



Intraway | SYMPHONICA

Intraway's Global Presence

Selected Marquis Customers

More than 55 deployments
across 22 countries

WOW!

Omni Fiber

Mediacom

COX

LIBERTY
LATIN AMERICA

tigo

TELECOM

ufinet

iz
zi

Telefonica

MIDCO

Our Clients Trust us With Their Business



SaaS Deployments

WOW!


POINT
BROADBAND™

DIGITAL
INTERNET + TV CABLE

 GRUPO
ECONOCABLE

 **ace**®
communications

**media
networks**


MIDCO

hispasat 

 Omni Fiber

LUMOS
NETWORKS



Bestel®

ufinet

 **telecable**

A Story of Change and Innovation

Based on Standards

2003

2008

2016

2022

Device Provisioning

Service Activation

Service Orchestration

Multi-domain Service
Orchestration

Intent-Driven
Autonomous Networking

DOCSIS
PacketCable

DTH, HFC TV
DOCSIS PacketCable

xPON,
DSL, IPTV

OTT, SIP / IMS
xDSL, GPON, GSM / LTE,
SOM

5G, VoLTE, SD-WAN,
Cloud Services, e-
SIM, NFV/SDN

CableLabs®



tmforum
member



Gartner®

MEF

aws

Select Technology Partner

SI/Reseller Partners

Prodapt



 **VECTOR**[®] | BE ABLE
TECHNOLOGIES

S4DIGITAL
IGNITING CHANGE



 **Procom**[®]


INNOWAVE
Change Lives Through Innovation

 **TrekTel**

Technology Partners

servicenow

aws

Lanner

enxoo

inceptum

ETIYA

MuleSoft

ciena

Adtran

flexiWAN

harmonic

COMMScope

Intraway

Benefits of Symphonica

We add value to each phase of your company's *launch, growth, shake out, and maturity* phases through:

- Helping to grow Revenue, EBITDA, Free Cash Flow
- Enabling faster customer & revenue growth through real-time integration and automation
- Reduce customer churn through a positive provisioning experience
- Enabling wider and faster expansion of the product portfolio
- Establish and extend self-service capabilities of Field/Customer Operations, direct customers, and operations partners



Enable more efficient operations, optimizing your business through:

- Repeatability, Predictability, Scalability, Security
- Digitization of processes for increased agility of product introduction and service provisioning
- Help manage resources required to achieve business objectives
- Single repository for information related to expected configuration and usage of network resources

Our Digital Transformation Stats (!)

-40%

Reduce operational costs

-50%-75%

Reduce time to revenue

NPS >90

three years running

100%

deployment success rate, since our product's launch, for CSPs in multiple countries and configurations.

0%

Symphonica customer loss or churn since our inception

Adopt Symphonica as a Key Element in your Digital Transformation Program

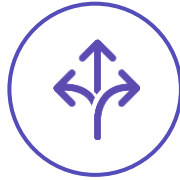
- With the advent of Telco Cloud, our SaaS-based offer can help you transition to Cloud-based solutions.
- Deep catalog of certified integrations and pre-defined workflows, a graphical UI to support customization, along with a robust partner network to help build/verify/operate it all.
- Our own highly recognized systems experts to engage with you every step of the way.
- Sales, Operations (Customer, Field, Technical), IT, and Engineering disciplines are just some of the key functions we support every day through our native tools and innovative solutions.
- Position peace of mind, knowing that you are leveraging a platform and team that has never failed to deliver, sets some of the highest standards you may ever experience, and expects to get it right the first time, every time.

How Can we Help?



Responsiveness

Whether a competitive threat, fluctuating operational demands, or shifting marketplace needs, our team and platform epitomize adaptiveness and urgency without sacrificing quality.



Flexibility

Our highly available, scalable, and configurable SaaS solution can be made to operate within a multitude of environments and delivery schemes.



Transparency & Intelligence

Provide deep insights into the state of the enterprise with each facet of the solution providing telemetry, presented in business-oriented dashboards and reports.



World Class Solution

Our solution, built on market leading technology, and refined through multiple deployments, make it easy to get the job done right the first time.



Commitment to Success

From our front lines to our executive ranks, every client we are engaged with knows we are a fluid extension of their organization, and a trusted partner focused on enhancing their business.

Achieving Gains for the Business



Proven Experience

18 years successfully delivering business growth, stable operations, and true partnership for fixed and wireless operators.



Global Reach

Serving dozens of customers across multiple continents means we have the know-how and connections you need to keep your business current and competitive



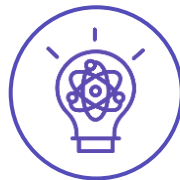
Industry Accolades

Don't just take our word for it, Gartner, AWS, TMForum and numerous other organizations have seen what we do and agree we deliver the very best, every time...



Efficiency

Whether it's our staff, technology, or business model, we enable you to make the very most of every financial, human, and technical resource at your disposal to achieve and maintain a competitive advantage.



Cutting Edge Insights

Our teams are on the forefront of change on multiple business and technology fronts, providing a rich perspective and a ready discussion partner to assist with navigating complicated marketplace dynamics.



Success driven growth

We compete in an equally crowded and complicated marketplace as you, and if our track record and commitment to success wasn't enough, consider that we are here, actively growing, and taking market share from other recognized platforms



Adaptive Service Management with Symphonica

Accelerating Digital Adoption



Multidomain,
compute and
connectivity
management and
monetization
platform



Adaptive closed loop
lifecycle management



Out of the Box
compute connectivity,
and systems adapters



Cloud native
architecture
no code by design.

Symphonica Adaptive Service Management Suite



Design
Studio



Quick
Launch
Catalog



Sentinel
Insight
Center



Integrated
Test
Center



Resource
Connector



- Intraway's **Adaptive Service Management Environment** combines essential capabilities to launch product and services across network, compute, and application infrastructures. Author new offerings quickly using **Design Studio** combining pre-integrated compute and connectivity ingredients from Intraway's **Quick-Launch Catalog** or newly minted/customized features of your own. Simplify service deployment validating recipes with **Integrated Test Center** to ensure service levels and customer commitments.
- Intraway Sentinel Insight Center provides a one stop shop for client piece of mind. Use Sentinel to create actionable intelligence by monitoring service KPI's to identify changes in demand or performance, then dynamically allocate compute and connectivity infrastructure providing monetizable resiliency with Symphonica through a Closed-Loop Orchestration solution.

Architecture Highlights Symphonica Overview

Symphonica

No-Code, Cloud-Native Platform for Adaptive Service Management

Multi-domain Service Orchestration

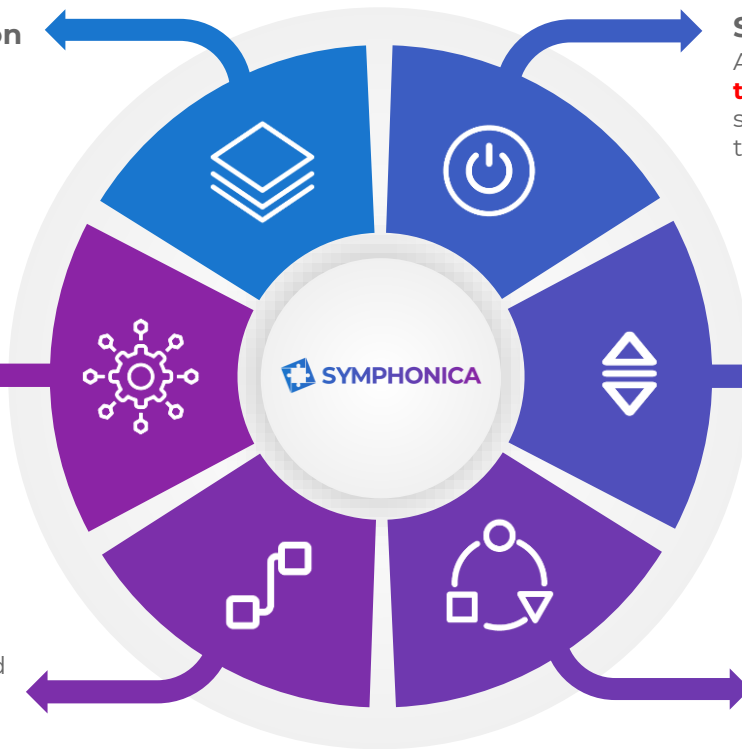
Multi-Domain, Multi-Technology, Multi-Vendor. Standards based: TMF641, AWS Well-Architected™

Modern Architecture

Scalable / Microservices / Open APIs

Connector Library & Workflow Design Studio

90+ Southbound Connectors and 15+ Northbound Integrations



Single Pane of Glass

Activates **any service, any technology, any network**, from a single point, out of the box, multi-tenant platform.

Domain-Based Architecture

Abstraction layer to complex southbound proprietary interfaces and protocols.

Fixed-Mobile Convergence Enabler

For fixed and mobile. For physical and virtual. For cloud and NFV

Symphonica

Adaptive Service Management: Orchestration and Provisioning



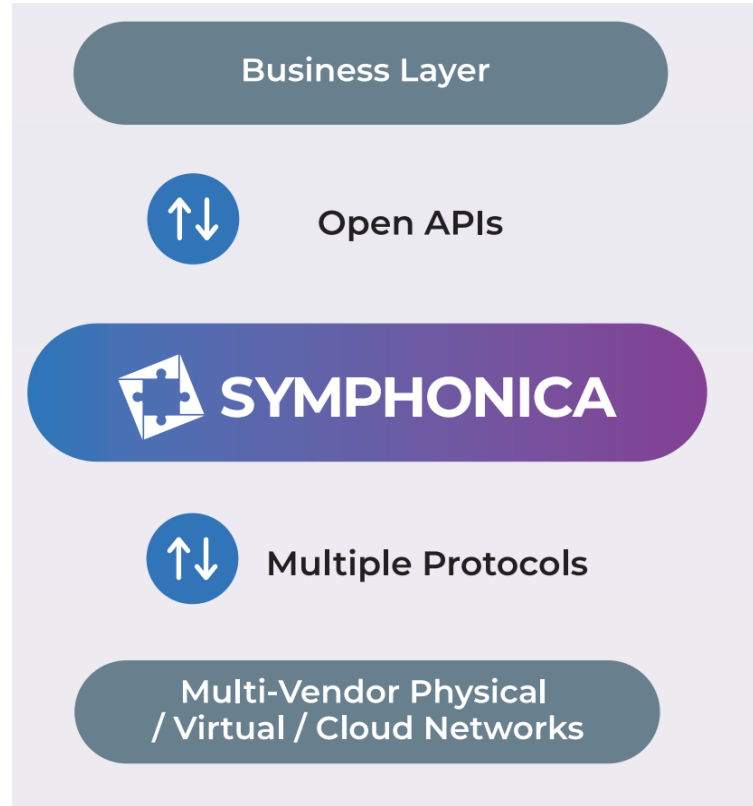
- **Activate any service** from any **vendor** across any **network technology** from a single point.
- **Accelerate time-to-revenue** by enabling zero-touch provisioning, orchestration, and service activation of every network element or system from a single platform.
- **Assure the implementation** with intelligent configuration checkups and birth certificates.
- **Automate real-time updates** of your inventory getting a better control of the network and quicker service designs.
- **Easily design, develop, test, and deploy interfaces** to any network device or system with our Design Studio.
- **Record transactions and their results**, including all responses from NEs, thanks to our stateful design tools.



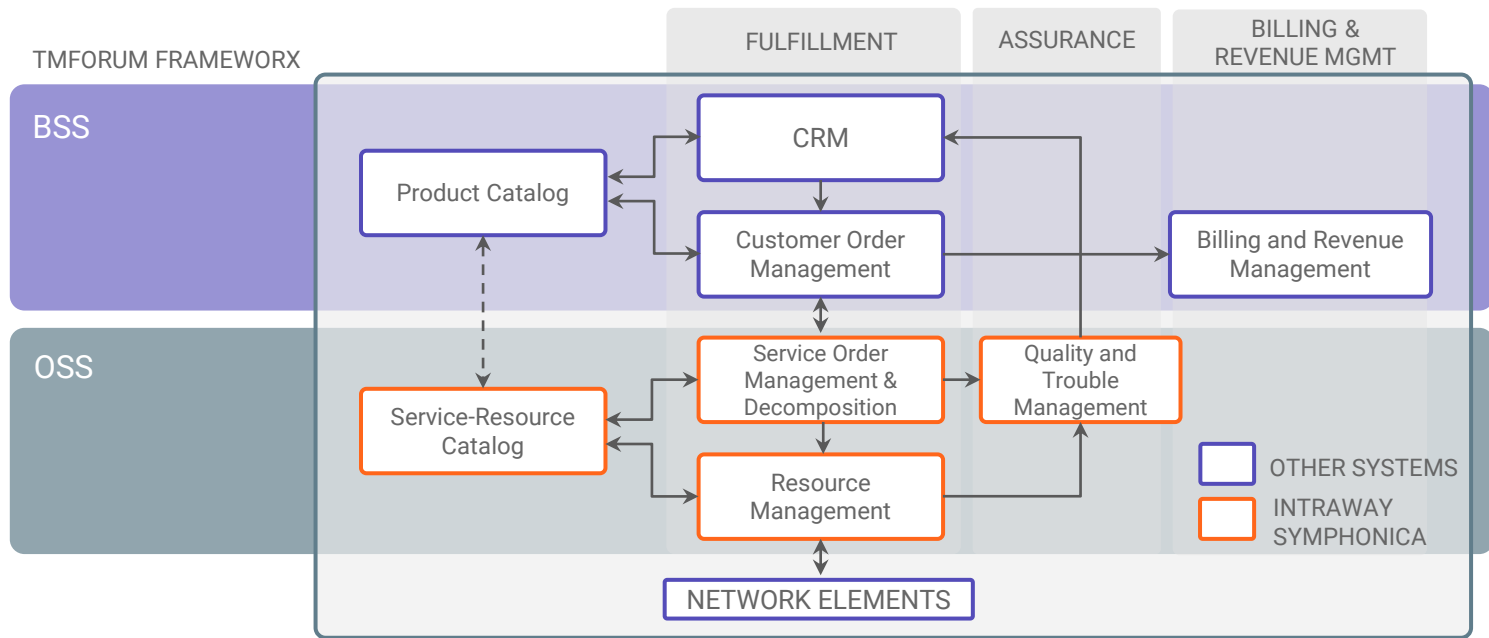
Symphonica Key Features

- **Single Interface** to Northbound Systems – BSS/CRM/Self-Care Portal/ VIM Module
- A Real-Time, Catalog-Driven **BPM-Based Workflow Engine**
- Highly **Configurable & Customizable** Solution - Integrate new systems and devices without developing a single line of code.
- **Connector Design Studio** to build or modify own system or network connectors
- Off-The-Shelf Connector for Multiple Common MSO Network Elements
- **Stateful design** – service and network element aware
- **Real-time** and **asynchronous order processing**
- **Automatic rollback** and fallout management
- Founded **following** the principles of SOA and the guidelines from the industry standard **Frameworkx from TM Forum**

Symphonica Overview & Context



Symphonica Overview & Context



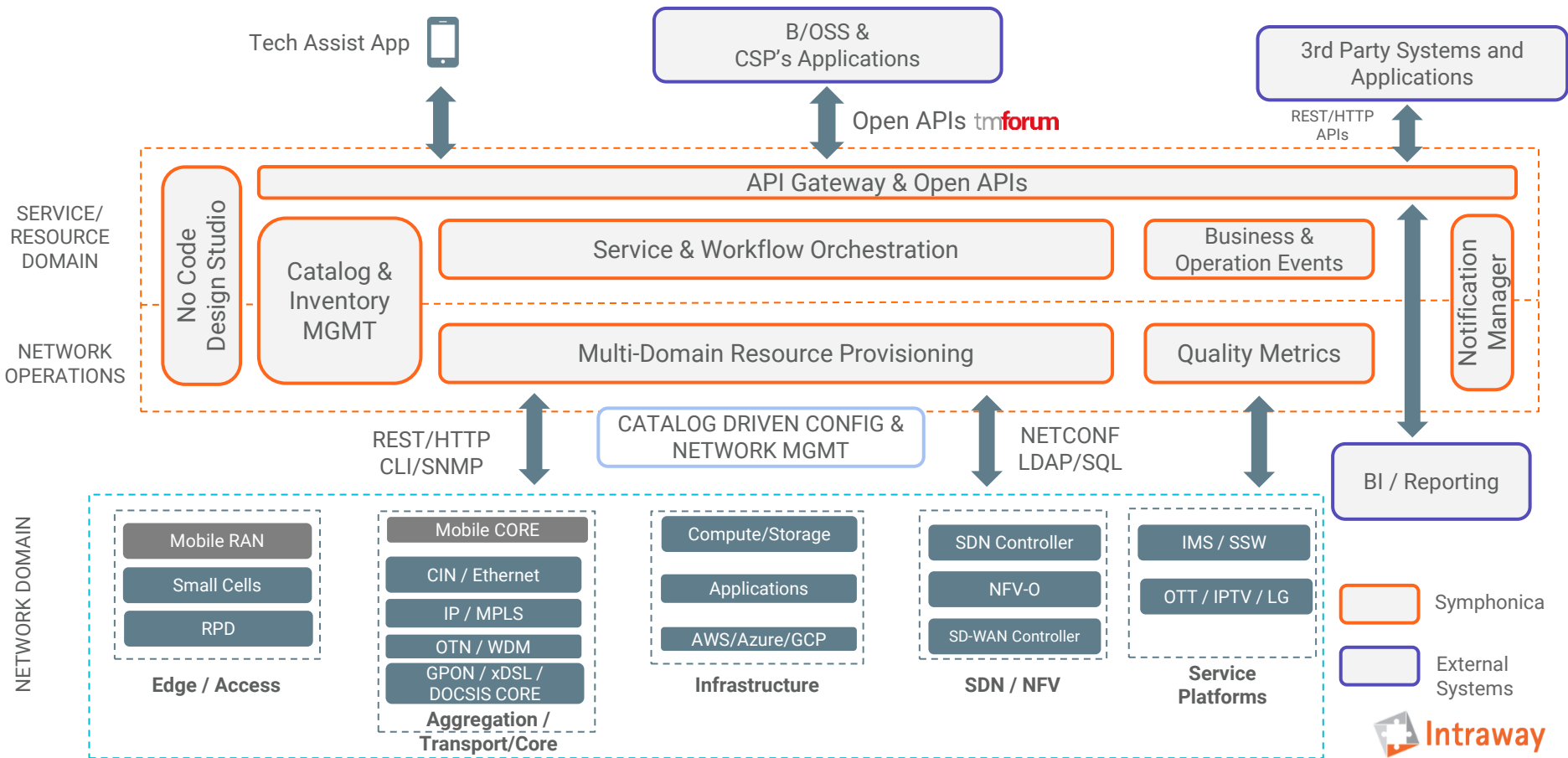
- **Managing** Product/**Service/Recurse Orders** synchronized with a **Centralized Catalog**.
- **Aligned** to **TMForum** Framework (Architecture, datamodel, APIs)
- **Low-code/No-code** platform **multi-technology** and **multi-vendor**.

Symphonica High level Architecture

Northbound Integrations

Vendor	Product	Type
AMDOCS	SIF v430	BSS
	ACTIVATION MANAGER	OSS
	SWITCH CONTROL	OSS
Appian	In-house Order Management	OM
AS/400 Based CRMs	IN-HOUSE SYSTEMS	BSS
CALIPSO		BSS
COMARCH	TYTAN	BSS
CSGI	CSGI	BSS
ERICSSON	OM	OSS
IN-HOUSE OSS	IN-HOUSE SYSTEMS	OSS
Netbox	Open-source Inventory	INVENTORY
NETCRACKER	CONVERGYS	BSS
OPEN		BSS
ORACLE	M6/METASOLV	OSS
	SIEBEL	BSS
	SOA / SERVICE BUS	OSS
PeopleSoft		INVENTORY
SALESFORCE		BSS
SAP	ERP, INVENTORY	BSS/OSS
TOA		WFM

Symphonica High level Architecture





Advanced Use Cases

Symphonica - Network Slicing



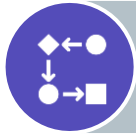
Slice & Subslice management with rule based approach for service selection



Catalog driven flows with high component reuse

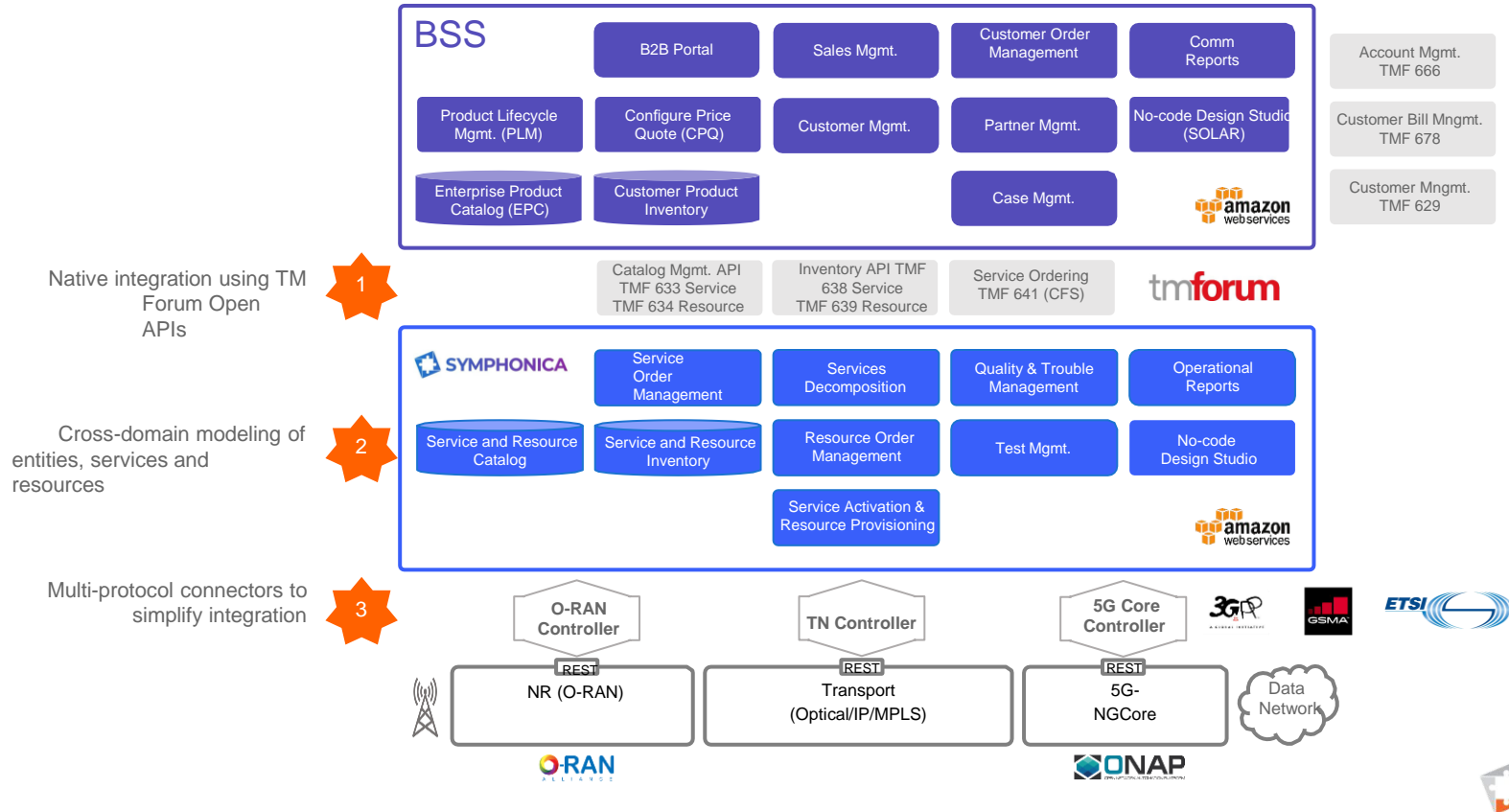


No-code approach to flow, catalog and integration connectors development



E2E Service order fulfilment

5G Network Slicing - BSS/OSS Architecture





Multidomain,
compute and
connectivity
management and
monetization
platform



Adaptive closed loop
lifecycle management



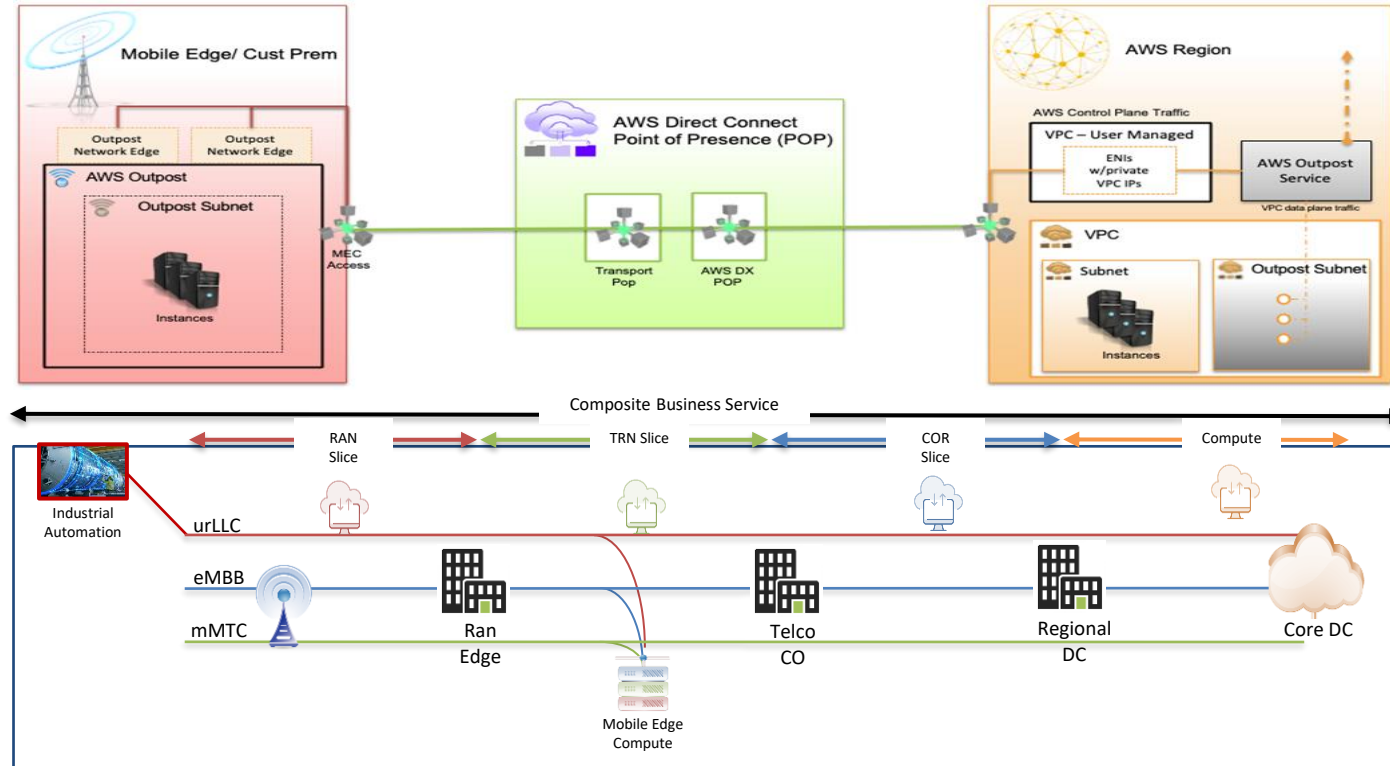
Out of the Box
compute connectivity,
and systems adapters



Cloud native
architecture
low code/ no code by
design.

Symphonica - Wireless Adaptive Service Management Solution

- urLLC network slice – oRAN, Transport, Mobile Edge Compute, Edge Access
- Infrastructure – AWS Configuration: Outpost, LocalZone, Wavelength, Storage ... AWS Snow
- Application – SageMaker, Monitron, Panorama
- IOT – GreenGrass, SiteWise, FreeRTOS





Multidomain,
compute and
connectivity
management and
monetization
platform



Adaptive closed loop
lifecycle management



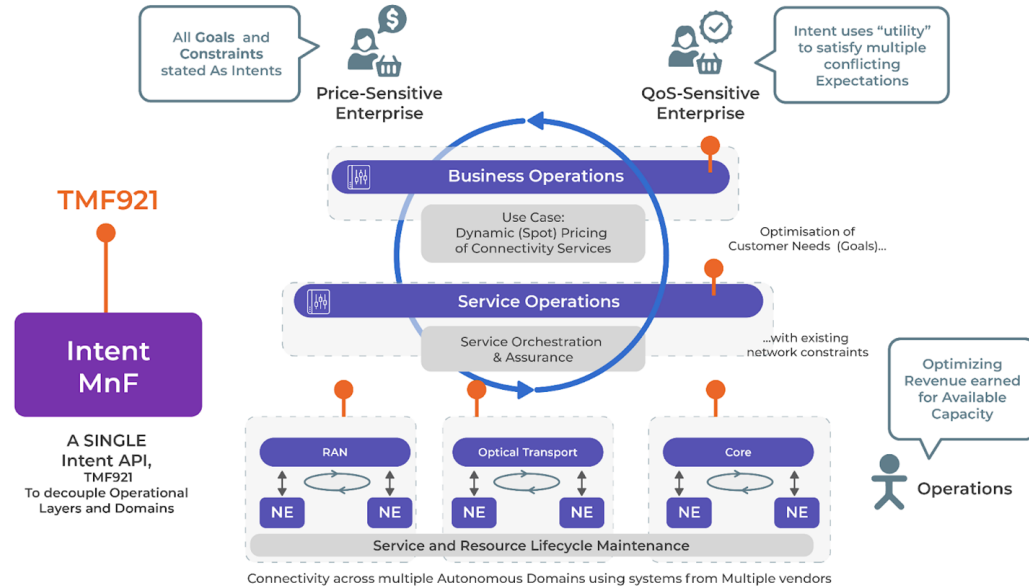
Out of the Box
compute connectivity,
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Cloud native
architecture
low code/ no code by
design.

Symphonica – IDAN Adaptive Service Management Solution

In this case, the autonomous network uses Intent APIs to automatically convert user requirements at the application layer into network languages, implementing agile service provisioning and simplified operation. On the other hand, networks are automatically optimized based on user requirements and network status to implement intelligent O&M.



1. A Price-sensitive customer communicates their requirements at the application layer.
2. The autonomous network automatically divides user requirements layer by layer. (Intent API at business layer -> service layer -> resource layer) and Translates into system instructions and executes them.
3. The autonomous network feeds back the instruction execution result to the user or upper-layer system, layer by layer.

www.intraway.com