

Key Application Issues Businesses Face



INCREASE APPLICATION ACCESS: PERFORMANCE AND SECURITY

- Application response time
- Global information access



DISTRIBUTED INFRASTRUCTURE COST & COMPLEXITY

- Server, storage, data and backup
- Limited IT resources
- Quality of data protection



INCREASED INFRASTRUCTURE DEMANDS

- New application rollouts
- Hard to predict load and provision capacity
- More applications adds to security, and troubleshooting needs

Application Performance: Multi-Dimensional Problem

Multiple source of pain: Server, Network, Application
Multiple dimensions of pain: Latency, Bandwidth and Throughput

■ Server:

- Server Load
- Function-specific processing delays (TCP, SSL)
- Unpredictable user load (“flash crowds”)



■ Network/Link:

- Poor link quality (packet loss/jitter)
- Link level failover/HA
- Link level congestion (ongoing or episodic)
- Link throughput



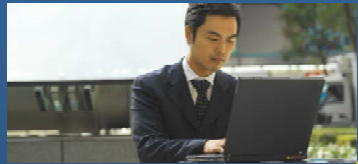
■ Application:

- Chatty Application protocols
- Poorly performing TCP Stacks
- Data redundancy (multiple users simultaneously accessing the same data and applications)
- User data redundancy (same user accessing same data and application repeatedly)



Today's Application Infrastructure

Users



Mobile User

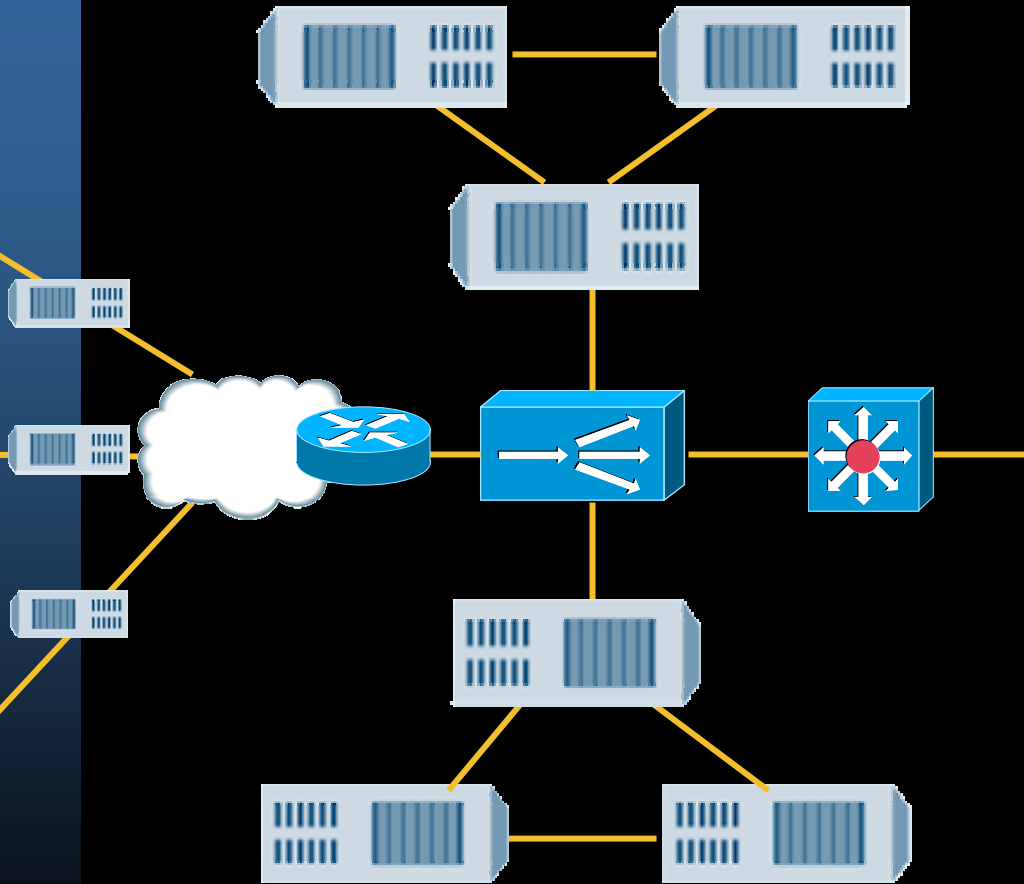


Branch



Partner

Network



Applications

Google

Microsoft

ORACLE

SAP

SIEBEL

PeopleSoft

Potential Application Infrastructure

Users

Application Optimized Network

Applications



Mobile User



Branch Office



Partner



Google

Microsoft

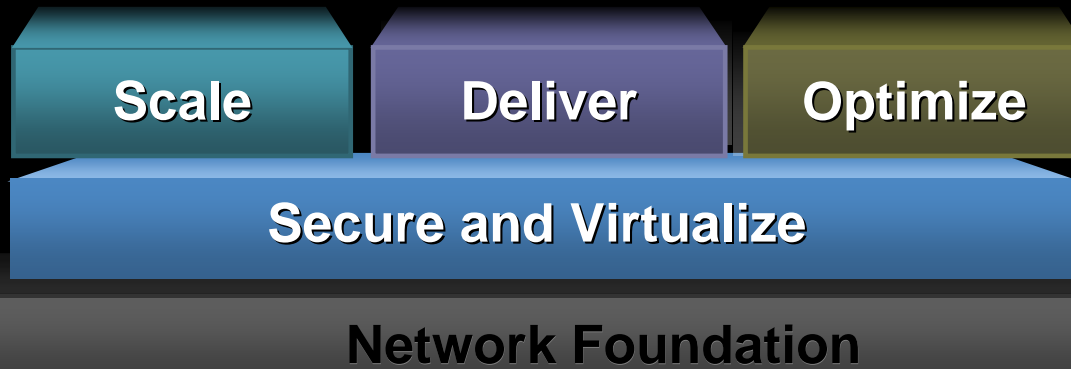
ORACLE



SIEBEL

PeopleSoft

Unified Application Delivery Services



Unified Application Delivery Services

Scale

Local and Global Server Load Balancing
Application Switching
Server Health Monitoring

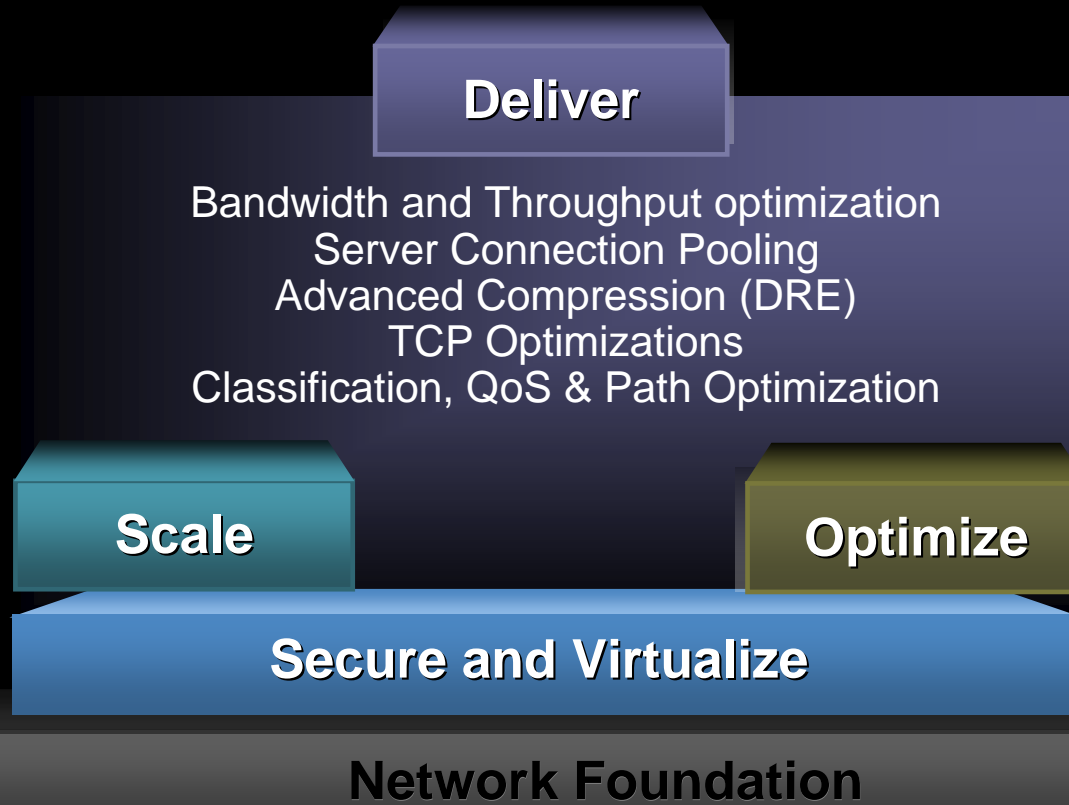
Deliver

Optimize

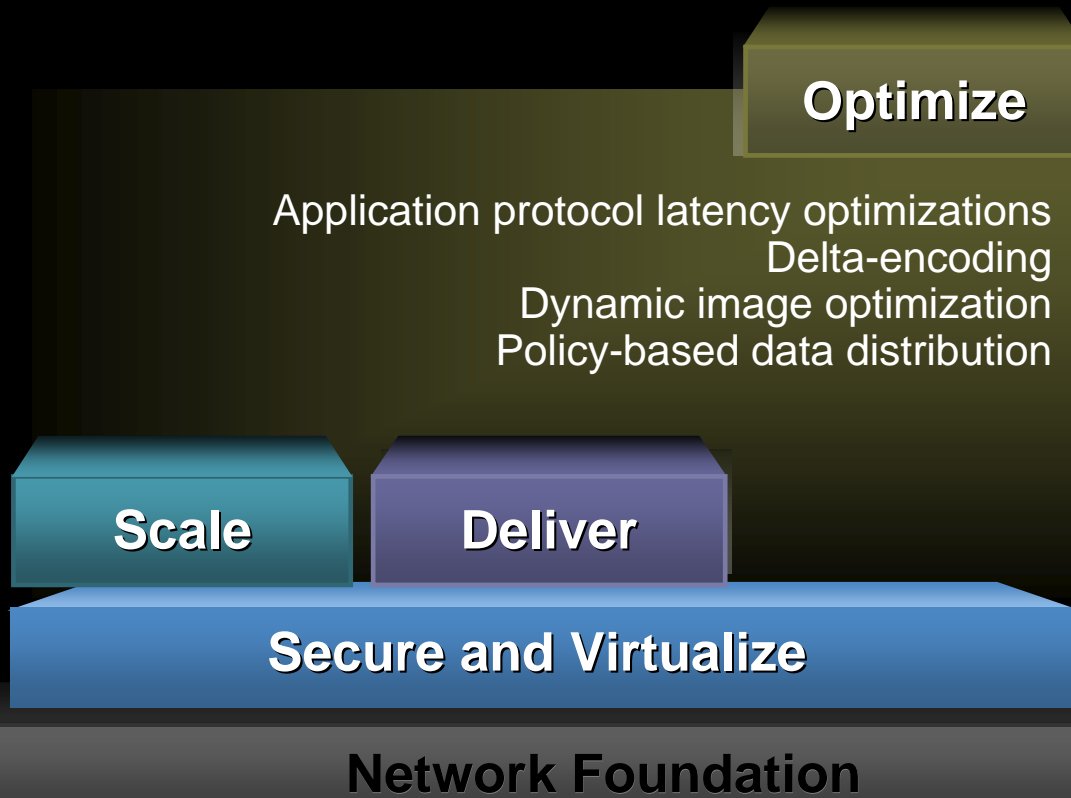
Secure and Virtualize

Network Foundation

Unified Application Delivery Services



Unified Application Delivery Services



Unified Application Delivery Services

Scale

Deliver

Optimize

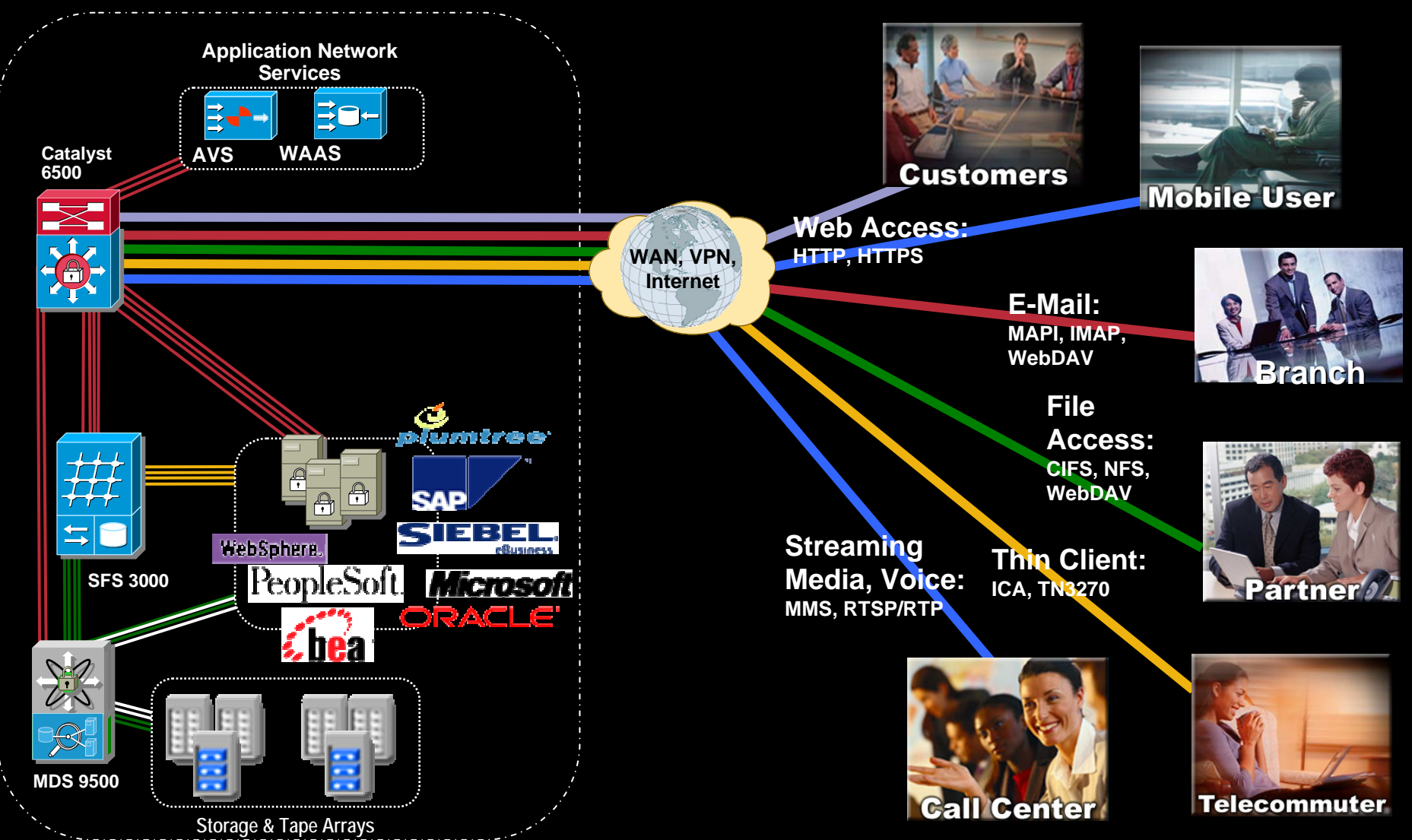
Integrated application firewall
Deep packet inspection
Protocol compliance and anomaly detection
Server consolidation and resource virtualization
Role based access and management

Secure and Virtualize

Network Foundation

Application Delivery Services

Any Application, Any Protocol – Anywhere



CISCO SYSTEMS

