



# Tungsten OmniPage Capture SDK Technical Specification

Version: 22.2.0

Date: 2024-05-28

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**AUTOMATION**

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## Chapter 1

# About OmniPage Capture SDK

OmniPage Capture Software Development Kit (CSDK) for Windows is a developer kit for the developer customers to incorporate image processing, OCR, document conversion, document classification, and data extraction capabilities into their applications. The technical specifications in this document are specific to CSDK for Windows, version 22.2.0.

You must meet the requirements to support your OmniPageCapture Software Development Kit 22.2.0 development system. These requirements specifically list the needs of OmniPageCapture Software Development Kit 22.2.0 and do not include any amount of memory or disk space you require for the operating system, environment, or other software that runs on the same machine.

## Chapter 2

# Product requirements

## Product components

Specification	Description
Hardware	<p>Development:</p> <ul style="list-style-type: none"><li>• Microarchitecture Feature Level x86-64-v2 compatible processor required.</li></ul> <div data-bbox="901 913 1453 1134" style="border: 1px solid #add8e6; padding: 5px;"><p><b>i</b> Microarchitecture Feature Levels are defined by AMD, Intel, Red Hat, and SUSE. Examples for x86-64-v2: minimum 1st gen. Intel Core i5 or i7, AMD K10 Examples for x86-64-v3: minimum 4th gen. Intel Core, AMD Excavator</p></div> <ul style="list-style-type: none"><li>• Microarchitecture Feature Level x86-64-v3 compatible processor recommended.</li><li>• 4 GB minimum RAM (8 GB recommended, more for working with grayscale or color images and more for multithreaded applications)</li><li>• 4 GB free disk space</li></ul> <p>Runtime:</p> <ul style="list-style-type: none"><li>• Microarchitecture Feature Level x86-64-v2 compatible processor required.</li><li>• Microarchitecture Feature Level x86-64-v3 compatible processor recommended.</li><li>• 4 GB minimum RAM (8 GB recommended, more for working with grayscale or color images and more for multithreaded applications)</li><li>• 1 GB free disk space (less if not all recognition modules are distributed)</li></ul>
Browser	<p>Supported browsers for license management:</p> <ul style="list-style-type: none"><li>• Chrome</li><li>• Firefox</li><li>• Edge</li></ul>

Specification	Description
<p>Desktop operating systems</p>	<p>Operating system for development:</p> <ul style="list-style-type: none"> <li>• Windows 10 x86/x64</li> <li>• Windows 11 x64</li> </ul> <div data-bbox="870 464 1451 615" style="background-color: #e1f5fe; padding: 5px; margin-top: 10px;"> <p><b>i</b> For operating systems subjected to the <a href="#">Modern Lifecycle Policy</a>, only the versions supported by Microsoft are supported by Tungsten.</p> </div> <p>Operating system for runtimes (customer applications):</p> <ul style="list-style-type: none"> <li>• Windows 10 x86/x64</li> <li>• Windows 11 x64</li> </ul> <div data-bbox="870 806 1451 957" style="background-color: #e1f5fe; padding: 5px; margin-top: 10px;"> <p><b>i</b> For operating systems subjected to the <a href="#">Modern Lifecycle Policy</a>, only the versions supported by Microsoft are supported by Tungsten.</p> </div>
<p>Server operating systems</p>	<p>Operating systems for development:</p> <ul style="list-style-type: none"> <li>• Windows Server 2012/R2</li> <li>• Windows Server 2016</li> <li>• Windows Server 2019</li> <li>• Windows Server 2022</li> </ul> <div data-bbox="870 1190 1451 1341" style="background-color: #e1f5fe; padding: 5px; margin-top: 10px;"> <p><b>i</b> For operating systems subjected to the <a href="#">Modern Lifecycle Policy</a>, only the versions supported by Microsoft are supported by Tungsten.</p> </div>

Specification	Description
	<p>Operating systems for runtimes (customer applications):</p> <ul style="list-style-type: none"> <li>• Windows Server 2016</li> <li>• Windows Server 2019</li> <li>• Windows Server 2022</li> <li>• Windows Server Core in Docker containers</li> </ul> <p>Discontinued in this release:</p> <ul style="list-style-type: none"> <li>• Windows Server 2012 R2 (also Core)</li> </ul> <div style="background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> <p><b>i</b> For operating systems subjected to the <a href="#">Modern Lifecycle Policy</a>, only the versions supported by Microsoft are supported by Tungsten.</p> </div>
Runtime libraries shipped with the product	<ul style="list-style-type: none"> <li>• Microsoft Visual C++ 2015-2022 Redistributable x86/x64</li> <li>• Microsoft .NET Framework 4.8.1</li> </ul>
Required runtime libraries	<ul style="list-style-type: none"> <li>• Microsoft Visual C++ Runtime 2015-2022 or later (for CSDK)</li> <li>• Microsoft .Net Framework 4.8.1 or later (for .Net applications)</li> <li>• Microsoft .Net Core 3.1 or later (for .Net Core applications)</li> </ul>

Specification	Description
Languages supported	<p>Developer documentation language:</p> <ul style="list-style-type: none"> <li>• English</li> </ul> <p>Visual Toolbox supported languages:</p> <ul style="list-style-type: none"> <li>• Brazilian Portuguese</li> <li>• Dutch</li> <li>• English</li> <li>• French</li> <li>• German</li> <li>• Italian</li> <li>• Japanese</li> <li>• Polish</li> <li>• Russian</li> <li>• Spanish</li> <li>• Swedish</li> <li>• Turkish</li> </ul> <p>127 OCR languages:</p> <p>AFRIKAANS, ALBANIAN, ARABIC, AYMARA, BASQUE, BELARUSIAN, BEMBA, BLACKFOOT, BRAZILIAN PORTUGUESE, BRETON, BUGOTU, BULGARIAN, CATALAN, CHAMORRO, CHECHEN, CHINESE - SIMPLIFIED, CHINESE - TRADITIONAL, CORSICAN, CROATIAN, CROW, CZECH, DANISH, DUTCH, ENGLISH, ESPERANTO, ESTONIAN, FAROESE, FIJIAN, FINNISH, FRENCH, FRISIAN, FRIULIAN, GAELIC - IRISH, GAELIC - SCOTTISH, GALICIAN, GANDA, GERMAN, GREEK, GUARANI, HANI, HAWAIIAN, HEBREW, HUNGARIAN, ICELANDIC, IDO, INDONESIAN, INTERLINGUA, INUIT, ITALIAN, JAPANESE, KABARDIAN, KASHUBIAN, KAWA, KIKUYU, KONGO, KOREAN, KPALLE, KURDISH, LATIN, LATVIAN, LITHUANIAN, LUBA, LUXEMBOURGIAN, MACEDONIAN, MALAGASY, MALAY, MALINKE, MALTESE, MAORI, MAYAN, MIAO, MINANKABAW, MOHAWK, MOLDAVIAN, NAHUATL, NORWEGIAN, NYANJA, OCCIDENTAL, OJIBWAY, PAPIAMENTO, PIDGIN ENGLISH, PIREZ, POLISH, PORTUGUESE, PROVENCAL, QUECHUA, RHAETIC, ROMANIAN, ROMANY, RUANDA, RUNDI, RUSSIAN, SAMI, SAMI LULE, SAMI NORTHERN, SAMI SOUTHERN, SAMOAN, SARDINIAN, SERBIAN - CYRILLIC, SERBIAN - LATIN, SHONA, SIOUX, SLOVAK, SLOVENIAN, SOMALI, SORBIAN, SOTHO, SPANISH, SUNDANESE, SWAHILI, SWAZI, SWEDISH, TAGALOG, TAHITIAN, THAI, TONGAN, TSWANA, TUN, TURKISH, UKRAINIAN, VIETNAMESE, VISAYAN, WELSH, WOLOF, XHOSA, ZAPOTEC, ZULU</p>



## Programming interfaces

<b>Programming interface</b>	<b>Required components</b>
RecAPI C/C++ interface (Kernel API)	Microsoft Visual C++ Runtime 2015-2022
RecAPI C/C++ interface (RecAPIPlus)	Microsoft Visual C++ Runtime 2015-2022
.NET API object interface	<ul style="list-style-type: none"><li>• Microsoft Visual C++ Runtime 2015-2022</li><li>• Microsoft .Net Framework 4.8.1 or later (for .Net applications)</li><li>• Microsoft .Net Core 3.1 or later (for .Net Core applications)</li></ul>
IProPlus ActiveX interface	Microsoft Visual C++ Runtime 2015-2022
Intelligent Workflow Runner (IWR) COM object interface	Microsoft Visual C++ Runtime 2015-2022
Java interface	<ul style="list-style-type: none"><li>• Java 1.2 or later</li><li>• Microsoft Visual C++ Runtime 2015-2022</li></ul>
Python interface	<ul style="list-style-type: none"><li>• Python 3.7, 3.8, 3.9, 3.10, 3.11, 3.12</li><li>• Microsoft Visual C++ Runtime 2015-2022</li></ul>