



Washa Wi-Fi Transforms Nairobi with Sustainable, High-Speed Internet Access

Washa Wi-Fi is a community-centric initiative by Syokinet, an internet service provider in Nairobi, Kenya. Their mission is to enhance digital accessibility by providing high-speed Wi-Fi in public spaces. The initiative aims to drive economic growth and empower communities through improved internet connectivity in bustling areas such as bus stations and marketplaces.

The Challenge

Syokinet sought to augment their fiber network's value by launching a high-speed Wi-Fi service across Nairobi's high-footfall areas. They aimed to provide affordable internet packages to a broader audience. However, deploying the necessary infrastructure posed significant challenges:



- Lack of AC Power: The public utility poles available for installation did not have easy access to AC power.
- Initial Solutions: Attempts to create an internal solar power solution using various components resulted in a costly and non-scalable approach.

The Solution

Syokinet collaborated with Optace Networks, the Kenyan distributor of Fuzion Power Technologies FTP-300, to implement a robust solution:

- **FTP-300:** A smart, rugged, and easily deployable product that combines reliable solar power with Power over Ethernet (PoE) capabilities.
- **cnPilot e510 Wi-Fi Access Points:** Optace Networks also assisted in designing a complete hotspot solution using Cambium Networks' Wi-Fi access points, integrated with the FTP-300 for power and data connectivity.

The FTP-300 powers both the Wi-Fi access point and the fiber router, enabling rapid and efficient deployment of Wi-Fi networks with fiber backhaul anywhere sunlight is available. The simple setup requires minimal planning, allowing Syokinet to fasten the equipment to poles and activate service quickly.

Central to the success of this deployment is the Cambium ONE Network, a comprehensive platform designed to streamline and enhance network management across various environments. This powerful framework converges technologies from the edge to the cloud, creating a unified network platform that integrates Wi-Fi, switching, network security, SD-WAN, and outdoor fixed wireless infrastructure. Managed via the cnMaestro™ system, Cambium ONE Network offers a single pane of glass for intelligent automation, application visibility, and control. With automation features designed to increase deployment speed and operational efficiency, the Cambium ONE Network helps address the IT resource and skills gaps faced by many enterprises. Proactive problem detection and resolution minimize downtime and reduce the troubleshooting burden on IT staff, ensuring that networks remain reliable and perform optimally.

Technology used:

- **cnPilot e510 Outdoor Access Point:** Durable and versatile for medium to high-density outdoor Wi-Fi coverage.



Ian Kasyoki, CEO of Syokinet, expressed his satisfaction: "We are thrilled to partner with Fuzion and Cambium Networks in deploying cutting-edge, sustainable Wi-Fi solutions across Nairobi and Mombasa. This initiative is not just about connectivity; it's about empowering communities and driving economic growth through."

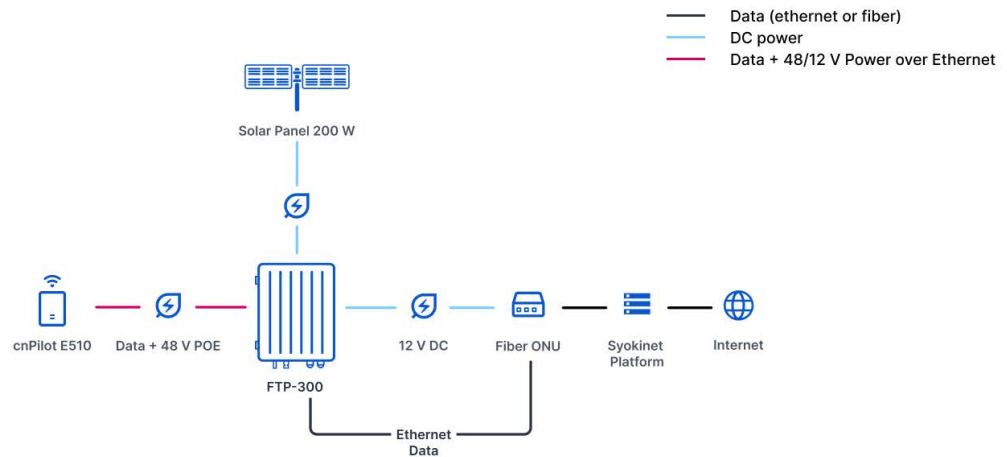
The Results

The deployment of the FTP-300 and Cambium Networks' access points led to significant improvements:

- **Cost Efficiency:** The FTP-300's solar power solution reduced reliance on AC power, lowering deployment costs and increasing scalability.
- **Quick Deployment:** The plug-and-play nature of the FTP-300 and easy integration with Cambium's access points facilitated rapid setup with minimal planning.
- **Enhanced Coverage:** High-density access points ensured robust and extensive Wi-Fi coverage in high-footfall areas, improving user experiences and internet accessibility.

The partnership with Fuzion and Cambium Networks yielded substantial benefits for Syokinet and the communities they serve:

- **Operational Efficiency:** Simplified network management through Cambium ONE Network allowed Syokinet to focus more on customer service rather than technical issues.
- **Community Empowerment:** Improved internet access in public spaces fostered economic growth and enhanced digital inclusion.
- **Long-term Growth:** The three-year warranty on FTP-300 products provided Syokinet with the confidence to invest in long-term infrastructure projects.



About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies the management of Cambium Networks' wired and wireless broadband and network edge technologies, allowing customers to focus more resources on managing their business rather than the network. We make connectivity that just works.