



A connected wearable solution for proactive care

Mobile health – a cornerstone in the future of healthcare

The need for remote monitoring of health conditions such as diabetes, stroke, heart failure, arrhythmia, etc. is growing fast. Healthcare providers need reliable, cost-efficient and scalable solutions in order to continue delivering high quality care. End users expect services that are intuitive and easy to use – and that suit their technology comfort level and lifestyle.

Remote monitoring made easy

mSafety is a secure, reliable platform for mobile health solutions that retrieves and uploads patient status information from internal and external sensors. It combines a user-friendly wearable that collects and displays data with a secure back-end solution that keeps healthcare providers informed at all times.





The wearable device features built-in sensors for physical activity, heart rate, body effort and sleep patterns, as well as GPS for location information. Health data is uploaded automatically, with a seamless connection between in- and outdoors.

Communication with sensors and other external devices is handled via Bluetooth and NFC. Meanwhile, the solution supports end-to-end encryption of customer data. This means that no customer's application data, e.g. health data, is visible in the mSafety back-end.



Why mSafety?

Benefits for the end user

-  Long battery life, depending on use case designed by application
-  Easy to use - purpose-built application displays only relevant data
-  Global roaming profile and subscription handling - no need to pair with a phone
-  Water resistant wearable
-  Compared to wifi solution, works both in- and outdoors

Benefits for mHealth providers

-  Remote fleet management – fast and cost effective
-  Easy over-the-air software updates
-  Fully scalable and fast time-to-market
-  More insights, greater proactivity



Minimum intrusion, maximum benefit

You will use the mSafety platform to create customised applications, taking advantage of the Software Development Kit and the APIs Sony provides. The device fulfils requirements for medical hardware manufacturing according to ISO 13485 and QSR820. Partners are responsible for acquiring medical certification if it's needed.

mSafety is simpler and more convenient for end users than most consumer wearables. Sony ships it to you with the application pre-loaded and it connects automatically to the cloud, so all user have to do is wear it!



Sony wearable dataset

eUICC	LTE Cat-M connectivity, ready-to-use with global roaming profile (embedded Universal Integrated Circuit Card)
Size	53,2 x 45,0 x 12,75 mm
Weight	about 30g
Battery life	Approx. 5 days in a reference patient monitoring application (depending on usage and network conditions)
Water Resistant	IP68
User Interface	1.4 inch 160x160 pixel Monochrome OLED with touch + 3 HW keys
Built-In sensors	Accelerometer, GPS, Gyro, Heart Rate
Algorithms	Heart Rate Variability, VO2 max, Calories, Footsteps, Position, Sleep
Built-In vibrator	For notifications
Buzzer sound pressure	>79dB
Durability	Sony Global Quality standards for wearables in rough usage (i.a. drop, shock, vibration, thermal shock, extreme temperatures)
Cellular direct Cloud connection	LTE Cat-M1, rel13 Europe (B3, B8, B20, B28), Japan (B1, B8, B26), US (B4, B12, B13, B14)
Connectivity	Bluetooth Low Energy, GPS, LTE, NFC
GNSS	GLONASS/QZSS, GPS
Sensors connection	Medical and non medical partner network

mSafety from Sony is a secure, reliable communications platform for mHealth providers and safety services. It combines a convenient wearable device with a solid back-end solution that enables interaction between the wearable and Cloud back-end servers. Large device fleets are easy to manage thanks to over-the-air software updates and visibility of key data via dashboards. mSafety offers healthcare and safety organisations an overview of end user data – generating insights that help improve services and bring more benefits to the end user.

<https://sonynetworkcom.com/msafety/>