

Specifications

Overview

CONTROL is a carrier-grade device management platform designed for service providers requiring comprehensive multi-vendor and multi-protocol device management capabilities.

Platform Characteristics

Carrier-Grade Architecture

- **Multi-protocol and multi-vendor support:** Enables management of diverse device ecosystems through multiple southbound protocols including TR-069, MQTT, SNMP, API, and CLI
- **Standards compliance:** Full adherence to Broadband Forum Device Management Specifications
 - [CPE WAN Management Protocol \(TR-069 Amendment 6\)](#)
- **Cloud-native design:** Horizontally scalable cloud-based architecture for enterprise-grade performance
- **OSS/BSS integration:** Seamless integration with Service Provider operational and business support systems through flexible APIs

Core Functionalities

Device Lifecycle Management

- Automated device onboarding
- Comprehensive firmware management
- Bulk provisioning capabilities

Configuration Management

- Device general information and configuration
- WAN technologies: LTE, GPON, Cable, DSL
- LAN and WiFi configuration
- CWMP protocol configuration
- Services configuration

- Configuration scripting and automation

Diagnostics and Troubleshooting

- TR-143 based device diagnostics
- Advanced CLI for technical troubleshooting
- Real-time device monitoring

Scalable Database Architecture

- Integrated database for high-scale deployments supporting millions of device records
- Native database integration with optional support for external database systems
- Multiple device provisioning methods:
 - Web-based GUI
 - Bulk provisioning
 - Auto-onboarding
 - External API integration

Flexible Management Interface

Dual Access Methods

- Intuitive web-based GUI for manual operations
- Comprehensive API for automation and integration

Role-Based Access Control

- Customizable privileges based on user and organization profiles
- Support for multiple user types: call center users, NOC operators, engineering staff

Reports and Analytics

Comprehensive Reporting

- Device-based reports
- Location and group-based analytics
- Interactive heatmaps

Data Analysis and Export

- Historical metrics tracking for any device parameter
- Multiple export formats: CSV, API, and more
- Custom reporting capabilities

Further Reading

- [What is CONTROL?](#)
 - [Architecture](#)
-

Revision #1

Created 2026-02-13 22:15:00 UTC by ipena@zequenze.com

Updated 2026-02-14 01:08:16 UTC by ipena@zequenze.com