Customer

A multinational conglomerate with business focus in many industrial sectors and a healthcare industry leader.

Problem Statement/Requirements

Fully understanding the mission-critical nature of the time spent on getting the medical test results and diagnostic information from the patient and transmitting it to the right healthcare professionals, customer wanted to develop an IoT solution that can enable cloud connectivity to any medical devices that can enable the following:
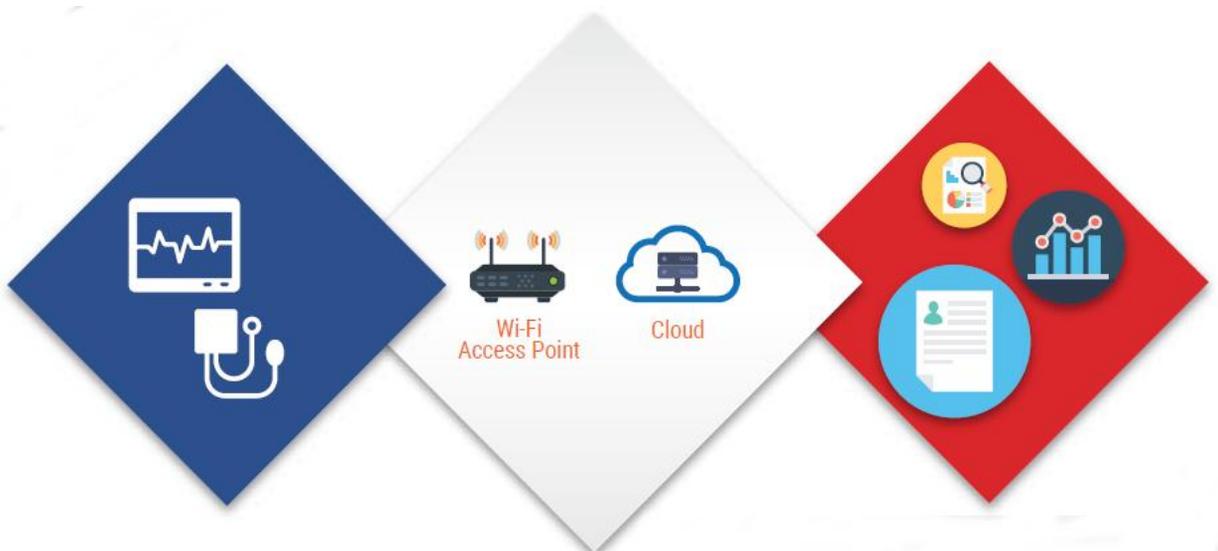Real time transmission of patient's medical profile along with diagnosis and related parameters from the devices directly to experts in real time
Enable physicians and patients to access this information, receive alerts and notifications anytime, anywhere.

Solution Methodology

SFO's connected health solution, is an ecosystem of medical devices, embedded sensors, communication module (gateway), data analytics and intuitive applications (for professionals as well as patients).

Connected health solutions are designed to transmit patient's medical profile along with diagnosis and related parameters from the devices directly to experts in real time. These data are aggregated and analyzed to form insights and help professionals to make informed decisions immediately. Mobile applications enable physicians and patients to access this information, receive alerts and notifications anytime, anywhere.

Brief description of product:

Solution Components

A. Gateway

- Processor Board:
    - ❖ MIPS Core (MIPS24KEc – 32 bit at 580 MHz clock) processor
    - ❖ 128 MB DDR2 RAM & 32 MB flash
    - ❖ Interfaces: I2C, I2S, SPI, UART, PWM, USB 2.0
    - ❖ Power: USB Micro B
    - ❖ Integrated FE Controller, supports 802.11 b/g/n software

Impact

a) Availability of trained experts from across the world – by making the medical test results accessible to any experts located anywhere in the world, connected medical solution enables patients to get quick and efficient diagnosis.
b) Faster response time
c) Convenience to Patients and healthcare professionals

About SFO

SFO Technologies Pvt Ltd, the flagship arm of the diversified conglomerate, the NeST Group provides end-to-end design-engineering-software-manufacturing solutions to clients across geographies such as the USA, Canada, Europe, Middle East, South East Asia, Japan, Australia, and India. SFO has invested in building competence, scale and standards compliant process framework, in PCBA, fibre optics, Cable & wire Harness, Magnetics, High Level Assembly, VLSI design, embedded software development, etc. SFO's capabilities transcend the plain vanilla "Build-to-Spec or Build-to-Print" EMS and our ODM+ solutions are rapidly re-defining standards for the OEMs across Aerospace & Defence, Communications, Transportation, Healthcare and Energy & Industrial domains. .

Contact: ✉ contact@sfotechnologies.net   ⊕ www.sfotechnologies.net

SFO Technologies Pvt. Ltd.
Plot No. 2, Cochin Special Economic Zone (CSEZ), Kakkanad, Kochi (Cochin) – 682 037, India. Tel: 0484 – 6614300