



Case Study: Telekom Deutschland

Broadband Automation with LSO APIs

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Standardizing Speed: Modernizing Germany's Broadband Market with Mplify LSO APIs

Challenge

Germany's broadband landscape is highly fragmented, involving dozens of infrastructure providers and a complex regulatory environment. Interoperability challenges, manual processes, and a lack of standardized interfaces made service fulfillment and automation inefficient and difficult to scale. For Telekom Deutschland Wholesale, aligning national and commercial efforts under a shared automation framework was critical to delivering faster, more reliable digital services.

Solution

Telekom Deutschland adopted a dual-track strategy to tackle these challenges. For regulatory-driven broadband access, the company worked with the German regulator and industry forums to define TM Forum-based standards. In parallel, for more agile and commercially driven services like leased lines, Telekom implemented Mplify Lifecycle Service Orchestration (LSO) APIs in direct collaboration with providers such as Colt.

Using existing, ready-to-use APIs from Mplify's suite, Telekom will be able to support key functions such as address validation, service qualification, quoting and ordering. These APIs required only minor adaptations to align with Germany's use cases. This lightweight approach minimized negotiation time, enabling Telekom to move quickly on automation initiatives without waiting for consensus-based regulatory processes to conclude.

By demonstrating practical value and enabling parallel progress across both regulated and commercial domains, Telekom positioned itself as a leader in broadband automation. This strategy also serves as a blueprint for other markets navigating similar challenges between regulation and innovation.

Results

Telekom Deutschland's two-track strategy delivered:

- Faster implementation of commercial services using existing Mplify LSO APIs.
- Demonstrated adaptability of global standards to local regulatory requirements.
- Improved time-to-service and operational efficiency in Germany's decentralized broadband market.
- Positioned Telekom as a key contributor to both national broadband standardization and international LSO adoption.

Key Takeaways

- A dual-track approach balances regulatory alignment and business agility.
- Mplify LSO APIs offer scalable, ready-to-use templates for rapid deployment.
- Early implementation creates momentum and serves as a model for broader ecosystem adoption.
- Standards reduce friction and accelerate collaboration in complex, multi-provider environments.

Get Involved

If your market is grappling with regulatory complexity or fragmented infrastructure, Telekom Deutschland's success shows how you can move forward today.

Engage with Mplify to learn how standards-based LSO APIs can streamline service delivery, enable compliance, and unlock automation, no matter your regulatory context.

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](#) @mplifyalliance