

BodyTrace eScale

Description of solution

BodyTrace have created a connected weight scale that automatically sends the user's weight measurements to the BodyTrace website, where it is displayed in colourful, interactive charts. The online user interface also allows users to keep a food diary to track their nutrition intake. Using this information the system generates personalized recommendations to users, helping them achieve their personal weight goals.

The system is also deployed as a weight monitoring tool for pre-diabetes care and is being evaluated to help monitor congestive heart failure patients. The backend allows for simple integration with third party systems, letting incoming data flow to partner companies in real-time.

Benefits of the solution

The solution makes it very simple to track a person's weight. This, combined with the engaging online service, is a great tool for personal weight management. The simplicity of the device also allows medical professionals and researchers to gather and analyse data with unprecedented accuracy, without requiring the user to do anything out of the ordinary. All the user has to do is hop on the scale for a few seconds and everything else happens automatically.

The use of GSM technology embedded in the device allows devices to be remotely provisioned,



so they are ready for use when the user receives them. This eliminates the often complicated setup or pairing procedures that other existing technologies require. This simplicity is not only good for the user, but also reduces support costs considerably.

Core technologies and standards

Weight measurements are transmitted over the public Internet in encrypted UDP packets to the back-end system. For connectivity, the scale currently uses the GPRS network, however any packet-switched carrier technology

(EDGE, 3G etc.) can be used. The device operates from 6 AA batteries. The average lifetime of the batteries is 8-12 months, under typical conditions.

Interoperability and scalability

For maximum compatibility with existing networks, current models use GPRS for connectivity, however the technology can be easily evolved to the next-generation of networks with a drop-in module replacement.



Timescales and success to date

BodyTrace was founded in 2007 and the eScale was introduced to the market in 2009.

The product has been deployed both in Europe and in the US. BodyTrace is actively participating in pilots by cellular carriers, preventive care organizations and insurance companies. Our solution is being used for multiple weight related studies and is an integral part of multiple remote-monitoring solutions.

In the fitness space, we have partnered with over 30 companies who currently offer our device integrated with their services.

Testing and Certification

BodyTrace products are subject to rigorous testing in multiple stages of the manufacturing process.

Units are also tested and activated before being shipped to the customer. The eScale has both CE and FCC approvals.

Business Processes

Devices are provisioned before shipping, so they work out of the box. No setup, pairing or configuration is necessary from the user. Roaming can be activated on a per device basis or a local SIM can be inserted into the device for larger scale deployments. This can also be part of the provisioning process upon customer request.

Security is provided by strong encryption algorithms and unique keys for each device. Furthermore, no personal information is transmitted over the air, only the scale's identifier.

Business model

BodyTrace offer their product to customers directly through their own and their partners' websites. Bundled solutions are also available from their partners that include the scales as part of their services.



Embedded
Mobile

Overview of companies

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