A) Introduction

SLIFT-Ez Classic/J is a PKI-based file encryption/decryption solution as a result of strong customer demand. SLIFT Command-Line addresses the file security needs of systems which require integrated file security capabilities. It is employing state-of-the-art Public Key Infrastructure technology for encrypting and decrypting files. All encrypted files are adhering to PKCS#7, a standard for signed and encrypted file format. During encryption, files from a specified directory are encrypted by the public key extracted from recipient's X.509 certificate and digitally signed by the private key from the signer's PKCS#12 file. Similarly, during decryption, files from a specified directory are decrypted by the private key extracted from the recipient's PKCS#12 file and verified with the public key from signer's X.509 certificate.

B) Pre-requisite

- Sun Solaris 7, 8 and 9 Operating Environment for SPARC platform.

- AIX 5 for IBM AIX platform.

- Microsoft Windows ME/NT4/2000/XP.

- Java(TM) 2 Runtime Environment (J2RE), Standard Edition v1.4.1 or above with Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files installed. (Downloadable from http://java.sun.com/j2se/ for Sun platform, for other platforms files are available from the respective website)

Software installation note available in the Readme.htm file available after SLIFT Ez Classic is installed.

C) Command Line

1. Running program directly with J2RE

- Make sure J2RE executable (java/java.exe) is accessible from your executable paths.
- Make sure that all file permissions are correct.
- Copy all JAR files from installation package to current directory.
- Set CLASSPATH environment variable as "./SLIFTEzClassic.jar:./tfpjce.jar" in Solaris
  environment, or ".\SLIFTEzClassic.jar;.\tfpjce.jar" in Windows platform.
- Run main application class SLIFTEzClassic with target arguments by issuing command,
  e.g. for Solaris: "java SLIFTEzClassic –version"

2. Running program with bundled shell script "run.sh"

- Make sure J2RE executable (java) is accessible from your executable paths.
- Make sure all file permissions are correct.
- Copy all JAR files from installation package to current directory.
- Run application with target arguments via the shell script.
  e.g. run.sh -version

D) Available Options/Arguments

USAGE:

1) SLIFTEzClassic [-e|-d] source_file [output_file] -pfx pfx_file passwd [-pfx ...]
   [-cer cer_file [-cer ...]] [-verbose]

2) SLIFTEzClassic -version

OPTIONS:

-e	Encrypt the source file (default operation).
-d	Decrypt the source file.
-pfx pfx_file passwd	PFX file containing the private key of signer for encryption, or person allowed to decrypt for decryption; followed by pfx password.
-cer cer_file	Certificate file containing the public key of person allowed to decrypt the output file.
-verbose	Enable verbose mode, which displays more detailed information for each command line execution.
-version	Print version information.

OPERANDS:

source_file   Source file for encryption/decryption.

output_file   Optional path for output file.

E) Extra Note

Multiple-signer is supported if more than one PFX file are specified Multiple-recipient is supported if more than one certificate are specified.

F) Error output

All exception messages will be logged to file "errlog.log" at working directory. Any unpredicted error messages should be forwarded to support@privylink.com.sg for further troubleshooting.

For more information, please contact sales@privylink.com.sg or call 6882 0700.