

The Best Resource for Data Security & Data Compression

PKWARE Software Developer Kits (SDKs) have been the developer's choice for over 20 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 desktop and server, UNIX[®] and Linux[®] server, i5/OS[®] midrange, and z/OS[®] mainframe.

The Original ZIP

As the inventor and continuing innovator of the ZIP standard, PKWARE, Inc. is a global technology leader known around the world as the expert in data compression. PKWARE invented the ZIP file format in 1989 and has been extending its compression capabilities to make it the most interoperable, scalable utility available.

With the launch of SecureZIP in 2005, PKWARE successfully entered the data security marketplace, combining ZIP compression and strong encryption to deliver a data-centric security solution. Today, SecureZIP and PKZIP SDKs are used by thousands of developers worldwide.

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++, with a .NET interface included, 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 developers to select the passphrase or digital certificate method that best serves their needs.

Supported encryption methods include: AES (256-, 192-, and 128-bit), 3DES (168- and 112-bit), DES (56-bit), RC4 (168-, 64-, and 40-bit), and RC2 (168-, 64-, and 40-bit). Decryption options include: AES (256-, 192-, and 128-bit), 3DES (168- and 112-bit), DES (56-bit), RC2 (128-, 60-, and 40-bit), and RC4 (128-, 60-, and 40-bit).

Additionally, digital signature support using X.509 digital certificates is available to ensure authenticity and data integrity.

PKWARE Software Developer Kits Product Family

- **Data Compression Library:** PKWARE's traditional library enables basic data compression when ZIP file format is not required.
- **PKZIP Standard Toolkit:** Provides powerful data compression for creating archives in the industry-standard ZIP format.
- **SecureZIP Toolkit:** Combines data compression and data security to secure files with passphrases or X.509 digital certificates.

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 archiving is not required. DCL compression generally reduces typical data file sizes by 50% or more, while

Features and Benefits

Enhanced Security Capabilities

Encryption & authentication capabilities, including AES and 3DES passphrase- or certificate-based encryption, as well as digital signature support for data integrity.*

Additional Flexibility & Efficiency

PKWARE SDKs offer specialized enhancements to enable flexibility and efficiency for applications.

Ensure Sensitive Information Remains Secure

Filename encryption to ensure no sensitive information is exposed without the appropriate passphrase or digital certificate.*

Automatic Retrieval & Application of Digital Certificates

Integration with LDAP-compliant interfaces allows for automatic retrieval and application of digital certificates for encryption.*

Ensure Deleted Files are not Recoverable

Shred files using DOD 5220 standard, providing an additional layer of configurability to ensure deleted files are not recoverable.

*Feature available in SecureZIP SDK

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.

PKZIP Standard Toolkit

The PKZIP Standard Toolkit includes the capabilities of the DCL 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 PKZIP Standard 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 PKZIP Standard Toolkit can be extracted on any PKWARE supported platform.

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 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 digital certificates for data encryption. Developers can also create self-extracting ZIP files with the SecureZIP Toolkit, allowing users to automatically decompress and extract files.

About PKWARE

As the inventor and continuing innovator of the ZIP standard, PKWARE, Inc. is a global technology leader known around the world as the expert in data compression and file management. With the launch of SecureZIP in 2005, PKWARE successfully entered the data security marketplace, combining ZIP compression and strong encryption to deliver a data-centric security solution. Today, SecureZIP and PKZIP are used by over 200 government agencies and 30,000 corporate entities, including 90% of the Fortune 100. Organizations in financial services, banking, government, healthcare, and retail use PKWARE solutions daily to protect sensitive data, meet compliance requirements, avoid liability risk, and reduce their overall costs and operational overhead. PKWARE, a privately held company, was founded in 1986 and is based in Milwaukee, Wisconsin; additional offices are located in New York, Ohio and the United Kingdom. To learn more about PKWARE and how they have helped thousands of organizations solve their data security and file management challenges, please visit www.pkware.com.

System Requirements

Operating System	Memory (RAM)	Hard Disk Space	Additional
PKZIP/SecureZIP Toolkit			
Windows 2000 SP4, XP SP2, Vista running IE 6.0 or later, Windows 7, Windows Server 2003 or 2008	128 MB RAM (256 MB recommended on XP) 512 MB RAM (Vista & Windows 7)	25 MB of free HD space	The PKWARE SDK runs on all major Windows platforms and requires minimal system resources.

Operating System	Memory (RAM)	Hard Disk Space	Additional
PKWARE SDK			
Windows 2000 SP4, XP SP2, Vista running IE 6.0 or later, or Windows Server 2003 or 2008	64 MB RAM	5 MB of free HD space	Development Environment requires Visual Studio® 6.0 and better

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