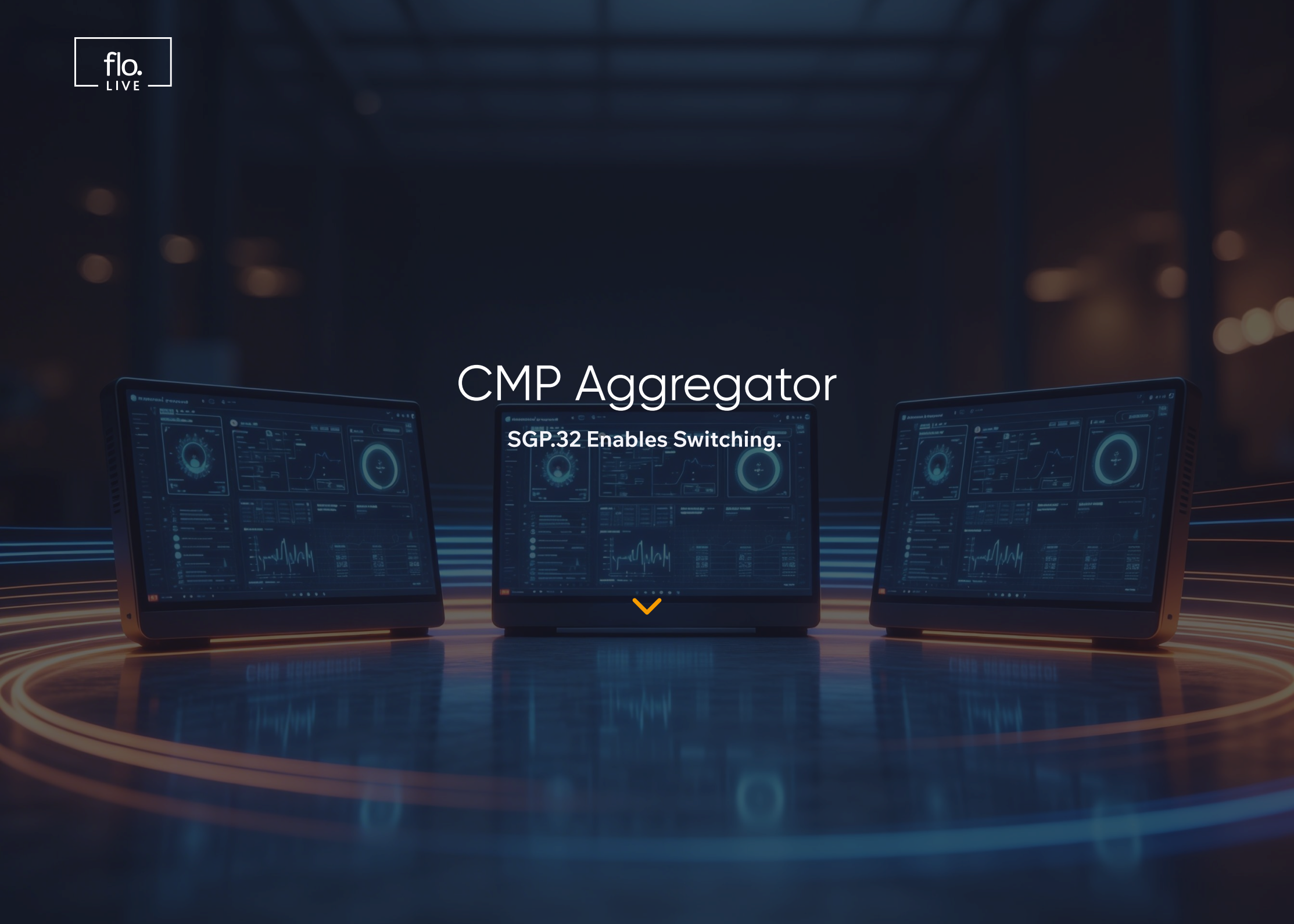
flo. LIVE

CMP Aggregator

SGP.32 Enables Switching.



Operational Architecture Determines Advantage.

Executive Summary

The GSMA SGP.32 standard will reshape IoT connectivity governance. By simplifying eSIM profile lifecycle management, SGP.32 reduces dependency on a single connectivity provider and enables structured multi-provider strategies. For operators and enterprises, this unlocks commercial flexibility, local compliance, and deployment agility.
But flexibility introduces complexity.

Each additional provider brings its own CMP, billing logic, account structures, event formats, and operational workflows. The specification enables switching. It does not unify operations.

Switching gets easier. Managing fleets gets harder.

The floLIVE CMP Aggregator is the operational control layer designed for this shift. It standardizes visibility, workflows, usage governance, and troubleshooting across multiple CMPs, ensuring that SGP.32 capability translates into scalable operational success.

The CMP Aggregator enables organizations to adopt multi-provider strategies without multiplying operational fragmentation.One example of how this model can be applied is reflected in Singtel's recent public announcement at MWC Shanghai, which outlines a multi-operator orchestration approach aligned with the Aggregator vision.

The Governance Shift Under SGP.32

SGP.32 changes who controls switching.It enables:

01 **Remote profile lifecycle management**

02 **Structured multi-provider deployment models**

03 **Hybrid environments (native SGP.32 + multi-IMSI continuity)**

04 **Greater commercial and regional flexibility**

As adoption expands beginning with MNOs, followed by MVNOs and large enterprises-connectivity governance becomes distributed across multiple providers.

That distribution creates operational consequences.

Without abstraction, organizations risk replacing single-provider dependency with multi-platform complexity.

The Emerging Risk

Fragmentation at Scale

In a multi-provider SGP.32 environment:

- Each provider operates its own CMP
- Account hierarchies and terminology differ
- Usage data structures are inconsistent
- Billing remains distributed
- Troubleshooting spans provider boundaries
- Governance becomes tenant-fragmented

Over time, this leads to:

- Increased operational overhead
- Slower incident resolution
- Higher onboarding and training costs
- Manual cost reconciliation
- Reduced enterprise agility

Adopting SGP.32 without operational abstraction risks multiplying management complexity rather than reducing dependency.

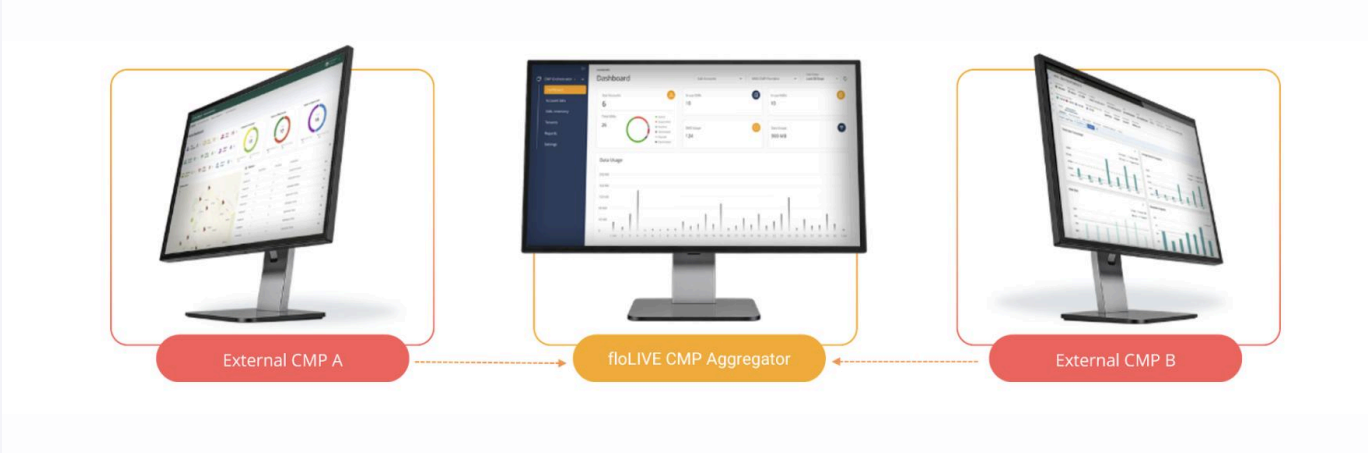
Operational readiness-not specification compliance-determines long-term fleet health.

Architecture

The Control Layer Above CMPs

Figure 1 |

The floLIVE CMP Aggregator operates as a centralized control layer above multiple external CMPs, while each remains the system of record.



The CMP Aggregator integrates securely with external CMP environments and normalizes operational data into a unified, multi-tenant control plane. Each underlying CMP continues operating independently. The Aggregator introduces structure above them.

Centralized SIM and account governance

Consolidated operational visibility

Structured cross-provider workflows

Scalable global fleet management

It is the operational architecture required for multi-provider control.

Core Operational Capabilities

Unified Operational Control

Single-pane visibility across SIM inventory, connectivity status, accounts, and usage across all integrated CMPs.

Standardized Cross-Provider Workflows

Normalized lifecycle actions, event structures, and reporting—eliminating provider-specific process fragmentation.

Accelerated Root Cause Resolution

Cross-platform signal correlation for faster triage and issue isolation across SIM, CMP, and network layers.

Cross-Provider Financial Governance

Normalized usage aggregation and invoice visibility across tenants, regions, and providers.

Non-Disruptive Multi-CMP Integration

Credential-based connectors allow phased onboarding without replacing existing connectivity relationships.

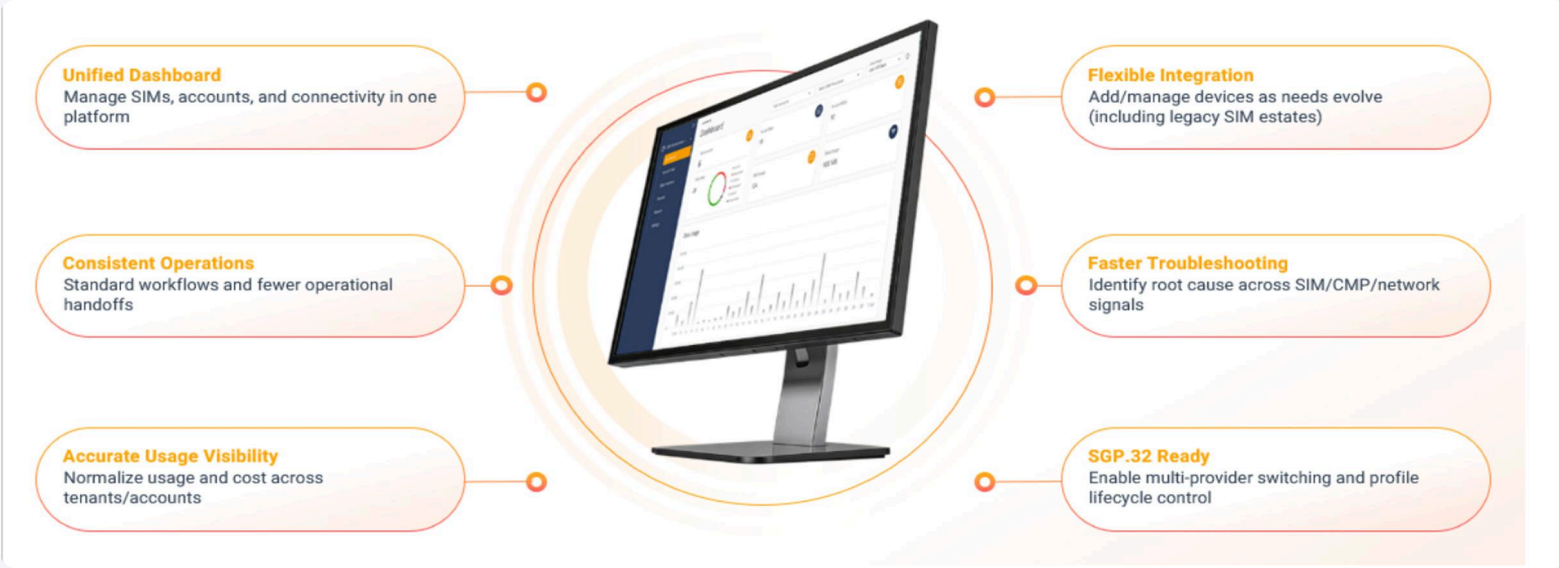
SGP.32 Lifecycle Alignment

Architected to support structured multi-profile switching governance as SGP.32 deployments scale.

Customer Benefits

Figure 2 |

Operational and financial advantages delivered through CMP aggregation



By introducing a unified operating layer, organizations achieve:

- **Reduced platform switching and manual reconciliation**
- **Consistent governance across providers**
- **Faster incident detection and resolution**
- **Lower operational and training overhead**
- **Consolidated financial visibility**
- **Structured readiness for SGP.32-driven multi-provider expansion**

Switching becomes strategic, not disruptive.

Business Impact by Segment

For MNOs

- Deliver SGP.32-ready managed environments
- Prevent CMP sprawl across enterprise customers
- Increase enterprise stickiness through operational value

For MVNOs

- Aggregate multiple upstream operators without duplicating operational structures
- Preserve commercial flexibility while maintaining governance control

For Enterprises

- Adopt multi-provider switching without operational chaos
- Maintain centralized oversight across regions
- Protect fleet stability during migration from legacy SIM estates

The CMP Aggregator ensures flexibility does not erode control.