

Ziwa

A Carrier-Grade Data Lake that Serves Applications with Subscriber Profile Data

About Ziwa

Ziwa is a service that allows external applications to access subscriber data at high-speed using industry-standard OpenAPI.

Subscriber data can come directly from the operator's provisioning system or other network record repositories (cached or looked up).

Ziwa ensures easy application development by purposely hiding mobile network complexities.

Subscriber Data Sources

Subscriber profile data can be provisioned onto Ziwa from the network's master provisioning system.

Applications that developers build can obtain the following kinds of subscriber data located on various network elements:

- **Subscriber Type:** Provisioned as postpaid, prepaid, or hybrid
- **RICA Status:** Provisioned
- **Charging System ID:** Provisioned
- **Subscriber Balance:** Sourced
- **IMSI:** Sourced
- **IMEI:** Sourced
- **Location Information:** Sourced

Functionality

- ✓ Enables operators and third parties to develop applications which use subscriber profile data.
- ✓ Provides carrier-grade stability and reliability.
- ✓ Supplies easy-to-use API functions.



Benefits

- ✓ Provides high-speed access to subscriber data.
- ✓ Supplies functionality with OpenAPI.
- ✓ Hides mobile network complexity.

Subscriber Preference Data

Ziwa enables operators to store customer-centric preference data that subscribers can provide via your self-care channels.

Here are some examples of subscriber preference data:

- **Preferred Language:** Such as, English, Zulu, Xhosa
- **Preferred Contact Method:** Such as,
 - Contact me during office hours only
 - Contact me by email only or phone only
- **Opt-Out Options:** Such as,
 - Opt out from premium-rated content charging
 - Opt out from receiving SMS marketing offers

- ✓ Provides multiple application query types.
- ✓ Caches data from previous queries (optionally).
- ✓ Deploys on bare-metal, virtual machine, or cloud.

Key Features

High-Speed Subscriber-Data Queries

- Enable applications to perform high-speed queries for subscriber data sourced from disparate systems, such as the network's charging systems, operator provisioning system, CRM system, and so on.
- Ziwa identifies which systems contain the data that service applications need to source.
- A single query can contain multiple values from different systems (provisioned, cached or lookup).

Application Types

Developers can build applications that:

- Provide subscriber data to network-owned apps, such as those used to provide subscriber self-care.
- Provide subscriber data and preferences to authorised third-party clients.

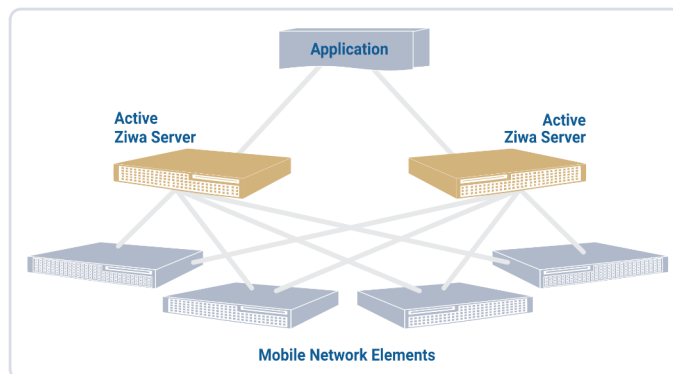
Subscriber Query Types

Ziwa can source subscriber data using the following types of application queries:

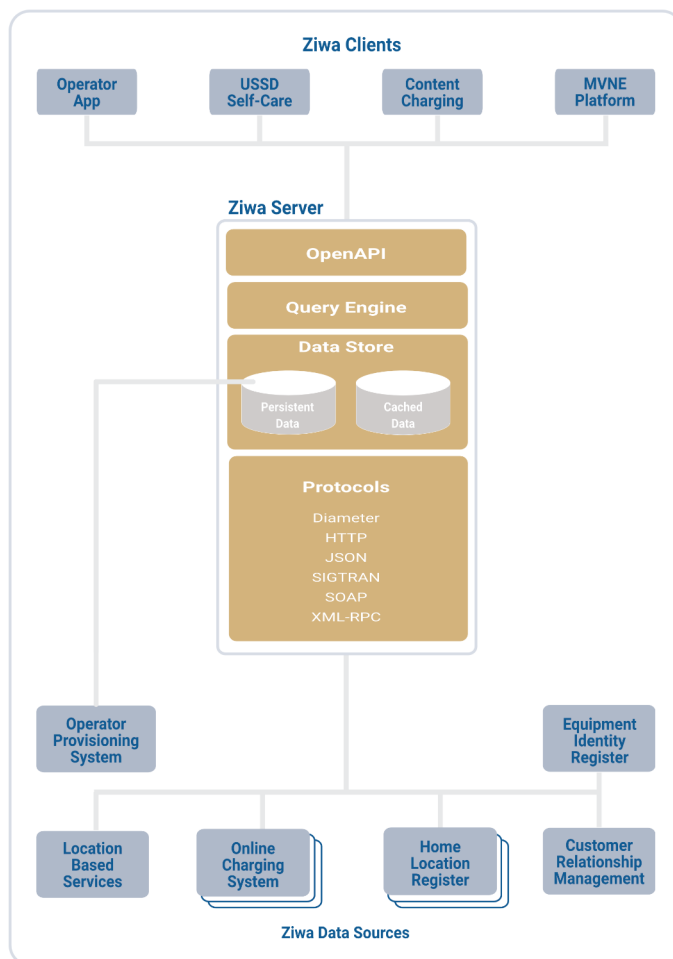
- **Provisioned Data**
- **Sourced Data:** Ziwa can return:
 - Cached data
 - Real-time data lookups

Platform

- Carrier-grade stability and 99.999% availability
- OpenAPI 3.0.3 web service
- Small 2U rack footprint per system node
- Real-time data lookups
- Active-Active redundancy
- Deploy the system on stand-alone servers or on virtual machines or private cloud



Ziwa System Redundancy



Ziwa System Architecture

Why Pharos?

Our formula for your success:

- ✓ We craft fully functional solutions to address technical challenges using people with deep knowledge of multiple technologies.
- ✓ We use our vast telecom expertise to distill complex requirements and technologies into effective solutions.

Telco Expertise

Since 1997, we have been actively engaged in the telecom industry, acquiring extensive expertise and knowledge in telco networks and technologies.

History Of Innovation

Our history reflects a strong record of delivering innovative solutions through our mature technology framework, custom-tailored to meet the specific needs of our customers.

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In-House Technology

We believe technology should support business needs. With a broad technology portfolio and industry experience, we craft solutions tailored to your requirements.