Intent-Driven Autonomous Networks business transformation with Intraway

Challenges
Automate activation, provisioning, orchestration in an intent-driven environment

Intent-Driven Autonomous Networks (IDAN) are a knowledge-centric automation mechanism that intends to receive and distribute customer requirements across the business, service, and resource operational layers. Implementing an intent-driven network requires the complex goal of defining high-level business intent, which in a telecom network might be to configure a particular network topology in response to a changing business opportunity. Analyzing the end-to-end service-level goals and KPIs for each domain and node will lead to changes that can maximize facets of network operation to optimize customer satisfaction, performance and profitability. Intent-based networking has entered the spotlight as network operators recognize they must master substantial network complexity with sophisticated automation if they want to create, deliver, and sustain services, especially in cloud-native network environments like standalone 5G. Leveraging TMF921 work, Intraway has delivered the provisioning, activation, and orchestration automation needed to deliver intent-based networks.

The Intraway Solution
Empowering the telecoms industry with Symphonica and IDAN

Intraway's cloud-native, no-code platform, Symphonica, provides a key piece of intent-driven architecture as it can connect any business system to any network infrastructure, activate any service on any available resource in real-time with zero-touch automation while rapidly integrating with ecosystem partners to deliver end-to-end IDAN solutions quickly and efficiently. Intraway and our partners are continuously working towards transforming the telecommunications industry - with the goal of maximizing the use of networks and the standardization of APIs so that integrations can be executed as quickly as possible.

Benefits
Unlocking the potential of Intent-Driven Autonomous Networks with Symphonica

Allowing idle capacity
Operator's networks or resources are not utilized at 100%. These unused or idle periods can now be used based on attempts and transforming unused capacity into revenue, increasing profitability.

Enabling the participation of resellers/ brokers
As the user has the option of offering the price to pay for the service, third parties will be able to provide the broker service, looking for the best offer/price ratio between different operators by invoking various attempts.

Empowering the end user(s) to propose the price they want/can pay
The customer offers through an intent-based system what he is willing to pay for a particular service and the operator will notify him when the desired service can be used.

Enhancing multi-vendor integration, as it is based on API standards
This is based entirely on the use of standard APIs, defined with multi-company work groups, oriented to the new paradigm, and streamlined implementation.

Intraway on AWS

Intraway and AWS are better together thanks to both company's commitment to migrating BSS/OSS telecom systems to the cloud. Symphonica,Intraway's award-winning no-code, cloud-native, telco-grade orchestration and service activation platform, enables telecom operators and Communications Service Providers (CSPs) to capture revenue quickly, enhancing ROI across their digital transformation programs. Designed for operational excellence, security, reliability, performance efficiency, Symphonica is proudly aligned with TM Forum Open APIs and AWS well-architected framework to rapidly integrate with existing systems and build a future-proof and open platform. Serving over 40 million subscribers in more than 20 countries over three continents, Symphonica and AWS are better together due to the capabilities of complex provisioning processes, closed-loop self-healing networks and multi-domain orchestration. Whether they need to deploy GPON, SD-WAN, 5G Network Slicing, IoT or other technologies, Symphonica SaaS stands ready to support them with multiple use cases and deployment scenarios.
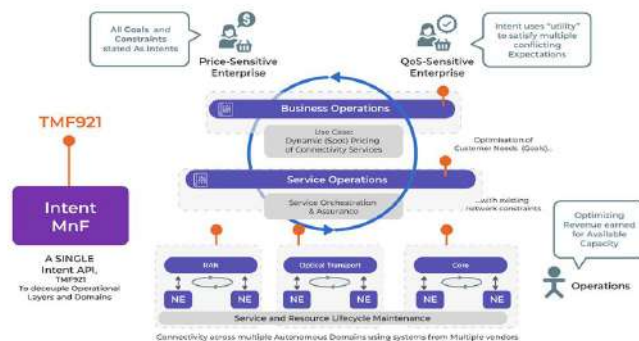
Features

Cost-effective SaaS model

SaaS will expedite the return on the value of Symphonica by reducing implementation time for Telco operators as we built the necessary functionality to create new tenants (telco operators own separate space) on the fly through the use of wizards. This allows the customer to have their own workspace in minutes without investing in hardware. The Symphonica SaaS solution will enable our customers to consider a complete application landscape migration to cloud or SaaS from a set of vendors.

Leveraging the Cloud can open limitless potential for businesses

With Symphonica Cloud, our CSP clients can take their traditionally on-premise OSS and move this function to a remote location in a highly available environment, such as AWS, with all the benefits of a commoditized environment. Operators only have to focus on the business logic configuration. Performance, rate-limiting, prioritized queuing, connection management; the SLA enforcement, and overall transaction management are handled by the platform.

Case Study: Intent-Driven Network in Operation

Challenges

CSPs are investigating intent-based networks because they offer a path to automate networks and operations; to support higher degrees of network and service autonomy; and in so doing address escalating complexity while mitigating if not reducing operations and IT costs.

Solution

Intent-based automation can help CSPs to address most if not all these challenges, though not without overcoming substantial complexity. In an intent-based network, resources should scale and adjust dynamically according to real-time demand, as they do for cloud compute, storage, and networking and streaming services.

Results

Using Intent APIs, Intraway ensures that networks will autonomously adapt to changing conditions according to the exact prescriptions within the intents. This propagates at all levels while providing services that optimize resource allocation and energy consumption while generating savings and provide quality service.

Get started with Intraway's solutions on AWS

Visit AWS Marketplace or www.intraway.com to purchase or start a Free Trial today.