

Specifications

GATE Captive Portal

Key Characteristics

Carrier-Grade Platform

- High-availability 1+1 architecture with carrier-grade scalability
- Seamless integration with WAG/BNG for large-scale architectures

User Experience

- Fully customizable end-user experience and customer journey
- Responsive design optimized for mobile, tablet, and desktop devices
- Integrated advertising server capabilities

Access Control Features

Authentication Methods The captive portal supports multiple authentication options through a customizable landing/splash window:

- **Credential-based login** — Username/password validation against Service Provider database
- **Email/Mobile verification** — Real-time validation with email or mobile number
- **Social network integration** — Login through social media platforms
- **Soft-token authentication** — Token-based access control

Quality of Service (QoS) Profiling End-user QoS profiling with signaling to WiFi Controller or WAG/BNG systems:

- **Free access** — Time-limited with reduced speed/QoS parameters
- **Premium access** — Unlimited usage with higher speed/QoS allocation
- **Sponsored access** — Advertisement-supported connectivity

Additional Capabilities

- Payment gateway integration (Braintree and other providers)
- Self-managed and customizable HTML code for complete control over end-user experience

Integrated Ad Server

Campaign Management

- Complete ad server functionality with banner, video, and campaign inventory management
- Advanced campaign programming and enforcement tools

Targeting and Segmentation Rich segmentation capabilities based on login-generated metadata:

- Location, time, and date information
- Device specifications (type, brand, operating system)
- User demographics (gender, age, and other attributes)

Reporting and Analytics Comprehensive and customizable reporting for advertising campaigns:

- Activity tracking per campaign, banner, and video content
- Detailed breakdowns by location, time, date, device specifications, and user demographics

Reports and Analytics

Data Visualization

- Location and group-based reporting capabilities
- Interactive heatmaps for spatial analysis
- Historical data tracking for all captive portal and ad server metrics

Data Export Options

- One-click data export functionality
 - Multiple formats: live reports, CSV files, API integration, and other standard formats
-

GATE AAA Server

Key Characteristics

Enterprise-Grade Infrastructure

- Carrier-grade platform with high-availability 1+1 architecture
- Horizontal scalability through cloud-based architecture

- Integration capabilities with WAG/BNG for large-scale deployments

Protocol Compliance

- Full RADIUS RFC compliance ensuring industry standard compatibility
- Flexible VSA (Vendor-Specific Attributes) integration
- Service Provider database integration via RADIUS/LDAP or API

Database Integration

Scalable Database Architecture

- Database-driven configuration and subscriber record management
- Fully integrated database solution with optional external database support
- Multiple user provisioning methods: GUI interface, bulk provisioning, or external API

Advanced AAA Features

Proxy Capabilities

- Comprehensive proxy AAA support
- RADSec support (RFC 6614) enabling direct peering with third-party AAA systems

Configuration Management Easy and flexible configuration through graphical user interface:

- Scriptable Option 82 support
- Extensive manipulation capabilities for any RADIUS/VSA attributes

Reports and Analytics

Comprehensive Reporting

- Location and group-based analytical reports
- Interactive heatmaps for network usage visualization
- Historical data retention and analysis for all AAA metrics

Export Capabilities

- One-click data export functionality
 - Multiple output formats: live reports, CSV files, API integration, and additional standard formats
-

Further Reading

- [Overview](#)
 - [Architecture](#)
-

Revision #3

Created 2026-02-12 19:02:40 UTC by ipena@zequenze.com

Updated 2026-03-05 22:28:03 UTC by ipena@zequenze.com