



# System Requirements Specification

eValidator 23.2

October 2023

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## Disclaimer

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# 1. Getting Started

## 1.1 Introduction

This document describes the system requirements for LORENZ eValidator and outlines the general architecture of the LORENZ eValidator platform.

## 1.2 How this document is organized

This guide is organized in chapters plus appendices:

- **Chapter 1** contains general information about the document and its use.
- **Chapter 2** contains an overview of the LORENZ eValidator System Architecture.
- **Chapter 3** contains the hardware and software requirements for the LORENZ eValidator Client and eValidator Server.
- **Chapter 4** contains certified and supported Database Systems
- **Chapter 5** contains certified and supported LORENZ Applications
- **Appendix** lists the support levels for 3<sup>rd</sup> Party Components.

## 1.3 Target Audience

This document is targeting the experienced IT Person who is tasked with system sizing for a LORENZ eValidator system, installing a LORENZ eValidator system on a single desktop computer or server, or evaluating the technical background of LORENZ eValidator for planning or decision-making processes.

This document may also be of interest to a Project Manager or Department Manager with a casual understanding of IT Technology who wants to gain insight on the technical platform a LORENZ eValidator system is operated on.



## 2. General System Overview

### 2.1 The LORENZ eValidator System Architecture

The LORENZ eValidator is a solution to perform technical validation in the context of regulatory affairs for electronic submissions, and related tasks.

### 2.2 System Overview

The LORENZ eValidator consists of the components displayed in blue color the picture below. The components displayed in grey color are provided by LORENZ Foundation or LORENZ Automator.

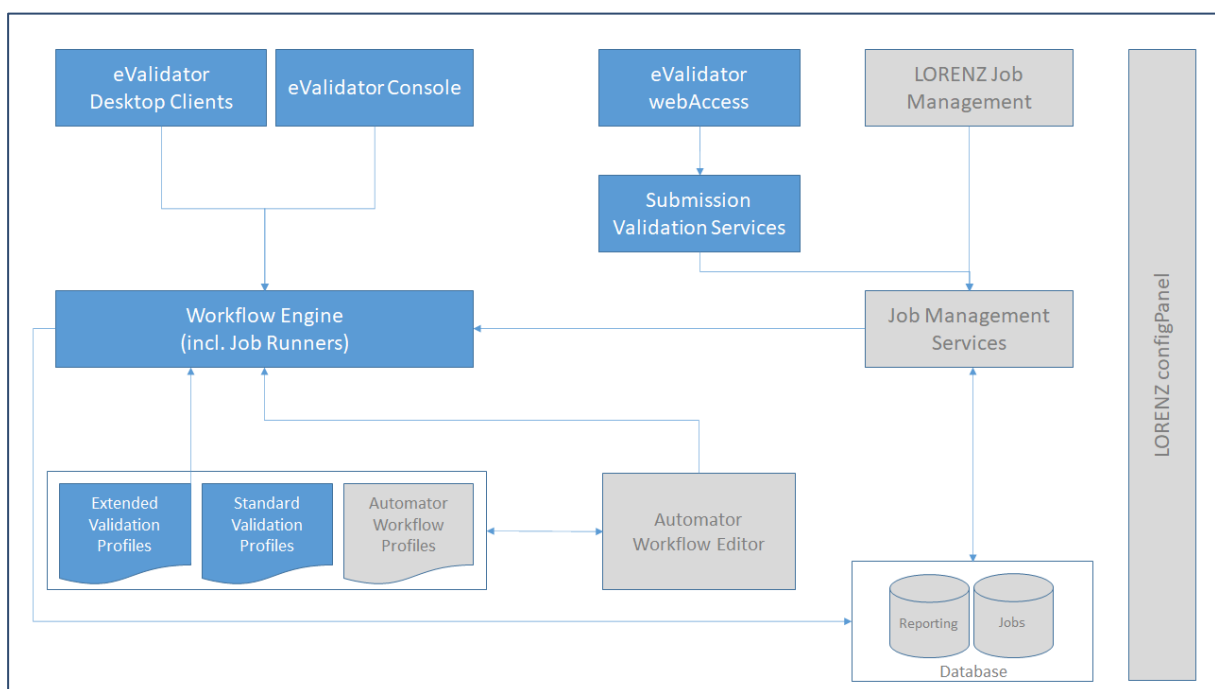


Figure 1: LORENZ eValidator Component Diagram



## 3. System Requirements

### 3.1 Hardware Requirements

The hardware requirements recommendations differ for an eValidator Client installation and an eValidator Application Server installation.

#### 3.1.1 eValidator Client

The hardware listed below is sized to ensure proper operation of a LORENZ eValidator Client installation, consisting of:

- eValidator Client application (all license types)
- eValidator Batch Processing Client application (eValidator FIVE license required)

Component	Minimum	Recommended
Processor-Cores	2	4
RAM	4 GB	16 GB
Display Configuration	As required. The LORENZ eValidator does not have any specific requirements towards the display capabilities of the system.	
Network Protocols	TCP/IP, HTTPS	
Network Speed	100 MBit/Sec.	1000 MBit/Sec or above

Table 3-1

#### 3.1.2 eValidator Application Server

The hardware listed below is sized to ensure proper operation of a LORENZ eValidator Application Server installation, consisting of:

- eValidator webAccess (eValidator FIVE license required)

Component	Minimum	Recommended
Processor-Cores	4	8
RAM	16 GB	32 GB
Display Configuration	As required. The LORENZ eValidator does not have any specific requirements towards the display capabilities of the system.	
Network Protocols	TCP/IP, HTTPS	
Network Speed	100 MBit/Sec.	1000 MBit/Sec or above

Table 3-2



These suggestions for sizing the hardware of a server shall be treated as guidance and should be pursued with reasonable foresight of potential system growth.

## 3.2 Software Requirements

### 3.2.1 eValidator Client

The software listed below names the required items that need to be present to install and operate a LORENZ eValidator Client.

Component	Status / Comment
Operating System	<p>An Operating System for the LORENZ eValidator is required. For a complete list of Operating Systems and their status please also refer to section 3.3.</p> <p>There are known issues with systems running with a screen resolution higher than 100% or higher for text, apps and other.</p>
Browsers	<p>The following browsers have been tested and are supported in this release. Even though a specific version of a browser is not listed, it still may work (especially for browsers with rapid release cycles such as Chrome, Firefox).</p> <ul style="list-style-type: none"> <li>• Mozilla Firefox: 118.0</li> <li>• Google Chrome: 117.0</li> <li>• Microsoft Edge: 117.0</li> </ul> <div> <p>To allow us to continue to take advantage of modern web standards to deliver improved functionality and the best possible user experience across all our products, we have decided to end support for Internet Explorer 11.</p> </div> <ul style="list-style-type: none"> <li>• JavaScript must be enabled in all browsers</li> </ul>
.NET Framework	Version 4.7.2 or higher

Table 3-2





### 3.2.2 eValidator Application Server

The software listed below names the required items that need to be present to install and operate a LORENZ eValidator Application Server.

Component	Status / Comment
Operating System	An Operating System for the LORENZ eValidator is required. For a complete list of Operating Systems and their status please also refer to section 3.3. There are known issues with systems running with a screen resolution higher than 100% or higher for text, apps and other.
Browsers	<p>The following browsers have been tested and are supported in this release. Even though a specific version of a browser is not listed, it still may work (especially for browsers with rapid release cycles such as Chrome, Firefox).</p> <ul style="list-style-type: none"> <li>• Mozilla Firefox: 118.0</li> <li>• Google Chrome: 117.0</li> <li>• Microsoft Edge: 117.0</li> </ul> <div style="background-color: #e6f2ff; padding: 10px; margin: 10px 0;"> <p>To allow us to continue to take advantage of modern web standards to deliver improved functionality and the best possible user experience across all our products, we have decided to end support for Internet Explorer 11.</p> </div> <ul style="list-style-type: none"> <li>• JavaScript must be enabled in all browsers</li> </ul>
.NET Framework	Version 4.7.2 or higher
Database	Please refer to chapter 4.
LORENZ Foundation	Version 23.2 (See Section <a href="#">LORENZ Applications</a> )



### 3.3 Operating Systems

#### 3.3.1 eValidator Client

LORENZ requires the production version of the LORENZ eValidator Client to be installed on a Windows Client Operating System. The installation of the LORENZ eValidator Client Application on a Windows Server Operating System for productive usage is supported with an eValidator FIVE license only.

Operating System	Status
Windows 11	Certified
Windows 10	Certified
Windows Server 2022	Certified
Windows Server 2019	Supported
Windows Server 2016	Supported

LORENZ does not support the Installation of LORENZ eValidator on Windows Operating Systems derived from any not supported constellations. LORENZ recommends always installing the latest Windows Updates for all Operating Systems.

#### 3.3.2 eValidator Application Server

LORENZ requires the production version of the LORENZ eValidator Application Server to be installed on a Windows Server Operating System. The installation of the LORENZ eValidator Application Server on a Windows Client Operating System is not supported for productive usage.

LORENZ does not support the Installation of LORENZ eValidator on Windows Server Operating Systems derived from any not supported constellations. LORENZ recommends always installing the latest Windows Updates for all Operating Systems.

Operating System	Status
Windows Server 2022	Certified
Windows Server 2019	Certified
Windows Server 2016	Certified

Table 3-3

### 3.4 Use of Virtualized Environments

LORENZ supports the use of virtualized environments, for the LORENZ eValidator Application Server. Our own testing is, in part, performed in such environments.



However, LORENZ does not formally certify any virtualization platform because we consider these platforms to be *transparent*, i.e., we expect the virtualization environment with an installed supported or certified operating system to perform identically when compared to the same operating system installed into a physical environment.

### 3.5 Use of Terminal Emulation Environments

LORENZ also supports the use of terminal emulation environments such as CITRIX and Windows Terminal Services. This is however not recommended for using LORENZ eValidator desktop clients.

LORENZ does not formally certify these environments because we consider these platforms to be *transparent*. We expect the exposed operating system (e.g., Windows Server 2012-based environments) to behave identical to a true Windows Server 2012 installation.

LORENZ considered the specifics of such environments when designing the application (e.g., separation of application and user-related data) and shall continue to do so where appropriate in the future.

LORENZ is aware that certain technologies behave differently on terminal emulation environments, including (but not limited to) display characteristic, support for Windows Presentation Framework (WPF), etc. Where possible, we have tried to eliminate the impact of such behavior, e.g., by not using complex animations which are known to have issues in such environments.



## 4. Database Support

In the following tables we list the system versions that are *Certified*, *Supported* and *Not Recommended*. This section applies to eValidator Application Server installations only.

All other system versions are **Not Supported**.

Hint: With a new installation of the LORENZ eValidator, an SQL Server Compact Edition database will no longer be supported for the job storage.

### 4.1 MS SQL Server

Version	Status
SQL Server 2022 incl. Service Packs	Certified
SQL Server 2019 incl. Service Packs	Certified
SQL Server 2017 incl. Service Packs	Supported
SQL Server 2016 incl. Service Packs	Supported
SQL Server 2014 incl. Service Packs	Not recommended

Table 4-1

### 4.2 ORACLE

As ORACLE generally offers many patches, some of which are not made publicly available, LORENZ has decided to specify the actual versions that development and testing uses. LORENZ officially tests against ORACLE Database Servers hosted on Windows Systems<sup>1</sup>.

Version	Status
ORACLE 21c	Certified
ORACLE 19c	Certified
ORACLE 18c	Not recommended

Table 4-2

<sup>1</sup> LORENZ does not expect the same ORACLE Version to behave differently on a UNIX System than on a Windows system but cannot rule out the possibility that there may be differences.



### 4.3 PostgreSQL

Version	Status
PostgreSQL 15 incl. minor versions	Certified
PostgreSQL 14 incl. minor versions	Supported
PostgreSQL 13 incl. minor versions	Supported
PostgreSQL 12 incl. minor versions	Supported
PostgreSQL 11 incl. minor versions	Supported

Table 4-3



## 5. LORENZ Applications

In the following tables, we list the system versions that are *Certified*, *Supported* and *Not Recommended* to work with LORENZ eValidator.

All other versions are **Not Supported**.

### 5.1 LORENZ Foundation

Version	Status
Foundation 23.2	Certified

Table 5-1

### 5.2 LORENZ docuBridge

Version	Status
docuBridge 23.2	Certified

Table 5-2

### 5.3 LORENZ drugTrack

Not applicable. There is no interface between the products.

### 5.4 LORENZ Automator

Version	Status
Automator 23.2	Certified

Table 5-3



## 5.5 Release Compatibility Information

### Important Release Notification for the LORENZ 23.2 Releases

#### **Backward Compatibility**

LORENZ is moving from individual products to an integrated RIM solution with multiple capabilities. An increasing number of common functionalities (e.g. controlled vocabulary management and job management) are implemented centrally and utilized by multiple capabilities. This development also results in a single harmonized installation process.

This new installation process allows installation/update of licensed capabilities (e.g. docuBridge, drugTrack and eValidator) to the newest version. Multiple capabilities with diverging versions in one environment are not allowed anymore. Therefore, for customers with multiple LORENZ capabilities in one environment, the update to 23.2 applies to all LORENZ capabilities simultaneously.

docuBridge's built-in validation requires the eValidator Server package installed. The eValidator Client package is not sufficient anymore. For compliance reasons, an exception is applicable. LORENZ eValidator 23.2 Client package can be installed on the server with a version of LORENZ docuBridge 22.x or before.

For docuBridge 23.1 installations, an eValidator RUP package will be available to apply the profile changes made with the 23.2 release also to existing 23.1 installations, without upgrading the software.

#### **.NET and .NET Core Support Policy**

LORENZ software products are based on Microsoft technology with .NET as the underlying development framework. Therefore, Microsoft .NET is one vital system environment component.

Microsoft introduced a two-year release cycle for the long-term support versions (LTS). Each LTS version (.NET 6, .NET 8, etc.) will receive updates and patches for three years.

Version	Original release date	Release type	Support phase	End of support
.NET 6	November 8, 2021	LTS	Active	November 12, 2024

With the 24.1 release in April 2024, we will introduce .NET 8 as the next long term stable version of the framework.

Depending on your system environment policy, we recommend scheduling the upgrade of our software before November 12, 2024 to comply with Microsoft's .NET support.



For more information on Microsoft's .NET support policy refer to <https://dotnet.microsoft.com/en-us/platform/support/policy/dotnet-core>.

#### **Database Scripts for UTC Time Zone Migration**

LORENZ has harmonized the date time handling of the LORENZ RIM solution for the 23.2 releases. LORENZ Foundation, docuBridge and drugTrack deliver database migration scripts in their setups which convert existing date time values that are stored in the database to UTC.

It is mandatory to run these scripts during the installation of 23.2 before upgrading the database schemas of Foundation, docuBridge and drugTrack to 23.2.0.0.

The scripts are delivered with the setup package in the folder 'Database Scripts\additional\UTC Upgrade'. Further instructions about the scripts can be found in a readme file in the same folder.





## 6. Appendix: Open Source Software Components

LORENZ eValidator and LORENZ Automator use the following original components, which require attribution:

Component	Description
ShareZipLib	Library for compression and decompression License: GPL (details see web link) Web link: <a href="http://icsharpcode.github.io/SharpZipLib/">http://icsharpcode.github.io/SharpZipLib/</a>
ImapX	IMAP Library License: <a href="https://github.com/azanov/imapx/blob/master/LICENSE">https://github.com/azanov/imapx/blob/master/LICENSE</a> Web Link: <a href="https://github.com/azanov/imapx/">https://github.com/azanov/imapx/</a>
Castle.Windsor	Castle Project (Core, Windsor) License: <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> Web link: <a href="http://www.castleproject.org/">http://www.castleproject.org/</a>
Bouncy Castle	Crypto APIs License: <a href="http://www.bouncycastle.org/csharp/licence.html">http://www.bouncycastle.org/csharp/licence.html</a> Web link: <a href="http://www.bouncycastle.org/csharp/">http://www.bouncycastle.org/csharp/</a>
Quartz.NET	Job Scheduling System License: <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> Web link: <a href="https://www.quartz-scheduler.net/">https://www.quartz-scheduler.net/</a>
IFilterTextReader	Reading text from a PDF file through the IFilter interface License: <a href="https://www.codeproject.com/info/cpol10.aspx">https://www.codeproject.com/info/cpol10.aspx</a> Web Link: <a href="https://github.com/Sicos1977/IFilterTextReader">https://github.com/Sicos1977/IFilterTextReader</a> <a href="https://www.nuget.org/packages/IFilterTextReader">https://www.nuget.org/packages/IFilterTextReader</a>
EPPlus	A library to manage Excel spreadsheets using OOXML. License: <a href="http://epplus.codeplex.com/license">http://epplus.codeplex.com/license</a> Web Link: <a href="https://www.nuget.org/packages/EPPlus/">https://www.nuget.org/packages/EPPlus/</a>
Log4Net	A library for logging functions, with flexible output targets. License: <a href="http://www.apache.org/licenses/">http://www.apache.org/licenses/</a> Web Link: <a href="https://logging.apache.org/log4net/">https://logging.apache.org/log4net/</a>
Apache FOP	Apache™ FOP (Formatting Objects Processor) is a print formatter driven by XSL formatting objects (XSL-FO) and an output independent formatter License: <a href="https://xmlgraphics.apache.org/fop/license.html">https://xmlgraphics.apache.org/fop/license.html</a> Web Link: <a href="https://xmlgraphics.apache.org/fop/">https://xmlgraphics.apache.org/fop/</a>
IKVM.NET	IKVM.NET is an implementation of Java for the <u>Microsoft .NET Framework</u> . License: <a href="https://sourceforge.net/p/ikvm/wiki/License">https://sourceforge.net/p/ikvm/wiki/License</a> Web Link: <a href="http://www.ikvm.net/">http://www.ikvm.net/</a>



Component	Description
PDFIUM	<p>A library for PDF processing.  Web Link: <a href="https://pdfium.googlesource.com/pdfium/">https://pdfium.googlesource.com/pdfium/</a>  License: Copyright 2014 PDFium Authors. All rights reserved.  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> <li>• Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
fastText	<p>FastText is an open-source, free library to learn text representations and text classifiers.  Web Link: <a href="http://www.fasttext.cc">www.fasttext.cc</a>  License: MIT License, Copyright (c) 2016-present, Facebook, Inc.  Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>



Component	Description
MailKit	<p>A cross-platform .NET library for IMAP, POP3, and SMTP.  <a href="https://github.com/jstedfast/MailKit">https://github.com/jstedfast/MailKit</a>  License: <a href="https://github.com/jstedfast/MailKit/blob/master/LICENSE">https://github.com/jstedfast/MailKit/blob/master/LICENSE</a>  MailKit is Copyright (C) 2013-2019 Xamarin Inc. and is licensed under the MIT license:  Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
NTFS Streams (Trinet.Core.IO.Ntfs)	<p><a href="https://github.com/hubkey/Trinet.Core.IO.Ntfs">https://github.com/hubkey/Trinet.Core.IO.Ntfs</a>  A library for working with alternate data streams on NTFS file systems from .NET applications.  Copyright (c) 2002-2018 Richard Deeming All rights reserved.  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>



Component	Description
Newtonsoft.Json	<p>Json.NET is a popular high-performance JSON framework for .NET            Copyright © James Newton-King 2008  <a href="https://www.nuget.org/packages/Newtonsoft.Json/">https://www.nuget.org/packages/Newtonsoft.Json/</a>  <a href="https://github.com/JamesNK/Newtonsoft.Json">https://github.com/JamesNK/Newtonsoft.Json</a>  <a href="https://www.newtonsoft.com/json">https://www.newtonsoft.com/json</a></p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
Catalyst	<p><a href="https://github.com/curiosity-ai/catalyst">https://github.com/curiosity-ai/catalyst</a></p> <p>Catalyst is a C# Natural Language Processing library built for speed. Inspired by spaCy's design, it brings pre-trained models, out-of-the box support for training word and document embeddings, and flexible entity recognition models.</p> <p>MIT License</p> <p>Copyright (c) 2019 Curiosity GmbH, 2018 Rafael Oliveira</p> <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
7-Zip	<p>7-Zip is a file archiver with a high compression ratio. 7-Zip is free software with open source. The program is used by the LORENZ Automator and LORENZ eValidator in several workflow profiles to compress or extract files and folders.</p> <p><a href="http://www.7-zip.org">www.7-zip.org</a></p>



Component	Description
	<p>License for use and distribution  7-Zip Copyright (C) 1999-2020 Igor Pavlov.  The licenses for files are:  7z.dll:</p> <ul style="list-style-type: none"> <li>• The "GNU LGPL" as main license for most of the code</li> <li>• The "GNU LGPL" with "unRAR license restriction" for some code</li> <li>• The "BSD 3-clause License" for some code</li> </ul> <p>All other files: the "GNU LGPL". Redistributions in binary form must reproduce related license information from this file.</p> <p>GNU LGPL information  This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You can receive a copy of the GNU Lesser General Public License from <a href="http://www.gnu.org/">http://www.gnu.org/</a></p> <p>BSD 3-clause License  The "BSD 3-clause License" is used for the code in 7z.dll that implements LZFS data decompression. That code was derived from the code in the "LZFS compression library" developed by Apple Inc, that also uses the "BSD 3-clause License":</p> <p>Copyright (c) 2015-2016, Apple Inc. All rights reserved.  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> <li>3. Neither the name of the copyright holder(s) nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN</p>



Component	Description
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## 7. Appendix: Support Status

Status	Description
Certified	<p>If an item is listed as certified it means that LORENZ has successfully tested this item in combination with our products.</p> <p>This category is considered very Low Risk from a customers' perspective in terms of potential issues, validation requirements, etc.</p>
Supported	<p>If an item is listed as supported it means that LORENZ has seen this working in combination with our products, we have not included it in our "final" acceptance testing of the product.</p> <p>This category is considered Low Risk from a customer's perspective in terms of potential issues, validation, etc.</p>
Not Recommended	<p>If an item is listed as not recommended it means that even if it might be possible to use it in combination with our product, we have seen scenarios in which this combination resulted in issues (technical and business).</p> <p>Therefore, we do not recommend the use of this item.</p> <p>We will provide technical support on a "Best efforts" basis, but we are not likely to make changes to accommodate issues discovered. Additional charges may apply for supporting this category.</p> <p>This category is considered a Medium Risk from the customer's perspective in terms of potential issues, validation, etc.</p>
Not Supported	<p>If an item is listed as not supported, it means that we have found reproducible evidence that this item is causing issues in combination with our products.</p> <p>Could possibly work but we expect major issues (technical or business).</p> <p>We may be able to assist in some situations, but our official position is "Don't do it!" and we may require a formal sign-off from the customer to that effect before providing assistance. Additional charges may apply for assisting with this category. Even a reasonably complete IQ/OQ/PQ process may not be sufficient to detect or avoid potential problems in this category.</p> <p>This category is considered a Medium to High Risk from the customer's perspective in terms of potential issues, validation, costs, etc.</p>

Table 7-1

Engineering  
the World's  
**most Desirable**  
RIM Solution

## LORENZ Life Sciences Group

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