Case Study

SEdesk™

Bridging Multi Vendor Dashboards - Analytics & Monitoring

Background

The convergence of 5G cellular, IoT, IIoT, AI, Tele-health, Autonomous Vehicles and Advanced Data Analytics is going to disrupt the Information and Communications Technology (ICT) ecosystem. The combined effect of these technologies and demands driven for more data services pave new business models, technology innovation and opportunities for applications across all industry verticals that rely on Telecom and IT services. 5G promises to deliver intelligent network and application services with connectivity to remote sensors, massive amounts of IoT, IIoT, healthcare data, live video streaming and low- latency data transmissions. Big Data analytics will no longer be an afterthought, and it will play a significant role in the evolution of 5G standards enabling the intelligence across network, applications and business.

Challenge

By harnessing the power of big data analytics, network monitoring tools, cyber threat & AI intelligence platforms, as well as business analytics, Telcos are equipped with multitude of tools to make informed decisions and to generate further actionable intelligence. However, this poses another main challenge - Unifying multiple vendors' dashboards and monitoring consoles in a common workspace. Telcos need fine grain controls and configurable security policies with identity access management in ensuring the right services are only visible (not just inaccessible) to the right users / contractors at the right time.

Industry

Telecommunication Service Provider / Telcos
Data Analytics & Network Monitoring

Challenges

- Consuming multiple threads of data / feeds from a variety of un/structured sources
- Producing timely, actionable and relevant data analytics on multiple dashboards
- Secure access, local / remote with minimum integration
- Privacy and legal implication / compliance in data protection

Goals

- Unified platform to bridge multiple dashboards used for big data analytics
- Identity Access Management integrated to segregate user access control with MFA (Multi Factor Authentication)
- Can be accessed from anywhere

Solution

SE*desk*™ is a unified workspace providing on-device isolation for a controlled access to whitelisted resources, protecting and securing access to multiple on-premise and cloud locations

Solution

> SE*desk*™ provides easy and secure access to Tekmark's integrated 5G Network Performance Dashboards and Big Data Analytics Tools through an isolated digital workspace. Greatly reduces surface of cyber attacks on end points and network elements.
>
> Kelvin Khong
> Manager, Network Business Unit
> Tekmark

SE*desk*™ Secure Unified Workspace is Telco's network analyst-centric workspace. It collates multiple network monitoring tools and dashboards from a variety of vendors, suppliers and industry partnerships into a single collaborative analyst workspace.

All modern analytics tools and dashboards are based on Web Applications, and analysts depend on a variety of browsers to access these services. SE*desk*™ is browser-less. It eliminates the manual and repetitive work involved with network analysts having to use different browsers (for compatibility reasons) to process a variety of intelligence feeds, big data analytics tools and dashboards which can be situated in multiple on-premise and cloud locations.

As SE*desk*™ is completely browser-less, it eliminates the some of the common hassles of having to manage browsers requiring periodic updates and functions enabled like Javascript, Plug-ins, Active X … to create better user experience but at the expense of degrading the security perimeter for cyber attacks.

Through the use of SE*desk*™, Telcos no longer depend on the primitives of https and/or SSL VPN which are the primary protocols used to send data between web browser and remote servers to increase security of data transfer. SE*desk*™ comes with state-of-the-art link technology which is crypto-agile and with zero encryption overhead that will not slow down the connection speed. One less worry.

Benefits

- **Complete isolation** of data and applications on devices
- **Fine-grained access control** to the central network through context-based policies and User-Device-Server multi-factor authentication
- **VPN-free secure connection** between the dashboard at SoC and endpoints
- **Strong encryption mechanisms** for data integrity and protection
- **Application whitelisting**
- **Zero configuration** on endpoint devices for easy deployment

SE*desk*™ is the perfect combination of application and network layer protection through isolation. By defining a controlled perimeter, SE*desk*™ provides authenticated service isolation and data protection through delivery and storage. Leveraging SE*desk*™ technology data sharing is anonymised and protected. A multi-layer approach applied at network and endpoint level.

> Costs. SE*desk*™ network architecture is simple. Shortens integration efforts to, and minimises misconfiguration risks of various sub-systems - fast deployment time, frictionless integration, lower project management costs. Business model that we much value. Less is More
>
> Siau Guan Wah
> Vice President
> Tekmark

tekmark® since 1994

Tekmark Group provides accurate test and measurement science solutions to leading technology companies. As future technology enablers, we are committed to the researchers, engineers and technicians who will define the future, and rely on us to embrace accelerated breakthrough in electronic innovation. More: https://tekmarkgroup.com

Blu5 Group
info@blu5group.com
www.blu5group.com