



DSX Access Systems, Inc.

## AES-256 Encryption

### AES 256-bit Communications Encryption

WinDSX and WinDSX SQL can now be secured using AES 256-bit Encryption. The encryption can be implemented between the communication server and the field controllers and between communication server and workstations. This feature requires firmware version 3181 or higher in all controllers and that the feature be enabled in the USB Features Key. Each Location can have an Encryption Key entered to encrypt the communications between the Comm Server and that Location's controllers.

The AES 256-bit Encryption propagates itself from the Master Controller to all subsequent controllers. Each location can optionally be given up to 32 keyboard characters as an encryption key. The key cannot be viewed once entered. Controllers will only switch in and out of encryption at power up. The Comm Server can be given a separate key to encrypt communications to all Workstations.

This link is to a page that provides technical information about implementations that have been validated as conforming to the **Advanced Encryption Standard (AES) Algorithm**, as specified in the Federal Information Processing Standard Publication 197, *Advanced Encryption Standard*.

<http://csrc.nist.gov/groups/STM/cavp/documents/aes/aesval.html>

Validation Numbers

1628

1629