

Didisoft OraPGP

OpenPGP encryption with PL/SQL methods inside the Oracle Database

Didisoft OraPGP is an Oracle PL/SQL package designed to provide OpenPGP cryptography methods.

The package provides all the standard OpenPGP cryptography methods including encryption, decryption, creating and verifying digital signatures, combined one pass signatures and encryption, clear text and detached signatures over the standard Oracle© database column types.

All the cryptography operations are executed inside the database with no external applications involved.

Compatibility

The output and input of the package is fully compatible with all the OpenPGP compliant software available on the market, including Symantec products, GnuPG/gpg, etc.

PRODUCT SUMMARY

- OpenPGP encryption inside Oracle© databases versions 11 and 12.
- Dedicated PL/SQL methods that work directly over the database columns.
- All the application logic is inside the database and no external applications are involved.
- Compliant output and input with all other OpenPGP software applications available on the market.
- Easy API with short learning curve.

DidiSoft OraPGP

OpenPGP encryption with PL/SQL methods inside the Oracle Database

Designed for Oracle Developers

The OraPGP package is designed to provide consistent PL/SQL methods for OpenPGP cryptography. All the code is executed inside the Oracle® database memory space.

High security

The public and private keys used in the OpenPGP encryption can be stored inside the Oracle® database and used directly from there, eliminating the need to access external files.

Full OpenPGP support

All the current OpenPGP Standard specifications are supported (RFC 4880, RFC 6637).

TECHNICAL SPECIFICATION

Oracle Database

Version 11, 12, 18, 19

- ✓ Enterprise Edition
- ✓ Standard Edition
- ✓ Standard One

Programming Languages

PL/SQL

Public Key Algorithms

RSA, DSA, Diffie-Hellman, Elliptic Curves

Public Key Format

OpenPGP

Encryption Algorithms

AES 128/192/256, DES, 3DES, Twofish, Blowfish, SAFER, Camellia 128/192/256

Signing Algorithms

SHA 256/384/512, SHA-1, MD-5, RIPEMD-160

Compression Algorithms

ZIP, BZIP2, ZLib

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DidiSoft is a trusted leader in global business data protection. Over a decade DidiSoft has focused on providing encryption solutions to thousands of customers, including government agencies and financial institutions. Our software provides cost effective and easy to implement data protection solutions that is simple for IT to administer and operate.