

Remote monitoring for workplace safety



Boost personal safety in hazardous environments

The demand for connected wearable devices is growing fast, and one key application area is high-risk working environments. Service providers want reliable, cost-efficient and scalable solutions. End users want unobtrusive devices that are intuitive and easy to use.

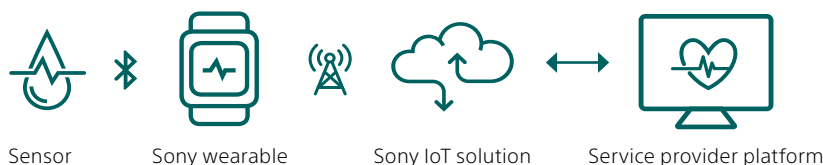
mSafety matches all these criteria. Using Sony's platform and wearable device (with your own embedded workplace safety application), OHS officers can gather key data on employee status and wellbeing, allowing them to respond quickly to early warning signs and prevent minor incidents becoming full-blown crises.

Reliable, secure platform






mSafety is a highly secure and reliable platform upon which to build mobile health & safety solutions. It combines a user-friendly wearable device with a secure back-end solution and a practical framework for device management. No application data is visible or stored in the mSafety back-end so service providers have full control over - and ownership of - their users' health data.

Connected wearable device






The wearable itself features in-device sensors for physical activity, heart rate and body effort, as well as GPS for location information. Sensor data is uploaded automatically, with seamless connectivity between in- and outdoors. The device is power-efficient and does not require pairing with a smartphone. Thanks to bi-directional communication, alerts can travel both ways.



Benefits for safety providers

-  Unique B2B platform allows customisable app design
-  Device shipped with your application pre-loaded
-  Easy remote fleet management and FOTA enabled updates
-  Root-of-trust platform supports end-to-end-encryption and ownership of data
-  Time-to-market

Benefits for the end user

-  Long battery life, depending on use case designed by application
-  Automatic connectivity, global roaming profile and subscription handling. No need to pair with a phone
-  No complex set-up - works directly out of the box
-  Purpose-built with easy-to-read screen, showing only relevant data
-  Durable and water resistant IP68



More insights, greater proactivity

You will use the mSafety platform to create customised applications, taking advantage of the Software Development Kit and the APIs Sony provides. This speeds up time to market and lets you take advantage of new business opportunities ahead of your competitors.

Over time, you can leverage data from the wearable and combine it with data from sensors and mobile apps, to deliver relevant, aggregated information. This enables greater proactivity, improved services and increased operational efficiency.

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.



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. 3 days in a tracking reference use case (depending on 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, GPS
Sensors connection	Medical and non medical partner network