



U.S. Department of Justice

Federal Bureau of Investigation

Clarksburg, WV 26306

April 18, 2012

Dale Remmers
Mentalix, Inc.
1255 W 15th Street, Suite 370
Plano, TX 75075

Dear Mr. Remmers:

The Federal Bureau of Investigation (FBI) Criminal Justice Information Services (CJIS) Division and the National Institute of Standards and Technology (NIST) have completed a review of the testing information submitted by Mentalix, Inc. The NIST performed a complete analysis of the Wavelet Scalar Quantization (WSQ) Implementation.

WSQ Implementation Number: 53025

Platform: Suse Linux Enterprise 11; HP Compaq (dc7100 CMT), Intel Pentium 4 @ 3 GHz;
gcc 4.3.4; Software version ID: Fast WSQ 3.1

Criteria: 500ppi grayscale image, 8 bits per pixel, at 5:1 and 15:1 target compression ratios

Based on the results of the NIST review, the FBI certifies that the Mentalix, Inc. implementation tested and identified above meets the accuracy requirements in the WSQ Gray-Scale Fingerprint Image Compression Specification, Version 3.1. This Algorithm is the standard for the exchange of 8-bit, 500ppi fingerprint images within the criminal justice community. Please note that within the frame header of the compressed image, the software implementation value (Sf) will be recorded as 53025 and the WSQ encoder algorithm (parameterization) value (Ev) will be set as 2. The certification process is not intended to endorse one implementation over another, but merely to certify that the implementation meets FBI standard.

With regard to this certification, you may include the following statement in informational materials about this product: The FBI has certified that this implementation meets the accuracy requirements in the Wavelet Scalar Quantization (WSQ) Gray-Scale Fingerprint Image Compression Specification, Version 3.1. You may not use the name or initials of the FBI otherwise in any manner governed by Title 18 U.S. Code, Section 709, unless specifically authorized to do so. This letter does not authorize you to use the FBI's official seal for any purpose.

Please direct any questions regarding this certification to Mr. Nicky J. Megna at (304) 625-2767.

Sincerely yours,

Jerome M. Pender
Deputy Assistant Director
Information Services Branch
Criminal Justice Information Services Division