Optimizing Network Performance Management within IoT Environments

WWT and Accedian enable customers to meet stringent performance requirements and achieve optimal quality of experience in IoT-heavy network environments

Challenge: IoT service sustainability

IoT devices can generate vast amounts of data which places a significant strain on network infrastructure, and the extensive variety of devices requiring connection can also lead to congestion, downtime and service disruption.

Deploy reliable IoT networks that deliver on performance with Accedian Skylight

Accedian's Skylight solution portfolio can help customers address these challenges and improve the performance of their IoT networks in several key ways:

Skylight provides a comprehensive view into IoT network performance, including real-time monitoring and analysis of data communication paths and traffic.

Benefit: This enables customers to quickly identify and resolve network issues, reducing the risk of downtime and improving the overall reliability of their IoT networks.

Skylight can help analyze, correlate and pre-process vast amounts of data generated by IoT devices flowing to big data services, enabling them to gain valuable insights into device performance and usage patterns and correlation on performance and assurance events occurring in the network and application communication environment.

Benefit: This information can be used to optimize network infrastructure, improve device reliability, and reduce the risk of data loss.

Skylight's machine learning and AI capabilities help customers to identify anomalies and predict network performance issues before they occur.

Benefit: Customers can therefore take proactive measures to address issues before they impact the user experience, reducing downtime and improving overall network reliability.

Skylight's container-based solution framework and open APIs for closed-loop automation.

Benefit: Enables customers to easily integrate Skylight into their existing IoT networks, providing instant data stream results and accurate insights into network performance.

Accedian's Skylight solution portfolio can help customers to address the unique challenges of IoT networks and improve network performance and reliability. By providing real-time monitoring, big data analytics, machine learning, and open APIs for closed-loop automation, Skylight enables customers to optimize their IoT networks, reduce downtime, and improve user experience.

How is this achieved?

The Skylight solution portfolio provides businesses with a comprehensive suite of solution and architectural components and service assurance capabilities for monitoring and optimizing the performance of any type of network, whether or not it involves IoT.

For example, Skylight sensors are available for any network topology and in many form factors, including both on-premises and in the cloud. They can be deployed virtually anywhere! Skylight sensors provide both active and passive network and application performance management for multi-layer environments, including delay, jitter, packet loss, DNS, Message Queuing Telemetry Transport (MQTT), Constrained Application Protocol (CoAP), HTTP, and more. These can be mapped against business metadata to identify key service level agreement (SLA) and performance points that can impact the service opportunity.

WWT's outcomes-based approach to network performance

World Wide Technology (WWT), with its extensive integration and deployment experience across multi-vendor IoT ecosystems, can help service providers and enterprise customers at every phase of IoT deployment and beyond, leveraging the Accedian Skylight solution. For example, during the consultative phase, WWT works with customers to establish the network design and application performance requirements specific to their IoT environment. In the implementation phase, WWT integrates different IoT solution components, including the Skylight assurance solution, into customer environments.

In the post-deployment operations phase, WWT and Accedian jointly support customers to ensure ongoing network performance and reliability. Additionally, WWT provides a feedback loop where they continue to refine and improve the network design, unless it can be automatically improved by a closed-loop software system.

Together with WWT, Accedian can also help businesses to build customized, unified portals with centralized orchestration, end-to-end management, and comprehensive visibility across a multi-vendor IoT environment. With Accedian Skylight, WWT helps businesses to optimize their IoT deployments, improve network performance and reliability, and reduce operational costs.
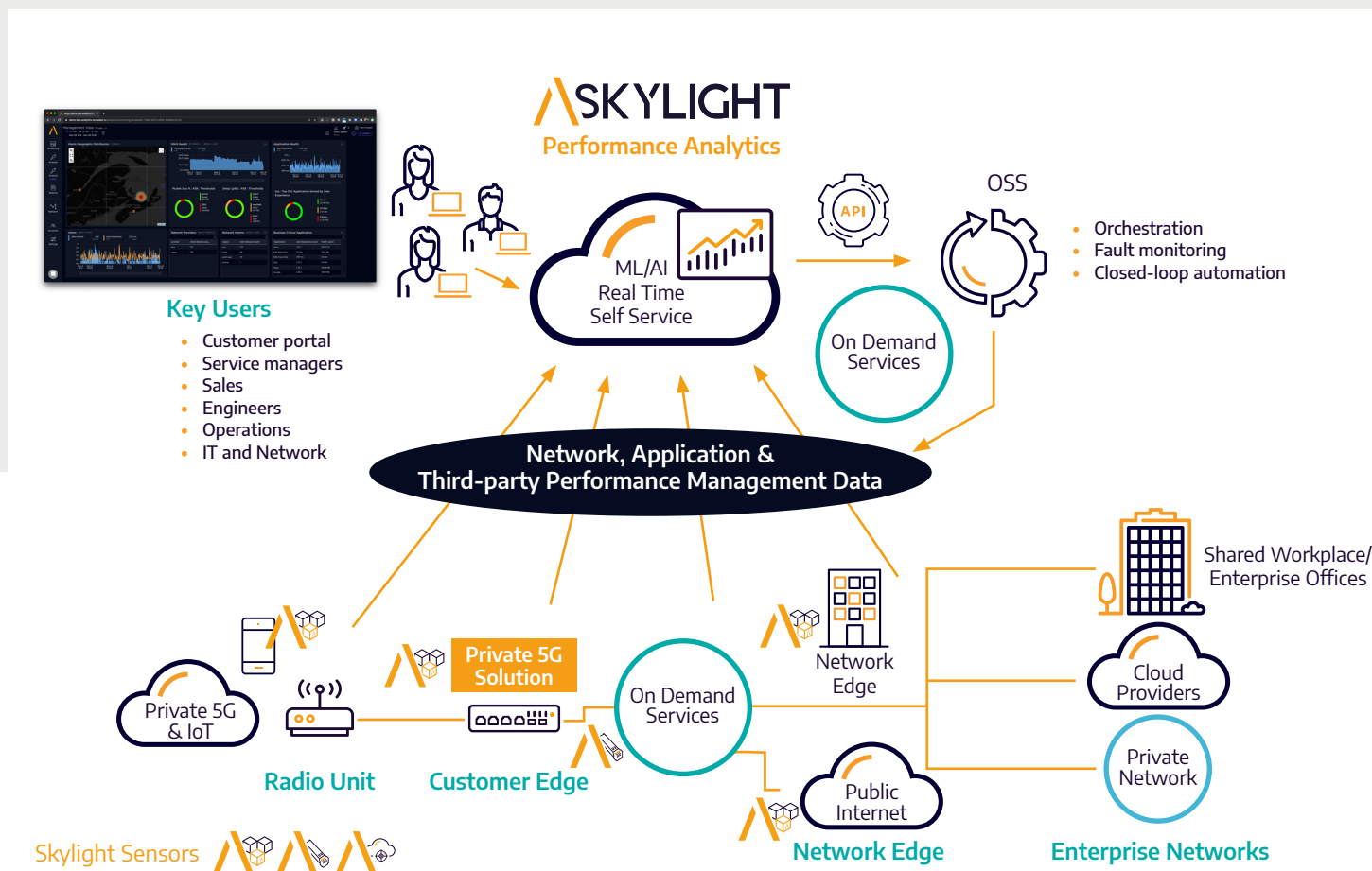

Figure 1: Accedian Skylight and WWT proactively address IoT and Private Network service assurance challenges

World Wide Technology

Making an impact – Accedian and WWT working together to drive better business outcomes

WWT and Accedian's partnership is based on customer-centric assurance of network and application performance, no matter the environment. Accedian is pleased to partner with WWT to provide secured intelligence to business and technology teams as an accelerator to experience-led digital transformation.

By improving network performance and reliability, the joint Accedian and WWT solution brings about significant decreases in network downtime and data loss, resulting in a better quality of experience for end users. This improved experience not only increases customer retention but also expands opportunities for businesses to penetrate the market and enhance profitability. Combining Accedian Skylight with the expertise of WWT in service assurance empowers businesses to remain competitive and relevant within the rapidly evolving IoT market.

About WWT

Founded in 1990, World Wide Technology (WWT), a global technology solutions provider with $17 billion in annual revenue, combines the power of strategy, execution and partnership to accelerate digital transformational outcomes for large public and private organizations around the world. Through its Advanced Technology Center, a collaborative ecosystem of the world's most advanced hardware and software solutions, WWT helps customers and partners conceptualize, test and validate innovative technology solutions for the best business outcomes and then deploys them at scale through its global warehousing, distribution and integration capabilities.

With nearly 9,000 employees and more than 55 locations around the world, WWT's culture, built on a set of core values and established leadership philosophies, has been recognized 12 years in a row by Fortune and Great Place to Work® for its unique blend of determination, innovation and leadership focus on diversity and inclusion. With this culture at its foundation, WWT bridges the gap between business and technology to make a new world happen for its customers, partners and communities.

Contact us for more information here: wwt.com

About Accedian

Accedian is a leader in performance analytics, cybersecurity threat detection, and end user experience solutions for service providers and mid-to-large size enterprises. The Accedian Skylight platform offers granular end-to-end visibility within "the massive multi" – multi-layer, multi-cloud, and multi-vendor networks. Accedian's open and scalable platform removes roadblocks to innovation, enabling cloud-native analytics and empowering customers to launch new assured services based on 5G, SD-WAN and edge technologies. Power your future with secure network performance.

To learn more, visit accedian.com

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