



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 patient 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 patient mobility.

Cinterion Products & Services – Excellent, Secure, Highly Reliable

Cinterion is at the forefront of the mHealth movement and has been a consistent M2M industry leader since its inception in 1995. Cinterion's broad portfolio includes GSM, GPRS, EDGE, UMTS and HSPA products and serves all medical industry requirements – from small form factor modules easily integrated in existing connected solutions, to scalable platform modules with M2M-optimized Java™ for onboard processing and secure over-the-air updates. Cinterion-powered medical monitoring solutions allow complete mobility for patients and healthcare providers.

With Cinterion 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.

Cinterion's market-proven 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

Cinterion's 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

mHealth and Cinterion modules 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 market leader Cinterion 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.

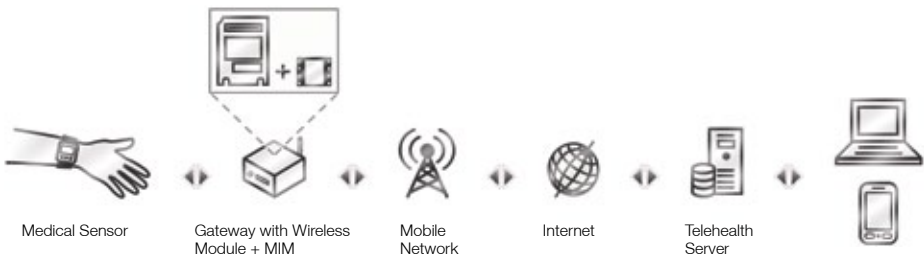
Some benefit examples

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



About Cinterion

A Machine-to-Machine (M2M) industry pioneer and market leader for more than 15 years, Cinterion gives customers the confidence to excel in a complex M2M ecosystem through the foundations of expertise, security, simplicity and partnership. Cinterion's award-winning products and services allow machines, equipment, vehicles and other assets to securely communicate over wireless networks, helping enterprises simplify operations, increase efficiency and establish new business models. Offering unique competence in combining wireless M2M modules with Machine Identity Modules (MIM), MIM personalization capabilities and device management platforms in a trusted and secure environment, Cinterion is a valued partner for equipment manufacturers, integrators, MNOs, and end-users. Cinterion products power M2M technology for diverse vertical markets including: automotive, tracking and tracing, industrial mobile computing, metering and smart grid, payment systems, healthcare, security systems, routers and gateways, remote maintenance and control and more.

Cinterion is part of the Gemalto Group (Euronext NL 0000400653 GTO), the world leader in digital security with revenues of €1.9 billion in 2010, and over 10 thousand employees operating out of 87 offices and 13 Research & Development centers in 45 countries.

Award-Winning Expertise

Cinterion 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 Award (2011)



Cinterion 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, Cinterion 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.

For more information, please visit www.cinterion.com, www.facebook.com/cinterion, or follow @cinterion on twitter.

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