mHealth
Confidence Connected for Health, Wellness & Assisted Living
M2M Technologies for Health & Wellness

Most medical devices today work as individual units, monitoring one aspect of health for a specific purpose. Doctors and nurses spend precious time piecing together and analyzing disparate data for a complete picture of patient well-being. Fortunately, the healthcare industry has realized the promise of wireless machine-to-machine (M2M) communications to streamline monitoring and reporting to improve patient care. New mobile health (mHealth) and telemetry monitoring (telehealth) solutions use cellular M2M technology and web-based platforms to connect medical devices, aggregate health data and provide a true comprehensive look at patients’ well being. These new mHealth systems allow greater transparency and quick and easy access to medical data while maintaining very stringent requirements for security, safety, and patient-doctor confidentiality and privacy.

Cellular M2M is poised to transform the healthcare industry. mHealth technology is easy and cost effective to implement eliminating the need for expensive fixed line installation. It works out of the box, improves patients’ mobility.

Cinterion® Products & Services – Excellent, Secure, Highly Reliable

Gemalto M2M is at the forefront of the mHealth movement and has been a consistent M2M industry leader since its inception in 1995. Gemalto’s full spectrum M2M offering includes a range of advanced M2M wireless modules enabling reliable communications, ruggedized Machine Identification Modules™ (MIMs) for secure connectivity to mobile networks, flexible subscription management services, an enhanced cloud-based platform for application enablement and serves all medical industry requirements.

Gemalto M2M technology can be easily integrated to mobilize existing solutions. Scalable platform modules with M2M-optimized Java™ enable onboard processing and secure over-the-air updates. Cinterion-powered medical monitoring solutions allow complete mobility for patients and healthcare providers.

With Gemalto M2M technology, patient data is transmitted securely over wireless networks utilizing the latest encryption technologies and security mechanisms inherent in modern cellular networks. Cellular M2M has technology advantages over WiFi through the regulated frequency bands that reduce interference, built-in security and Quality of Service (QoS) inherent to the standards.

Gemalto’s market-proven M2M technology is reliable for seamless, always-on worldwide communications supporting truly global health care solutions. The company’s strong reputation for reliability is achieved through strict quality management and the highest manufacturing standards which include full traceability.
M2M Telemonitoring & Assisted Living

Gemalto M2M technology extends the reach of assisted living homecare systems to any location where cellular coverage is available. Inconspicuous, easy to use M2M telemonitoring devices utilize mobile, wireless sensors to remotely aggregate and communicate patients’ health parameters, whether at home or on the go. Assisted living devices can also offer behavioral monitoring and, when needed, automatically call for help in time, which allows for faster reaction times.

New Services & Business Models

Gemalto’s Cinterion modules, MIMs and services can provide solutions to the challenges faced by healthcare providers today and in the future. Optimized, integrated mobile care can help reducing costs through shorter hospital stays, increased productivity for medical staff and doctors while improving quality of medical services. With Gemalto as a technology partner, healthcare businesses can extend and enhance their range of services and increase benefits for end users. It’s clear that mHealth helps companies gain competitive advantages in this quickly evolving business landscape.

Chronic Care Management & Quality of Care

Today, chronic diseases such as diabetes, heart disease, hypertension, sleep apnea, pulmonary conditions and other recurring diseases top the list of health threats worldwide. The cost of managing chronic conditions such as these accounts for an estimated two-thirds of worldwide healthcare spending, a figure mHealth solutions aim to reduce. With Cinterion-enabled telemonitoring devices, a consulting physician can remotely monitor a patient’s health status and chronic condition in real time and immediately react in case of emergency — no matter if the patient is at home, on the bus, at the movies or anywhere in the course of daily life. A recent study by Philips found that consistent and real time oversight greatly improves ongoing treatment, keeps patients healthier and avoids expensive hospitalization.

Some benefit examples

- 89% of health agencies reported an increase in quality outcomes
- 76% cited reduction in unplanned hospitalizations
- 77% cited reduction in ER visits
- 76% reported patients improving self care by proactive disease management
Award-Winning Expertise

Gemalto M2M has been honored with many prestigious awards for industry-leading mHealth applications including:

- GSMA’s Best Embedded End-to-End Service Award (2010)
- Oracle’s Duke’s Choice Java Innovation Award (2010)
- Two Mobile Health Expo Awards for Best Mobile Healthcare Device (2010)
- Connected World’s Value Chain Awards (2011, 2012)

Gemalto M2M is an active member of the Continua Alliance, a coalition of the finest healthcare, technology and service provider companies around the world working together to further global interoperable personal health solutions and standards. In addition, Gemalto M2M is a regular contributor to the GSMA mHealth Working Group, which aims to catalyze the expansion of the global mHealth sector and a member of ETSI M2M Technical Committee.

About Gemalto

Gemalto (Euronext NL0000400653 GTO) is the world leader in digital security with 2011 annual revenues of €2 billion and more than 10,000 employees operating out of 74 offices and 14 Research & Development centers, located in 43 countries.

We are at the heart of the rapidly evolving digital society. Billions of people worldwide increasingly want the freedom to communicate, travel, shop, bank, entertain and work – anytime, everywhere – in ways that are enjoyable and safe. Gemalto delivers on their expanding needs for personal mobile services, payment security, authenticated cloud access, identity and privacy protection, eHealthcare and eGovernment efficiency, convenient ticketing and dependable machine-to-machine (M2M) applications.

Gemalto develops secure embedded software and secure products which we design and personalize. Our platforms and services manage these secure products, the confidential data they contain and the trusted end-user services they enable. Our innovations enable our clients to offer trusted and convenient digital services to billions of individuals.

Gemalto thrives with the growing number of people using its solutions to interact with the digital and wireless world.

For more information, please visit m2m.gemalto.com, www.facebook.com/gemalto, or Follow @gemaltom2m on twitter.

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