Connectivity

Protecting against security breaches

The rapid growth in the use of cloud computing, accessed over the Internet, places security center stage for multinational enterprises.

Research shows that 76% of consumers will take their business elsewhere if their data is exposed. Large fines by regulators, class action law suits and reputational damage mean both revenue and profit take a hit.

Traditional perimeter-based security solutions alone are of limited use today. Growing use of cloud services means data is routinely accessed over the Internet, in the office and via public Wi-Fi. This makes enterprises vulnerable to cyberattack.

A new approach is needed: one that builds security into public and private networks. It has to be able to predict, detect and act on threats within and beyond your network borders. The Orange hybrid network delivers this intelligent connectivity.

Enterprise challenges

Larger attack surfaces
It's not enough to protect the network perimeter. Different business systems across extended supply chains are using your data via cloud solutions and open APIs.

86% of all workloads will be cloud-based by 2019

Real-time information
IT departments need to know about global attacks in real time because crime evolves and threats mutate quickly.

Just 37% of enterprises have a cyber-incident response plan

Multi-vector attacks
Cyber criminals and rogue states now target infrastructure, applications and end users simultaneously for financial gain, espionage or political ends.
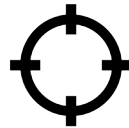
56% of enterprises suffered multi-vector attacks in 2015

Covert threats
Hackers run scripts that are difficult to detect as they worm their way through the network. It takes up to 205 days to detect a compromise and 31 days to contain it for the typical enterprise without a managed security service. By the time they are found, it could be too late.

74% of enterprises believe they are a target for advanced persistent threats

Stretched branch offices
It's a struggle for central teams to keep security devices up-to-date at smaller branch offices.

140m new items of malware are detected every year

Sources: AV Test, ISACA, PWC, Fireeye, Cisco, Arbor networks

orange™ Business Services

A new era of professionalized cybercrime

"Cybercrime has become a board-level priority because of the frequency and scale of attacks and their financial and reputational impact. Today enterprises need to understand cyber criminals' objectives so they can be fully prepared to counter an attack."

Read more in our insight guide

Solution:
Hybrid network

An intelligent network that is secure by design

Hybrid any-to-any plug

Dynamically choose Internet or private WAN connectivity in light of real-time security and congestion issues and the business priority assigned to each traffic workload.

Real-time Web protection

Cloud-based security protects traffic routed across the Internet or your VPN to mobile and PC devices from new types of attack. Deployed in distributed Internet gateways, the Zscaler solution inspects even SSL-encrypted traffic. This isn't possible with in-line firewall devices in branch offices as latency slows down traffic to unacceptable levels.

Secure Internet access

Managed Internet breakout reduces the number of security appliances IT teams need to manage globally and ensures policies are applied robustly and consistently. Seventeen Internet gateways on five continents ensure the best possible performance.

Identity and access management

Safeguard access to public and private clouds to prevent data leakage and user account compromise. Single sign-on (SSO) simplifies access, while multifactor authentication and data tokens provide additional layers of protection.

Cyberdefense intelligence

SIEM identifies malware and abnormal application access requests to detect intruders in your network or data exfiltration attempts. Advanced big data analytics powers real-time threat visualization, dynamic incident response and post-event forensics.
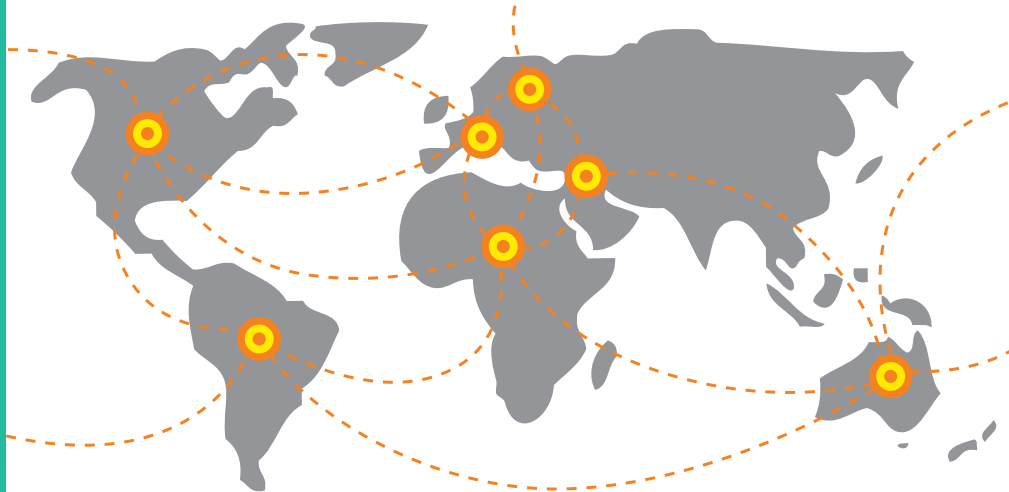
Case study: balancing access with security

A multinational organization was expanding its use of cloud and Internet services for greater agility and lower cost but was being held back by concerns over security.

- Increased use of cloud-based applications and Internet
- Separate security and network providers had created governance issues
- Existing perimeter-based security infrastructure was limited
- Requirement for 24/7 uptime and intellectual property protection

Solution

Orange took a strategic approach to managing security and connectivity with the deployment of a hybrid network:

- Secure connectivity through the Orange "any-to-any hybrid plug", which provides private WAN or Internet connectivity via regional breakouts, and VPN links for remote workers
- Cloud-based Zscaler Web protection that secures all end-points, including mobiles, and inspects encrypted traffic
- On-premise firewall for an additional layer of data center protection
- Active malware prevention based on McAfee
- Mobile SSL for secure out-of-office access to IT resources
- Intelligence-led approach to detect and prevent cyberattacks using the Orange security information and event management (SIEM) platform

Benefits

The hybrid plug allows the enterprise to assign different classes of service to manage security risk and application performance requirements. This includes a 6th class of service for Internet traffic. The any-to-any plug enables the enterprise to dynamically flex the ratio of private WAN and Internet connectivity in response to the security threat level and end-user demand.

Global threat intelligence detects new types of attack, thereby enabling preemptive action. Big data analytics applied to traffic within the enterprise's network identifies suspicious behavior and possible breaches. Customer-facing servers are secured from attack in real time via all cloud, mobile, Internet, private WAN entry points.

Choose a hybrid network from Orange Business Services.

For further tips on network security and cloud application performance management, please visit:

www.orange-business.com/en/connectivity-hybrid

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