

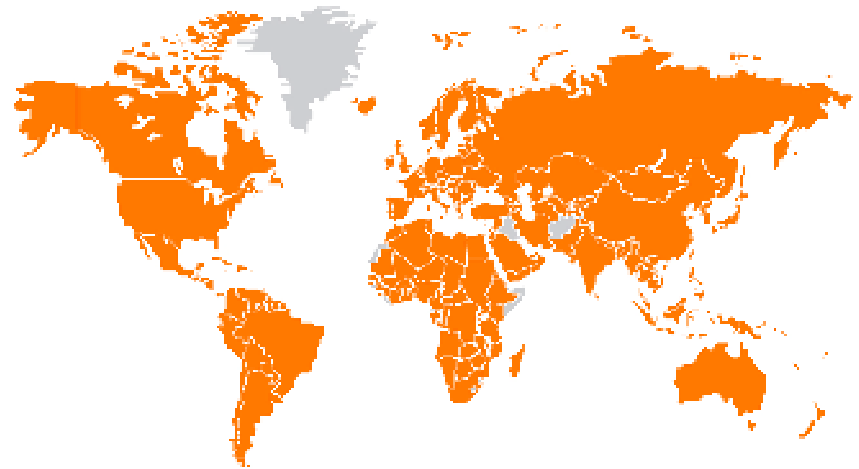
Evaluating New WAN Services

Arnaud Messenger – Orange Business Services



the France Telecom group

- 220 countries addressed
- 170 million customers
- € 52.9 billion 2007 revenues
- € 6.3 billion 2007 net incomes
- 191 000 employees



one of the most important brand in the world in communication services : mobile, Internet, television,...



**Business
Services**

the name for services offered to businesses worldwide



MPLS at the heart

- MPLS features

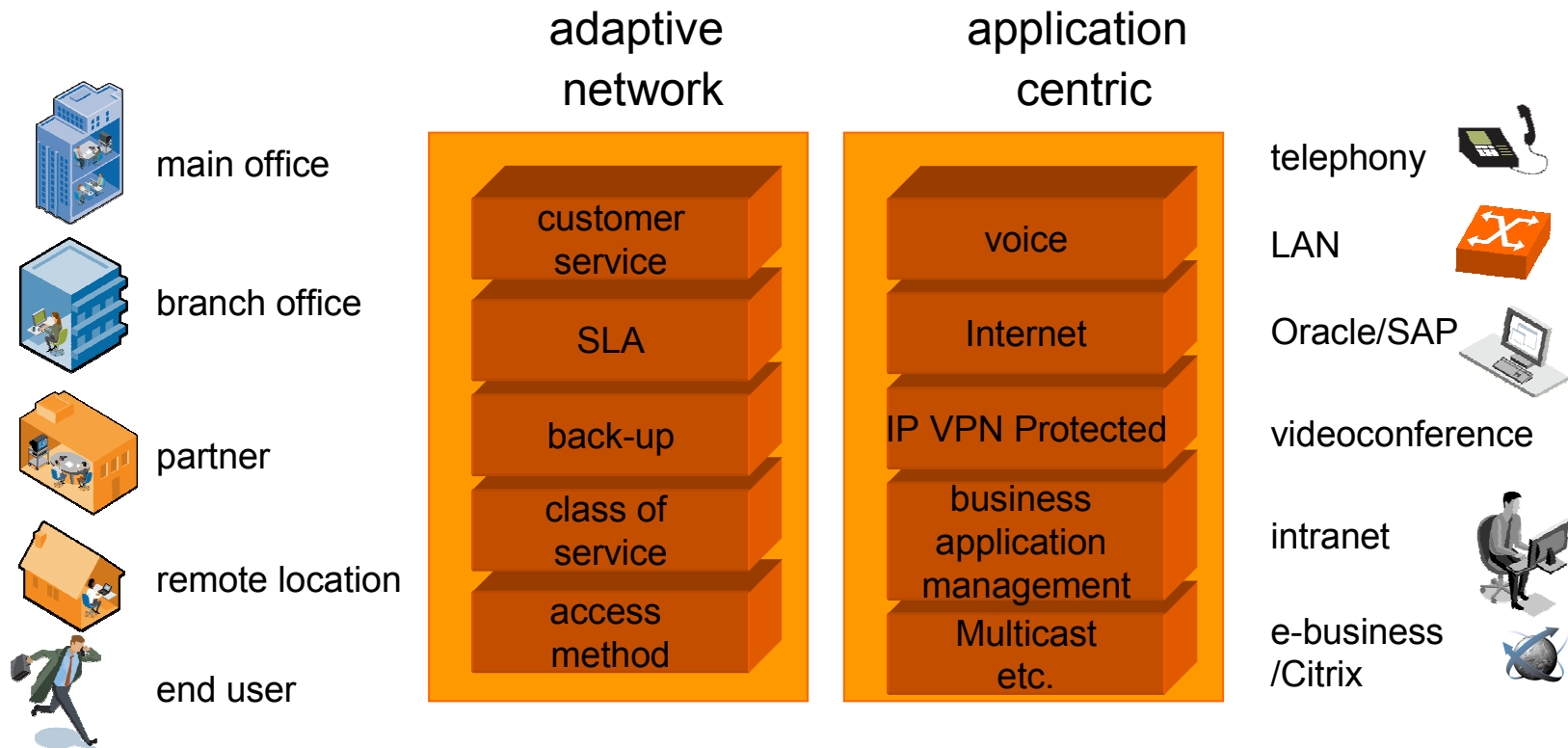
- improve QoS
- facilitate any-to-any communications
- convergence
- end-to-end SLA
- security

- client needs

- cost reduction
- productivity
- operational efficiency

=> secure IP infrastructure

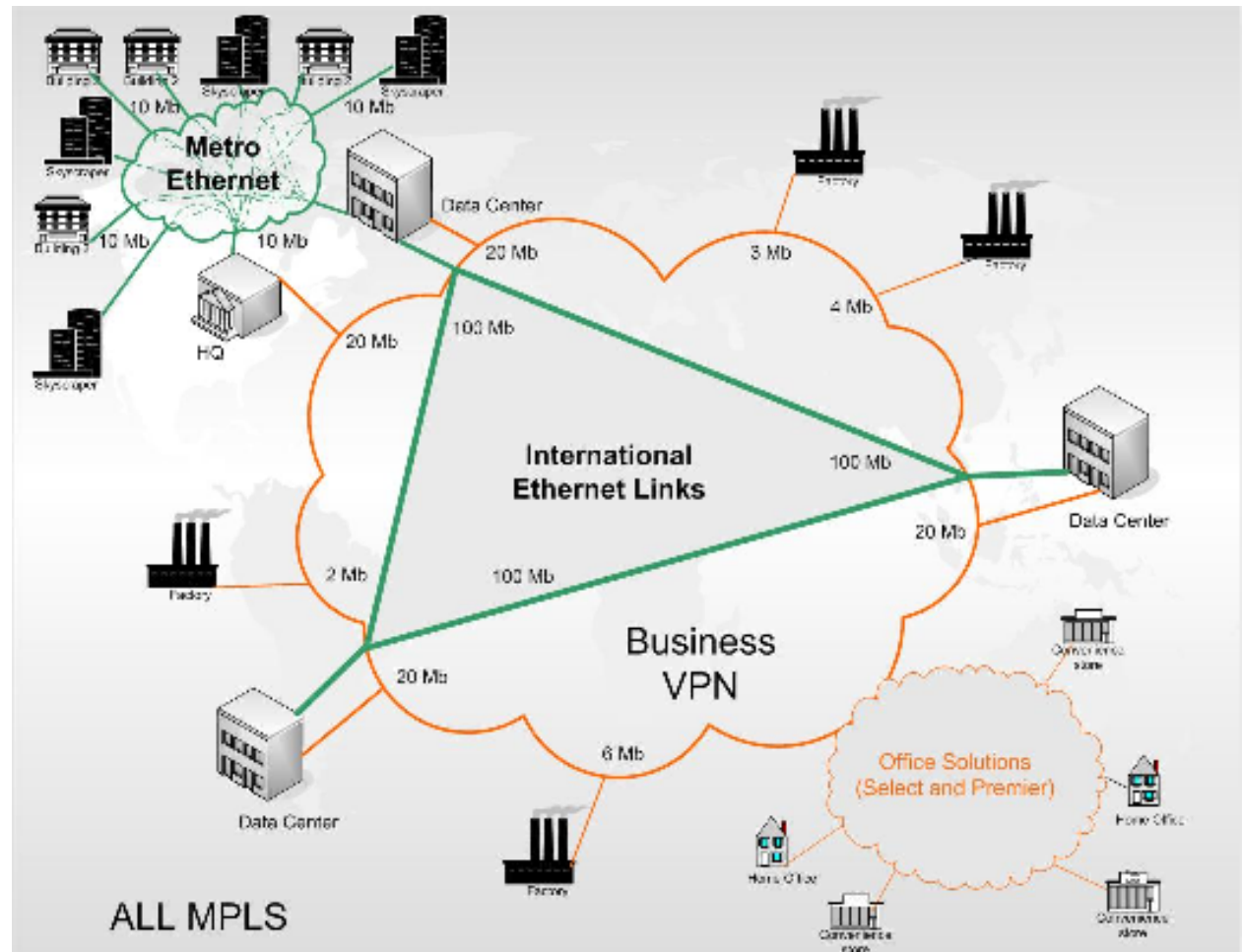
adaptive network and application centric networking



- adaptive network represents our ability to adapt the network SLA and access methods to your specific situation, budget and requirements
- application-centric is our ability to integrate your key business processes within the network

Orange's adaptive network integrates technology

- end-to-end network & app. performance best managed at IP layer
- optimal design (CPE + Access + MPLS)
- enterprise controls corp. policy
- Orange manages selective tasks
- Orange adaptive network is key



other technologies

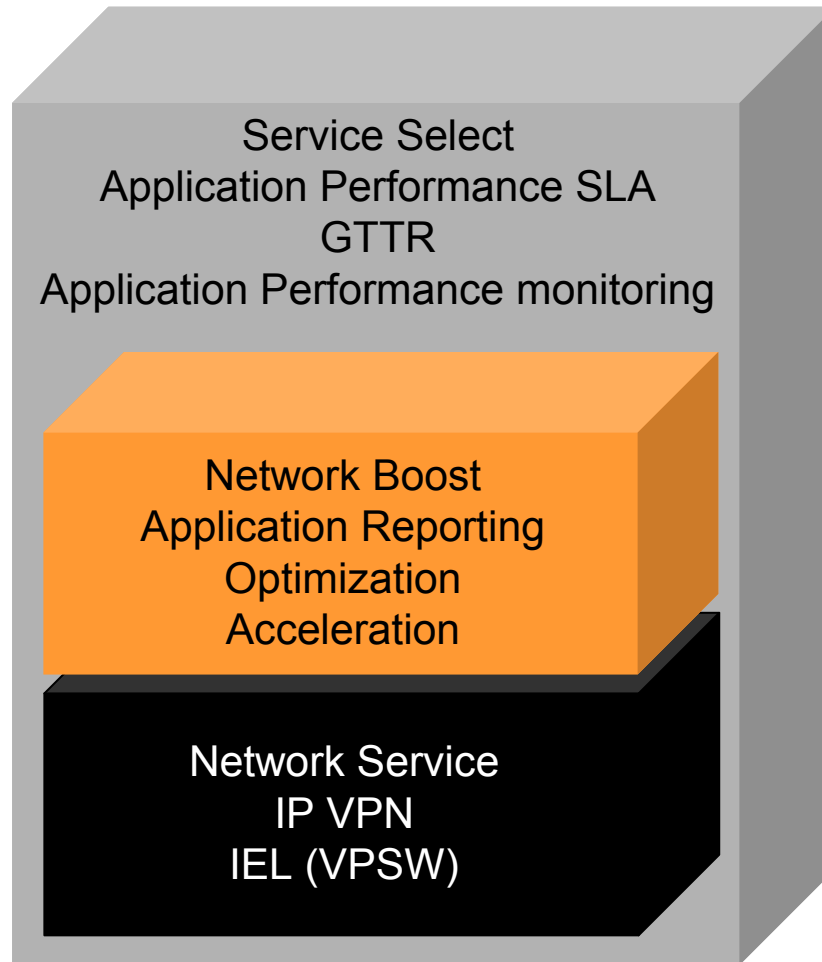
- Virtual Private LAN Services (VPLS)
 - regional or national needs
- Internet
 - some benefits but...
- layer 2 VPNs
 - backhaul networks?

- access method: DSL, Ethernet, Satellite, wireless...

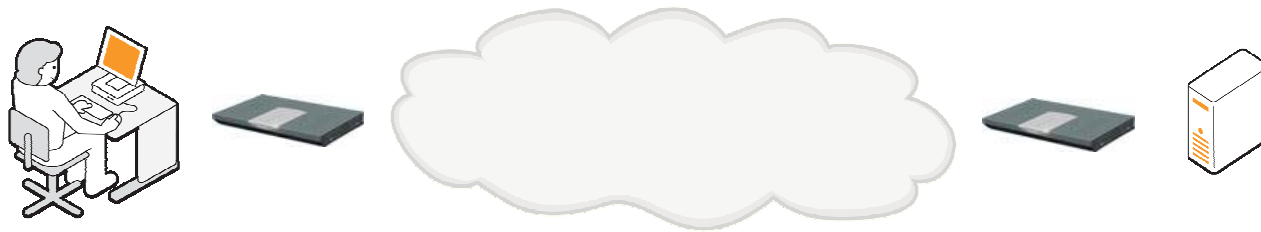


full integration of network & application layers

aligned GTTR
changes synchronization
end-to-end incident mgmt
global evolution planning



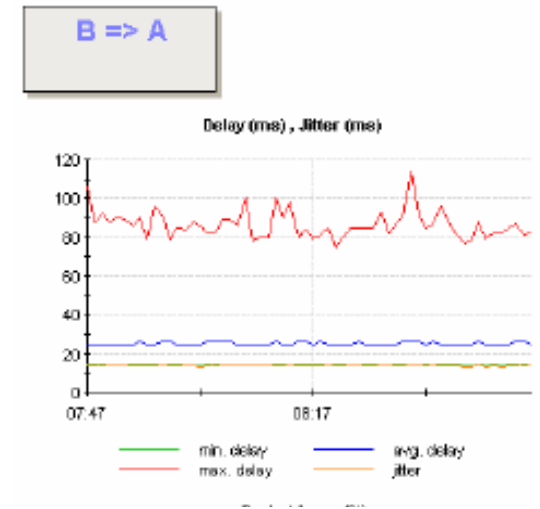
SLA & reporting



WAN to WAN delay, loss, jitter

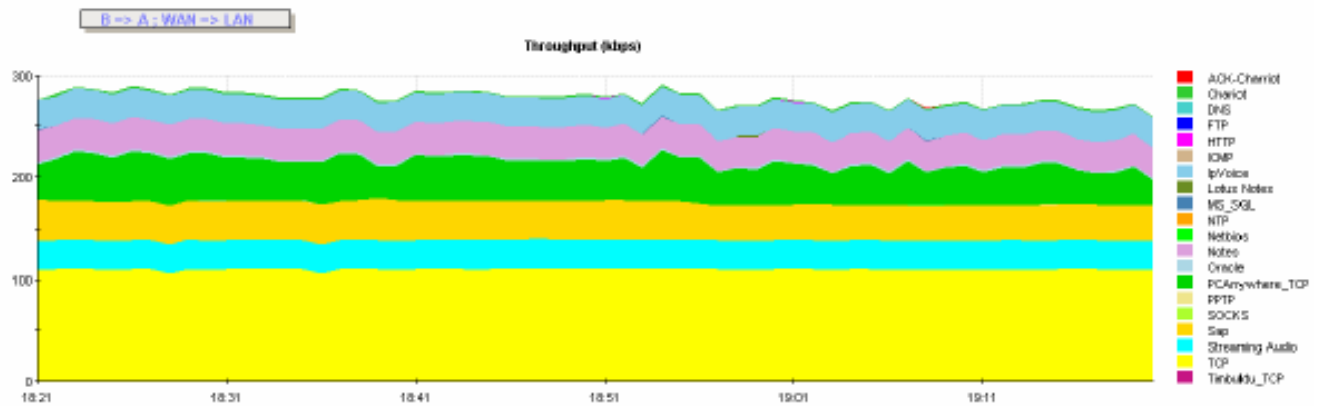
LAN to LAN delay, loss, jitter

RTT, TCP retransmits



Server Response Time

Throughput per application
Number of sessions



Performance Monitoring-detailed per application

together we can do more



INTEROP
LAS VEGAS | APRIL 27-MAY 2, 2008

