



Case Study: Console Connect

LSO Adaptor Tool for Seamless API Interoperability

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Plug Into the Ecosystem: A Scalable Path to Standards-Based Automation

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Challenge

For many service providers, the path to Mplify Lifecycle Service Orchestration (LSO) Sonata API compliance is obstructed by legacy systems, non-standard interfaces, and the cost of backend transformation. Implementing new APIs often demands time-consuming, developer-heavy rework, especially when internal systems weren't designed with standardized interoperability in mind. Console Connect recognized this gap and sought to create a bridge: a low-barrier solution that accelerates API enablement while minimizing infrastructure risk.

Solution

Console Connect developed and open-sourced the LSO Adaptor Tool, a schema-based, low-code translator that sits between provider systems and Mplify-compliant APIs. Designed to act as a digital adaptor, it dynamically maps payloads and business logic from standard API requests to the internal language of legacy systems and vice versa. The result: seamless interoperability without rearchitecting your stack.

The tool is designed with accessibility and scale in mind. Solution architects, not just developers, can configure it using JSON schemas and mapping files. It supports core use cases such as address validation, quoting, ordering, and inventory and is service agnostic, with support for Ethernet and Internet payloads. Console Connect validated the adaptor through successful certification and live deployments across Asia and Europe.

Importantly, the LSO Adaptor Tool is cloud-native, container-deployable, and CI/CD friendly, making it ideal for modern DevOps pipelines. It also supports dynamic schema changes, optional field handling, and multi-version API compatibility.

How it works

Capability	What it does	Why it matters
Schema-based mappings	Translates standard payloads to legacy formats and back	Avoids backend rewrites; de-risks upgrades
Business-rule layer	Encodes partner- and product-specific logic	Fast partner onboarding without custom code sprawl
Version negotiation	Handles multiple API versions concurrently	Zero-downtime partner migrations
Cloud-native packaging	Containers with CI/CD pipelines	Repeatable deployments across regions and environments
Observability hooks	Logs, tracing, and validation feedback	Faster troubleshooting and certification cycles

Business Outcomes

The LSO Adaptor Tool delivered ecosystem-wide benefits:

- Reduced onboarding time for partners by minimizing backend integration delays.
- Partner onboarding decoupled from backend transformation; upgrade to Mplify standard APIs without breaking internal systems.
- Enabled sell-side and buy-side API adoption using a shared, configurable interface.
- Successfully certified with Mplify's LSO test environments for Ethernet and IP services.
- Actively deployed with multiple partners in live regional and global interconnect scenarios.
- Released as an open-source tool, encouraging broader adoption and code contributions.
- Built-in support for version control and flexible schema adaptation.

Key Takeaways

- Not every provider needs a full backend overhaul to adopt APIs; adaptors unlock pragmatic scale.
- Low-code, schema-first design empowers broader internal teams to configure and manage APIs.
- Adopt Mplify standards without the steep learning curve. The LSO Adaptor Tool empowers providers to meet Mplify API requirements fast, bypassing deep in-house development and accelerating interoperability.

- Certification and live deployments validate real-world effectiveness and market readiness.
- Open-source delivery fuels innovation, transparency, and ecosystem collaboration.
- The adaptor approach supports future expansion, including operational APIs and complex order flows.

Get Involved

[Console Connect's LSO Adaptor](#) Tool is more than a proof of concept; it's a working, extensible enabler of API federation. If you're a provider looking to quickly align with [Mplify standards](#) or a developer exploring open-source interoperability tooling, visit the public GitHub repository to get started, contribute enhancements, or integrate the adaptor into your own service delivery pipeline.

Engage with Mplify and Console Connect to accelerate collaboration, reduce integration overhead, align on standards, and scale [automated](#) service delivery across your partner ecosystem.

Console Connect offers fee-based professional services for turnkey deployment, proprietary API mappings, automated testing, and production launch. Run a pilot focused on one process (e.g., quoting) and one service (e.g., Ethernet) to reach first live order, then scale.

About Mplify

[Mplify](#) is a global alliance of network, cloud, cybersecurity, and enterprise organizations working together to accelerate the AI-powered digital economy through standardization, automation, certification, and collaboration. As the defining authority behind Carrier Ethernet, [Lifecycle Service Orchestration](#) (LSO) APIs, and [certified SASE and SD-WAN](#), Mplify has developed the global blueprint for [Network-as-a-Service](#) (NaaS) that is empowering the industry to innovate, interoperate, and scale trusted network services across a global ecosystem. For more information, please visit mplify.net and follow us on [LinkedIn](#), [BlueSky](#), and [YouTube](#)