

# The Next Generation of Electronic Laboratory Diagnostics and Consultation

## STATPack™

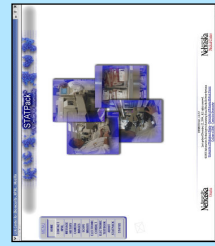
A.L. Fruhling<sup>1</sup>, M.L. Lund, D.J. Rowland, R.K. Noef, B.K. Schweitzer<sup>2</sup>, M.W. Puumala<sup>1</sup>, K.M. Weiss<sup>1</sup>, A.R. Sambol<sup>2</sup>, S.H. Hinrichs<sup>2</sup>

<sup>1</sup> College of Information Science & Technology, University of Nebraska at Omaha, Omaha, NE, <sup>2</sup> Nebraska Public Health Laboratory, University of Nebraska Medical Center, Omaha, NE.

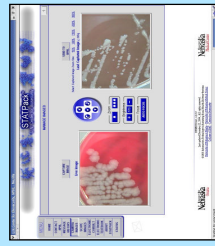
STATPack (Secure Telecommunications Application Terminal Package) is a remote laboratory consultation system. The intent of the STATPack™ system is to help clinical laboratories throughout greater Nebraska become more prepared for a bioterrorism event of public health emergency by having a direct consultation link to the Nebraska Public Health Laboratory (NPHL) located at the University of Nebraska Medical Center in Omaha, Nebraska.



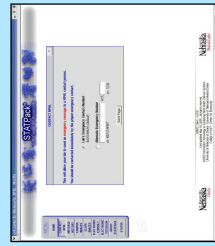
The system architecture operates in a geographically distributed environment connecting clinical health laboratories using encryption and restricted access controls. This connectivity allows for secured immediate communication and laboratory consultation by transmitting images and text.



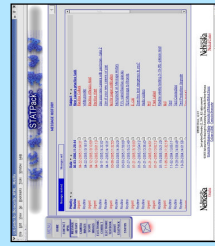
The STATPack system represents an application of the Client/Server computing model. This is the home page of the Client.



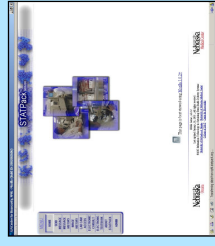
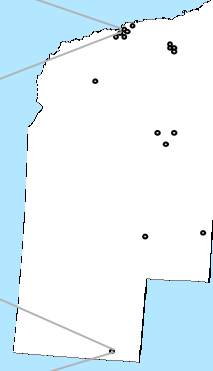
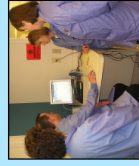
Laboratory images are captured using a microscope or digital camera. The image is securely transmitted to NPHL with a description.



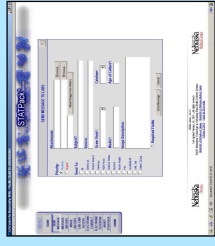
Emergency messages are transmitted to NPHL from any lab in the system.



The Message History provides an archive of sent and received messages.



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The system transmits secure messages from NPHL to labs statewide. Also, it will provide notification with attached digital images.



An inventory of images from each lab are stored for future reference.



Remote access to laboratory cameras allow NPHL to view specimens real-time.

### Nebraska STATPack™ System