# Testing and Monitoring Professional Services

Areas of Expertise covered:

- Test Strategy and

  approach.
- Integration Testing.
- Performance Testing.
- Defect Management.
- Load Testing.
- SVP Stress Volume.
- Performance Testing.
- Systems Testing.
- Test Automation.
- User Acceptance.
- End to end Testing.
- Monitoring Solutions.

Benefits:

- Knowledge.
- Experience.
- Accuracy.
- Excellence.
- Technology Innovation

  and adaptation.

NMX SPAIN , as part of **NETMETRIX Group**, provides test management services for all your end to end testing requirements including functional, automation, performance, monitoring and security. Our experience covers diverse domains from telecom services (Operators, Manufacturers, etc)
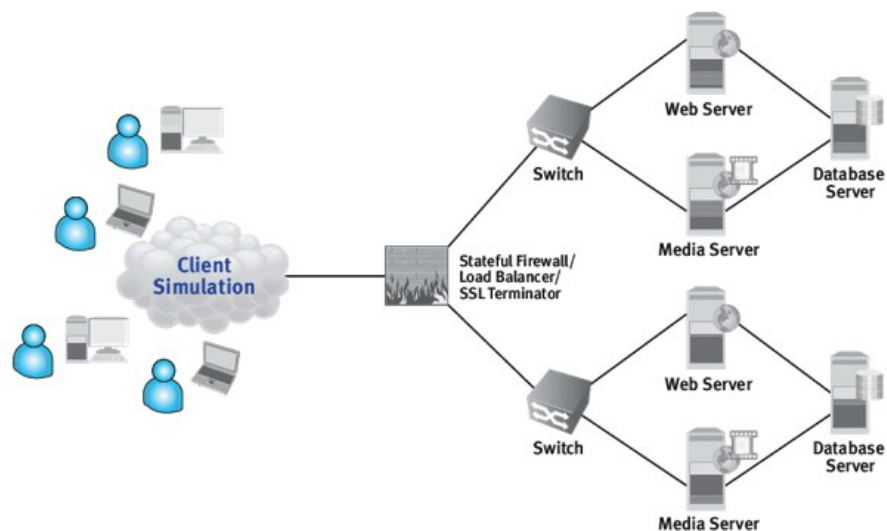
We provide the following outcomes:

- Delivering high quality, enterprise level testing projects from conception till the final implementation, everything aligned to competitive deadlines.
- This includes all testing artifacts (i.e. resources, environment, test deliverables and release management).
- Planning and management of test phases, risk and mitigation strategies, budgeting, forecasting, test effort estimation, scheduling, defect management (from logging and tracking through to resolution), metrics based reporting.
- Analyzing/defining testing scope and then developing a customized strategy to suit the testing requirements of that particular project.
- Establishing (testing) framework, execution, release management and best quality assurance practices.
- Managing testing and releases of both applications and products including delivery of stable, reliable and maintainable software to meet client requirements across diverse domains.
- Working in conjunction with clients to provide an end to end solution, from the test program director through to test analyst level consulting.

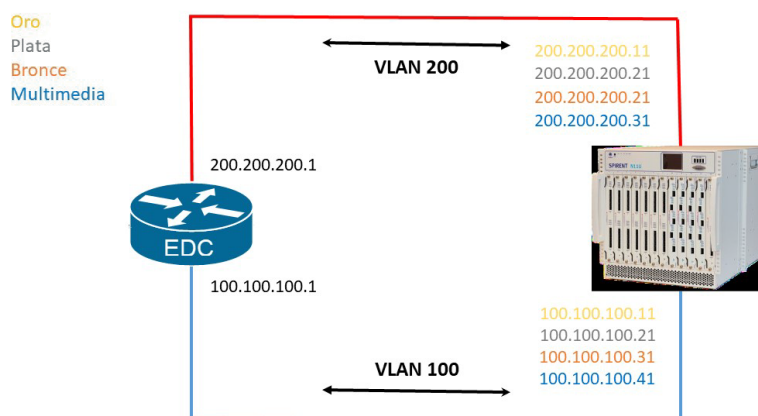E NETMETRIX

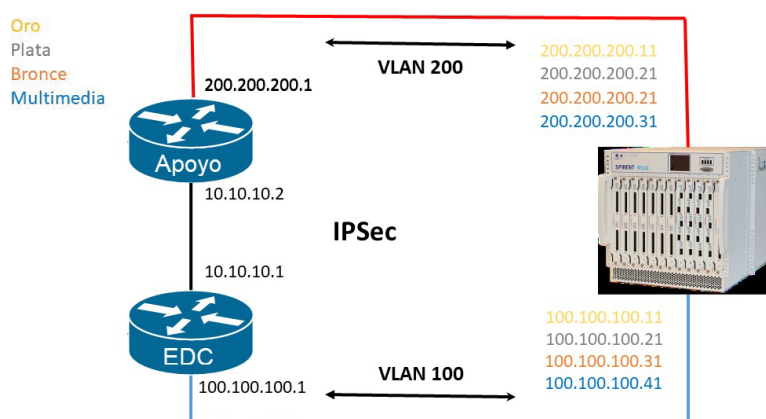# CPE performance test plan

Services homologation over CPE paying special attention to:

Quality of Service (QoS):

• Maximum Bandwidth without loss: different frame size and different priority flows.

Oro
Plata
Bronce
Multimedia

VLAN 200

200.200.200.11
200.200.200.21
200.200.200.21
200.200.200.31

200.200.200.1

100.100.100.1

VLAN 100

100.100.100.11
100.100.100.21
100.100.100.31
100.100.100.41

EDC

IPsec

• Maximum Bandwidth without loss: different frame size and different priority flows through one tunnel IPSec.

• Tunneling Performance: maximum number of IPSec Tunnels.

Oro
Plata
Bronce
Multimedia

VLAN 200

200.200.200.11
200.200.200.21
200.200.200.21
200.200.200.31

200.200.200.1

Apoyo

10.10.10.2

IPSec

10.10.10.1

EDC

100.100.100.1

VLAN 100

100.100.100.11
100.100.100.21
100.100.100.31
100.100.100.41

Visibility and monitoring on mobile core virtual environment
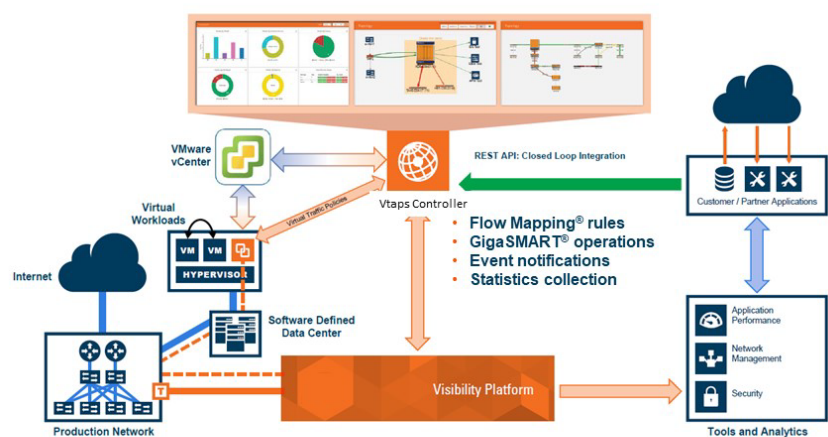
Virtual Taps dedicated to monitor traffic through the vSwitch regarding several conditions:
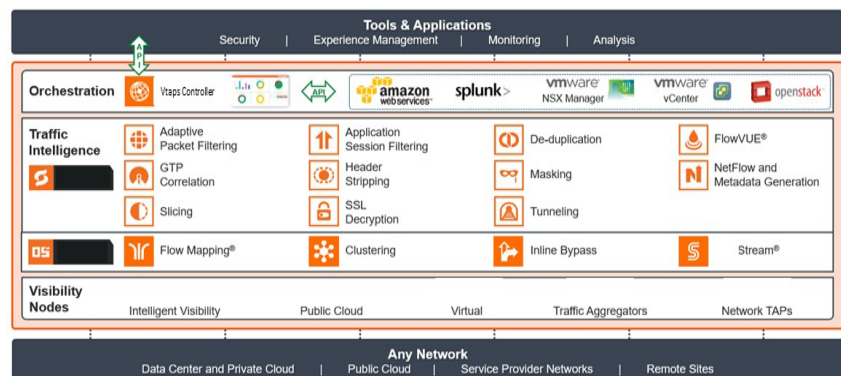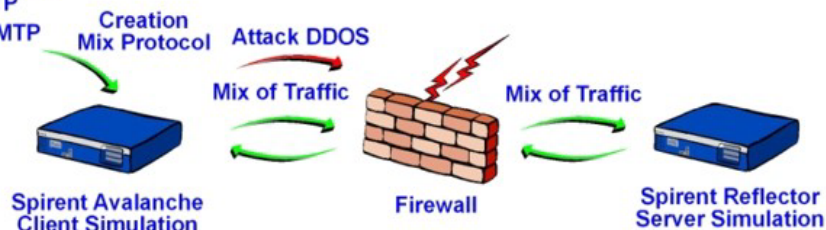

Benefits:

- Final Probe resources properly used
- Bandwidth savings
- Duplicated traffic removal
- Application traffic filtering
- Scalability
- Modularity

VPN validation

• Tunnel Establishment Rate.
• Tunnel Capacity.
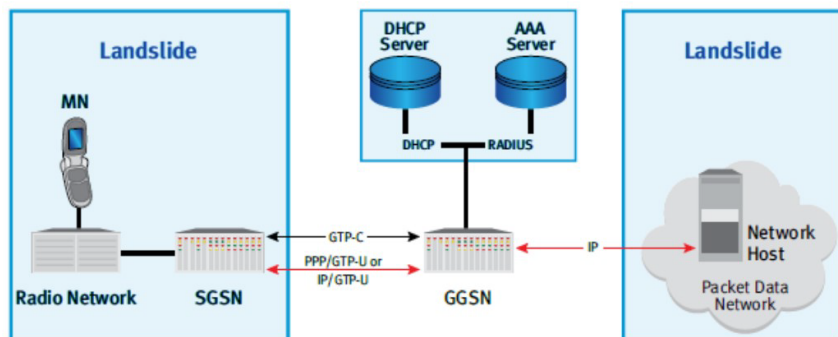• Encrypted Bandwidth.
• Real Environment Functionality.
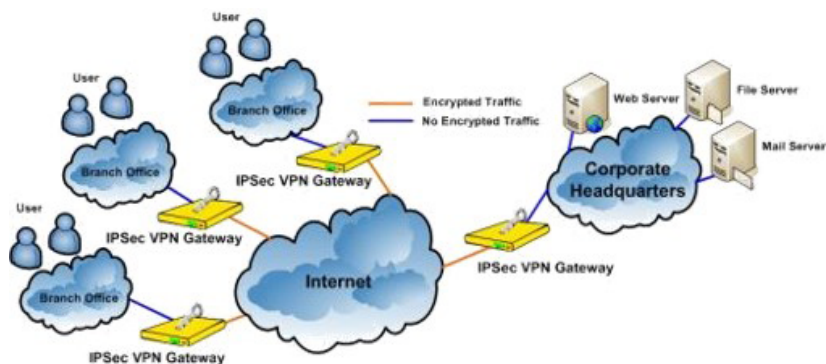
Network device validation:

• Firewall
• IDS/IPS

GPRS/UMTS/LTE validation

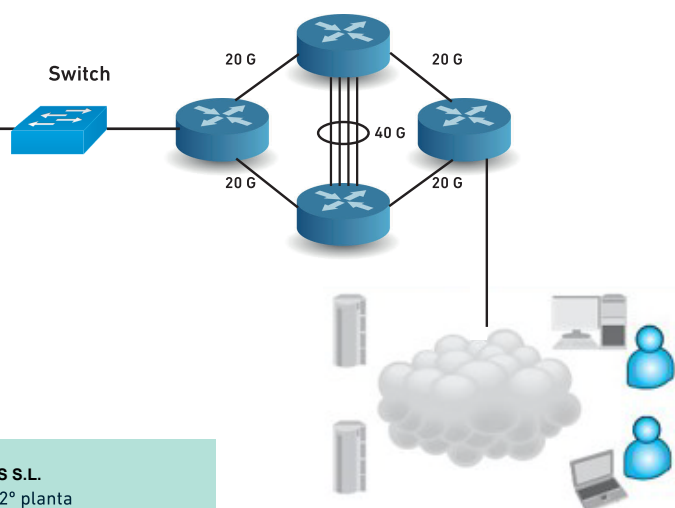• GGSN Performance Testing.
• User traffic rate Testing.

Video surveillance network testing

• Network Limit Evaluation
• Video Traffic Generation to test specific multicast parameters.
• Identify devices that create possible bottleneck on the network.
• Suggest configuration improvements to achieve optimal performance.