

BRINGING A ROBUST, CLOUD-BASED SOLUTION TO THE WIRELESS HEALTH CARE INDUSTRY

The 2net™ Platform from Qualcomm Life offers a wireless health solution that can elegantly and reliably capture and deliver data to designated portals or databases from integrated wireless medical devices in a system designed for safety. It's a whole new way of connecting devices and liberating medical data so that it becomes ubiquitous across the continuum of care.

How Does the 2net Platform Work?

The 2net Platform makes it easy for medical device partners to untether data from their devices via a simple 3-step process:

- 1. Data Acquisition:** Data is obtained from a patient's medical device through several potential gateways, such as the FDA-listed 2net Hub, a mobile phone, a cellular-enabled device or a partner service platform. Qualcomm Life has pathways for each gateway to extract data from the device and input it into the 2net Platform's data center.
- 2. Data Transmission:** Once the data is acquired from the medical device, it is uploaded via 3G technology utilizing redundant, private connections between the wireless carriers and the 2net Platform's data center.
- 3. Data Storage/Access:** After the 2net Platform has received the information, patient data is transmitted to the manufacturers' interface of choice on behalf of the patient, physicians, payors, or other partners to access. The tools in our network operations center proactively monitor and manage the network to track data transfer, all in an environment designed for a high degree of security.

This triple encryption process leverages network operations, data centers and cloud services that allow devices to securely and reliably share data with approved healthcare providers, payors and patients designed to meet HIPAA security requirements for health information privacy. The 2net Platform and Hub support SSL secure communication of data and are FDA listed as a Class 1 Medical Device Data System (MDDS). The MDDS device was designed, developed and manufactured in accordance with a quality system compliant with ISO13485 standards, meaning it aligns with the quality requirements of U.S. and international regulatory agencies in the healthcare industry.

Connecting to the 2net Platform

The 2net Platform is designed as an end-to-end, technology-agnostic cloud-based service that interconnects medical devices so that information is easily accessible by device users and their healthcare providers and caregivers. With two-way connection capabilities and a broad spectrum of connection options, the 2net Platform supports four gateways that connect to the 2net Platform's data center:

- The 2net Hub - a standalone FDA-listed external device
- Medical devices with an embedded cellular component
- Medical data sent from mobile phones
- Service platform integration between the 2net Platform to customer service platforms using application programming interfaces (APIs)

Renowned Network Operations

The 2net Platform is managed and hosted by Qualcomm Life, Inc. in the U.S., per regulatory requirements. The 2net Platform is part of Qualcomm Incorporated's Network Operations Center (NOC), which has been managing mobile data for over 20 years.

- Qualcomm Life's parent company, Qualcomm Incorporated, is a premier enterprise data Mobile Virtual Network Operator (MVNO) operating 9 network operation centers and M2M service platform support operations in 40 countries on 4 continents.
- Qualcomm handles over 12 million data messages and transactions per day, and helps over 10,000 businesses manage millions of devices around the world.
- As a recognized pioneer and leader in wireless technology and chipset solutions, Qualcomm has a unique position with wireless operators and mobile phone manufacturers all around the world.

Unrivaled Services

- Secure protocol and messaging with the 2net Hub, system operations, administration and maintenance (OA&M), 2net Hub configuration and management, 2net Hub to device association and management and web-service and portal interfaces to display the medical device data.
- Cellular carrier services include 2net Hub activation and deactivation, provisioning, carrier billing, customer billing and fraud detection and SMS.
- Medical device data management including encrypted transport, storage and forwarding with optional warehousing data for future use by customer.
- Two-way communication including medical device data uploads to platform, and data packets/commands/messages downloads from the 2net Platform to a medical device.
- OTA software updates and agent management.
- Device management, version control, configuration management.

Secure and Robust

- AES encryption of data in transmission and rest
- Transmission via SSL/https
- Private Cellular Carrier Network (Private APN)
- Data centers compliant for PCI DSS and HIPAA Security Rule
- Off-site backup network operation centers designed for a high degree of security
- Planned Disaster Recovery Geo Separation