



ENTROPY
TECHNOLOGY

MERGE

SERVICE DELIVERY PLATFORM

Merge is a flexible OSS/BSS platform to deliver fast, innovative and flexible services for broadband service providers. Manage, Maximize, and Monetize your network and reap from the multitude of benefits. Merge is composed of AAA, Policy Control, Captive Portal, Service Provisioning, Billing, Device Manager, Network Governance modules and more.



MANAGE

Take control of your network.

Merge provides a centralized profile and policy management. A feature-rich dashboard showcases pertinent information about your network. Customize the user experience by selecting from the available pre-defined templates or designing your own captive portal.



MAXIMIZE

Get the most out of your network.

Merge implements a rigid session management which supports a wide-range of servers. Allot either time-based or volume-based packages to the users. Configure and customize the user authentication methods and policies.



MONETIZE

Capitalize on your network.

Merge can help network providers build and implement billing and marketing strategies. Voucher-based and video playback user login can be implemented to directly generate revenue. Surveys, advertisements, videos and analytics can also serve as invaluable marketing information.

Merge is a flexible OSS/BSS platform to deliver fast, innovative and flexible services for broadband service providers. Merge is composed of several modules. Merge can make network management easier for providers by enabling them to maximize and monetize opportunities from it.

Product Features

Template Based Portal Types

Click through

- Terms and Conditions
- Form Type

Survey Questionnaire

SMS/Email Login

Username and Password

Voucher Login

Social Media Login

Video Playback

Custom HTML*

Dashboard and Reports

System Overview

Cluster Health

Subscriber Hits and Logins

Unique users

New vs. Returning users

Survey Results

Access Duration

Access Point Heatmap

Top User Uploads

Top User Downloads

Device Type and Device Vendor

Device Operating System

User Demographics

Passerby and Visitor Count

Implementation Type

Cloud-based

Server-based

Containerized

Software as a Service

Usage Type

Time-based Package

- Running Time

- Consumable Time

Volume-based Package

Voucher/PIN Based

Time-of-Day Packages

Authentication Protocols

PAP, CHAP, EAP TLS, EAP-SIM/AKA**

MAC based authentication

Voucher authentication

RadSec – secure, reliable RADIUS Proxy

Device Management

Device Auto-discovery

Zero-touch Provisioning

Fully TR-069 Compliant

Firmware Management

Issue Identification

Scheduled Mass Operations

Remote Troubleshooting

Device Fault Detection

Related Systems

Merge Billing

Merge Mobile Application

EAP-SIM/AKA Adapter**

CDR Adapter*

Standards Support

Authentication, Authorization and Accounting

RFC 2865 Remote Authentication Dial In User Service (RADIUS)
RFC 2866 RADIUS Accounting
RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support
RFC 2868 RADIUS Attributes for Tunnel Protocol Support
RFC 2869 RADIUS Extensions
RFC 2618 RADIUS Authentication Client MIB
RFC 3576 Dynamic Authorization Extensions to RADIUS

Diameter

RFC 3588 Diameter Base Protocol***
RFC 4006 Diameter Credit Control Application

SNMP

RADIUS Authentication Client MIB
RADIUS Authentication Server MIB
RADIUS Accounting Client MIB
RADIUS Accounting Server MIB

EAP

RFC 3748 Simple CHAP
RFC 2716 Transport Layer Security
RFC 4186 EAP Method for GSM for Mobile Communication Subscriber Identity Module (EAP-SIM)**
RFC 4187 Authentication and Key Agreement (EAP-AKA)**

Administration

Web-based Administration
Command line interface
API for OSS/BSS Integration

Software Components and Benefits

MergeLogic

Create custom rules and policies for pre and post authentication of subscribers. This enables network providers to provide flexible networks and service policies.

Integrated Portal, AAA and Policy Control

The integrated software lets the network providers to easily manage and monitor their network as well as define new services for faster time-to-market deployment. Control and manage user/subscriber status, session, profile packages, credits, and policies.

MergeUI

A powerful web interface that enables the network owners to create and configure the Portal / Landing page from pre-defined templates and customize the self-care portal for customers.

Access Agnostic

Designed to work across all devices and interoperates with a wide range of access points and gateways

Device Management

Carrier-grade device monitoring and auto-configuration solution designed to manage multi-vendor TR-069 compliant customer premise equipment.

Deployment Options

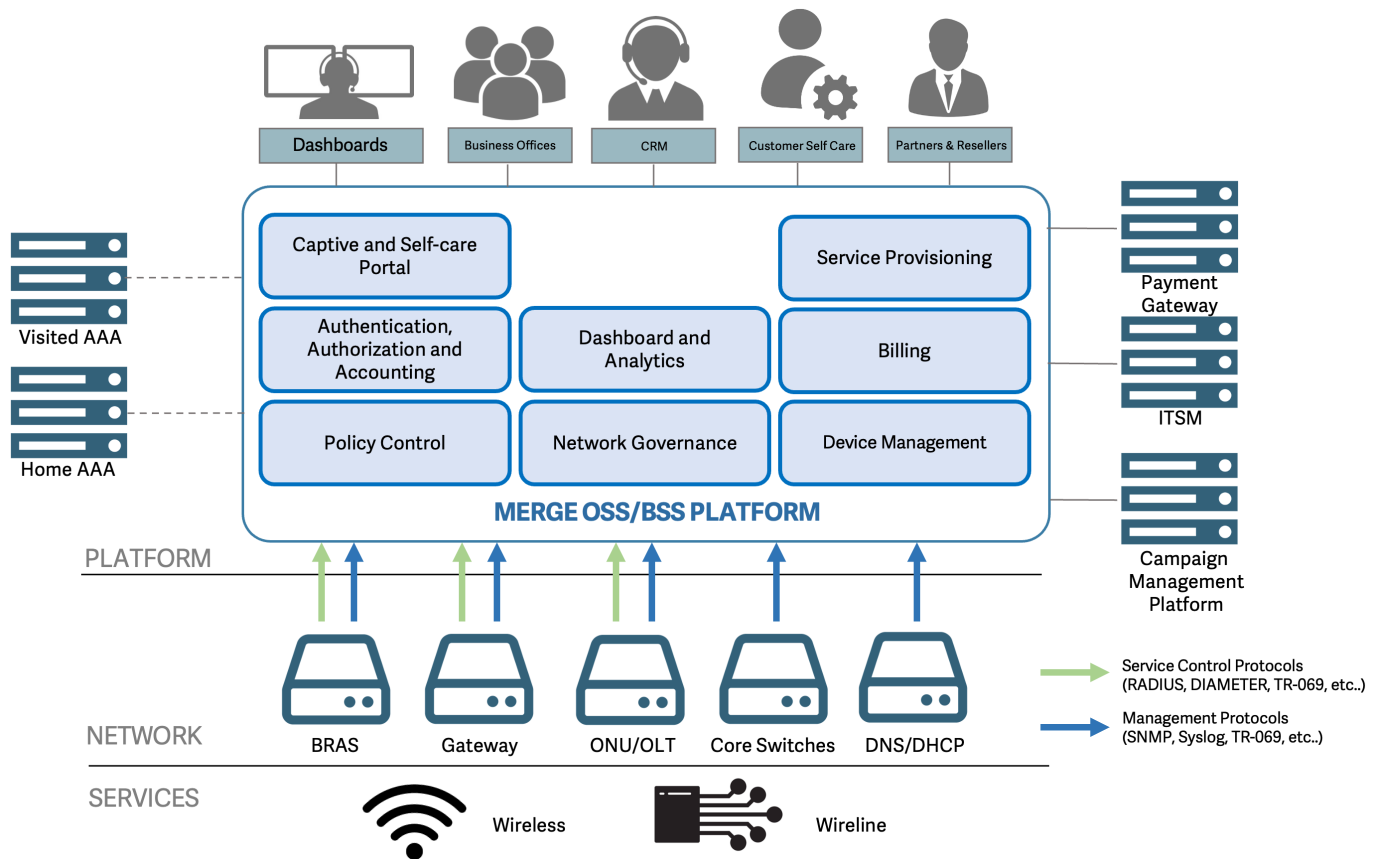
Implement software high-availability, database replication and software redundancy or as a Virtualized Network Function (VNF)

MergeCTRL

Network owners can use the self-care portal for different scenarios to enhance customer experience

- Bill Presentation and Settlement
- Customer Profile Management

Architecture



Access Points and Gateways

The following access point brands and gateways are tested and compatible with Merge for both wireless and wireline networks:

- Altai
- Aruba
- Antlabs
- Cisco Aeronet
- Cisco Meraki
- Cisco WLC
- D-Link
- Edge Core
- Engenius
- Extreme Networks
- Fortinet
- HP
- Huawei
- IgniteNet
- LigoWave
- Linksys
- Mikrotik
- Motorola
- Open Mesh
- Ruckus
- Ruijie
- TP-Link
- Ubiquiti
- Xirrus
- Zebra Networks
- Zyxel
- ZTE