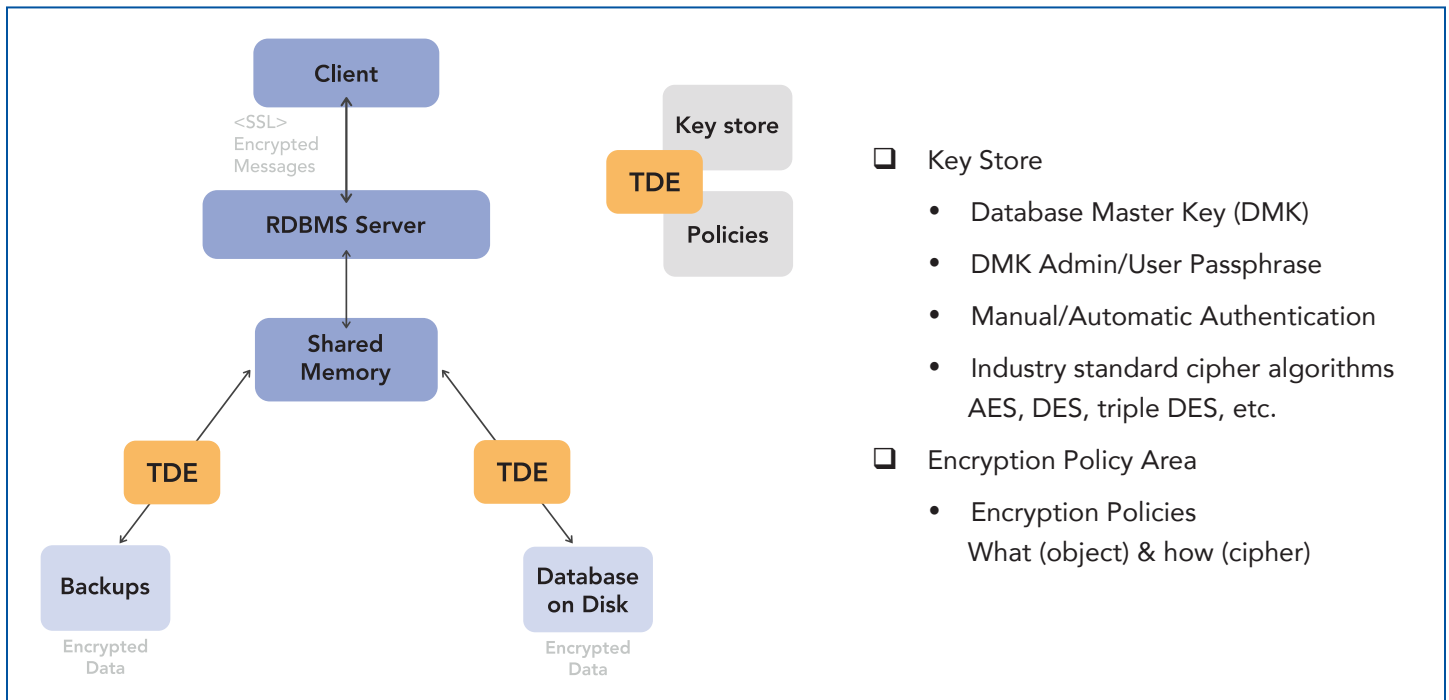




TRANSPARENT DATA ENCRYPTION FOR SMS 2.0

IT SERVICES

Progress OpenEdge Transparent Data Encryption (TDE) secures databases while at rest. Access to an encrypted database is controlled with an encryption key. Securing the encryption key and controlling access to it is an essential part of securing the database. In addition to the database, the backup and after image file are also encrypted.



What is "at rest"?

TDE encrypts the data on the disk. Once data is read into memory, data is decrypted.

Is there a performance hit?

Progress states a two to four percent performance cost with TDE. TDE requires extra CPU processing to encrypt and decrypt data when read from or written to disk. Progress does not recommend encrypting the entire database. Skyward has identified the tables and indexes with sensitive information, and our encryption policy only encrypts these items. A performance hit has not been noticed when running TDE on a server with adequate resources.

How does TDE affect Skyward end users?

Skyward users will not notice a difference or even know that TDE is in place. The Progress clients that run Skyward handle the encryption and decryption of data behind the scenes.

What are the changes for a Skyward server admin?

Not much. Securing access to the server and keeping track of the database keystore file and passphrase are the key components. TDE must be used in an auto mode due to the way Skyward runs OpenEdge through Adminserver for auto starting. Therefore, no user interaction is needed to start a TDE-enabled database.

Does TDE affect our nightly backups?

The process to run a backup remains the same. What changes is the restore: the database can only be restored when a copy of the database keystore file is present. This makes backing up the keystore file to a separate and secure location very important.

PRICING

DISTRICT 1-1,500 STUDENTS	
Installation	\$1,500 one db <small>*add \$150 additional db</small>
PM	\$330
TDE software	\$800 annual fee
Total	\$2,630

DISTRICT 1,501-5,000 STUDENTS	
Installation	\$1,500 one db <small>*add \$150 additional db</small>
PM	\$330
TDE software	\$1,400 annual fee
Total	\$3,230

DISTRICT 5,001-12,000 STUDENTS	
Installation	\$1,500 one db <small>*add \$150 additional db</small>
PM	\$330
TDE software	\$2,220 annual fee
Total	\$4,030

DISTRICT 12,001-20,000 STUDENTS	
Installation	\$1,500 one db <small>*add \$150 additional db</small>
PM	\$330
TDE software	\$3,500 annual fee
Total	\$5,630

DISTRICT 20,000+ STUDENTS	
Installation	\$1,500 one db <small>*add \$150 additional db</small>
PM	\$330
TDE software	\$5,500 annual fee
Total	\$7,330

*If a tune-up is recommended in conjunction with the TDE implementation, price will be calculated at the normal per-student rate.