

STATPack™ Mobile System

The STATPack™ is an Emergency Response System that enables hospitals and diagnostic laboratories to send digital images of suspicious or unknown organisms electronically to a state public health laboratory for consultation. STATPack™ reduces diagnostic time and eliminates the inherent risks of having the sample hand-delivered by courier to the hub laboratory.

STATPack™ Mobile is designed to expedite consultations process between medical experts in pathology, microbiology and epidemiology at the state public health laboratories and front-line laboratorians. This research identifies and summarizes the key design strategies that was selectively implement in our e-health mobile application.



1
Login Screen provides the user an option to key in the log in credentials to access STATPACK Mobile



2
List of new messages are displayed.



3
Priority/Subject Screen displays the list of messages with the priority and subject.



4
The image of Yersinia bacteria was taken using the STATPack. It shows a gram negative rod with positive catalase and negative oxidase on a blood agar media after 24 hours growth.

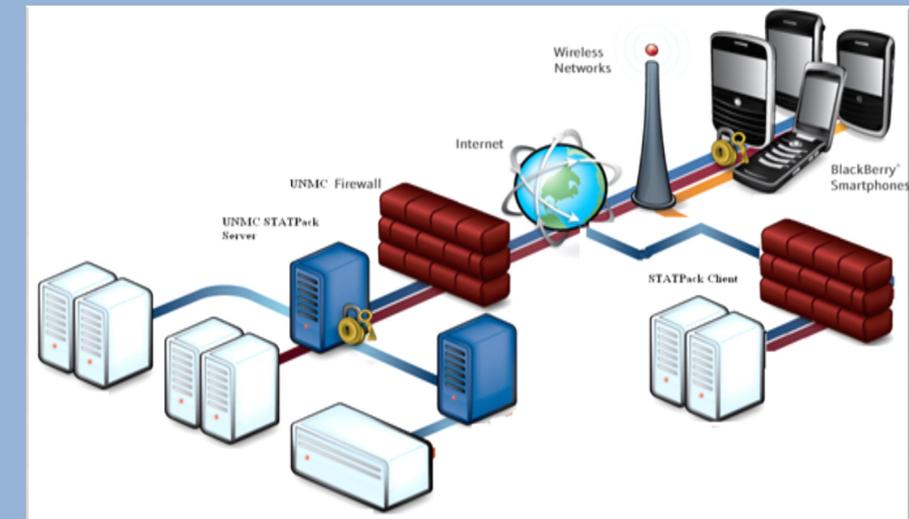


5
The system transmits secure messages to state health lab server



6
The user is notified about the sent message status.

STATPack™ Mobile Architecture



STATPack™ Mobile uses thin client architecture. STATPack™ clients electronically send macroscopic (gross) as well as microscopic digital images of clinical specimens to the public health laboratories. Public health experts use STATPack™ Mobile to access the sent information. They can analyze the culture samples and quickly provide feedback to the clinical laboratories through a secured network. STATPack™ Mobile provides convenience and accessibility to the medical experts and drastically reduces the response time when they are away from the regular desktop system.

STATPack™ Mobile Tools

BlackBerry JDE 4.5.0

The BlackBerry® Java® Development Environment (BlackBerry JDE), Blackberry Smartphone simulators, MySQL, Apache

Technology

HTML, PHP, JavaScript

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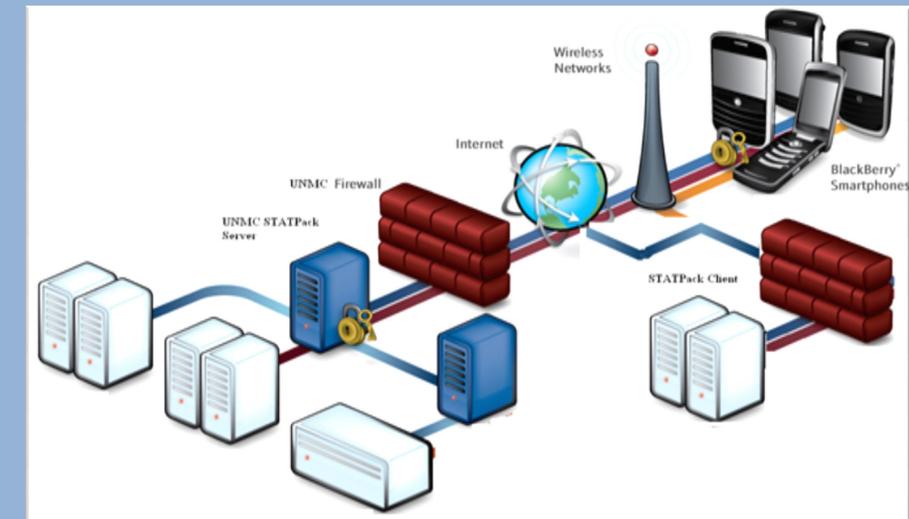


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