



Solving Tomorrow's Networking Problems Today

AdoptNgage (BSS)

AdoptWi-Fi (Subscriber Management)

AdoptIWF (Log Management)

AdoptHardware



At Adopt, we are helping create the world's most advanced networks with our cutting edge products and solutions, helping solve today's problems and anticipating future needs.

Rich experience in security solutions, product engineering, manufacturing electronic solutions along with our strong DNA in AI, wired & wireless networks, connected devices, cloud & data analytics allows us to create solutions that go beyond hardware and software.

Adopt SOFTWARE

Connecting everything
Wired or Wireless Network



AdoptTechnology

Deployment Platform

Cloud as well as On-premise Virtualized Deployment

Open API

Carrier-class Wi-Fi service integrated with the existing OSS/BSS systems

MVNO Support

A highly scalable multi-tenant service with full control of the operator- Efficient reuse centrally deployed hardware.

Analytics

- > Grafana - User Analytics-
- > Prometheus - System Analytics-
- > ELK - Log Management and Troubleshooting

Scalability

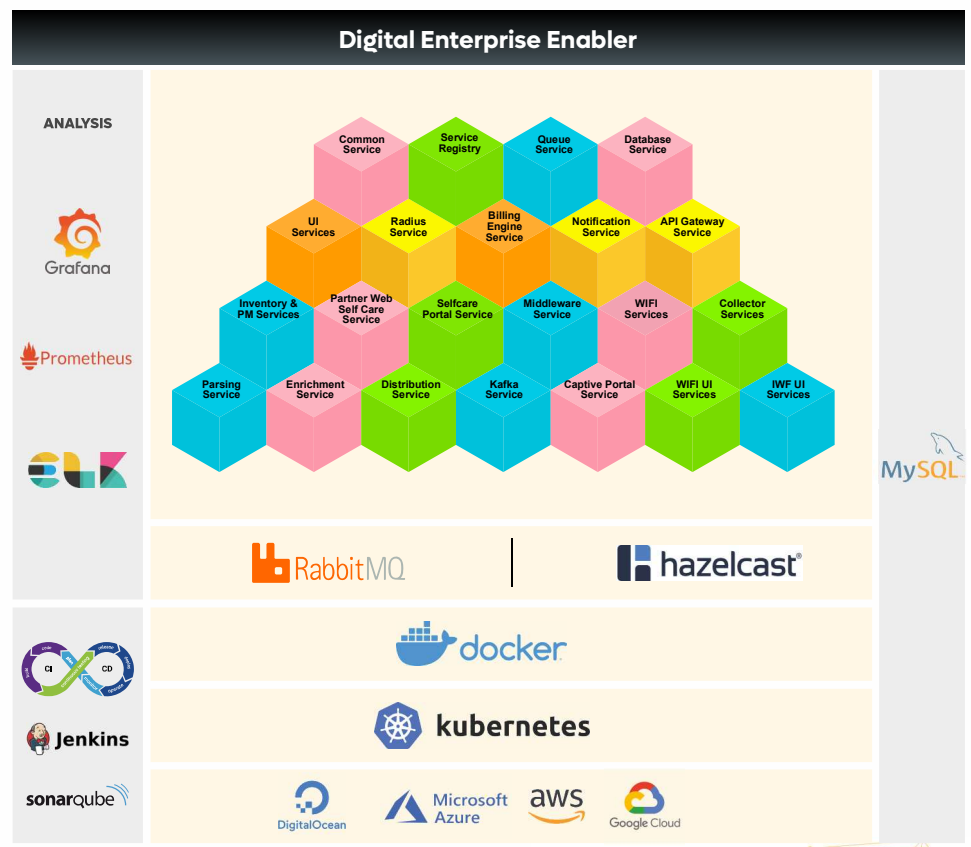
Easy scale in and scale out with fully microservices-based architecture

Multi Vendor Support

WLAN solutions from the most prominent manufacturers on the market

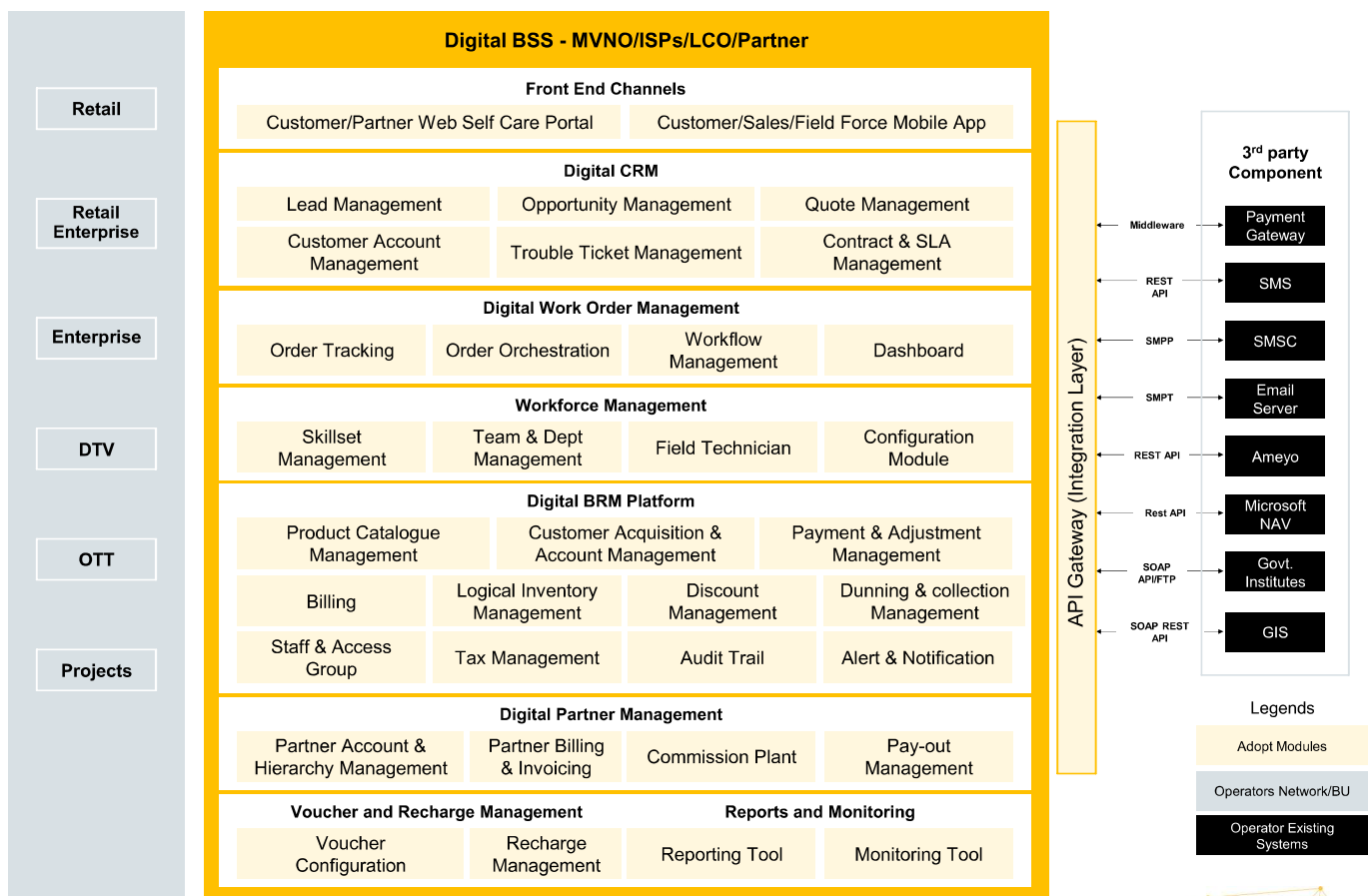
Modular

Advanced management of users permissions and hierarchies



AdoptNgage

- > A simple yet flexible Subscription Management Platform consists of a common core platform with industry specific layers (accelerators) above it.
- > Offered as Public SaaS, Private Cloud, Hosted or On-premise.
- > Ngage complies with all regulatory requirements related to data security, isolation and privacy.
- > Offers robust scalability architecture to always keep up with the growth of your business.
- > Ngage's API first approach enables easy and secure integration with your existing systems.



Key Features

Customer Management

- › Retail
- › Retail Enterprise
- › Enterprise
- › Projects
- › Hotspot

Product Catalog

- › Service Types (Wi-Fi, FTTx, Enterprise, DTV, OTT, etc.)
- › Charge Type
- › Tax
- › Bundle

AAA

- › Live Session
- › Accounting Records

Sales CRM

- › Lead Generation
- › Lead Tracking
- › Lead Allocation
- › Lead Status

Converged Billing, Payment and Collection

- › Prepaid Billing
- › Postpaid Billing
- › Billing Settlement
- › Dunning

Web Self Care

- › Customer Web Self Care
- › Partner Web Self Care
- › Enterprise Web Self Care

API Gateway

- › AAA API
- › Finance API Microsoft NAV
- › ACS API
- › Government Tax API
- › BRAS API
- › CAS API
- › App Integration
- › Middleware Integration

Central Monitoring and Analytics

- › Dashboard for Management
- › Dashboard for Finance
- › Presales Dashboard
- › Post Sales Dashboard
- › Enterprise Dashboard
- › Project Dashboard

Log Management

- › Audit
- › Staff Audit
- › Transaction Audit
- › History Audit
- › Ledger Audit
- › Inventory Audit
- › Sales Audit
- › Revenue Leakage

Troubleshooting

Mobile App (Android & iOS)

- › Customer App
- › WFM App
- › Admin App

Captive Portal

- › Voucher Management
- › Ad Integration

Inventory Management

- › Customer to Network Mapping
- › GIS integration

Work Order Management (WOM)

- › Retail WOM
- › Enterprise WOM
- › Inventory WOM
- › Finance WOM
- › Plan WOM

Trouble Ticket System Mapping

- › GIS Integration

Customization

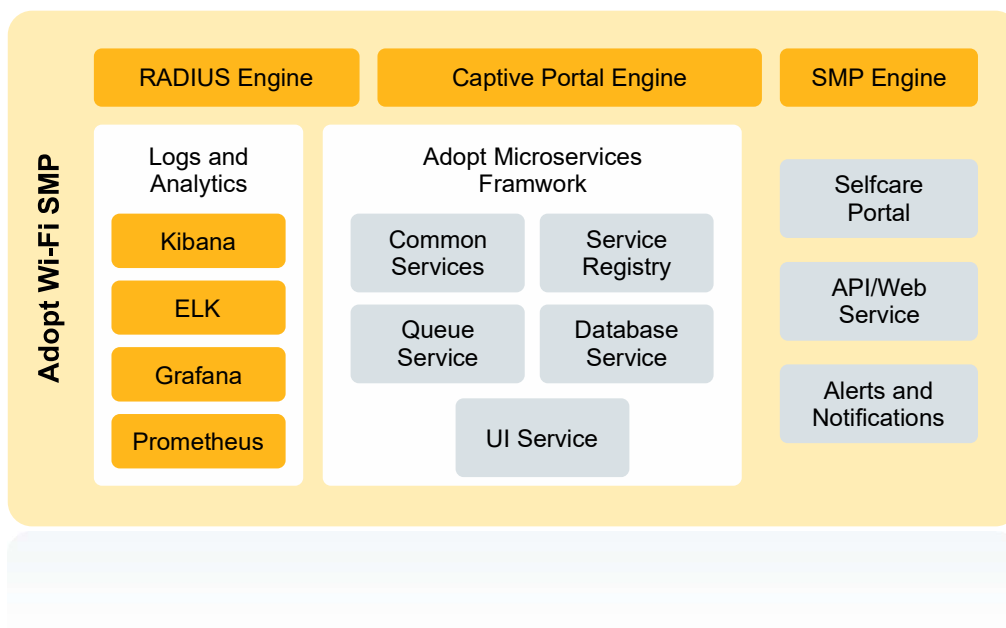
- › Bill Printing
- › Bill Formatting
- › MVNO



AdoptSMP (Subscriber Management Platform)

Adopt Subscriber Management Platform is based on microservices-based architecture which can be deployed at edge which works in coherence with our distributed cloud controller architecture based on the Enterprise need of security, regulatory compliances, scalability, network latency, maintenance and troubleshooting.

- › Microservices-based Architecture brings agility, scalability and resiliency
- › Customizable platform to suit business need and better ROI
- › Multi-tenant customers can host multi-enterprise on the same platform using the same infrastructure
- › Authentication, Authorization and Accounting (AAA)
- › Policy and Charging Control
- › Technology Agnostic with IWF Capabilities (2G/3G/4G/5G...)
- › Digital Transformation with Network Insight and Control
- › Convergent Charging
- › Open API support to integrate with existing ecosystem
- › Offload Mobile Subscribers to Wi-Fi
- › Create new Wi-Fi business models
- › Built-In plug-ins for themes, templates, and plugins, facilitating the building of personalized captive portals with rich text, videos, form fields, existing subscriber login, SMS verification, and more



Key Features

RADIUS Engine:

- › PAP/CHAP Authentication
- › MAC TAL Authentication
- › Vendor Agnostic
- › Open API for Integration & Provision
- › Rule-based Authentication with DB & LDAP Support
- › CDR Management
- › Live Session Management

SMP Engine:

- › Plan Life Cycle
- › Time-based Plan
- › Volume-based Plan
- › Various Validity Support
- › Configurable Charge

API Gateway:

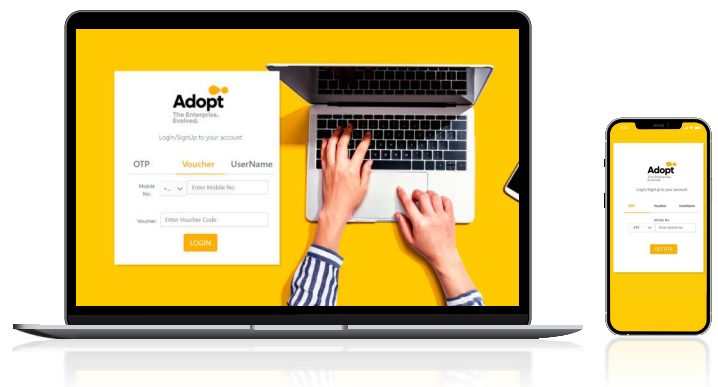
- › Customizable Open API support with Swagger to integrate with existing eco-system
- › Auto-synced System API
- › SOAP API Support
- › SOAP to REST Converter
- › Execute and Validate without any Tool
- › Reduce Vendor Conflict and Dependency

Captive Portal:

- › Responsive Framework
- › Template-based Portals
- › Easily Configurable Look & Feel
- › Inbuilt Flows like OTP, Voucher, Username / Password, etc.

Self Care Portal:

- › Responsive Framework
- › Customer Self Service Portal
- › Recharge/Renewal Support
- › Password Management
- › Quota Management



AdoptIWF

(Log Management)

Organize and Mediate

-  Any Device
-  Any Network
-  Any Vertical

To safeguard public/operator interests against threats of cybercrime, User activity, TRAI regulations recommend providers to granulate the information by location, time zone, APN for a prescribed period. Adopt IWF (Inter Working Function) is a fully automated software solution that offers telecom providers with a web-based system for lawful data traffic interception.



Log Management:

Adopt IWF is a fully automated, one click software application based solution, which collects, stores, correlates and analyzes large volume of network and security event logs for security, auditing and reporting purpose. Log information is immediately available for near real-time security investigations and incident response.

Key Features

Flexibility in Deployment Topology (Distributed/Centralized)

Collection

A log management tool that aggregates data from the OS, applications, servers, users, endpoints or any other relevant source within the organization.

Processing and Filtering

Enrichment and rejection is important aspect to keep control of data streams.

Distribution

It helps to send files to downstream or different systems in desired format and bring single point of contact for different downstream in expected formats.

Search Engine

A log management tool that helps the IT organization filter, sort, analyse or search data across all logs.

Advance Analytics

Log analysis tools that review the log collection from the log server to proactively identify bugs, security threats or other issues.

Alert Mechanism

Retention - A tool that designates how long log data should be retained within the log file.

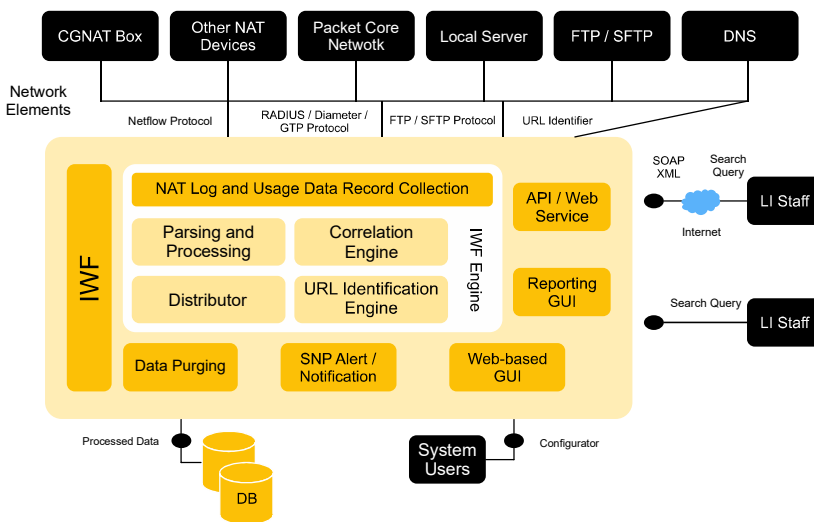
Monitoring

Log monitoring tool tracks events and activities as and when they occur.

Visualization

The visualizations flyout lets you select a visualization type and drag it and place it on the viz canvas where you would like it to be positioned.

Architecture Diagram



Key Use-Case

- › Feature real-time log analysis capabilities and alert functionality.
- › Reduced Mean Time To Acknowledgement (MTTA), a key metric for measuring the effectiveness of an incident response strategy
- › Efficient root cause analysis
- › Audit logging provides a way to evaluate user actions within an application

Carrier Grade Reliability and Proven Performance

Faster and more precise troubleshooting capabilities through advanced network analytics

Highly customized software application-based solution

Optimum and unified storage for huge data traffic supporting millions of PDP sessions



Provides capability to filter, analyze and generate reports based on log messages

Investigation teams and vigilance authorities can easily achieve complete information of users

Improved security through a reduced attack surface, real-time monitoring and improved detection and response times

Ease in operations - Reduced severity of business interruptions

Adopt HARDWARE

Helping to create the
world's most
Advanced Networks



AdoptOLT
AdoptONT
AdoptController



AdoptOLT:

OLT is the starting point for the passive optical network, which is connected to a core switch. The primary function of the OLT is to convert, frame, and transmit signals (data, voice, and video) for the PON network & coordinate the optical network terminals multiplexing for the shared transmission. The OLT connects metro network or from a long-haul network, with all the ONT access modules on the ODN.)

- › Support optical fiber link protection
- › Support optical link measurement and diagnosis
- › Support translation, transparent, QinQ and other VLAN modes
- › Support IGMP Proxy, Snooping
- › Support standard, extended and user-defined ACL, support 128-byte depth detection
- › Support DBA, traffic classification, priority and queue mapping, queue scheduling and congestion management



- › Support CTC controllable multicast, support IGMP v2/v3
- › Support ONT pre-authorization, pre-configuration
- › Support ONT business template, ONT batch upgrade
- › Support real-time alarm detection, performance monitoring
- › Support upstream and downstream encryption and FEC
- › Support CLI + Web management + NMS

AdoptONT:

ONU/ONT, is an end user device/termination equipment that converts optical signals transmitted via fiber to electrical signals and vice versa. ONTs are provisioned and managed by OLT for upstream & downstream communication.

- › Support PON, VoIP, CATV, Wi-Fi, USB integration
- › Plug and Play, integrated automatic detection, automatic configuration and automatic firmware upgrade technology
- › Integrated OMCI and TR-069 remote configuration and maintenance functions
- › Supports flexible QinQ VLAN, DHCP server/relay and IGMP/MLD multicast monitoring
- › Support optical path diagnostic monitoring, remotely disable optical path



- › Fully compatible with Huawei, ZTE, Richerlink, V-Sol, C-Data OLTs
- › Support for 802.11b/g/n/ac Wi-Fi (2T X 2R)
- › Support NAT, firewall function
- › Support for IPv4 and IPv6 dual stacks
- › POTS integrated circuit test conforms to GR-909
- › WAN port supports bridge, router and bridge/router hybrid mode

Simple and Quick Product Installations



Adopt products are designed for quick and effortless installation. It is designed to maximize efficiency for both the installers and end users, and helps in driving down the total cost of ownership (TCO).

Key Differentiation



On-ground Local Support

Adopt products and solutions are supported by strong on-ground intelligence and support pan India. Our network allows us to understand unground scenarios, regulations and the most efficient way to help you increase the success of your network.

Access Point



Indoor Access Point Wi-Fi 6

AD-API-644I 2976
4x4,802.11ax,1xGE Port

- > 802.11ax 4:4x4 MU MIMO, supporting upto 3Gbps data rate
- > Qualcomm Chipset
- > Concurrent Dual Band 2.4GHz & 5GHz
- > Support upto 32 ESSIDs (16+16)
- > Enterprise Grade Wireless Security
- > 802.3at Power over Ethernet (PoE)
- > 1x GELAN Port/ 1x 2.5GE Uplink Port



Indoor Access Point Wi-Fi 6

AD-API-622I 1774
2x2,802.11ax,2GE Port

- > 802.11ax 2:2x2 MU MIMO, Supporting upto 1.7Gbps data rate
- > Qualcomm Chipset
- > Concurrent Dual Band 2.4GHz & 5GHz
- > Support upto 32 ESSIDs (16+16)
- > Enterprise Grade Wireless Security
- > 802.3at Power over Ethernet (PoE)


Adopt
The Enterprise.
Evolved.

At Adopt, we are helping create the world's most advanced networks through AI, Wired & Wireless Networks, Connected Devices, Cloud & Data Analytics.

Our people and solutions are at the cutting edge of innovation, helping solve today's problems and anticipating future needs.

Our combined expertise coupled with a young dynamic team allows us to create continuous innovation that is designed, created and manufactured in India for a global marketplace.

Adopt solutions increase user experience, optimise operations and increase profitability by leveraging existing infrastructure and connecting to AI-based Cloud Controller over EDGE. Our solutions ensure that you are always ahead of the curve.

Corporate Office:
Adopt NetTech Pvt. Ltd.
A-11 Okhla Industrial Area,
Phase-I, New Delhi-110020

R&D Centre:
Unit No. OFFICE – 303,
Mondeal Height, S.G.Highway,
Near Wide Angle Cinema,
Ahmedabad, Gujarat

Mumbai Office:
503, Filix Tower,
LBS Marg, Opp. Asian Paints,
Bhandup (West),
Mumbai – 400078.

Business Enquiry: connect@adoptnet.tech

www.adoptnettech.com