The "Cloud Ready" DataCenter

July 2010
The New Information Infrastructure Vision

- Clients (billions)
- Global High-Performance Network
- Device & Access Proliferation
- Infrastructure Consolidation
- Mega Data Centers (thousands)
Juniper’s strategy
INNOVATING IN THE DATA CENTER
WHAT’S DRIVING THE TRANSFORMATION?
Application DATA FLOWs Are changing

Client – Server Architecture

Today’s Application Architecture

Physical Server Pool

Physical Server

Client

Client

VM

VM

VM

VM

VM
The challenge
- Too complex
- Too slow
- Too expensive
- Too inflexible

Multi-tier legacy network

- Up to 75% of traffic
- Latency and hops and unnecessary layers
- Servers or storage, not switches, not ports interconnected
- Up to 50% of the bandwidth
- Spanning Tree
JUNIPER’S 3-2-1 APPROACH

1. Juniper’s data center fabric
2. Juniper two-tier data center (Now)
3. Legacy three-tier data center

Up to 75% of traffic