Security Assurance in SD-WAN Application Flows ("The Protectors")
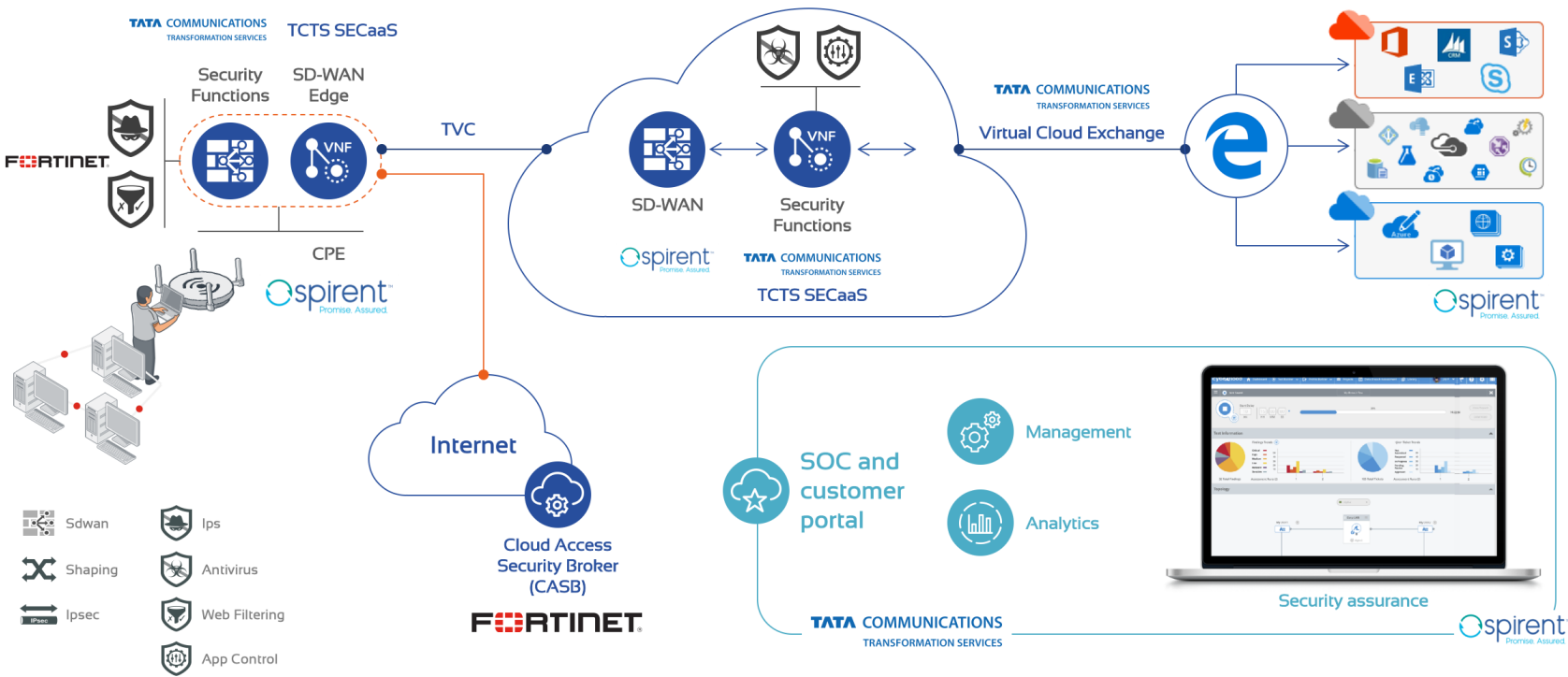
Description of PoC

Demonstrates to service providers that want to offer advanced managed SD-WAN services based on MEF 70 to enterprise customers using cloud services from branches with Internet access. The specific use case is of secure Local Internet Breakout connecting to O365 and Azure from branch offices.

POC 115

Participating organizations

FURTINET

Spirent
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TATA COMMUNICATIONS
TRANSFORMATION SERVICES

1 SIGNIFICANCE

SD-WANs shift organizations from centralized device-level WAN deployments to decentralized and distributed environments. This can alter the threat landscape and increase the attack surface area. At the same time, many customers are virtualizing SD-WAN circuits to gain economies of scale, opening new sources of potential security liability. Showcasing an SD-WAN'S security posture is paramount for effective roll-out and use of these solutions.

2 INSPIRATION

Tata and Fortinet are building out SD-WAN infrastructures that are both highly scalable and secure. As an adjunct of the overall MEF 70 SD-WAN compliance process there the requirement to prove security and other policy inspection services are working – in real time. Adding security assessment solutions (such as those provided by Spirent) into the actual SD-WAN frameworks validate how well policies and mitigation services are working in a distributed SD-WAN environment.

3 NEAR FUTURE

Providers of SD-WAN services can better showcase security and mitigation policy are effective and working as prescribed by taking a proactive approach to security and vulnerability visibility.

4 ACTION NEEDED

SD-WAN vendors and users neem a means of ensuring their security policies are validated on an ongoing basis. By assessing and validating security posture continually allows users of SD-WAN environments to better leverage the inherent security aspects of SD-WAN over legacy infrastructures.

5 WITHOUT THIS POC

SD-WAN services and security may not be fully understood or trusted unless properly assessed with attack and threat vectors that are always updated and on an ongoing basis.

TATA COMMUNICATIONS TRANSFORMATION SERVICES — TCTS SECaaS

Security Functions | SD-WAN Edge | VNF | TVC | SD-WAN | Security Functions | Virtual Cloud Exchange

FURTINET | CPE | Spirent Promise. Assured. | TCTS SECaaS

Internet | Cloud Access Security Broker (CASB) | FURTINET

SOC and customer portal | Management | Analytics | Security assurance

Sdwan | Ips
Shaping | Antivirus
Ipsec | Web Filtering
| App Control

MEF 3.0 Topic Areas

	SD-WAN	IP	Cloud	SECaaS
MEF 70	✓			
Local Internet Breakout	✓	✓		
Cloud Services			✓	
Security Assurance				✓
Customer Portal	✓			✓

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