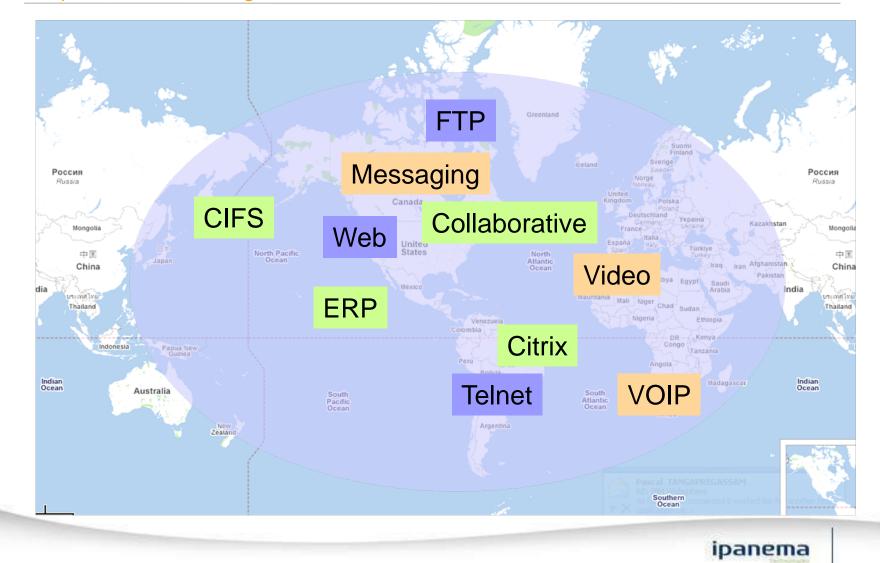
Challenges for Strategic WAN Optimization/WAFS Deployment over MPLS VPNs



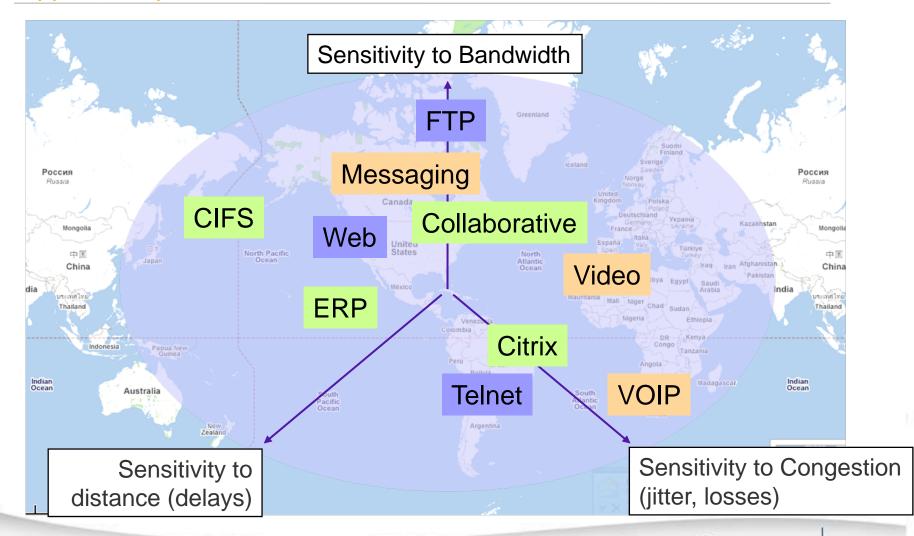
Business Optimized Networks

The challenge: delivering appropriate and consistent quality of experience to the global workforce over an MPLS WAN



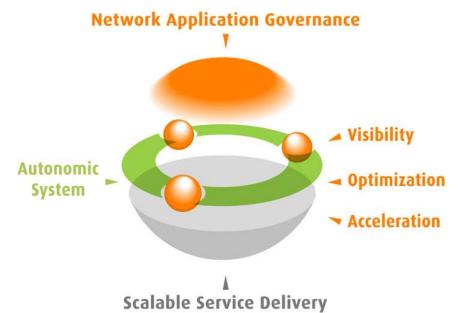
Business Optimized Networks

Competition among flows and the physics of networks directly affect application performance...



WAN Optimization addresses all 3 constraints for all apps

Beyond the legacy protocol band-aid: WAN optimization as a strategic enterprise tool



- Efficient in modern MPLS networks
 All in one solution
- Unparalleled scalability
- Automated operations
- Global and tailored deployment capabilities
- Accelerate while guaranteeing application performance
- Monitor end-user experience
- Network Application Governance

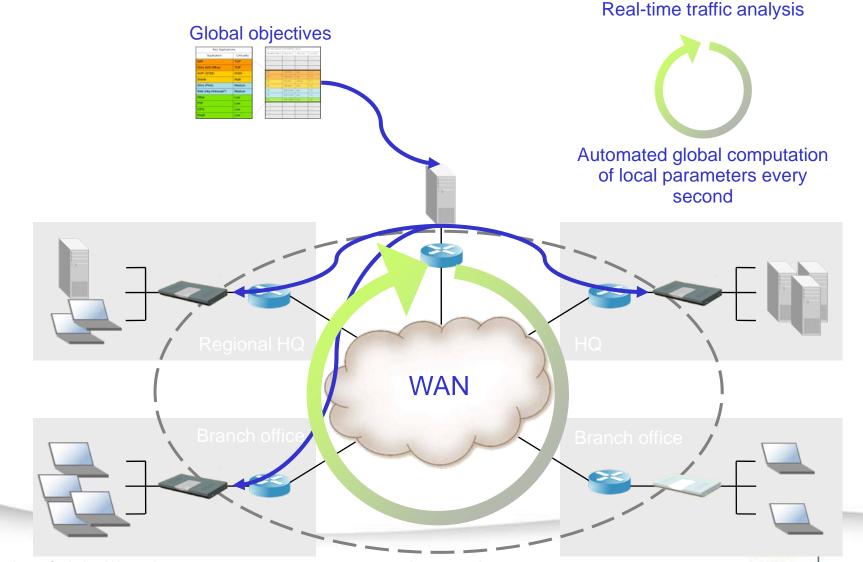
ipanema

Unparalleled scalability: Ipanema customers are large organizations that have deployed WAN optimization as a global strategic tool

Customer	Number of devices	Number of managed sites	Domestic/ International
Pharmaceutical Leader	300+	300+	International
Europcar <u>Europcar</u>	15+	1500+	International
SGS SGS	100+	700+	International
French Employment agencies	2	1300+	Domestic
French Army	500+	500+	Domestic

Business Optimized Networks

Efficient in modern MPLS networks: Ipanema manages and accelerates application flows dynamically and globally from User QoE objectives



Business Optimized Networks

www.ipanematech.com

6

WAN optimization benefits as seen by enterprises

Global & simple management thru end-to-end Application performance objectives



Global dynamic Optimization and Acceleration



Objective based control yields lowest TCO & eliminates black art

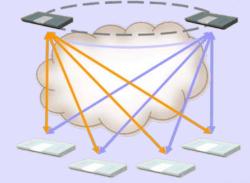


ipanema

Global visibility for reporting and helpdesk

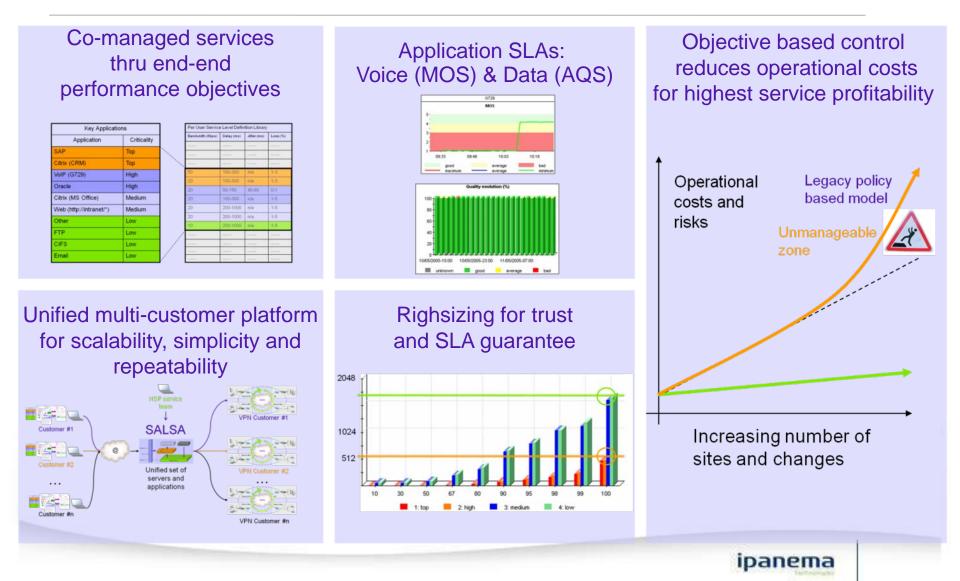


Cooperative Tele-Management for cost effective deployment



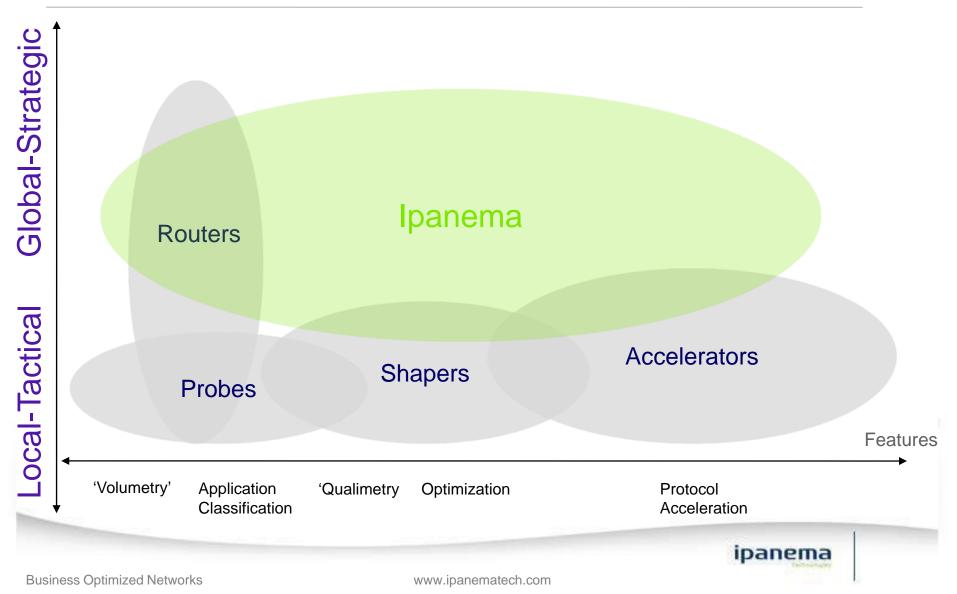
Business Optimized Networks

Additional benefits as seen by NSPs

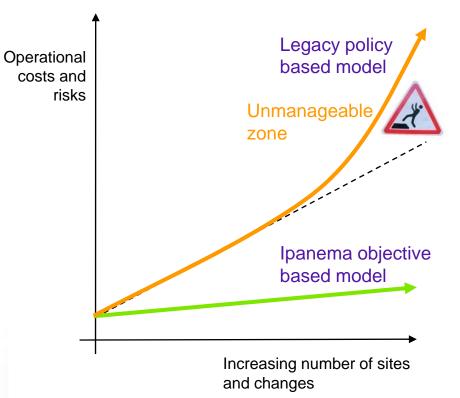


Business Optimized Networks

Ipanema offers the best feature set for global and strategic applicationaware services



Automated operations: simplifies change management, accelerates operations and minimizes TCO



WAN changes	Ipanema operations
The number of users of SAP in London offices increase by 20%	Automatic
An application is migrated from principal to secondary datacenter	Automatic
A new CRM is launched in the network	Create centrally a new Application Performance Objective and click "update"
The company opens a site	Create centrally a new site and click "update"
Deny globally a new recreational application	Create centrally a new objective at 0 kbps and click "update"

ipanema

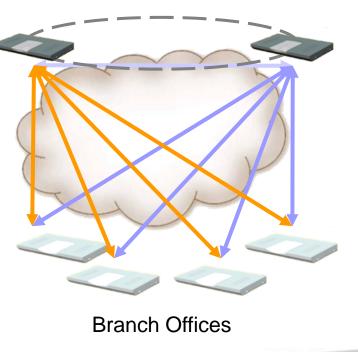
Deploy devices only where needed, rather than simply swapping branch servers for WAFS BOBs

One to Any Single Data Center



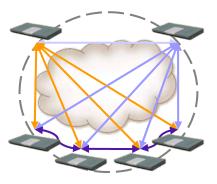
Branch Offices

Some to Any Multiple Data Centers



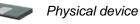
Any to Any

Multiple Data Centers



Branch Offices w/ inter-site traffic

> Tele-managed site (unequipped)



Real-time cooperation



Business Optimized Networks

www.ipanematech.com

11

The features of an all-in-one solution for good end user QoE

Visibility

- Understand how applications are using the network
- Understand how applications are performing over the WAN

Optimization

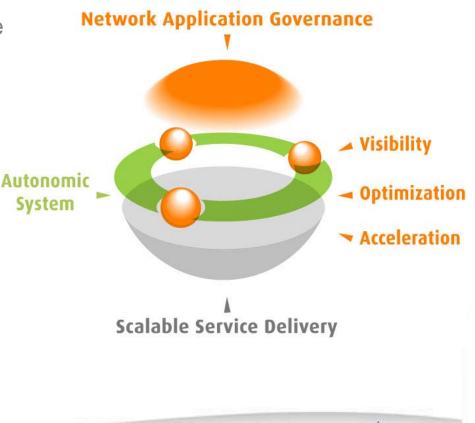
 Guarantee that users get their share of network resources in a consistent fashion

Acceleration

 Reduce response time of bandwidth hungry or chatty applications

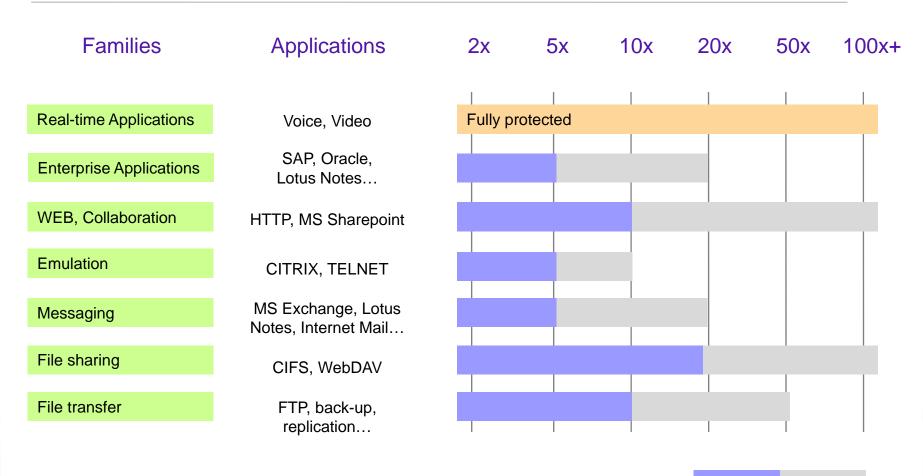
Network Application Governance

 Higher level WAN Optimization functions for Application Performance Management



ipanema

Accelerate...



Average

Peak

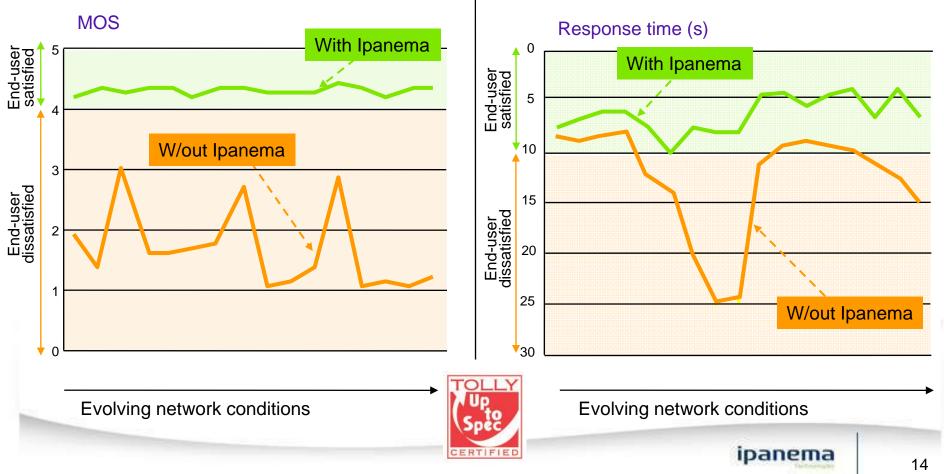


Business Optimized Networks

... while guaranteeing application performance, under all conditions

Example of performance of VoIP calls with and without Ipanema

Example of performance of an HTTP based business application with and without Ipanema



Business Optimized Networks

Centrally monitor end-user QoE: automated application discovery, bird's eye views, alarming and drill down, usage and performance reporting



Business Optimized Networks

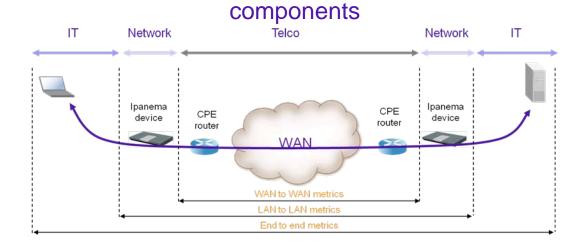
15

Network Application Governance: higher level functions that leverage automation and global control

Define, monitor and enforce Application SLAs

Key Applications			Per User Service Level Definition Lib		
Application	Criticality	1	Eandwidth (Kbps)	Delay (ms)	Jiller (ms
SAP	Тор				
Citrix (CRM)	Тор				
VoIP (G729)	High		50	105-300	105
Oracle	High		20	100-300	n/e 40.00
Citrix (MS Office)	Medium		20	100-300	
Web (http://intranet/*)	Medium	1	20	205-1000	1/9
Other	Low		20	205-1000	n/a
FTP	Low		10 :	200-1000	n'a
CIFS	Low				
Email	Low				

Allocate responsibilities between WAN and IT



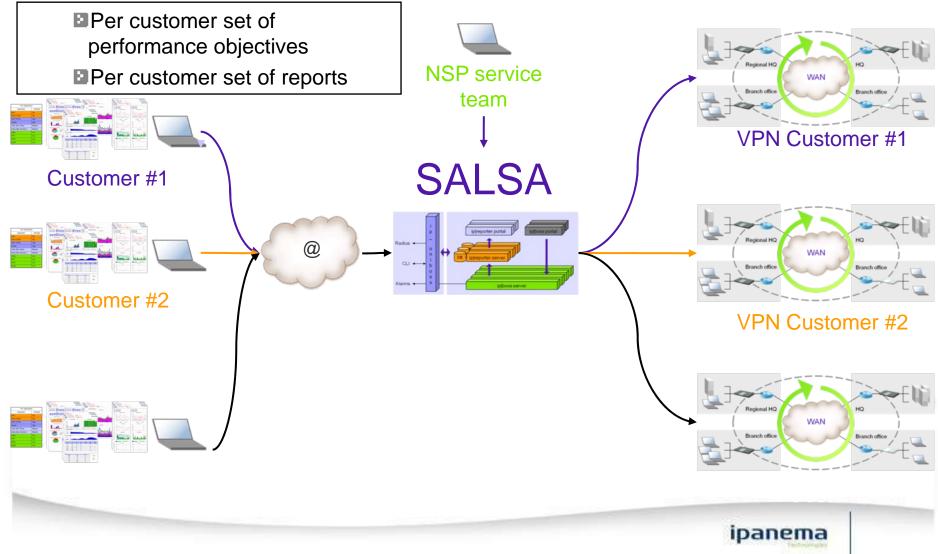
Intelligently chargeback

ocation per sites d B.U.	Weighted Business		eal delivered uality	
Departments			AQS/MOS Index	
Finances	4 351	0,55	0,88	2
Sales & Marketing	1 211	0,43	0,92	
R&D	5 933	0,28	0,77	1
Manufacturing Europe	18 285	0,32	0,93	7
Manufacturing RoW	23 335	0,40	0,92	11
Common services	17 733	0,72	0,69	11
Total	70 848	0,46	0,85	36
Regions	Volume (Gbytes)	Criticality Index	AQS/MOS Index	(K€)
Asia	22 412	0,51	0,91	12
Europe	25 603	0,54	0,74	12
North America	22 832	0,40	0,91	10
Total	70 848	0.46	0.85	36

Plan your WAN according to SLAs



Unified multi-customer platform for scalability, simplicity and repeatability



Business Optimized Networks



Business Optimized Networks

www.ipanematech.com

ipanema

Thanks for your time