



United States Department of Justice  
Federal Bureau of Investigation

Clarksburg, WV 26306

April 11, 2019

Dale Remmers  
Mentalix, Inc.  
17304 Preston Rd, Ste 635  
Dallas, TX 75252-5672

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. NIST performed a complete analysis of the Wavelet Scalar Quantization (WSQ) Implementation. Based on the results of the NIST review, the FBI has issued the attached certificate for WSQ Implementation Number 53032.

With regard to this certification, this letter does not serve as proof of the certification and should not be posted on a public-facing Web site. Enclosed is a certificate that may be posted as proof of certification. Additionally, 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 in any other manner unless specifically authorized to do so. This letter does not authorize you to use the FBI's official seal for any purpose. This product certification survives any change in company name or ownership.

Please direct any questions regarding this certification to  
<EBTSSupport@ic.fbi.gov>.

Sincerely yours,

A handwritten signature in blue ink that reads "Michael Christman / MAM".

Michael A. Christman  
Deputy Assistant Director  
CJIS Division



# CERTIFICATION OF COMPLIANCE

for

MENTALIX, INC.

WSQ Implementation Number: 53032

Platform: Windows 7 (64-bit)

Dell Optiplex 990, Intel i7-2600 @ 3.40GHz CPU

Intel C++ Composer XE for Windows Intel Parallel Studio XE 2019 Composer Edition for Windows, target architecture: ia-32

Software version: Fast WSQ 3.1

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

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. This algorithm is the standard for the exchange of 8-bit, 500 ppi fingerprint images within the criminal justice community. Within the frame header of the compressed image, the software implementation value (SF) will be recorded as 53032, and the WSQ encoder algorithm (parameterization) value (EV) will be set as 2.

*This certification process is not intended to endorse one entity or implementation over another, but merely to certify that the implementation meets FBI standards. The authenticity of this certificate can be confirmed by checking the online registry at <<https://www.fbihiopspecs.cjis.gov/>>.*

Date: April 11, 2019