Altiplano FastMile Controller
The Nokia Altiplano FastMile Controller is a specialized cloud-based domain controller for Fixed Wireless Access (FWA) services.

It provides end-to-end service lifecycle management for Nokia FastMile Gateways and Receivers as well as for third-party FWA customer premises equipment (CPE). The Altiplano FastMile Controller delivers flexibility and programmability with open APIs and allows easy integration with OSS/BSS, IT and cloud platforms.

Service providers can rapidly deploy Fixed Wireless Access services, deliver the best Service Level Agreement (SLA) and offer optimum Quality of Service and Quality of Experience.
End-to-end service lifecycle management including Point of Sale, Service Fulfilment and Service Assurance & Optimization.
Point of Sale (POS)

The Point of Sale (POS) capabilities allow a consumer to subscribe to an FWA service through sales portal. The operator then validates the FWA service eligibility with radio planner software. The qualification of the service is based on:

- Mobile coverage.
- Available cell capacity.
- Customer location.
- Requested service level agreement.

To ensure optimal Quality of Service and

Quick detection of optimal outdoor/indoor location

Determine best available SLA and device type for subscriber

Preferred 4G/5G cells

Check 4G/5G service area

POS admin

1. Point of Sale
Service Fulfilment enables operators to provision FWA subscribers and CPE infrastructure data:

- Unique identification that links a consumer to a service subscription.
- Provisioning of service Access Point Name (APN) based on requested SLA.
- Provisioning of the preferred 4G/5G cell list.
- Control of the installation by validating if an authorized subscriber installs the CPE at the planned location.
- Easy, guided home installation including the optimal installation location and antenna direction. A mobile app guides the installer to the best location taking into account line of sight, radio signal quality, etc.
- Post-installation diagnostics, including TR-0143 speed test, 4G/5G signal quality, etc.

In a greenfield installation, the FWA CPE can be created on the Auto Configuration Server (ACS) by the
Service Assurance & Optimization

The Service Assurance measures include:

• The FWA service health.

• Monitoring of the achieved SLA vs promised SLA.

• Control of the physical location of the FWA CPE through high-precision telemetry of alarms, status data, and performance management data of the FWA CPE and cells.

Certain alarms or events may trigger an automated (intent-based) Service Optimization. For example, when a “new cell”, “cell outage” or “congested cell” event is reported, the FastMile Controller may redistribute the FWA CPEs across the cells by updating the preferred cell list. If the FastMile Controller detects that the FWA CPE has been moved to another location it will raise
The Altiplano FastMile Controller gives operators end-to-end service lifecycle management of FWA deployments. It’s a full multi-vendor solution supporting easy integration for any TR-069 CPE, Auto Configuration Server, RAN-Network Management System, Geo-KPI and OSS/BSS.

It’s a win-win for everyone. Rapid FWA service deployment and guided self-install support mean fewer truck rolls for the service provider along with the best SLA and Quality of Experience for consumers.
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As a B2B technology innovation leader, we are pioneering the future where networks meet cloud to realize the full potential of digital in every industry.
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