

Eversense[®]



Senseonics

Implant connectivity for Senseonics

Eversense is the world's only long-term CGM system that allows users to actively manage diabetes simply and with confidence. Eversense provides continuous blood glucose monitoring for up to 90 days via an under-the-skin sensor, a removable and rechargeable smart transmitter, and a convenient app for real-time diabetes monitoring and management.

Expertise

- iOS design rules
- Medical device usability standards
- Software programming
- User Interface design
- Low energy connectivity
- Data analytics

Domain knowledge

- Medical device regulation
- Digital health devices
- Patient monitoring
- Implantable sensors





Our client asked:

Senseonics partnered with Sagentia Innovation to resolve iOS Bluetooth low energy connectivity issues for Senseonics' medical iOS app with an implanted glucose sensor. The goal of the project was to improve connectivity between the app and the implantable sensor.

The project story:

Working in partnership with our client, we analysed the existing app and transmitter firmware to identify and resolve the origin of connection dropouts and low data rates. Our software and usability engineers provided possible solutions for UI improvements encompassing iOS design rules and medical device usability standards. We then contributed to the existing documentation required to be compliant with the Senseonics quality & regulatory standards.

www.senseonics.com

Contact us

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Results: deliverables and outcomes

- The final system was delivered in time for a clinical trial of the first-generation product
- The connectivity and bandwidth issues were resolved by the implementation of changes in the app and the transmitter firmware
- A fast and reliable communication was enabled between the app and the embedded device, yielding a 10x bandwidth improvement
- Eversense users can reliably look at their app and move on with their treatment decisions – providing them more information and flexibility throughout the day
- In 2018 Eversense won the Popular Science's 2018 "Best of What's New" Award in the Health category
- The product was launched in the US in 2019

“Sagentia Innovation provided tremendous value in the implementation of the novel Bluetooth Low Energy Technology utilised in Senseonics Medical App. Sagentia Innovation offered to bring in the subject matter expert to meet the company’s aggressive timeline & partnered effectively with a start-up medical device company like ours.”

Tim Goodnow, CEO, Senseonics