Network Positioning via Cloud API

Global positioning through Wi-Fi Access Points and Cell-ID locations

The Network Positioning service, part of the HERE Location Services, provides position information when GPS is not available. It leverages a global database of Cell IDs (GSM, WCDMA, TDSCDMA, LTE, CDMA) and Wi-Fi Access Points that a mobile client can detect to obtain a geographic position with a confidence radius. The Positioning service is always up-to-date with the latest changes in the wireless network infrastructure, as the database is continuously updated based on the data feedback from millions of devices around the world.

Feature Highlights

HERE Network Positioning maintains a database of more than 160M Cell-ID and 3.6B Wi-Fi Access Point locations, which is dynamically updated and populated by millions of devices around the world. It is easily accessible through a RESTful Positioning API of the HERE Platform. The Positioning API supports a large variety of device types, regardless of their operating system, as long as some network or cellular connectivity is available.
Network Positioning via API

How does the service work?

The Positioning REST API is easily accessible through the HERE developer portal and can be configured from either the Customer Cloud to the HERE Cloud, or directly from the customers’ device to the HERE Positioning Cloud. It enables any device or application to connect to the HERE Positioning Cloud and resolve the device’s current location based on cell or/and Wi-Fi measurements.

Cell/Wi-fi measurements (Lat, Long, radius) → HERE Platform

Cell/Wi-fi measurements (Customer’s service) → HERE Platform

Cell/Wi-fi measurements (Lat, Long, radius) → HERE Platform

Cell/Wi-fi measurements (Customer’s server) → HERE Platform

Feature List

- Wi-Fi based positioning
- Cell-ID based positioning
- Neighbour cell based positioning
- Supported Cellular Technologies: GSM, WCDMA, LTE, CDMA, TD-SCDMA (China)

Cell ID horizontal accuracy Typically 500-1500 meters accuracy with single cell ID 300-700 meters accuracy with neighbor cell IDs)

Wi-Fi horizontal accuracy (typically 30-50 meters)

About HERE Technologies

HERE, the Open Location Platform company, enables people, enterprises and cities to harness the power of location. By making sense of the world through the lens of location we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or an enterprise optimize its assets to guiding drivers to their destination safely. To learn more about HERE, including our new generation of cloud-based location platform services, visit 360.here.com and www.here.com

Want to talk? We do, too. Get in touch here.