SITA Information Security Services

Web Protection

For airlines, securely implementing Internet breakout at outstations to enable adoption of cloud applications requires a transformational approach to network security to ensure seamless user experience and consistent security.

BACKGROUND

Future-proofed network model
Moving users to cloud applications brings many advantages for airlines. However, the traditional Data Center centric network architecture is unsuited to this new model.

Delivering acceptable performance - requires users to connect directly over the Internet to the nearest cloud location.

Mitigating attack risks
Installing Internet breakout at outstations significantly increases an airline's attack surface.

Reducing cost and complexity
Using a traditional network security approach requires the installation and operation of equipment at every outstation, adding significant cost and complexity.

SOLUTION

Web Protection from Orange Cyber Defense & Zscaler delivers a full-featured network security solution from the cloud.

All user web traffic (on-net & off-net) can be routed through the Web Protection cloud for inspection and compliance with the airline's security policies.

This lets customers ensure the security of the Internet breakout at outstations and extend security coverage for remote working without additional equipment.

SITA Connect Web Protection can be delivered as a standalone solution or integrated with the SITA Connect portfolio including SITA Connect SDN.

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BENEFITS

- Consistent security posture for all users & devices
- Overcomes scalability challenges of inspecting encrypted (SSL) traffic
- Central reporting & logging with integration into customers' security monitoring tools
- Choice of self-service managed service or co-management
- Being cloud-based means no additional equipment or Capex
- Per-sser, Opex pricing that scales: Simplifying and accelerating the opening and closing of routes
- Integrated support model for network and security when sourced together from SITA
- Direct connections into cloud applications like Office 365 ensures there is no impact to user experience

RESULTS

Can be deployed across all outstations in weeks - no logistics or field engineer visits necessary.

SITA can deliver a security posture at outstations consistent with that at headquarters.

Avoids impacting the user experience.

SITA
AT AIRPORTS

SITA Information Security Services

How does it work?

Office Users

Remote Users

Web Protection

Hosted Applications

Cloud Applications

Internet

Software defined security policies connect users to applications, not the network

- Enable office and remote users to access applications (hosted and cloud) and the Internet (e.g. web browsing)
- Enforce consistent security policies
- Support adoption of:
  - Public cloud
  - Office 365
  - Software Defined Networking (SDN).

SOLUTION COMPONENTS

User traffic is routed to the Web Protection cloud over encrypted tunnels.

User identity is verified e.g. by integrating with Active Directory.

The solution provides comprehensive security controls from the cloud to enforce policies for outbound and return traffic:

- Full traffic inspection (including SSL which makes up <50% of all web traffic)
- Content filtering
- Cloud firewall
- Anti-virus
- Advanced threat protection
- Sandbox

To enforce policies for off-net users, a software app is installed on the devices.

The app can also provide transparent remote access to applications for a 'zero-trust' approach.

For locations with poor or restricted Internet access, an on-premise node can be deployed locally to extend the same functionality.

CASE STUDY

Like many organizations, a global airline was migrating to Office 365.

Following best practice for a seamless user experience, Internet breakout was implemented at outstations for international users to access the closest Office 365 cloud.

They wanted to ensure the same security posture at the outstations as their headquarters; particularly the use of Advanced Threat Protection.

SITA demonstrated that Web Protection was equally effective in detecting and blocking threats as the security technologies at their headquarters.

The solution has been rolled out to provide protection and performance for all outstation users.

For more information please contact us at **info@sita.aero**