



GRIDLOC

MAXIMIZED CONNECTIVITY, BOUNDLESS POSSIBILITIES

Manage, Maximize, and Monetize your network and reap from the multitude of benefits. Gridloc is composed of AAA, Policy Control, Captive Portal, Voucher Management and Billing modules. It can support telco service providers and enterprises to promote products and services via the customizable portal as well as control the usage of customers.



MANAGE

Take control of your network.

Gridloc provides a centralized profile and policy management. A feature-rich dashboard showcases pertinent information about your network. Customize the login type by using pre-defined templates.



MAXIMIZE

Get the most out of your network.

Gridloc 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 authentication methods and policies.



MONETIZE

Capitalize on your network.

Gridloc can help network providers build and implement billing and marketing strategies. Voucher-based user login can be implemented to directly generate revenue. Survey and analytics can serve as valuable marketing information sources.



AAA and Policy Control Product Data Sheet

Gridloc is a complete solution that allows network providers to provide a customized user experience by managing the portal, user authentication and policy control of the network. Gridloc can make network management easier for providers by enabling them to maximize and monetize opportunities from it.

Product Features

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
- Browser Used
- User Demographics
- Visited Websites
- Passerby and Visitor Count

Usage Type

- Time-based Package
 - Running Time
 - Consumable Time
- Volume-based Package
- Voucher/PIN Based
- Social Media Login

Fair Usage Policy Management

- Bandwidth Limit
- Volume Limit
- Time-of Day

Authentication Protocols

- PAP, CHAP, EAP TLS, EAP-SIM/AKA
- MAC based authentication
- SSO Authentication
- Public Key Infrastructure – Authorization and revocation of certificates
- RadSec – secure, reliable RADIUS Proxy

Implementation Type

- Cloud-based
- Server-based
- Software as a Service

Administration

- Web-based Administration
- Command line interface
- Helpdesk and Issue Ticketing
- API for OSS/BSS Integration

Related Systems

- Lighthouse Mobile Application
- Gridloc Billing
- Gridloc Captive Portal
- Gridloc Mobile Application
- Load Balancer
- Gridloc Database
- 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)

Software Components and Benefits

GridLogic™

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.

Access Agnostic

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

Subscriber and Session Management

Control and manage subscriber status, session, profile packages and credits

Deployment Options

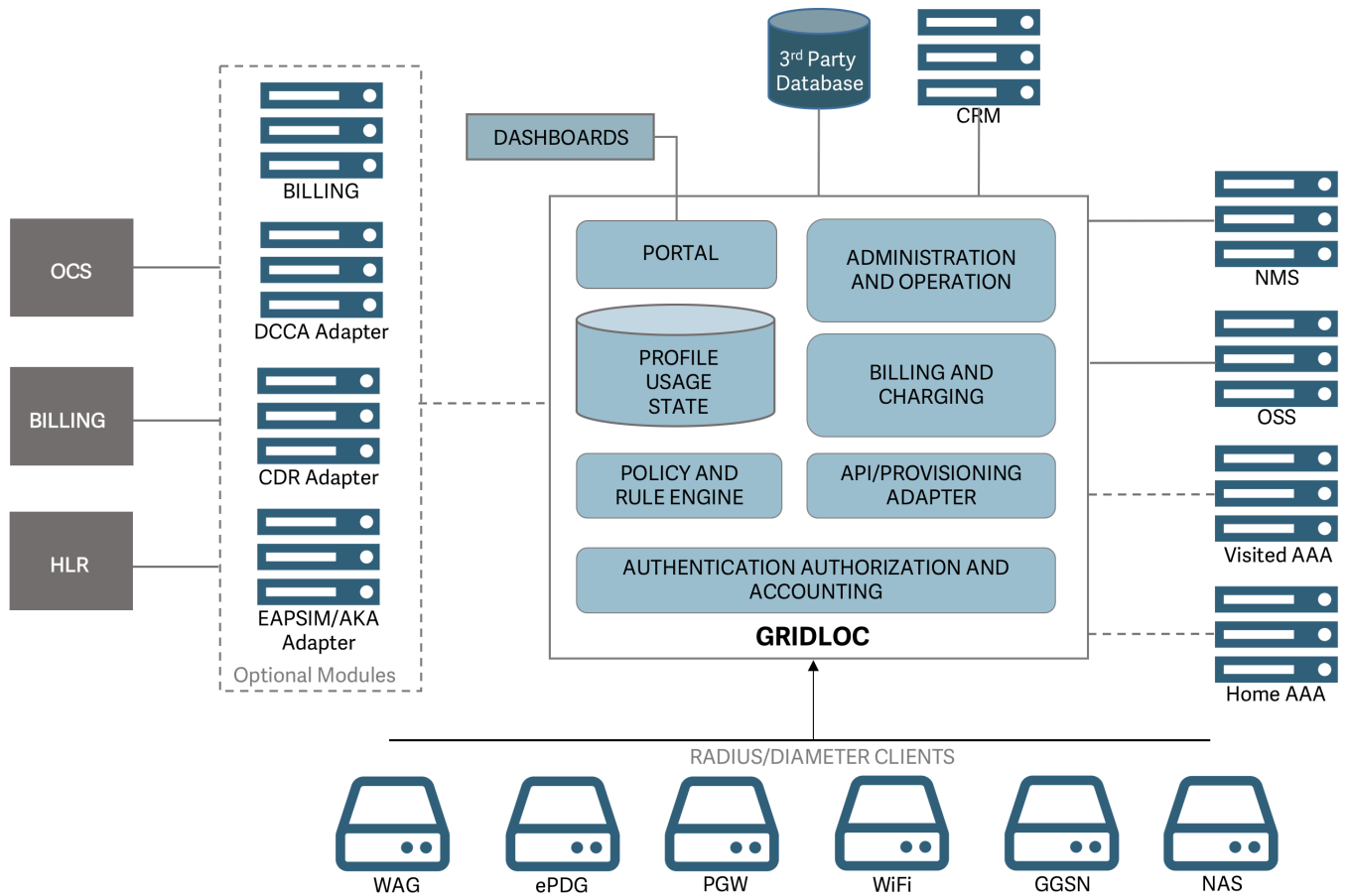
Implement software high-availability, database replication and software redundancy

Gridloc Supported Access

The following WiFi access point/controller/gateway brands are tested and compatible with Gridloc:

- Altai
- Aruba
- Cisco Aeronet
- Cisco Meraki
- Cisco WLC
- D-Link
- Extreme Networks
- HP
- Huawei
- IgniteNet
- LigoWave
- Linksys
- Mikrotik
- Motorola
- Open Mesh
- Ruckus
- TP-Link
- Ubiquiti
- Zebra Networks
- Zyxel

Architecture



System Specifications

Requirement	Minimum Configuration	Recommended Configuration
CPU	3.4 GHz, Dual-Core	2 x 2.6 GHz, Quad-Core
Memory	16GB RAM	64GB RAM
Internal Storage	250GB	1TB 10K SAS HDD
System Type	Intel® NUC Kit	PowerEdge R430 Server or equivalent
Operating System	Debian Linux, CENTOS 7	Red Hat Enterprise Linux 7
Network	1 x 10 MBPS Ethernet	4 x 10/100/1000 Mbps Ethernet