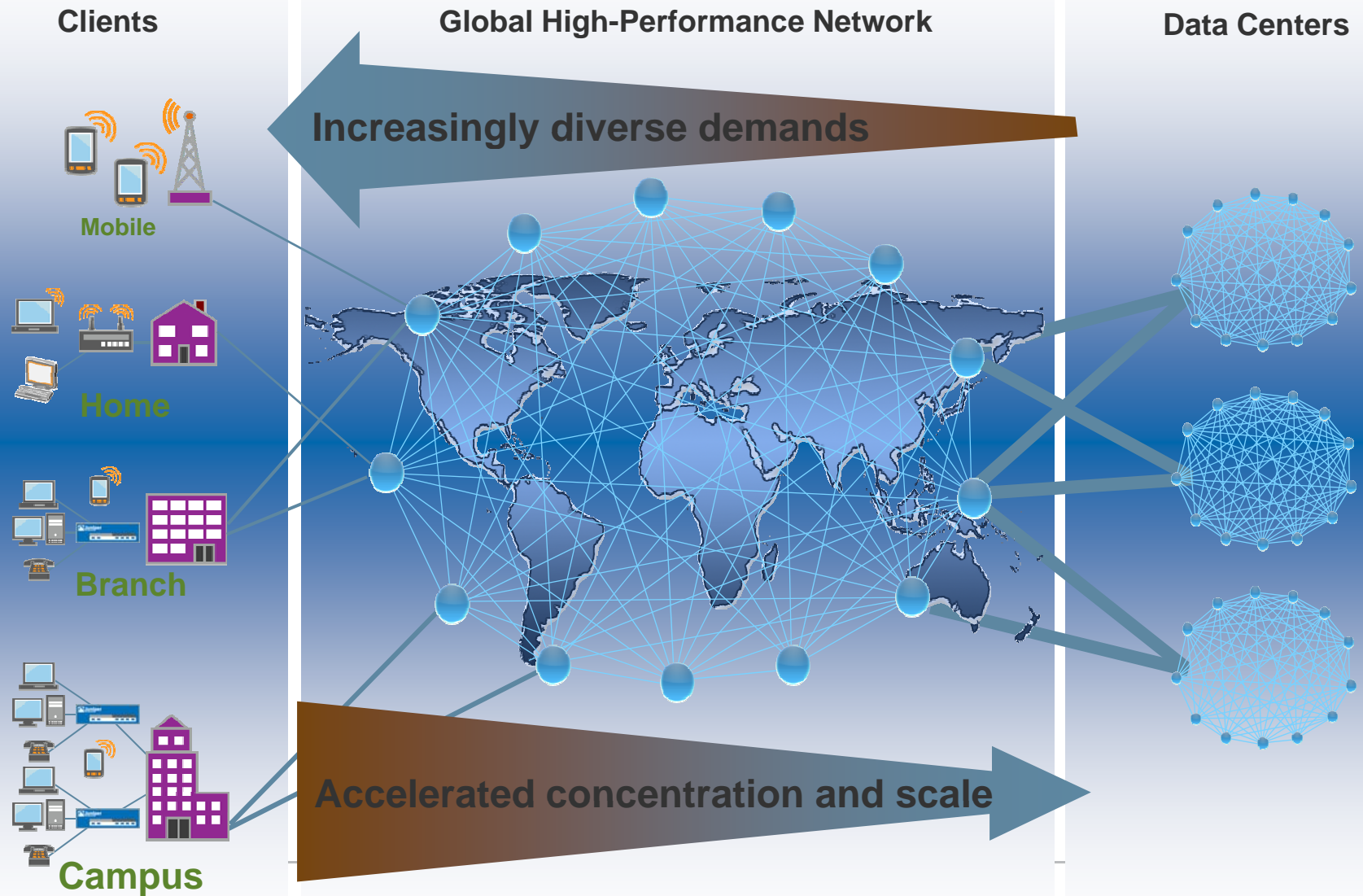
JUNIPER'S CLOUD NETWORKING VISION FOR SERVICE PROVIDERS

Mark Williams <miw@juniper.net>

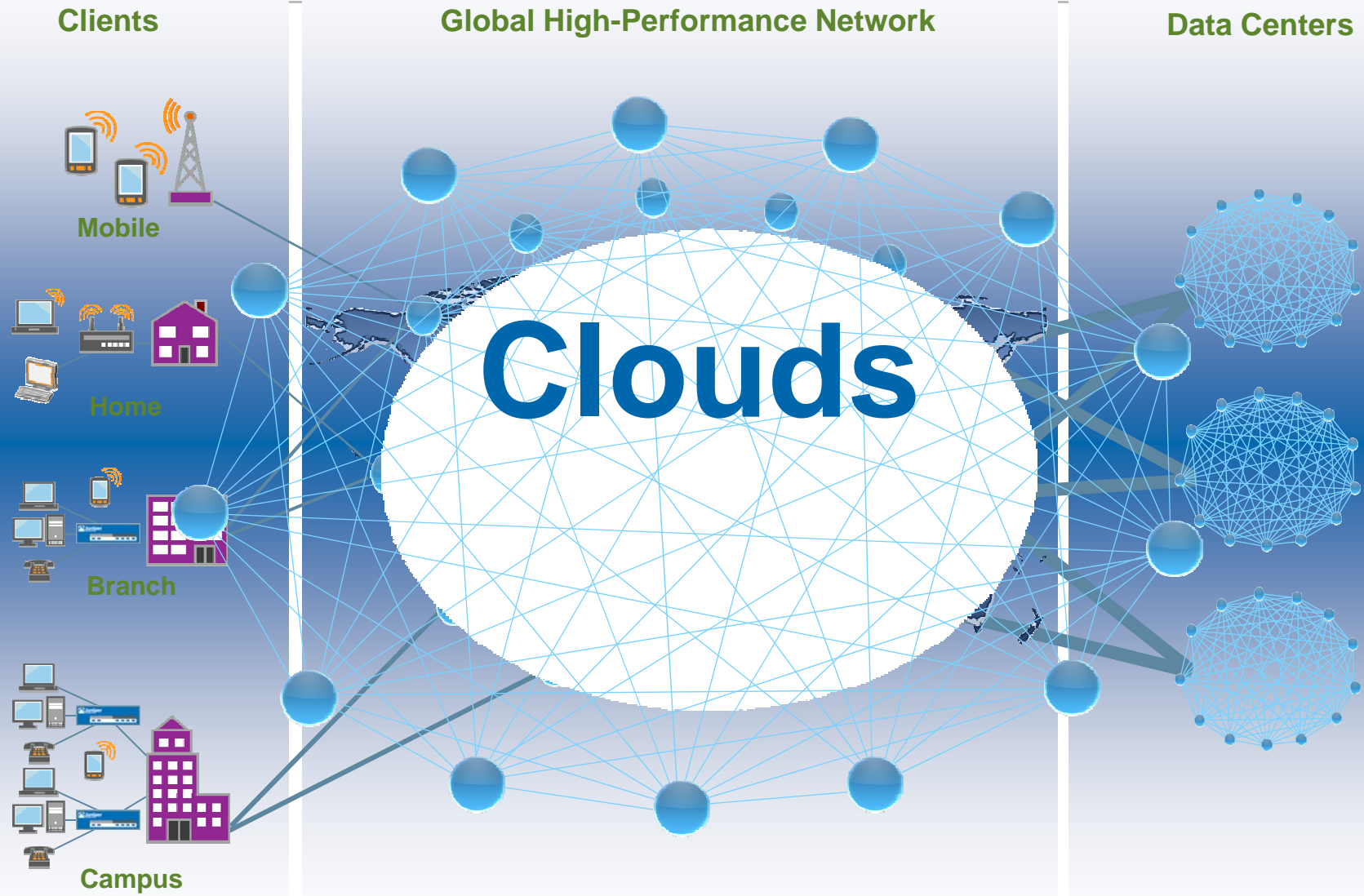
Dhaka, 27th January, 2010



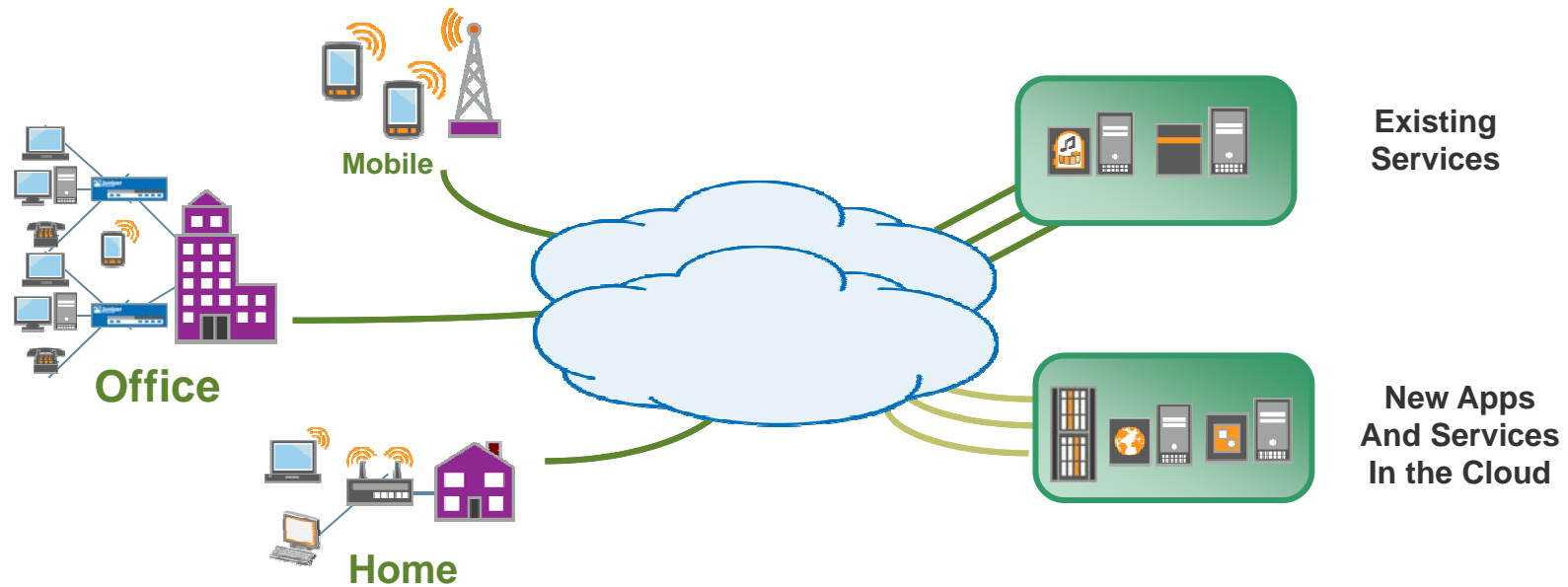
CLOUDS: THE NEW INFORMATION INFRASTRUCTURE



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NSPS' ADVANTAGES IN THE CLOUD



Existing customer relationships and connections

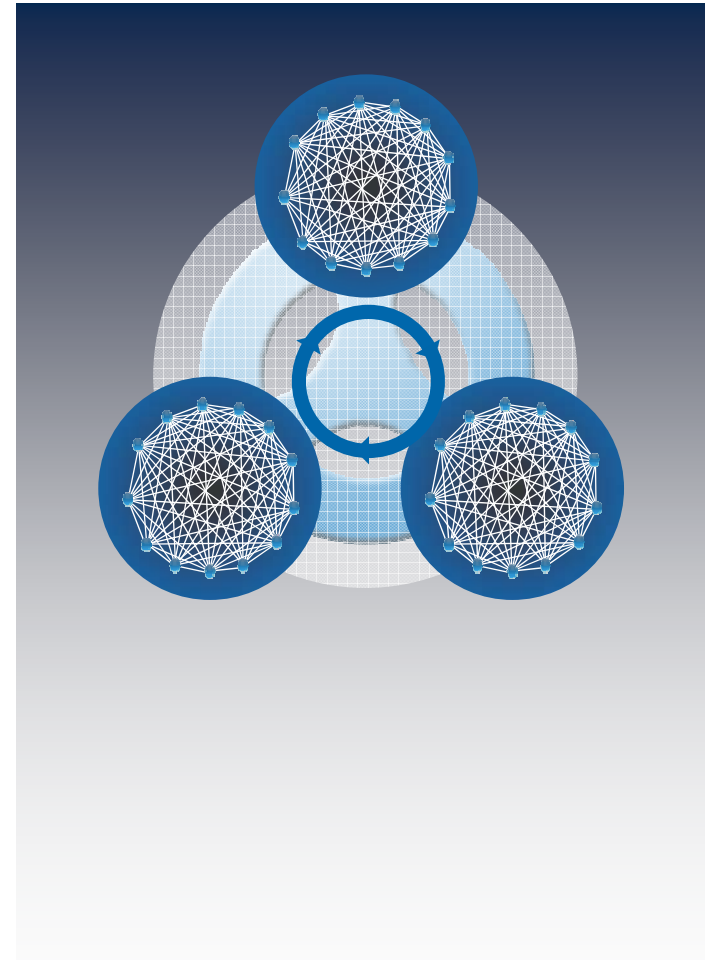
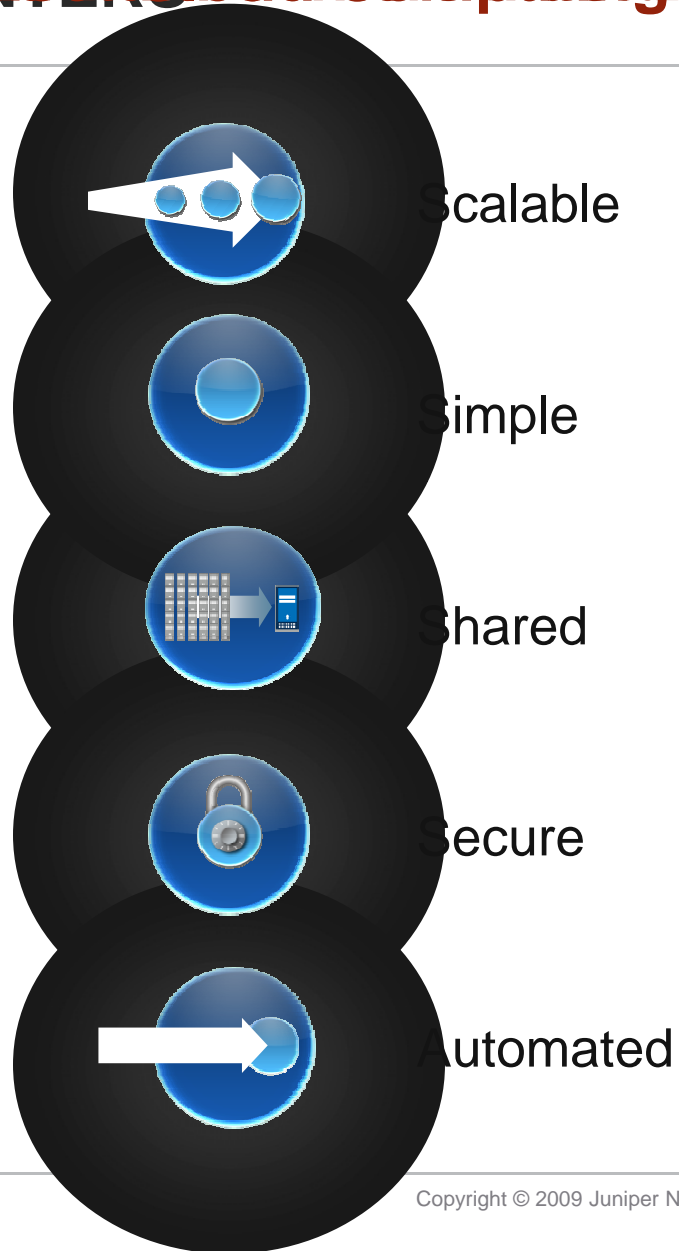
- Brand familiarity, upsell and cross-sell

Leveraging skills in operational scale

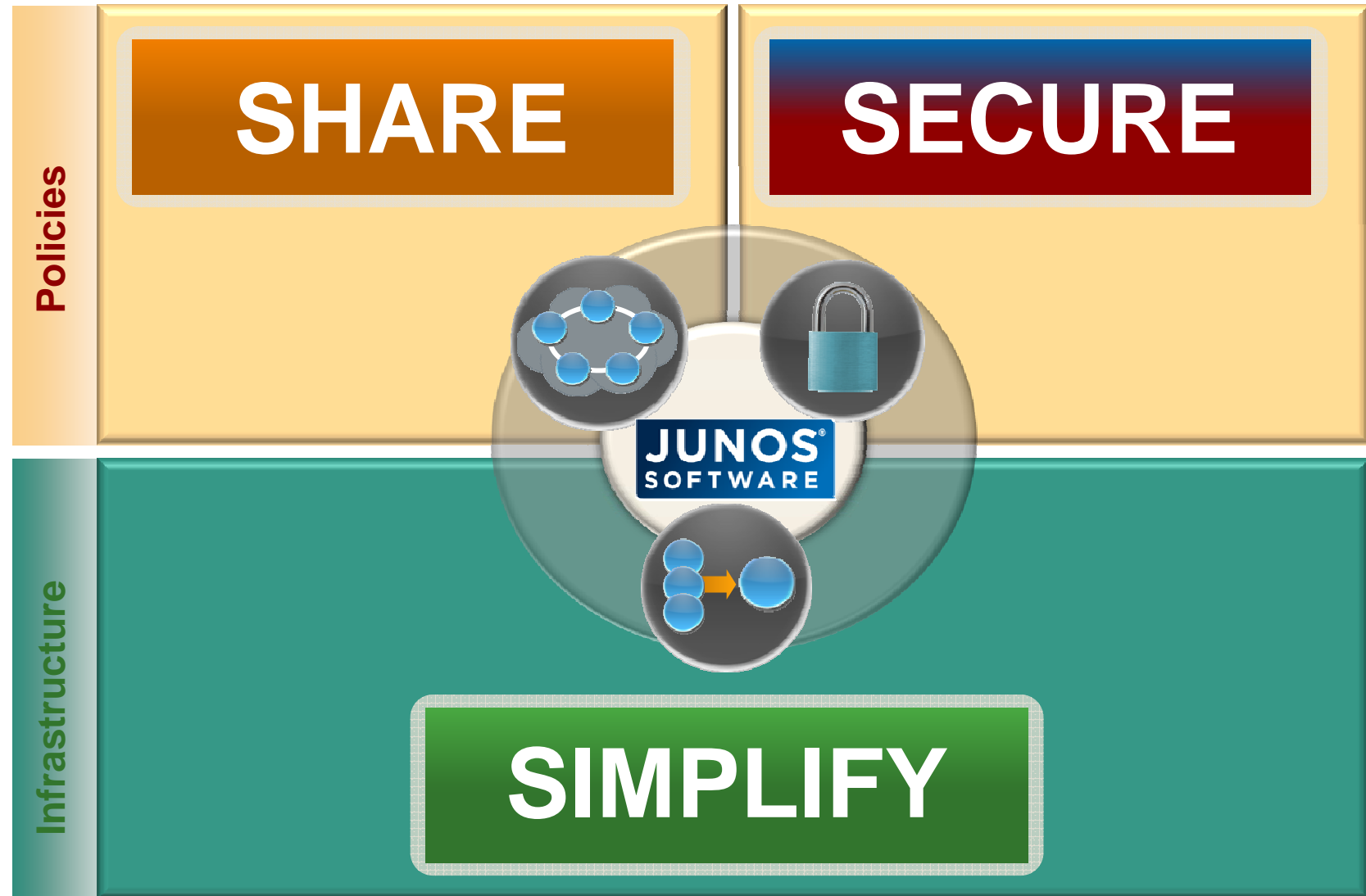
Leveraging skills in SLA management

Flexibility in scope of market introduction

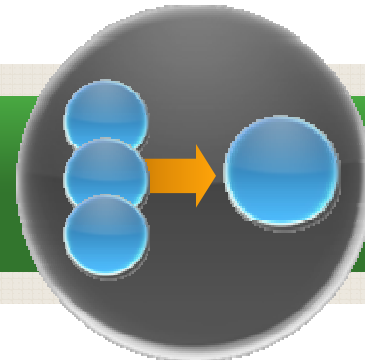
JUNIPER'S VISION FOR CLOUD COMPUTING DATA CENTERS Must Be Requirements ...



THESE ARE THE FOUNDATION OF JUNIPER'S CLOUD DATA
WE FOCUS ON CUSTOMER REQUIREMENTS DESIGN ...
CENTER INITIATIVE



SIMPLIFY

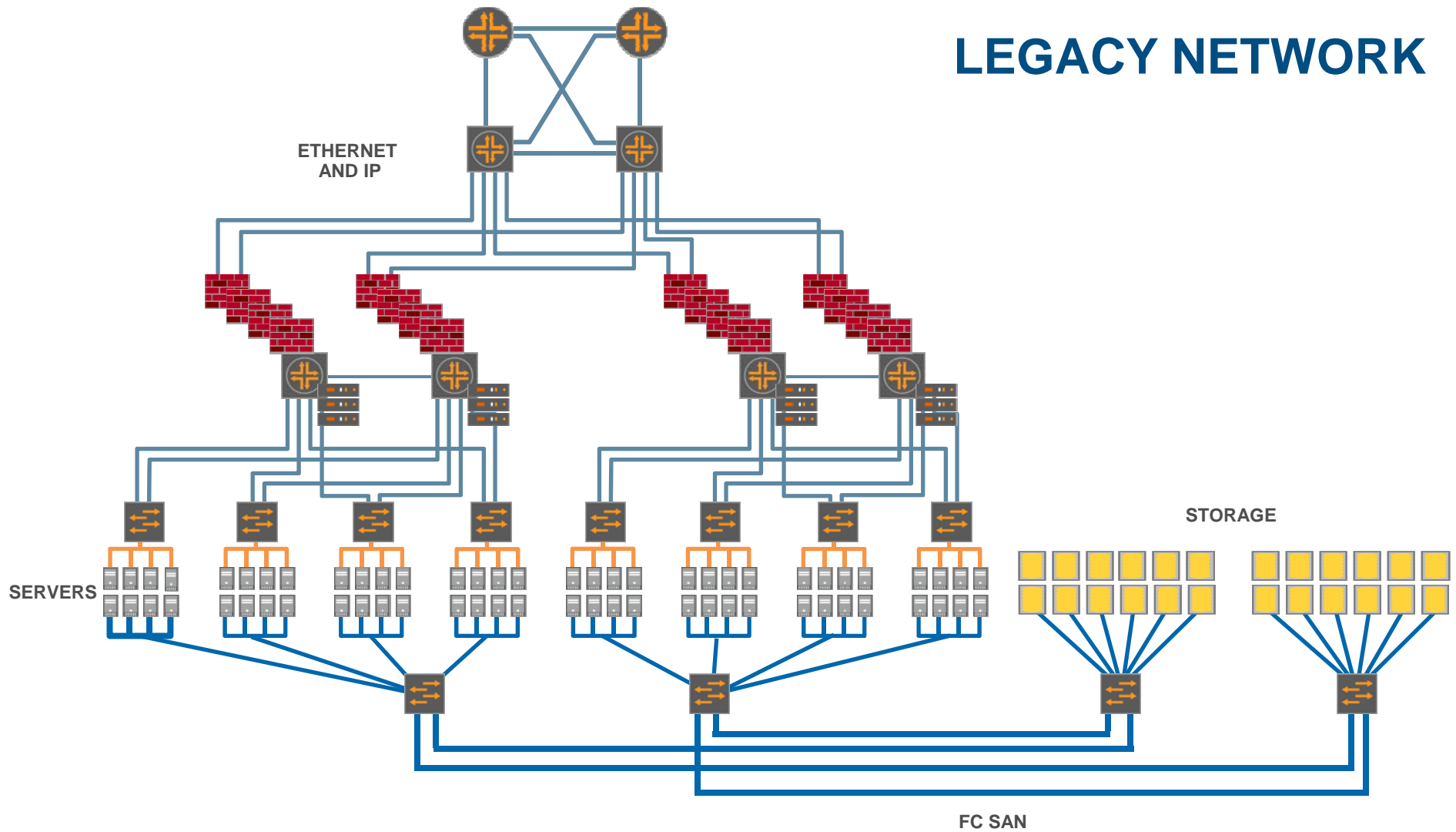


THE DATA CENTER NETWORK



SIMPLIFY – JUNIPER’S VISION

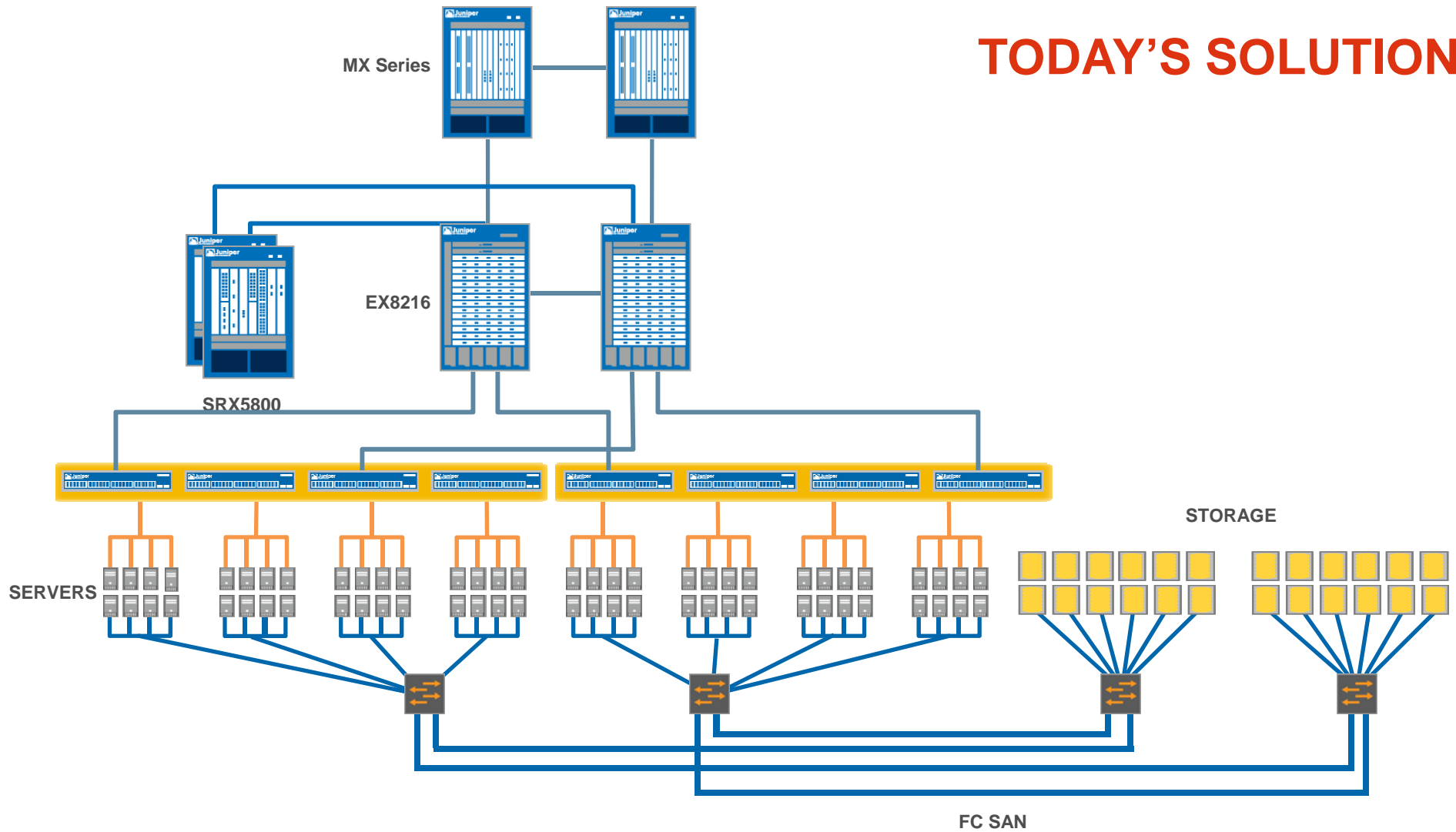
LEGACY NETWORK





SIMPLIFY – JUNIPER’S VISION

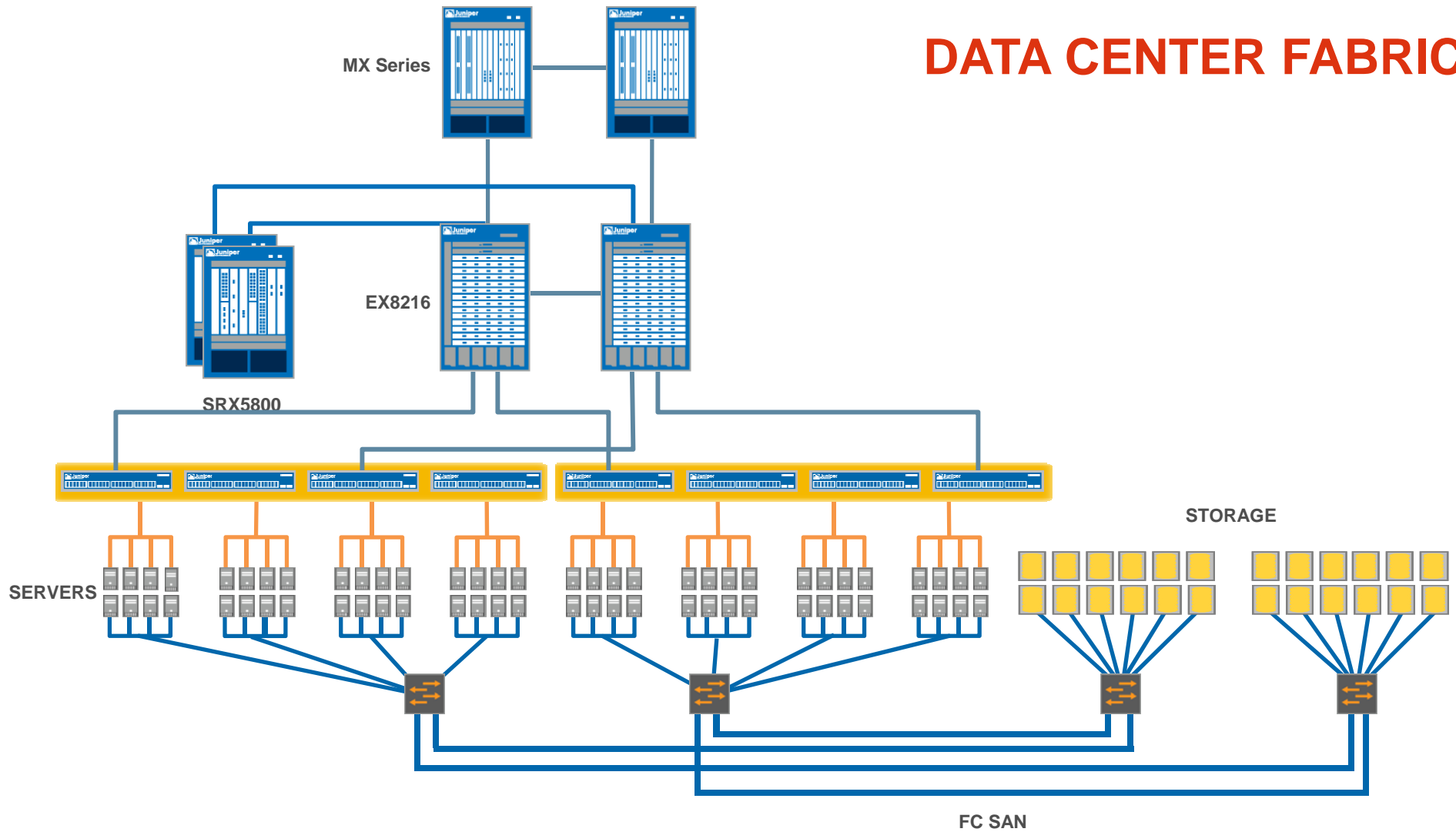
TODAY’S SOLUTION





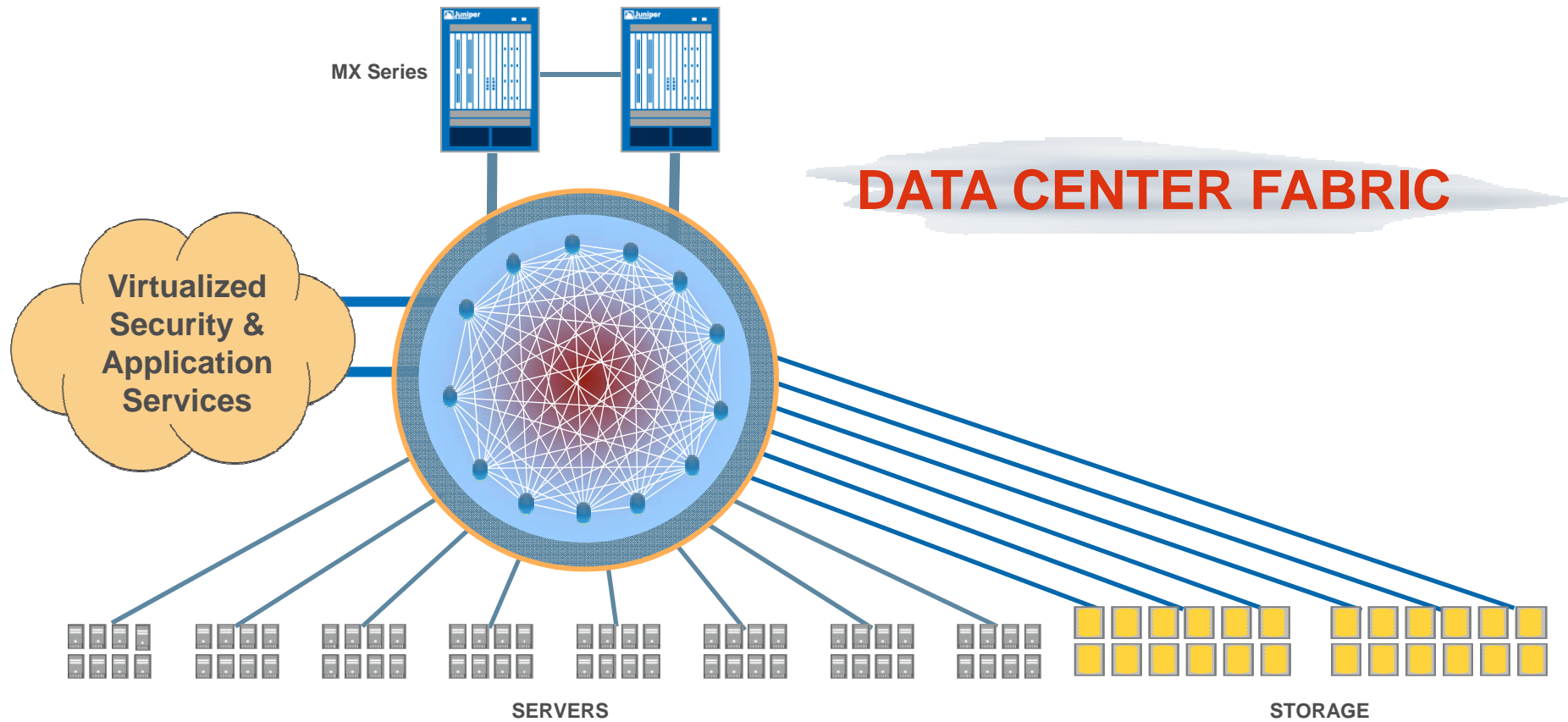
SIMPLIFY – JUNIPER’S VISION

DATA CENTER FABRIC

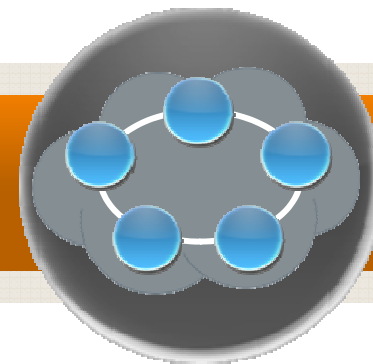




SIMPLIFY – JUNIPER’S VISION

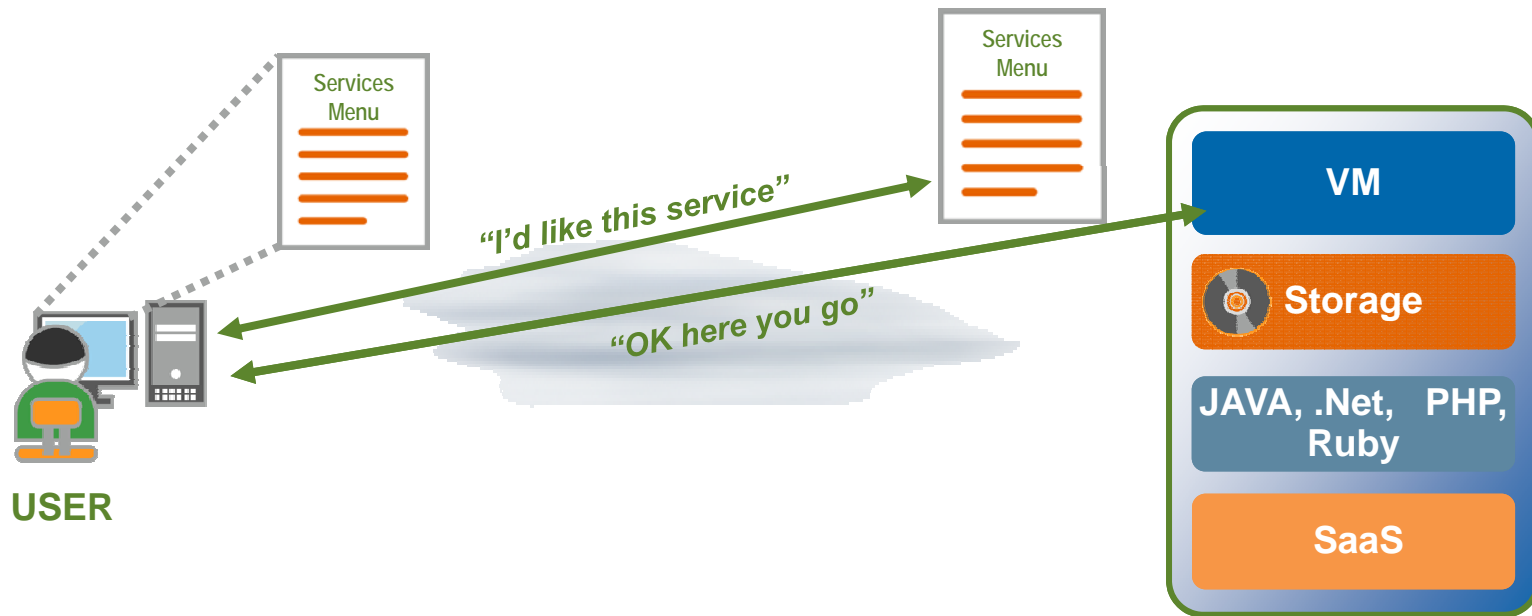


SHARE

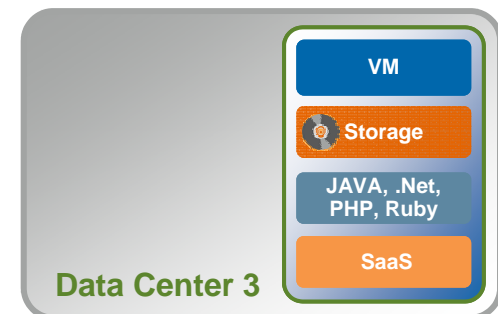
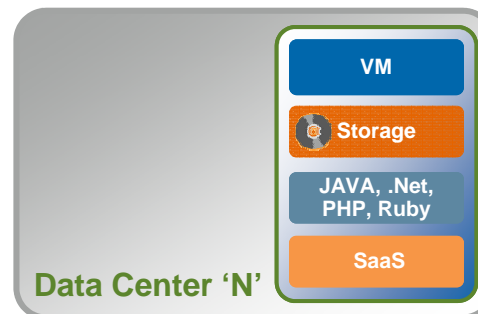
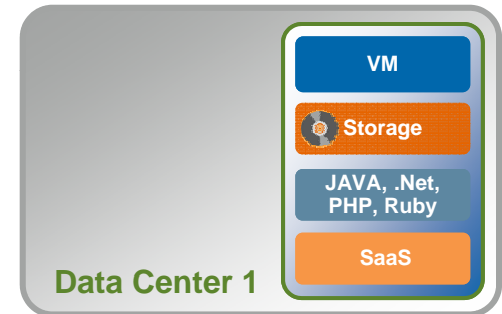
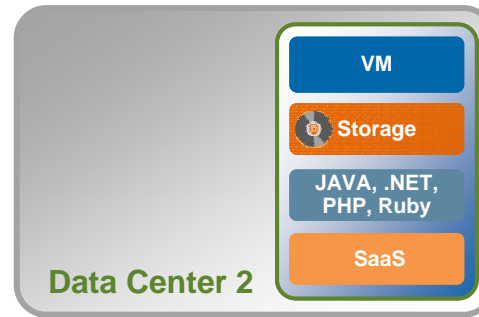


THE DATA CENTER NETWORK

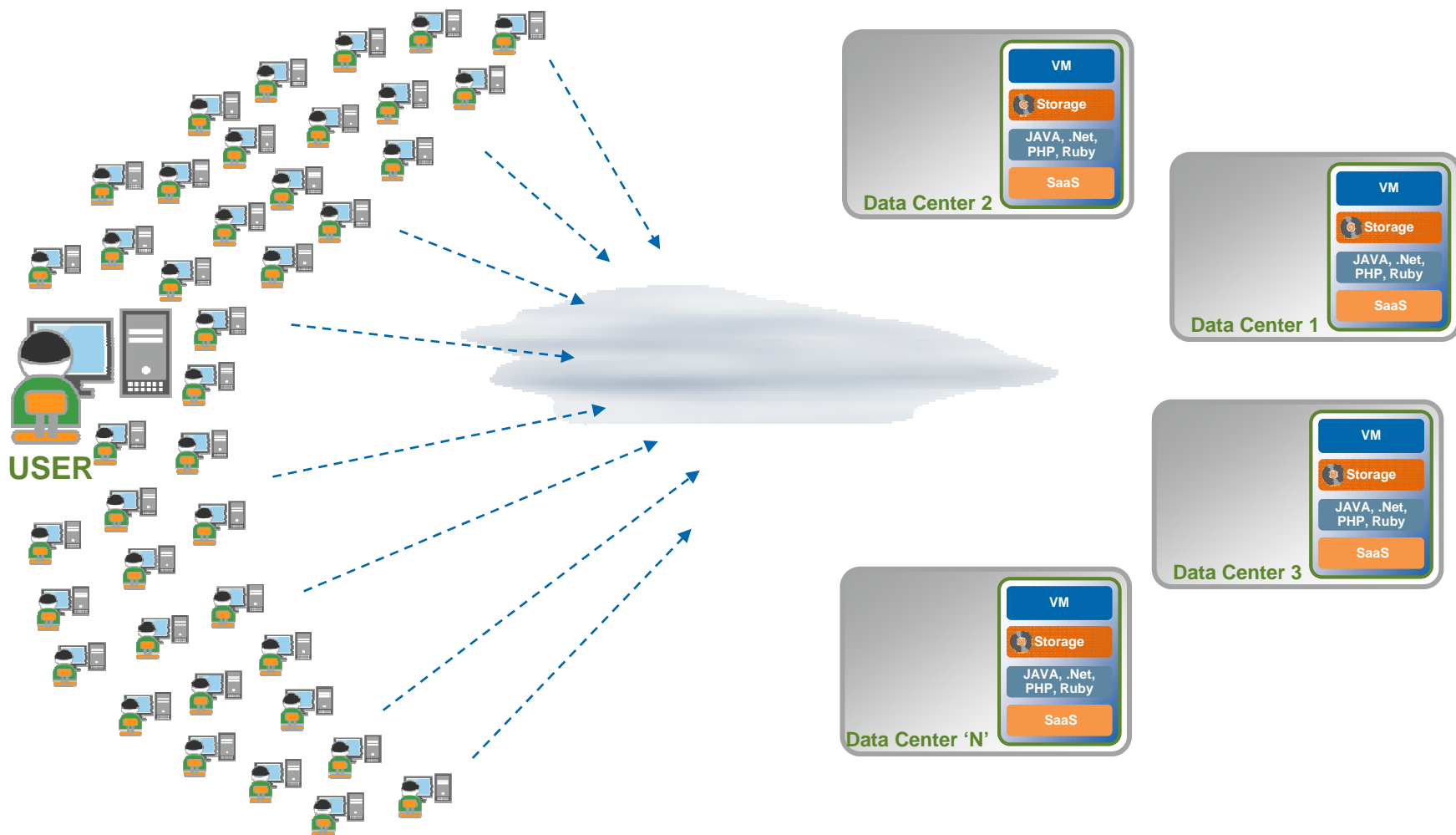
CLOUD MODEL: ACCESS SERVICES ON-DEMAND ...

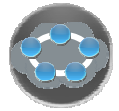


... FROM TRANSPARENTLY ABSTRACTED RESOURCES ...

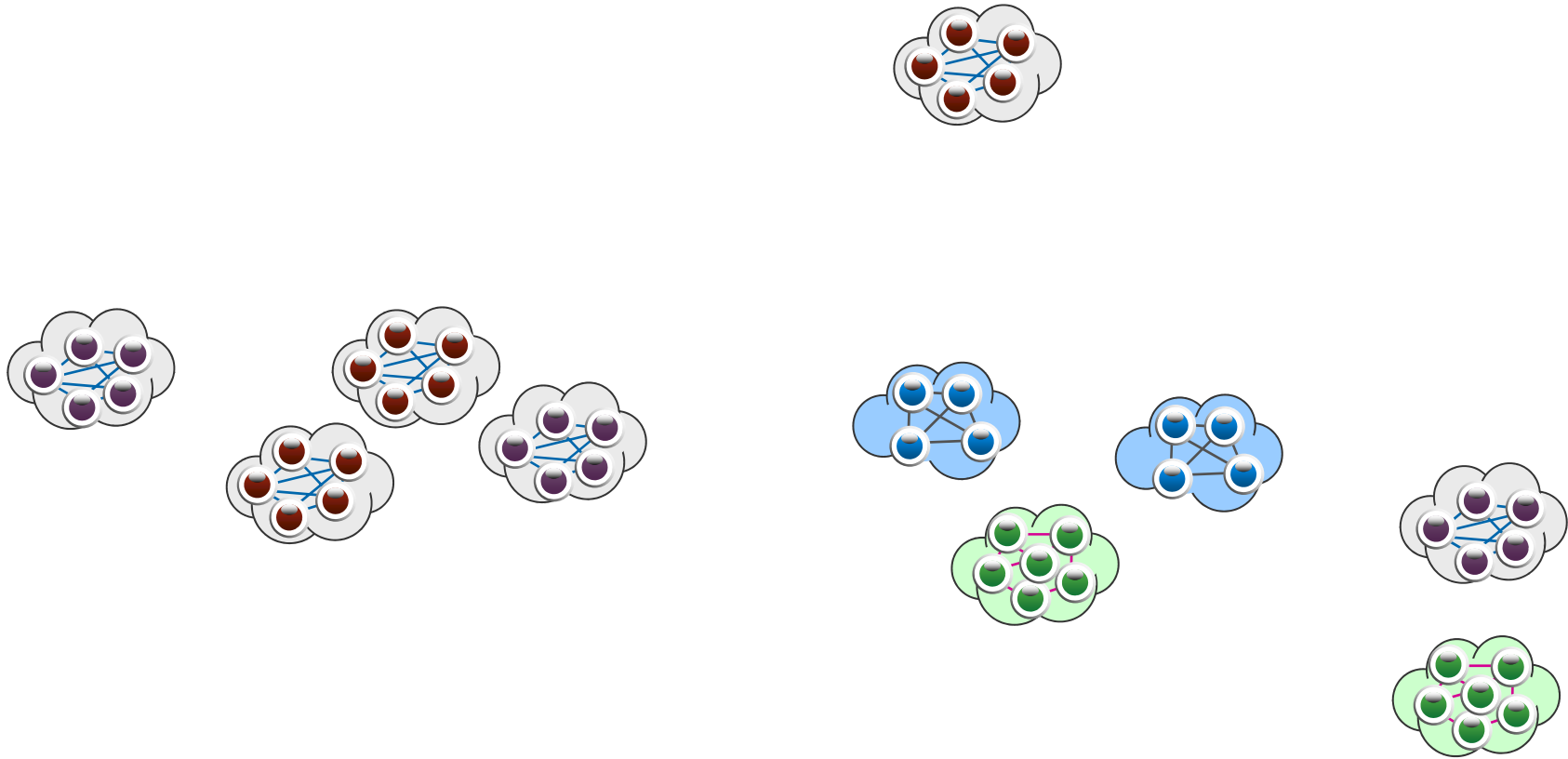


... ACROSS AN ARBITRARILY LARGE CUSTOMER SET



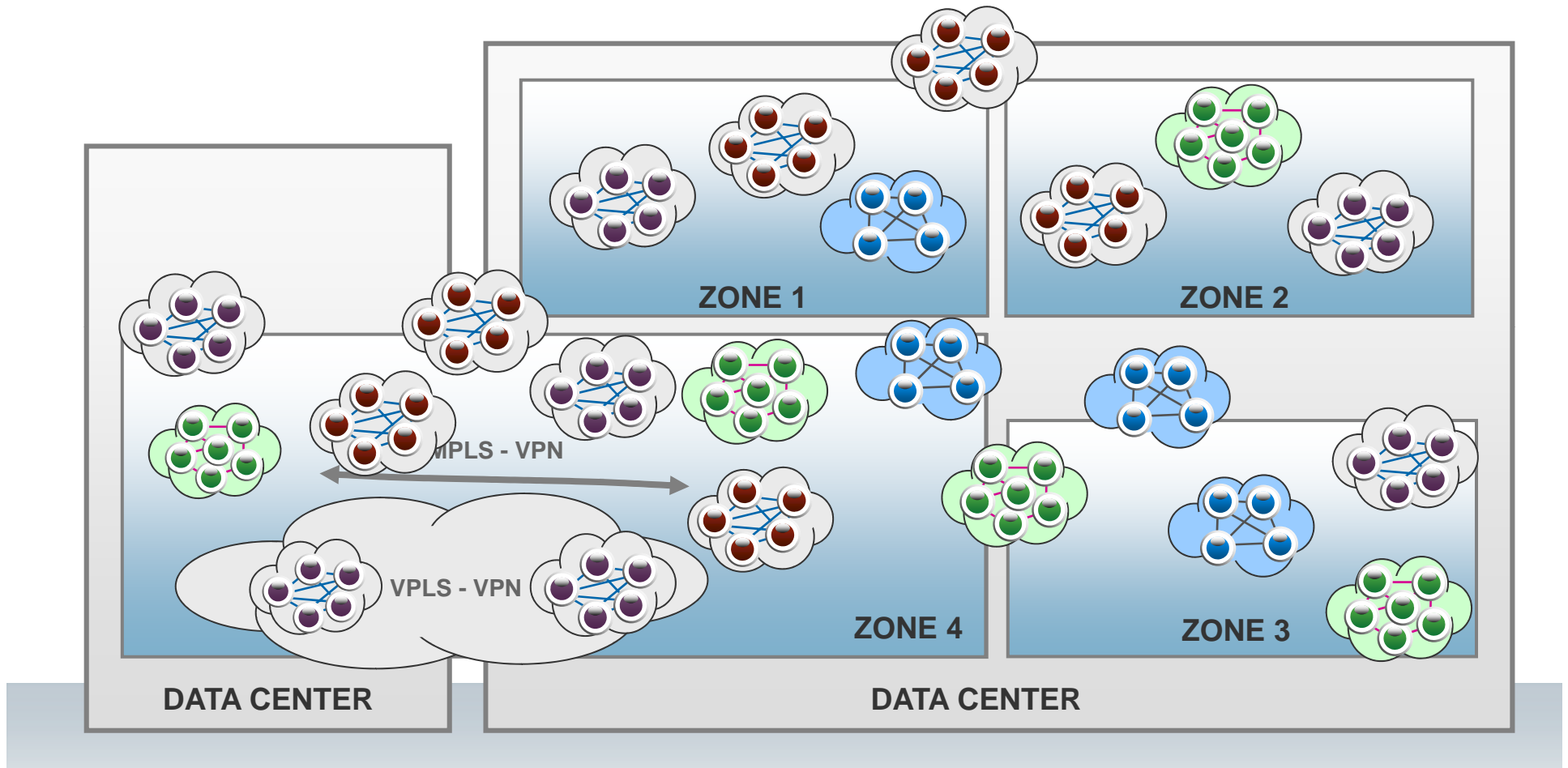
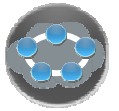


PARTITIONING: HOW POLICIES STRUCTURE CAPACITY ...



VLANs

... AND DELIVER APPROPRIATE SERVICES AT SCALE



VLANs

Zones

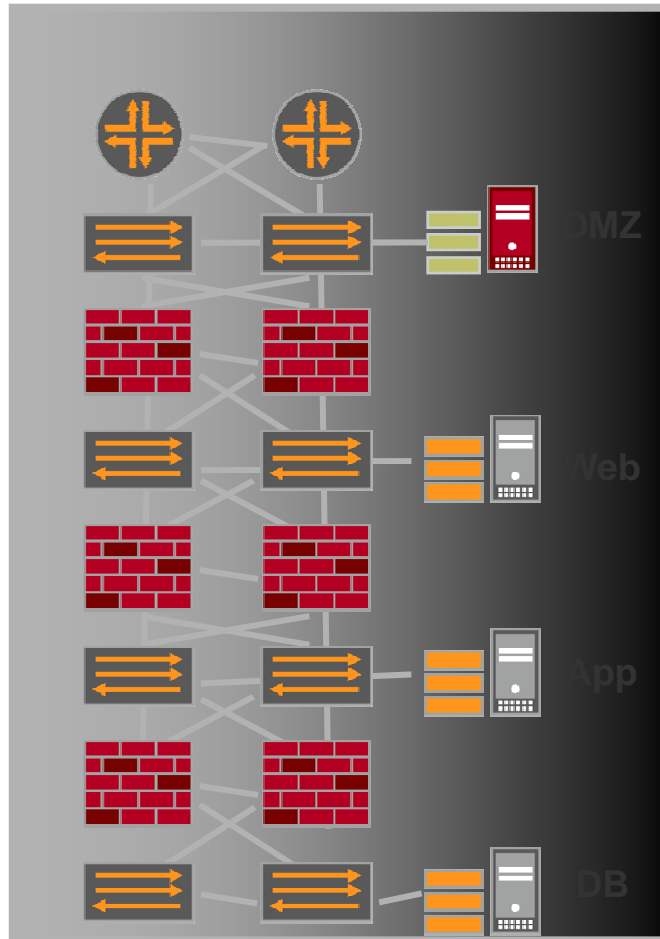
VPNs

SECURE

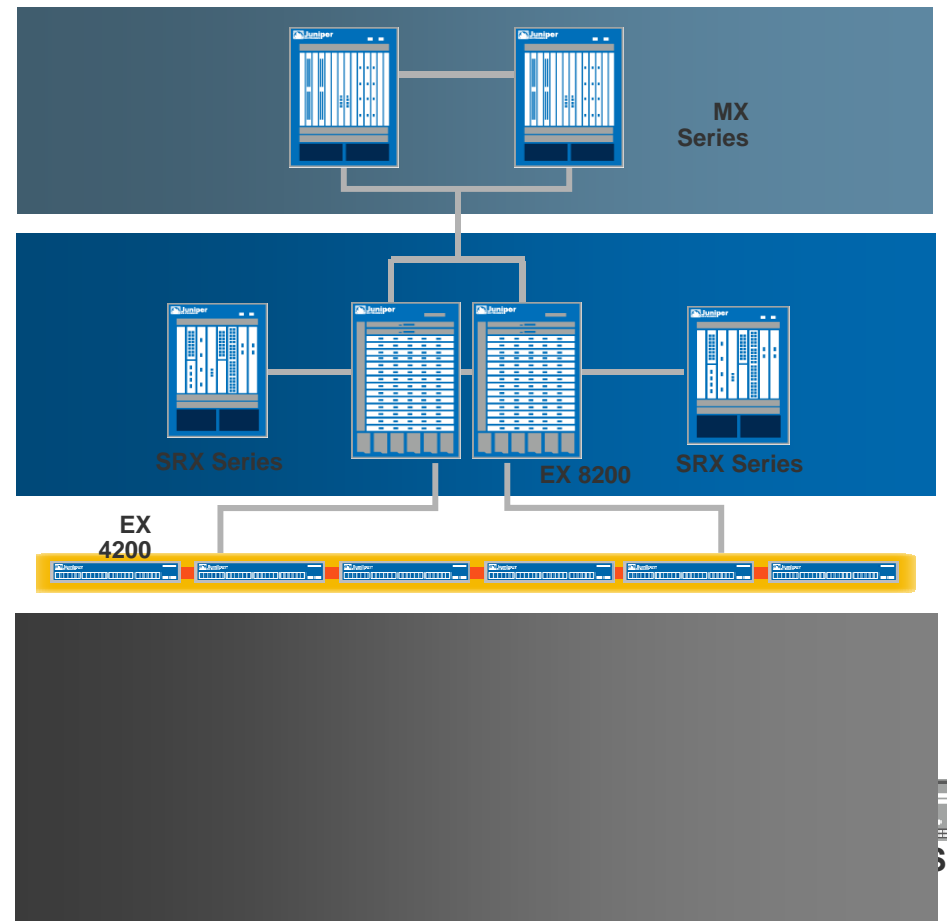


THE DATA CENTER NETWORK

NEW APPLICATION DESIGNS DEMAND NEW ARCHITECTURES

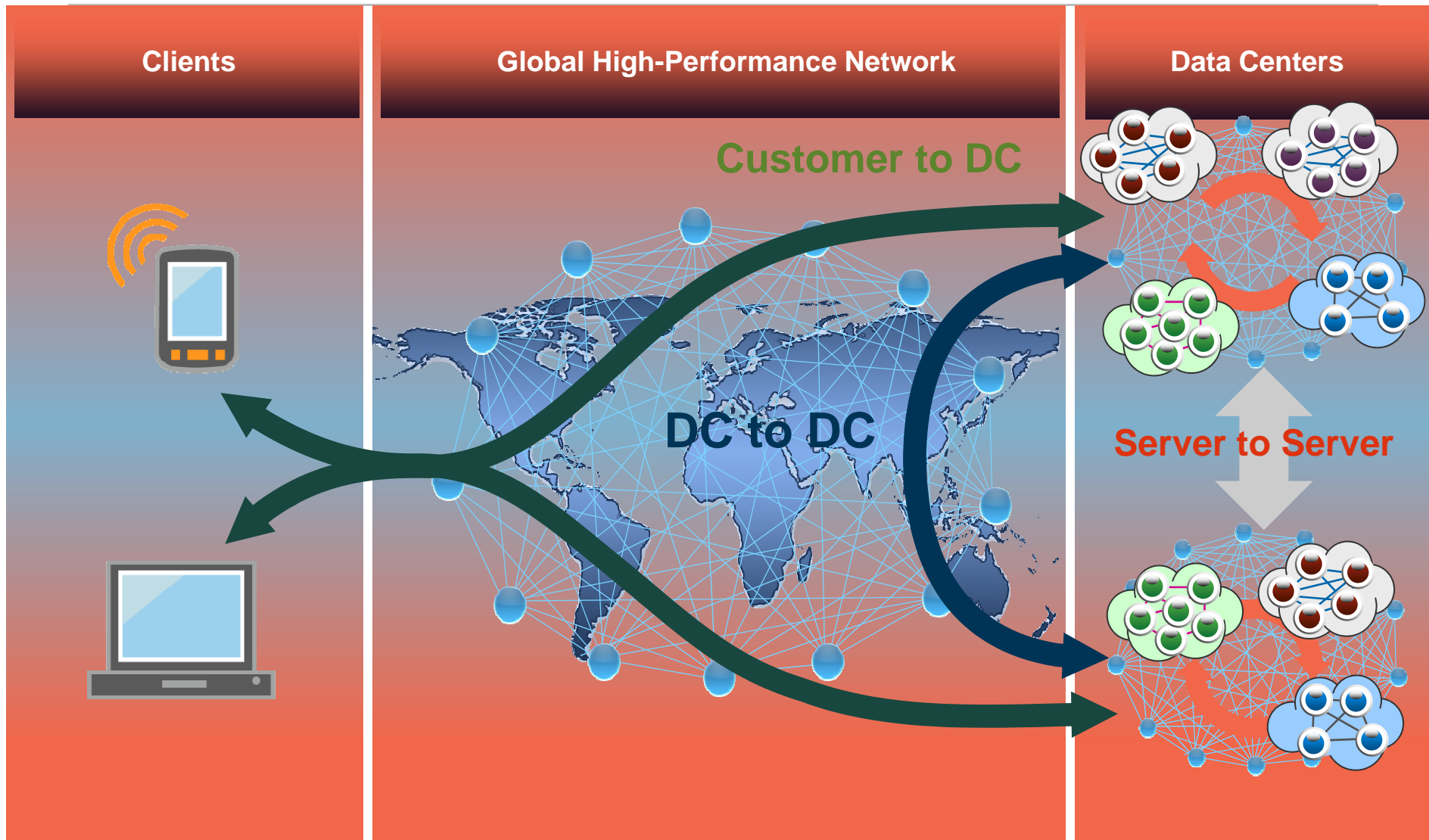


Traditional DC Architectures and Security Layering



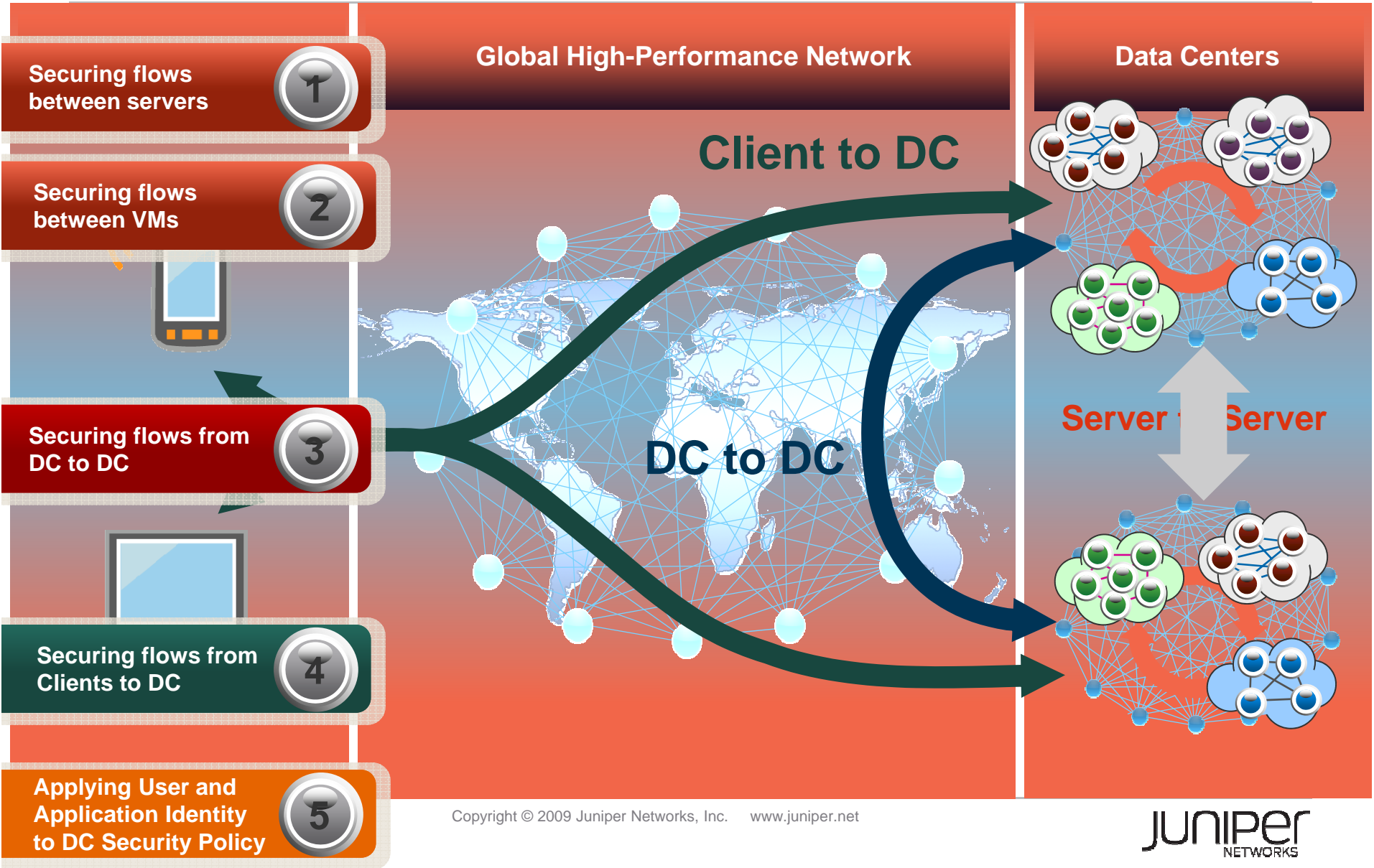
Next Generation Virtualized DC Architecture

FLOW TYPES IN THE NEW CLOUD INFRASTRUCTURE





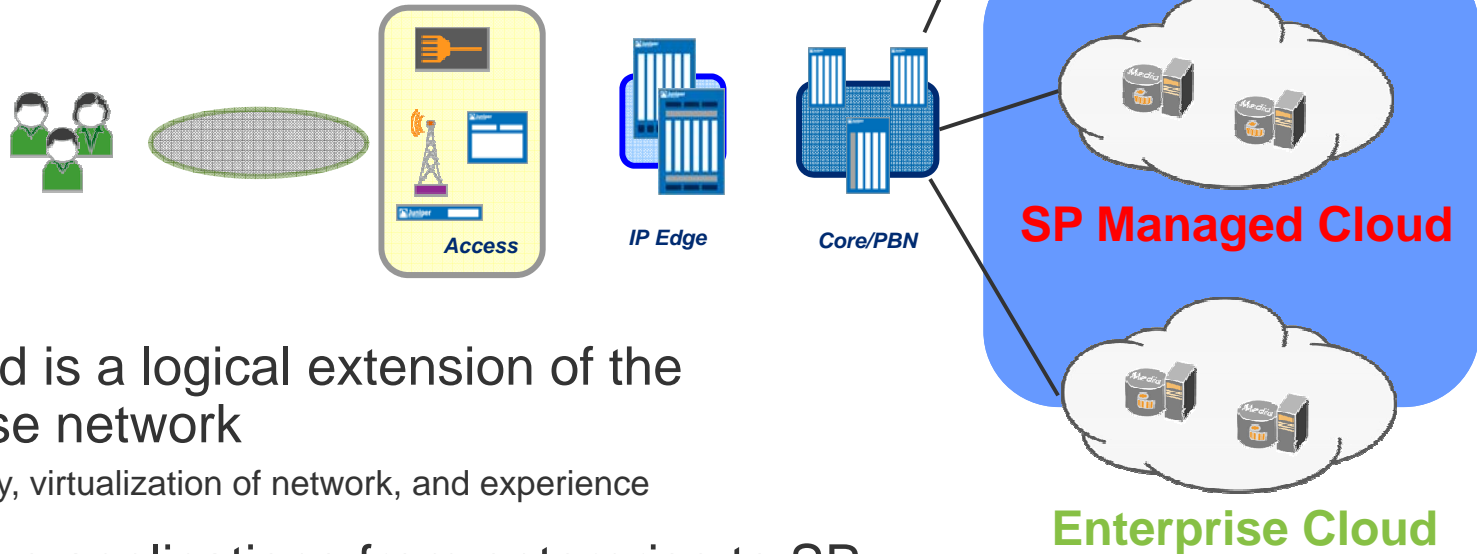
SOLUTIONS TO SECURE THE FLOWS



DIFFERENCES IN POSITION: A HIERARCHY OF CLOUDS

Internet Cloud is inexpensive, but offers

- Limited security
- No direct connection to VPN
- Best-Effort Experience

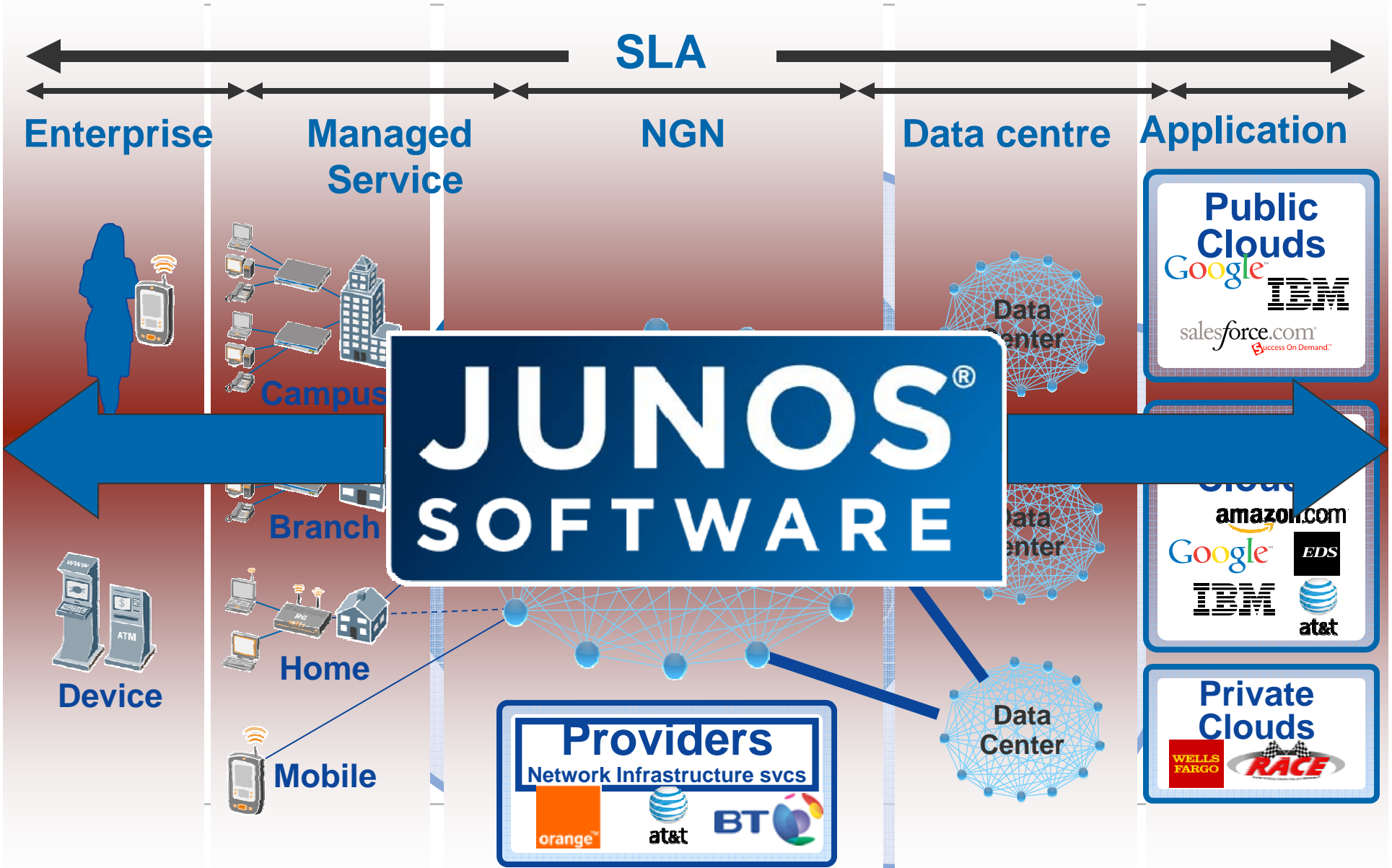


SP Cloud is a logical extension of the enterprise network

- Security, virtualization of network, and experience

Can move applications from enterprise to SP cloud more dynamically and with tighter experience controls

JUNIPER: THE BEST PARTNER FOR REALIZING THE POTENTIAL OF THE CLOUD





everywhere