

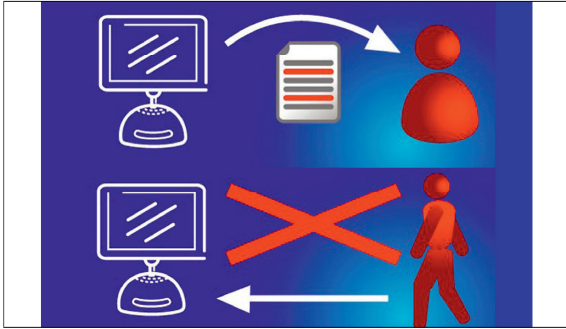


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Subject Area	Software
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USTER Mobile Alerts

A feasibility study

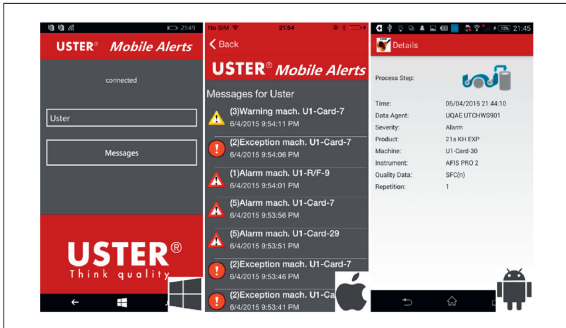


The principle of «the data going to the user»

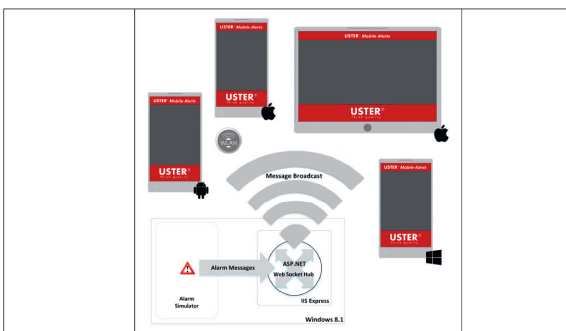
Introduction: In modern yarn spinning mills there is a need for sophisticated production information management and decision support tools. USTER Technologies AG is a global technology company that develops and sells software products targeting quality management throughout the entire yarn manufacturing process. Software currently under development has the goal of changing the classic principle of “the user going to the PC”, to a more modern principle of “the data going to the user”.

Approach/Technologies: A convenient and contemporary approach to provide users with relevant information in real-time is to display it on their smartphone or tablet computer. Until now, USTER has not developed any software for mobile devices, nor has the company any experience with the currently available technologies for mobile cross-platform development. The aim of this study is to assess whether it is worthwhile for USTER to develop competencies in mobile app development. In doing so, answers to the following questions will be sought: “What is a good way to start?”, “What are the risks?” and “What are the decision criteria?”

Result: This feasibility study answers the above questions and provides an important element of the decision for a potential entry into mobile app development at USTER. Furthermore, it provides developers at USTER with useful information on getting started. A suitable technology for mobile cross-platform development at USTER is Xamarin.Forms. The USTER Mobile Alerts System developed is a demonstration and proof of feasibility of this technology. Specially developed simulation software generates quality alarms, and an app running on a mobile device receives these alarms and alerts the user. The USTER Mobile Alerts App can run on all common mobile platforms including Android, iOS and Windows Phone. The app features a minimal user-friendly UI design that complies with USTER’s own style guide.



Screen shots of the start screen of the app, the list of quality alarms and the detail page for an alarm



An overview of the experimental USTER Mobile Alerts System