



# Third Party Component Guide

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# Third-Party Component Technology

OneStream is constructed using both proprietary and third-party tools in the authoring, installation and running of our supported products. See *Hardware and Software Requirements* for supported version information.

## **OneStream Windows App**

Developed using Microsoft Windows Presentation Foundation (WPF) technologies. Third-party developer components include DevExpress (for user interface controls and reporting), Telerik (User Interface controls), and ActiPro Software (Syntax Editor). OneStream customers are not required to purchase these developer tools.

## **OneStream IdentityServer**

OneStream IdentityServer third-party developer components include Duende Software (IdentityServer) and Rock Solid Knowledge (SAML2p). OneStream customers are not required to purchase these components.

## **Other Windows Clients**

OneStream Server Configuration Utility and OneStream Database Configuration Utility are used for initial setup and updates. Both are developed using Microsoft .NET technologies. OneStream customers are not required to purchase these developer tools.

## **Microsoft Office**

OneStream Excel Add-in (optional) is developed using Microsoft .NET technologies. In order to use the optional OneStream Excel Add-in, OneStream customers must have the Excel component of a supported version of Microsoft Office.

### OneStream Code

DevExpress compression libraries are used to implement data compression for reducing network traffic. It is also used to create Zip files when extracting an entire application.

### Web Server

Developed using Microsoft Internet Information Services (IIS) and the Microsoft .NET 6.

### Application Server

Developed using Microsoft Internet Information Services (IIS) and Microsoft .NET 6.

### Database Server

Microsoft SQL Server

### Other Embedded Components

IdentityModel is utilized for OpenID Connect 2.0 and OAuth based authentication. RestSharp client is used for connecting to REST and HTTP authentication APIs.

In the security layer, Microsoft OWIN for the IAppBuilder startup interface is embedded. To compile business rules, the Microsoft .NET compiler platform "Roslyn" is used.

### ERPConnect

ERPConnect is used for SAP System connectivity. © 2022 Theobald Software GmbH.

### PostgreSQL

Copyright © 1996-2022 The PostgreSQL Global Development Group

- Access to PostgreSQL database

### MySql.Data

© 2022 Oracle

- Access to MySQL database

### Serilog

Serilog is used for application logging.

### Apache Parquet

Parquet is used for data compression during data transfers when using Smart Integration Connector.

### Installation Tool

OneStream's installation tool was developed using third-party software. See [wixtool.org](http://wixtool.org) for more information.

### Supported Legacy Authentication Providers

- OneStream Native
- MSAD
- LDAP
- Azure AD
- Okta
- PingFederate
- SAML 2.0

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Newtonsoft.json is distributed to support various codebase JSON serialization needs.

<https://github.com/JamesNK/Newtonsoft.Json/blob/master/LICENSE.md>

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Shyju.BrowserDetector is used to determine a user's browser type.

<https://github.com/kshyju/BrowserDetector/blob/master/LICENSE>

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AutoMapper is a convention-based object-object mapper.

This project has adopted the code of conduct defined by the Contributor Covenant to clarify expected behavior in our community. For more information see the .NET Foundation Code of Conduct.

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## SkiaSharp

SkiaSharp is a cross-platform 2D graphics API for .NET platforms for rendering images.

<https://github.com/mono/SkiaSharp/blob/main/LICENSE.md>

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### SlickGrid

Slickgrid is a JavaScript grid component designed for handling large datasets.

<http://github.com/mleibman/slickgrid>

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Dapper is a lightweight Object Relational Mapper (ORM).

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### **Bouncy Castle**

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Microsoft.OWIN is distributed in connection with OWIN IAppBuilder startup interface.

<https://github.com/tomi85/Microsoft.Owin/blob/master/LICENSE.txt>

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LibreOffice Dictionaries is implemented in the OneStream client for spell checking.

<https://github.com/LibreOffice/dictionaries/blob/master/en/license.txt>

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The following packages are included in this distribution that relate to cryptography:

- **openssl:** The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, full-featured, and Open Source toolkit implementing the Transport Layer Security (TLS) and Secure Sockets Layer (SSL) protocols as well as a full strength general purpose cryptography library.
- **pycrypto:** A collection of both secure hash functions (such as SHA256 and RIPEMD160), and various encryption algorithms (AES, DES, RSA, ElGamal, etc.)
- **pyopenssl:** A thin Python wrapper around (a subset of) the OpenSSL library.
- **kerberos(krb5, non-Windows platforms):** A network authentication protocol designed to provide strong authentication for client/server applications by using secret-key cryptography.
- **cryptography:** A Python library which exposes cryptographic recipes and primitives.