

Platforms Overview

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Introduction

Service Providers and Enterprise are constantly looking to optimize their operational efficiency and to enrich their customers experience.

zequence solutions are being built in order to help Service Providers and Enterprises accomplish these goals by automating and simplifying their operation and management of large amount of devices (CPE, modems, routers, WiFi AP) as well as to provide insightful analytics on their utilization and performance.



Major tasks accomplished by zequence platform can be summarized as:

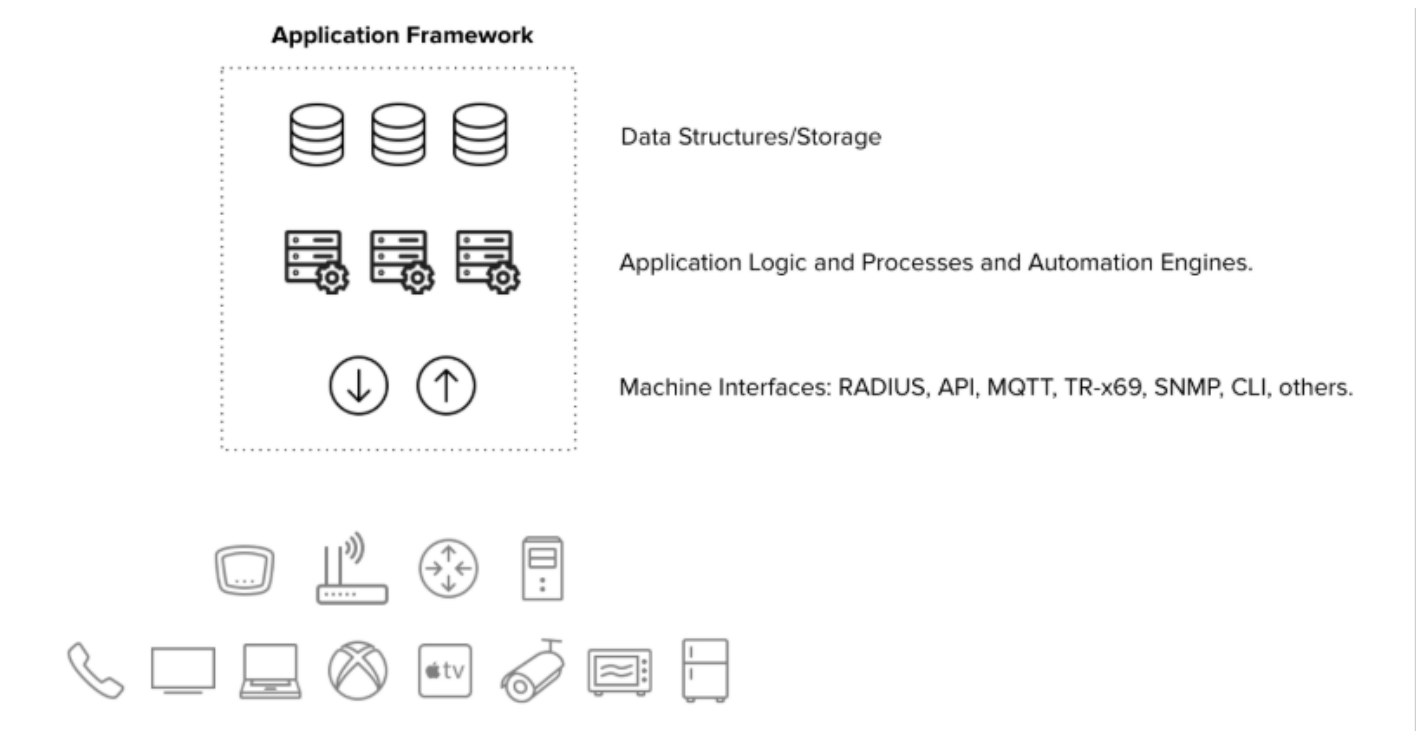
- **Configuration and Service Management:** which encompass device's onboarding, configuration management, services management, firmware management, etc. accomplished in a secure and automated fashion minimizing errors or human-driven mistakes.
- **Analytics:** referring to a wide set of statistics and analytics gathered from the devices and afterwards exposed either graphically and/or toward external systems through a flexible API.
- **Scripting:** based on information gathered from devices (analytics, configuration, others) zequence platform can process (analyze, correlate, etc.) and new configurations pushed to the devices in order to automatically achieve Service Providers requirements.

TBC

Architecture

zequence Platforms share the following framework architecture:

- **Machine Interfaces:** RADIUS, TR069, MQTT, Web Server, etc.
- **Application:** AAA, Captive Portal, Device Management, Service Management, Firmware Manager, among others.
- **Databases:** database for devices users/records, metrics, among others.



Each layer can be easily scaled horizontally depending on either traffic, activity or size requirements.

Further reading:

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

Specifications

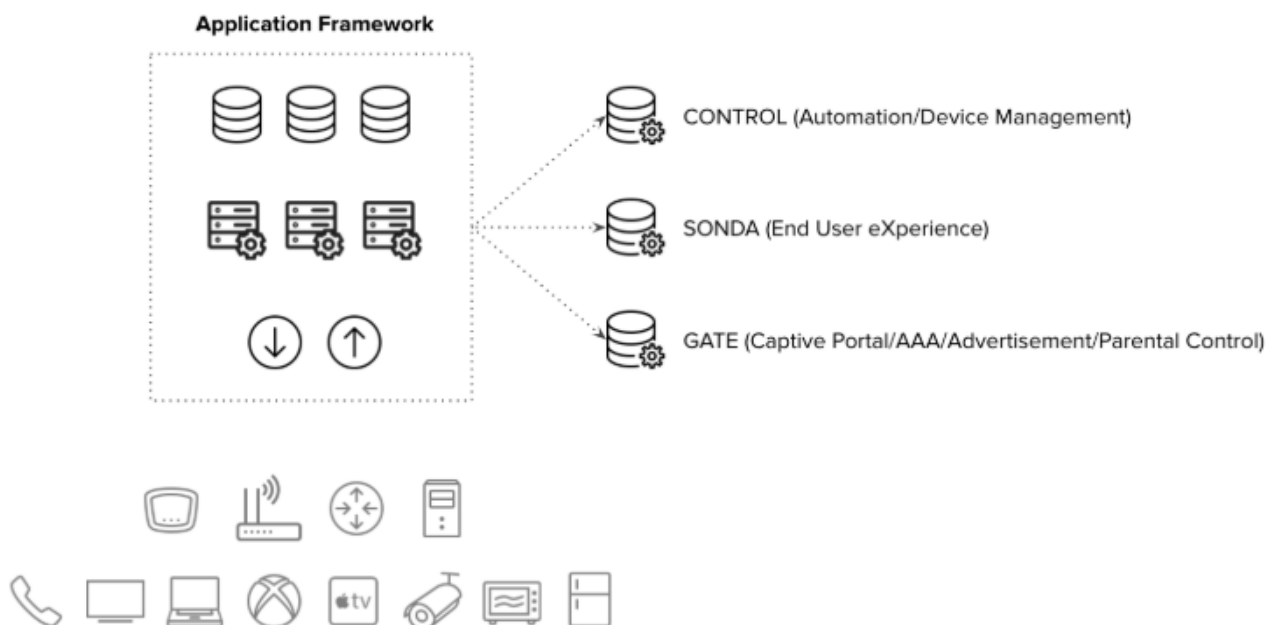
zequence Platforms Key Characteristics

- **Carrier-Grade platforms**

- Multiprotocol and Multivendor
 - 100% based on standard protocols and interfaces allowing interoperation with any standard-compliant platform.
- Cloud-based architecture with horizontal scalability.
 - Relying on industry-leaders cloud computing platforms (AWS, GCE), zequence platforms scales automatically when required.
- Integrates toward Service Provider OSS/BSS systems through an API.
 - A rich and flexible API allow smooth integration with a wide variety of platforms such as CRM, OSS, BSS, among many others.

- **Common Solution Framework**

- All zequence platforms run on the same solution framework, leveraging a consistent set of characteristics and features among all of them such:
 - Rich set of northbound (GUI/API) and southbound (RADIUS, API, webservice, TR069, SNMP, CLI, etc.) interfaces.
 - Scalable Application Engines.
 - Integrated DB for devices/users and metrics.



- **Easy/Flexible configuration & management through GUI/API**

- All configuration management can be performed through an intuitive Web-based GUI and/or API for automated processes.

- Customizable privileges for GUI/API access based in user/organization profiles (Call Center users, NOC operators, Engineering staff).

- **Extensive Reports & Analytics capabilities**

- Devices, Location/Group based reports.
- Heatmaps.
- Historical data on any Devices' metric.
- Data-export facilities (CSV, API, others).

Further reading:

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