

Building a global cloud platform for dentistry

Building a global cloud platform for dentistry In collaboration with Dentsply Sirona, the software engineering company freiheit.com built a key component of the platform DS Core that enables dentists and laboratories to upload, visualize, share and store patient data directly in the cloud.

The challenge

Integration of all data and systems on a clinical cloud platform that enables secure real-time data sharing between dentists and laboratories: 1.Smooth and cost-effective 3D rendering experience of intraoral scans. 2.Connection of legacy systems to the cloud to provide seamless workflows. 3.Enablement of a continuous addition of clinical applications for different devices to the platform DS Core.

The solution

Dentsply Sirona and freiheit.com developed a cloud 3D render engine that leverages Google Cloud's high-end graphics cards for resource-intensive computations, streaming results to the user's browser for real-time interaction. They built a platform for sharing and storing data securely and efficiently using Google's Managed Cloud infrastructure.

The result

Dentists can automatically upload 2D and 3D X-ray scans from Dentsply Sirona devices to DS Core, and manually add third-party scans. - Data is stored in the cloud, accessible from anywhere via a web browser, enabling seamless sharing. Fast implementation of new dental applications. DSCore is available in 21 countries across 5 continents and offers efficient workflows in an all-in-one platform.

“ freiheit.com provided excellent support by providing cloud software expertise. **”**

Manfred Müller, Vice President Software Engineering & UX



About Dentsply Sirona

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with over a century of innovation and service to the dental industry and patients worldwide. Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better and safer dental care.

Vertical/horizontal solution:
Healthcare & Life Sciences

Primary project location:
Switzerland



About freiheit.com technologies gmbh

freiheit.com builds large-scale software projects across markets and verticals, from ecommerce to healthcare.



Products

Google Cloud Platform