
PKWARE Software Developer Kits: The Best Resource for Data Security and Data Compression

PKWARE Software Developer Kits have been the developers choice for nearly 15 years. The PKWARE SDK product family combines data security and data compression tools to enable the development of applications for Windows® that provide secure and efficient file transfer and storage.

Built on the ZIP file format, PKWARE provides developers the ability to leverage platform interoperability through the use of one of the most widely used file formats in the world. Applications developed with PKWARE's SDKs are compatible with the full line of PKWARE products - Windows® desktops, Windows Server®, UNIX® Server, Linux® Server, i5/OS® midrange, and z/OS® mainframes. As the creator and continuing innovator of the ZIP file format, PKWARE is trusted by developers to provide reliable and flexible software toolkits.

In addition to compression, PKWARE's SecureZIP SDK includes support for data security by offering encryption and authentication capabilities. Security capabilities include AES and 3DES passphrase or certificate-based encryption, as well as digital signature support for data integrity.

PKWARE Software Developer Kits includes a number of enhancements to enable more flexibility and efficiency for applications:

[Filename encryption](#), included with SecureZIP Toolkit, enables the encryption of filenames and other file meta data to ensure no sensitive information is exposed without applying the appropriate passphrase or digital certificate necessary to decrypt the files.

[Integration with LDAP-compliant interfaces](#), also available with the SecureZIP Toolkit, allows for automatic retrieval and application of digital certificates for encryption.

Shred files using DOD 5220 standard, providing an additional level of configurability for organizations who want to ensure that deleted files are not recoverable.

Product Feature Highlights

The Original ZIP

PKWARE invented the ZIP file format in 1989 and has been extending its compression capabilities to make it the most interoperable, scalable utility available. PKWARE began adding security features to the ZIP file format in 1998 and provides the most flexible data security in the market today through the SecureZIP product line.

Unprecedented Power

With direct access to the SDK libraries via a robust interface, developers can create low overhead applications built for speed. And because it's in C++, developers can integrate compression capabilities using many different development tools. Professional technical support and a complete online documentation system provide quick and easy answers to potential integration questions.

Flexible Security Choices

A broad variety of security features enable the developer to select the passphrase or certificate method that best serves their needs. Supported encryption methods include AES (256, 192, 128-bit), 3DES (168, 112-bit), DES (56-bit), RC4 (168, 64, 40-bit) and RC2 (168, 64, 40-bit). Decrypt options include AES (256, 192, 128-bit), 3DES (168, 112-bit), DES (56-bit), RC2 (128, 60, 40-bit), RC4 (128, 60, 40-bit). Additionally, digital signature support using X.509 certificates is available to ensure authenticity and data integrity.

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Software Developer Kits Datasheet

PKWARE Software Developer Kits Product Family

- **SecureZIP Toolkit:**
Combines compression and data security to secure files with passphrases or digital certificates
- **PKZIP Standard Toolkit:**
Provides powerful data compression for creating archives in the industry - standard ZIP format
- **Data Compression Library:**
PKWARE's traditional library enables basic data compression when ZIP file format is not required

SecureZIP Toolkit

The SecureZIP Toolkit includes all the data compression capabilities of the PKZIP Standard Toolkit as well as advanced ZIP archive management and strong data security functionality. The SecureZIP Toolkit allows Windows applications to leverage Microsoft's Crypto API, which is included in all major versions of Windows operating systems, as well as security capabilities that enable applications to encrypt files using a wide range of industry and government standard symmetric key algorithms including 3DES and AES. Files can be encrypted using either passphrases or X.509-compliant digital certificates. Digital signature capabilities are also available to help ensure file authenticity, integrity and to support non-repudiation. Integration with LDAP-compliant interfaces allows for the automatic location and retrieval of X.509 certificates for data encryption. Developers can also create self-extracting ZIP files with the SecureZIP Toolkit, allowing users to automatically decompress and extract files.

PKZIP Standard Toolkit

The PKZIP Standard Toolkit includes the capabilities of the Data Compression Library and adds the ability to create different types of data file archives, including ZIP archives, as well as extracting data from a large selection of archive types. The PKZIP Standard Toolkit also exposes many of the advanced archive management functions previously only available with PKWARE's end-user applications. In addition to ZIP archives, the Toolkit can create BZIP2 and GZIP compressed file archives, as well as TAR, UUENCODE, and XXENCODE archives. Extraction capabilities include all these types, as well as CAB, BinHex, ARJ, LZH, and RAR archives. Additionally, ZIP files created with the Standard Toolkit can be extracted on any PKWARE supported platform.

Data Compression Library

The PKWARE Data Compression Library (DCL) for Windows provides a high-speed interface for compressing and decompressing data files within applications, when ZIP file archiving is not required. DCL compression generally reduces typical data file sizes by 50% or more, while reducing some types of ASCII and database files by as much as 90%.

PKWARE's well-known DCL has been available for over a decade with the traditional DCL Implode compression algorithm. The Windows DCL includes support for the DEFLATE and DEFLATE64 algorithms. There are no limits to the types of data that can be processed with the PKWARE DCL algorithms, allowing compression and decompression to and from memory, media, serial ports, or any other device that an application can address.

System Requirements

The PKWARE SDK runs on all major Windows platforms and requires minimal system resources.

OS Versions:

Windows 98, Me, NT 4.0, 2000, XP, 2003 (98 and Me requires IE6 and up)

Minimum Requirements:

5 MB of hard disk space, 64 MB RAM

Development Environment: Visual Studio® 6.0 and better

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