OPTIUS OSS SUITE

Solution Overview

SaskTel International

SOLUTIONS BUILT FOR TELECOMS, BY A TELECOM

Automate. Empower. Optimize. Transform.

SASKTEL INTERNATIONAL AT A GLANCE

Established in 1986, SaskTel International (SI) is an innovative software development and professional services company providing solutions to communication service providers (CSPs), telecoms, and governments globally.

- A fully-owned subsidiary of a full-service ICT and telecommunications company, SaskTel.
- Our solutions help organizations with digital transformation and optimization of systems and networks to create competitive advantage and increase profitability.
- We leverage our unique relationship with SaskTel through access to a pool of over 3000 experts.
- Projects completed in over 40 countries and 6 continents

Our experience is beyond other OSS/BSS solution providers as we understand telecom operations first hand. We are leading digital transformation in our business operations. We provide real-world experience to our clients helping them to create market differentiation and high quality customer experience.

OUR PARENT COMPANY - SASKTEL

SaskTel is a Communications Service Provider (CSP) operating in the prairie province of Saskatchewan, Canada, SaskTel owns and operates Saskatchewan's largest network that connects 99% of the population over a vast area of 651,900 square kilometres.

1.4 MILLION CONNECTIONS

360,000+ HOMES PASSED

110+ YEARS OF EXPERIENCE

$1.3 BILLION ANNUAL REVENUE

YOUR DIGITAL TRANSFORMATION SOLUTION PARTNER

● BSS/OSS SOFTWARE SOLUTIONS

Our OSS software suite is a scalable solution for provisioning and assurance of fiber, copper, wireless, and hybrid networks which enables zero touch provisioning.

Optius Suite integrates with customer relationship management (CRM), billing, and workforce management (WFM) applications to provide a consolidated BSS/OSS solution. We provide BSS solutions through partners or integrate to your BSS systems.

OSS applications:
- Service Order Management
- Network Inventory
- Service Activation
- Service Assurance
- Mobile Applications
- Fully-integrated solution with open APIs

Software Professional Services:
- Software integration
- Conversions and data migrations
- Integration specialists
- Customizations
- Specialized support agreements

● TELECOM PROFESSIONAL SERVICES

SaskTel International assists with your digital transformation by providing strategic, implementation, and operational leadership across all telecom disciplines from marketing and sales to operations and engineering.

- Fiber Network Solutions
- Strategic Consulting
- Wireless Networks
- Operational Effectiveness
- Network Operations Center (NOC) Services

+30 years of software development and system conversion experience

OPTIUS OSS SUITE

EMPOWERING ZERO TOUCH PROVISIONING

AUTOMATION RESULTS AT SASKTEL

+90%

Success rate for service orders fulfilled automatically with zero touch

DIGITAL TRANSFORMATION

- Manage multiple networks including Fiber-to-the-Premise (FTTX)
- Optimize network capacity
- Automated assignment
- Zero touch activation
- Enables self-serve models
- Operational efficiencies for field technicians
- Increase ARPU through faster activation cycle

OPEX SAVINGS

- Reduce truck rolls with accurate network inventory
- Reallocate headcount by automating low value tasks and reassigning staff to higher value work
- Reduce manual errors with automated order processing

OPTIUS SUITE
EMPOWERING DIGITAL TRANSFORMATION

ENHANCE CUSTOMER EXPERIENCE

- Customer experiences are enhanced through the quick and accurate delivery of services
- Enable Customer Self-Serve Models
- Orchestrate services with zero touch service activation
- Automate complex processes for flow-through provisioning of service orders
- Increase Customer Retention and ARPU
- Improved visibility to data for high quality customer service trouble resolution

FLEXIBLE NETWORK MANAGEMENT

Flexible solution to accommodate various types of wireline (copper, fiber and hybrid) and wireless network technologies and services.

- Comprehensive network inventory from the core to customer premise
- Manages physical, logical and service resources
- Network capacity management and forecasting
- Reliable qualification of service availability
- Accurate network inventory enables automation

TRANSFORM YOUR BSS/OSS ECOSYSTEM

- Modular ecosystem with integrated OSS modules
- Effortless integration
- Flexible infrastructure enables:
  - best-in-class or end-to-end solution
  - on-site and hosted options
- Modern web-based architecture with intuitive interface
- Scalability to grow and adapt to business and telecom evolution
- Customizations to meet your specific needs

AUTOMATE BUSINESS PROCESSES

Accurate inventory management is the basis to enable automation and zero touch activation/provisioning.

- Automate the programming of all your network elements to enable zero touch activation
- Support multi-play services (voice, data, wireless)
- Reduce errors from mismatch of equipment and capabilities
- Automated activation minimizes order fallout
- Service qualification optimizes CRM processes

OPTIUS SUITE
INTEGRATED SOLUTION

Optius is developed based on our first-hand telecom operational experience and has been enhanced over 30 years to meet the legacy demands and future needs of telecom networks and services.

Optius integrates with Customer Relationship Management (CRM), Billing, and Geographic Information System (GIS), WorkForce Management (WFM) systems. Effortless integration with the platforms of your choice.

TRANSFORM, AUTOMATE, EMPOWER, AND OPTIMIZE YOUR BUSINESS.

SI provides a comprehensive solution that includes software and services; centralizing data, processes, reporting, configuration, integration, testing, training, and maintenance - all from one service provider.

Optius provides you with a modern solution to help digitally transform your operations. Enhance customer experience and increase margins by automating business processes with flow-through provisioning of service orders.

INTEGRATED END-TO-END SUITE

Service Order Management

Network Inventory Management

Service Activation

Service Assurance

Billing & Revenue Management

Customer Relationship Management

Workforce Management

Professional Services

OPTIUS

INTEGRATED MODULES & CORE FUNCTIONS

Network Inventory

- Physical and logical network inventory
- Provides comprehensive network inventory including:
  - address inventory (city/community, street, locations, etc.)
  - device and cable inventory (Switches, Network Devices, Line Equipment)
  - telephone number inventory (NPA, NXX), and services offered (calling features, broadband class of service, etc.)
  - FTTX network components such as:
    - OLTs, FDHs, Access Points, ONTs, Ports, Splitters

Service Order Management

- Service Catalog
- Service Qualification
- Service Order Creation
- Decomposition and Orchestration of Services
- Design & Assign as part of Service Order
- Determines manual and automated work tickets

Service Activation

- Service activation
- Network activation
- Downstream integration

Service Assurance

- Incident Management
- Problem Management
- Change Management

OPTIUS SUITE
FIBER NETWORK INVENTORY SOLUTION

The Optius Suite Network Inventory Module "ODiN" is integrated with Optius Service Order Management.

- ODiN is a fiber inventory and assignment application based on TM Forum Frameworx design guidelines
- It is integrated to Optius OSS Suite providing Order Management and Service Inventory functions
- ODiN implements the fiber resources inventory and resource assignment role for the management of fiber networks.
- This intelligent application provides a flexible, configurable, data-driven fiber network inventory application that contains detailed information about the resources in a telecom's local access network.

FIBER NETWORK INVENTORY: PHYSICAL RESOURCES

- ODiN manages the inventory of client-defined resources between the head end (i.e.: the OLT and PON port) and the remote, or location end, of the fiber network. This includes the following resources:
- **Physical:**
    - OLT, Fiber Distribution Frame (FDF), Fiber Distribution Hub (FDH), Splitters, Rack Mounted Splitters
    - Fiber serving access points and the location(s) they serve, ONT, Gateway, Set Top Box (STB), UPS Battery, Fiber cables and strands, Splice Enclosure, and Patch Panels
    - Components of the above, including racks, shelves, slots, cards, ports, distribution fields, splitter legs, pass-through ports, and physical connectors

FIBER NETWORK INVENTORY: LOGICAL/VIRTUAL RESOURCES

- **Logical and Virtual Resource Examples:**
    - ATM interface and virtual channels and paths (VPI/VCI)
    - Ethernet interface and virtual channels (SVLAN or SVLAN/CVLAN)
    - Logical devices, Connection and Trail Termination Points, Operating System, and Software

OPTIUS SUITE

OPEN INTEGRATION MODEL

The Optius software suite is built on the latest technology, ensuring scalability and flexibility as telecoms transform and new network technologies are adopted.
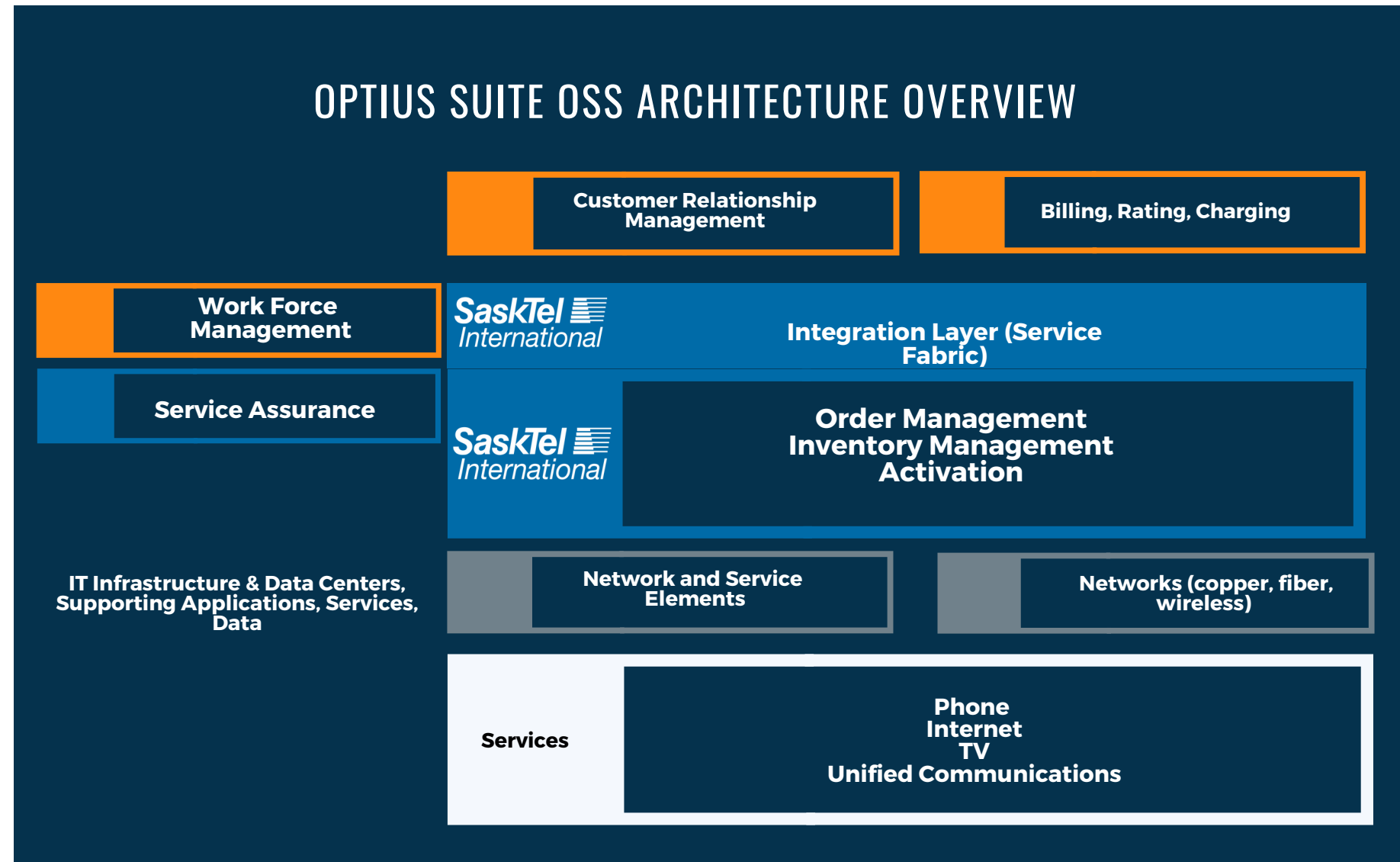
The robust platform combined with the open architecture technology allows independent customizations and integrations.

SaskTel International is very experienced with integration to complex BSS systems including billing, customer relationship, and workforce management.

SI is able to provide you with preferred solution providers or work with your chosen or existing BSS partners to integrate with our leading-edge OSS suite.

VENDOR AGNOSTIC
Telecoms' requirements for an integrated BSS/OSS system are met with the Optius Suite and with SIs established BSS partners, or with your current BSS partner as we strive to be vendor agnostic to enable ease of integration.

OPTIUS SUITE OSS ARCHITECTURE OVERVIEW

| Customer Relationship Management | Billing, Rating, Charging |

| Work Force Management | SaskTel International | Integration Layer (Service Fabric) |
| Service Assurance | SaskTel International | Order Management Inventory Management Activation |

| IT Infrastructure & Data Centers, Supporting Applications, Services, Data | Network and Service Elements | Networks (copper, fiber, wireless) |

| Services | Phone Internet TV Unified Communications |

tmforum

We are a established partner with TM forum to provide interoperability with many network and external vendors, enabling service providers' unlimited selection of the best-in-class to accommodate their operational and commercial needs.

EMPOWERING YOUR BUSINESS TO

AUTOMATE
OPTIMIZE
TRANSFORM

SaskTel International

- ✓ Serving Clients for Over 35 Years
- ✓ Roster of Long-Term clients
- ✓ Software Built in-House
- ✓ Operational Telecom Advisory Services
- ✓ Backing from a $1.3B telecom
- ✓ Uniquely Telco

- Trusted Partner; not just a vendor
  - ○ Expertise based on actual experience developed from over a century of successful operations
  - ○ We are "the honest broker"

- First-hand operational telecom expertise
  - ○ We understand first-hand the business challenges and opportunities service providers are facing because we are facing them as well

- Customer-Centric Service Excellence
  - ○ Incorporate client feedback into solutions
  - ○ Customer service excellence is core to our values and a key differentiator

For more information e-mail info@sasktelinternational.com or visit our website at www.sasktelinternational.com.