



# Tungsten Transformation Technical Specifications

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**TUNGSTEN**  
**AUTOMATION**

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# Document revision history

Date	Revision	Description
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# Preface

Tungsten Transformation is a platform on top of Tungsten Capture that is designed to process documents using automatic separation and classification, data extraction, as well as formatting and validation, before that data is passed back to Tungsten Capture.

The technical specifications in this document are specific to Tungsten Transformation 2025.1.

## Chapter 1

# Product requirements

The product requirements are broken down as follows.

## Server

To use the Server in production, the following requirements are needed.

Specifications	Description
<b>Server operating systems</b>	Windows Server 2019 * Windows Server 2022 * <i>* The Statistics Release module is not supported for these operating systems.</i>
<b>Required 3<sup>rd</sup> party technologies</b>	Microsoft .NET Framework 4.8 Visual Studio VC++ redistributables for VS2022 (x86) Visual Studio VC++ redistributables for VS2022 (x64) ** <i>** Required for FormXtra.</i> <i>Crystal Reports requires Visual Studio VC++ redistributables for VS2010 SPI. This prerequisite is not provided with Tungsten Transformation 7.1.0. Please see the Tungsten Transformation Installation Guide for more information.</i>

## Thin Client Server

To use the Thin Client Server in production, the following requirements are needed.

Specifications	Description
<b>Server operating systems</b>	Windows Server 2019 Windows Server 2022
<b>Application Server</b>	IIS 10
<b>Required 3<sup>rd</sup> party technologies</b>	Microsoft .NET Framework 4.8 Visual Studio VC++ redistributables for VS2022 (x86) Visual Studio VC++ redistributables for VS2022 (x64) ** <i>** Required for FormXtra.</i>

## Thin Clients (Browser UI)

To use the Thin Clients in production, the following requirements are needed.

Specifications	Description
<b>Supported Browsers</b>	Microsoft Edge (Chromium) Firefox 109 or higher Chrome 110 or higher

## Rich Clients (interactive modules)

To use the rich clients in production, the following requirements are needed.

Specifications	Description
<b>Server operating systems</b>	Windows Server 2019 Windows Server 2022 Windows 10 (32-bit/64-bit version 22H2 or higher) Windows 11 (64-bit)
<b>Hardware</b>	Screens - Resolution: <ul style="list-style-type: none"><li>• Minimum Resolution: 1280x800</li></ul> Screens - High DPI support: <ul style="list-style-type: none"><li>• 100% supported on all screens</li><li>• 125% only from screen resolutions of 1440x900 or higher</li><li>• 150% and higher not supported</li></ul>

## Project Builder

To use Project Builder, the following requirements are needed.

Specifications	Description
<b>Server operating systems</b>	Windows Server 2019 Windows Server 2022 Windows 10 (32-bit/64-bit version 22H2 or higher) Windows 11 (64-bit)

Specifications	Description
<b>Required 3<sup>rd</sup> party technologies</b>	<p>Microsoft .NET Framework 4.8                      Microsoft DirectX 11.3 or higher                      Visual Studio VC++ redistributables for VS2022 (x86)                      Visual Studio VC++ redistributables for VS2022 (x64) **                      ** Required for FormXtra.                      Crystal Reports requires Visual Studio VC++ redistributables for VS2010 SPI. This prerequisite is not provided with Tungsten Transformation 7.0.0. Please see the Tungsten Transformation Installation Guide for more information.</p>
<b>Hardware</b>	<p>Screens - Resolution:</p> <ul style="list-style-type: none"> <li>• Minimum Resolution: 1280x800</li> </ul> <p>Screens - High DPI support:</p> <ul style="list-style-type: none"> <li>• 100% supported on all screens</li> <li>• 125% only from screen resolutions of 1440x900 or higher **</li> <li>• 150% and higher not supported</li> </ul> <p>** On some operating systems, a few UI elements might display incorrectly. In this case, please witch to 100%.</p>

## General

The following are general requirements for using Tungsten Transformation.

Specifications	Description
<b>Compatible Tungsten software</b>	<p>Tungsten Capture 11.1.0.0 or higher *                      Tungsten MarkView 10.0 or higher                      Tungsten Real Time Transformation Interface 2.2.0.1                      Tungsten Search and Matching Server 6.9                      * Evaluation and Term licenses are supported for 11.1.1.0 and higher, only.</p>
<b>Coexistence with other Tungsten products</b>	<p>The Transformation components of Tungsten TotalAgility cannot be installed on the same machine as Tungsten Transformation. This includes the Transformation Server and the Transformation Designer.</p> <p>The Transformation components of Tungsten RPA cannot be installed on the same machine as Tungsten Transformation. This includes the Thin Client Server, the Document Transformation Server, and Transformation Designer.</p> <p>Kofax Transformation Modules cannot be installed on the same machine as the Kofax Transformation Toolkit.</p>
<b>Databases (For extraction and database lookups)</b>	<p>SQL Server 2019                      SQL Server 2022                      Oracle 19c (19.3)                      Oracle 21c (21.1)</p>



Specifications	Description
<b>Available languages</b>	<p>The user interface is available in the following languages:</p> <ul style="list-style-type: none"> <li>• Czech</li> <li>• German</li> <li>• Spanish</li> <li>• English</li> <li>• French</li> <li>• Italian</li> <li>• Polish</li> <li>• Portuguese (Brazilian)</li> <li>• Swedish</li> <li>• Russian</li> <li>• Chinese (Simplified)</li> <li>• Japanese</li> </ul>

## Hardware requirements

The following hardware requirements are needed when installing Tungsten Transformation.

### Hardware requirements for Tungsten Transformation

This section lists the hardware requirements for the server where you are installing Tungsten Transformation.

Recommended requirements for a Tungsten Transformation system are purposely not listed here, as each implementation varies in capacity, load, and processing. We do recommend that you try your Tungsten Transformation processing workload in a test environment before moving it into production.

**i** Any mentioned requirements include the installation of Tungsten Capture as it relates to Tungsten Transformation 2025.1. If the Tungsten Capture requirements exceed the specifications below, use the higher specifications.

Servers running Tungsten Transformation that have multiple processor groups do not scale as expected. Therefore, it is recommended to use servers with a single processor group.

If you are using a server with more than 32 cores to increase throughput, it is recommended to scale horizontally rather than vertically, by adding more servers rather than 1 server with more than 32 cores.

#### Minimum hardware requirements for Tungsten Transformation

The following are the minimum hardware requirements for a server running Tungsten Transformation.

Specifications	Description
<b>Processor</b>	2.0 GHz quad core, or greater.
<b>System memory</b>	6 GB plus 1 GB per each CPU code used by Tungsten Transformation, or more.
<b>Disk space</b>	18.0 GB, including OCR engines and NLP language bundles.
<b>Display</b>	N/A

### Hardware for Thin Client Server on separate server

The following are the minimum hardware requirements for the Thin Client Server when it is installed on a separate server from the rest of Tungsten Transformation. If the Thin Client Server is installed on a system with other Tungsten Transformation components, use the higher specification requirements.

Specifications	Description
<b>Processor</b>	2.0 GHz quad core, or greater.
<b>System memory</b>	6 GB, or more.
<b>Disk space</b>	2.0 GB.
<b>Display</b>	N/A

## Project Builder hardware requirements

The following hardware requirements are required for installing Project Builder. If Project Builder is installed on a system with other Tungsten Transformation components, the higher requirements apply.

Specifications	Description
<b>Processor</b>	2.0 GHz quad core, or greater.
<b>System memory</b>	6 GB, or more.
<b>Disk space</b>	18.0 GB, including OCR engines and NLP language bundles.
<b>Display</b>	Screens - Resolution: <ul style="list-style-type: none"> <li>• Minimum Resolution: 1280x800.</li> </ul> Screens - High DPI support: <ul style="list-style-type: none"> <li>• 100% supported on all screens.</li> <li>• 125% only from screen resolutions 1440x900 and higher.</li> </ul> 150% and higher not supported.

## User module hardware requirements

The following hardware requirements are needed to install the rich client user modules and using the Thin Clients.

**Minimum hardware requirements for a rich client workstation**

Specifications	Description
<b>Processor</b>	2.0 GHz dual core, or greater.
<b>System memory</b>	4 GB, or more.
<b>Disk space</b>	2.0 GB on the local installation drive, plus 500MB available where your operating system is installed, for installation files, temporary files, and working space during processing.
<b>Display</b>	Screens - Resolution: <ul style="list-style-type: none"><li>• Minimum Resolution: 1280x800.</li></ul> Screens - High DPI support: <ul style="list-style-type: none"><li>• 100% supported on all screens.</li><li>• 125% only from screen resolutions 1440x900 and higher.</li></ul> 150% and higher not supported.

**Minimum hardware requirements for a Thin Client workstation**

Specifications	Description
<b>Processor</b>	2.0 GHz dual core, or greater.
<b>System memory</b>	4 GB, or more.
<b>Disk space</b>	2.0 GB on the local installation drive, plus 500MB available where your operating system is installed, for installation files, temporary files, and working space during processing.
<b>Display</b>	Screens - Resolution: <ul style="list-style-type: none"><li>• Minimum Resolution: 1280x800.</li></ul>