



Mobile App Soft Control via WiFi for Proprietary Hardware

Seamless Setup and Real-Time Operation

About the client

Utah Scientific was the first to offer a large-scale digital router and pioneered many features that are now standard. Products include digital routing switchers for 4K/3G/HD/SD/AES/MADI signals, master control switchers, distribution amplifiers, fiber transmission products, and branding & graphics products. Customers include corporate and broadcast operations worldwide. Their routers are the most energy-efficient on the market and offer the industry's widest range of control panels. delaplex has been a technology partner over 6 years with the client on multiple products.

Client need

Utah Scientific's proprietary hardware, running on Linux, needed the ability to setup and operate soft control panels easily via popular consumer mobile devices. Wi-Fi connectivity for an app with an intuitive interface to configure, monitor, and operate an installed individual or enterprise router system.

Product challenges

Designing a modern user experience to connect with legacy hardware while providing real-time performance on a mobile device. Extensive system regression testing and systemic QA testing to ensure zero-delay functions executed on multiple devices when sending corresponding RCP3 Protocol packets through IP sockets.

The delaplex solution

delaplex delivered a highly responsive solution that focuses on a better user experience for remotely controlling proprietary hardware. Wi-Fi connectivity best practice was implemented and virtually eliminates confusing setup and connection failures for complicated equipment. The cross-platform mobile app gives operators real-time status of their entire system, predicts conflicts, and allows quick action to be taken in the event of a failure. A suite of alarms for hardware failures are displayed for engineers with graphical views of the devices make system-wide management extremely simple.

“ They are a reliable and trusted partner

“delaNex provided us a great way to add new control options for our customers by translating our requirements to iOS and Android. The apps ensure Utah Scientific’s position as a customer driven, industry leading organization.”

John Schilberg, Director of Product Development
Utah Scientific, Inc.

How we did it

Agile methodologies were implemented to create a seamless process from start to finish. This allowed delaNex and the client to keep the project on task and on schedule through the design, implementation, and QA stages of the project.

— Mobile Development

Developed native applications using Java for Android and Objective-C for iOS

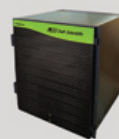
— UI/UX Design

Adobe XD used for prototyping and wireframing mobile screens

— Digital Router APIs

Utah Scientific RCP3 TCP/IP Protocol

Core stack



delaNex is a global software development and business solutions provider helping companies drive growth, revenue and marketplace value. Our innovative business methodology has built an unmatched reputation of bringing an alliance of collaborative industry experts, across industries and skillsets, to clients anywhere around the world.