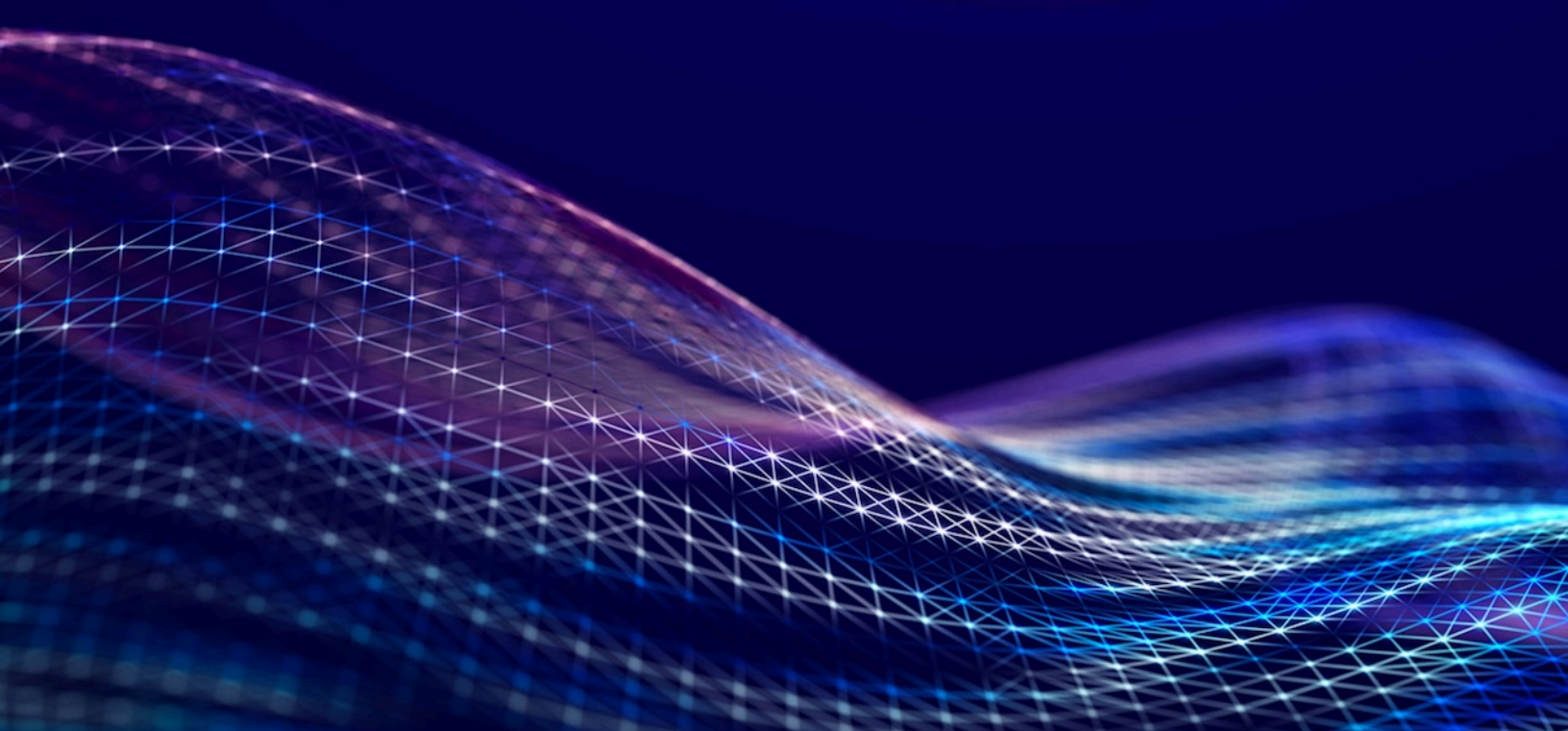




Tungsten SignDoc

Technical Specifications

2026.2

TUNGSTEN
AUTOMATION

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Document revision history

Date	Revision	Description
March 16, 2026	1.0	Initial version.

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Chapter 1

About Tungsten SignDoc technical specifications

Tungsten SignDoc is an enterprise level e-signature product family, which may either be utilized as part of an integration, or as a standalone application. Due to its integration options, it provides a starting point for any digital transformation initiative and provides a broad range of e-signing capabilities. Tungsten SignDoc supports all signing scenarios in any location (in-branch, in-store, in-office, in-field, at home), assisted, or non-assisted as self-service.

The technical specifications in this document are specific to the following components of version 2026.2:

- Tungsten SignDoc Standard 2026.2
- Tungsten SignDoc SDK 5.0.3
- Tungsten SignAlyze 2.3.0
- Tungsten SignDoc Device Support 2026.2
- Tungsten SignDoc Assistant 2026.2
- Tungsten SignDoc Microsoft Teams 2026.2

This document lists the required amount of memory and disk space. You must meet these requirements to support your system. These requirements specifically relate to Tungsten SignDoc 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 computer.

Chapter 2

Product requirements

Server

This section describes the software that runs on a server and references to requirements for Tungsten SignDoc Standard server. Requirements that only apply to one component are indicated as such.

Specification	Description
Hardware	A server class system is required to run Tungsten SignDoc servers in an enterprise environment. The servers can be operated on x86_64 architectures (Intel / AMD CPUs). The processing power of each physical server directly affects performance. As a minimum requirement, a quad core processor running at 2 GHz should be used. Memory: Minimum 16 GB RAM, recommended 32 GB. Free disk space: Minimum 100 GB or more hard disk space.
Accessibility	1 GBit/sec network minimum, configured at full duplex, is required for this server and the database server. If the system is installed behind a firewall, HTTP or HTTPS ports should be open within firewalls that restrict client access across your WAN or LAN. Certain hardware is prone to networking issues when TCP offloading is enabled. If you experience frequent networking issues, or use a Virtual Machine (VM), disable TCP offloading. You must disable this setting at all levels, including the host operating for both the Virtual Machine and its host, and NIC; and all machines within the server system including the database server. Refer to documentation from your vendor for instructions on how to disable TCP offloading.

Specification	Description
Server Operating Systems	We recommend that you upgrade to the latest operating system update for the following supported operating system versions. Microsoft Windows - Windows Server 2025 - Windows Server 2022 - Windows Server 64-bit 2019 - Windows Server 64-bit 2016 - Windows Server 2016 Extended support (end date: Dec. 1, 2027) Linux - Ubuntu 24.04 LTS - Standard Security Maintenance until April 2027 - End of life April 2034
Java Runtime	Server runtime - Windows 64-bit: Java 25 - Linux 64-bit: Java 25 Public interfaces - Windows 64-bit: Java 21 - Linux 64-bit: Java 21
DBMS	Microsoft SQL Server For the supported Microsoft SQL Server versions, the latest service pack is required.  For direct access to the database, SQL Server Command Line Utilities or Management Studio must be installed. - Azure SQL database 2022 2019 2017 - Microsoft Extended support (end date: Oct. 12, 2027) H2 DB - Supported for evaluation only
SMTP	Using the email functionality, an SMTP server must be installed and/or accessible. The required SMTP configuration is dependent on the network setup for each organization, along with other factors.  Tungsten SignDoc does not need to receive emails.
Required 3rd Party Technologies	- Windows systems - Visual C++ 2017 Redistributable Package (x64)

Specification	Description
Compatible Software	Tungsten TotalAgility • 2026.2, 2025.2 8.1, 8.0 Tungsten Communication Manager • 2025.3, 5.8, 5.7 Tungsten Power PDF • Windows version: 2025.3, 5.1
Languages supported	English
Virtual System	You can deploy the server on VMs running on operating systems as specified above.

Clients

This section describes what users need on the client side to create and maintain accounts as well as to create and maintain signing packages in Tungsten SignDoc Standard. It also describes what users need to sign or review documents using this application.

Requirements that apply to all clients of a web application are summarized in the [General requirements](#) section. Particular requirements that apply only to individual components are listed in a separate section.

General requirements

This section describes requirements that apply to all clients not operating on mobile devices.

Specification	Description
Hardware	We recommend a standard office desktop computer with at least 2 GB of RAM (4 GB RAM is recommended). There are additional requirements for client applications when native handwritten signatures have to be captured.
Browser (usage on desktop computer)	Microsoft Edge • Current version Google Chrome • Stable version Mozilla Firefox • ESR (current version) Safari • Mac OS X

Specification	Description
Operating Systems	We recommend that you upgrade to the latest operating system update for the following supported operating system versions. Microsoft Windows • Windows 11 Linux • Ubuntu 24.04 Mac OS • Mac OS 15.x

Manage Client and Administration Center

This section describes additional requirements and details for the client application to create and maintain accounts as well as to create and maintain signing packages.

Specification	Description
Accessibility	We recommend an Internet connection capable of 100 Mbps.
Mobile operating system	We recommend administrating Tungsten SignDoc Standard via desktop computer.  When using a mobile device for administration, we support medium size devices (tablets, 768 pixels and up).
Languages supported	GUI available in: • Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Simplified Chinese, Spanish  Other languages are in the responsibility of the customer.

Signing Client

This section describes additional requirements and details for the client web applications to sign or review documents.

Specification	Description
Compatible Hardware	For desktop computers, we support devices that are compatible with the supported browser technology and supported client operating system as listed below as well as 10 GB or more free hard disk space for installing software for native handwritten signature capture. For mobile devices, we support devices that are compatible with the supported mobile operating system as listed below using device default (standard) browser technology.  On mobile devices, the handwritten signature capturing is supported with a minimum of HTML5 capture.
Accessibility	The browser-based signing clients require an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection. Support mobile devices with mobile network or Wi-Fi network connectivity.
Mobile Operating Systems	Apple OS - iOS 26, 18, 17 - iOS 16, 15, 14, 13, 12, 11, 10, 9.3 are deprecated - iPadOS 26, 18, 17 - iPadOS 16, 15, 14, 13.1 are deprecated Google Android OS 16, 15x, 14x Microsoft Windows OS - Windows 11
Handwritten Signature Capture on mobile operating systems	The default (standard) browser technology delivered with the supported mobile operating system is supported for handwritten signature capturing.
Handwritten Signature Capturing (using browsers on desktop computer)	Microsoft Windows OS - Native handwritten signature capture support via Tungsten SignDoc Device Support minimum 3.4 - Microsoft Edge - Google Chrome (stable version) - Mozilla Firefox ESR (current version) - HTML5 handwritten signature capture - Microsoft Edge - Google Chrome (stable version) - Mozilla Firefox ESR (current version) Apple Mac OS - HTML5 handwritten signature capture - Safari

Specification	Description
Swedish BankID service	Microsoft Windows OS • Microsoft Edge • Google Chrome (stable version) • Mozilla Firefox ESR (current version)
Compatible Software (via browser on desktop computer)	Tungsten SignDoc Device Support (only for Windows desktop systems) • 2026.2, 2025.3, 3.4.0 native signature capture via Google Chrome, Mozilla Firefox, Microsoft Edge  The usage of "client certificates" requires Windows 11 as operating system.
Languages supported	GUI available in: • Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Simplified Chinese, Spanish  Other languages are in the responsibility of the customer.

Tungsten SignDoc SDK

The SDK enables the creation of applications that process documents, rendering as images, signing, and verifying PDF and TIFF documents. It provides functionality to capture and verify handwritten signatures on mobile devices, or from specific USB signature pads.

The SDK is delivered as 64-bit package.

Specification	Description
Hardware System Requirement for Development	Windows Microsoft Windows 11 (64-bit) Processor: Minimum 2 GB RAM, recommended 8 GB RAM 2 GB or more available disk space Additional disk space for development environment Linux Restricted to headless operations (no GUI and no GUI elements) Android Android development environment iOS As defined by iOS development environment

Specification	Description
Hardware System Requirement for Deployment	Windows 100 MB or more available disk space 1 GB RAM Linux 100 MB or more available disk space 1 GB RAM Android 1 GB RAM All Android devices are supported for signature capture. iOS 1 GB RAM 64-bit capable iOS hardware
Supported Platforms	android-arm64v8a android-armv7a darwin-x86_64 darwin_arm64 iOS-universal (arm64, x86_64) linux-x86_64 Win64 (amd64, x86) windows-arm64
Software System Requirement for Development	Windows, Linux Java • JRE 25, JRE 21 (JNI) • JRE 25 (FFM) Visual Studio 2017 or newer Android As defined by Android development environment iOS Xcode 16

Specification	Description
Software System Requirement for Deployment	Windows Visual C++ 2017 Redistributable Packages Java • JRE 25, JRE 21 (JNI) • JRE 25 (FFM) Linux Java • JRE 25, JRE 21 (JNI) • JRE 25 (FFM) Android 1 GB RAM iOS 1 GB RAM
Toolkits	Windows • C, C++, .NET, Java Linux • C, C++, Java Android • Java iOS • C, C++
Operating Systems	Windows • Windows 11 • Windows Server 2025 • Windows Server 2022 • Windows Server 64-bit 2019 • Windows Server 64-bit 2016 Linux • Ubuntu 24.04 LTS • Canonical Ltd Support until 2027 • End of life April 2032 Mac OS • Mac OS 15.x, 14.x Apple OS • iOS 26, 18, 17 • iPadOS 26, 18, 17 Google Android OS • 16, 15.x, 14x

Specification	Description
Mobile devices from Apple	iPhone (compatible with iOS 26, 18.x, 17.x) iPad (compatible with iPadOS 26, 18.x, 17.x)  Apple devices not upgradable to specified operating systems are not available for the described Tungsten SignDoc SDK version. Apple devices that are unsupported by Apple are not supported.
Languages supported	English

Tungsten SignAlyze

SignAlyze is a standalone application to visualize handwritten biometric signatures, compare them, and validate certificates associated with the document including the signature data. It is an interactive tool providing forensic experts additional information for signature analysis.

Specification	Description
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 500 MB or more free hard disk space.
Client Operating Systems	We recommend that you upgrade to the latest operating system update for the following supported operating system versions. Microsoft Windows Windows 11
Required 3rd Party Technologies	Microsoft shared runtime libraries: Visual C++ 2017 Redistributable Packages
Compatible Software	Tungsten SignDoc Device Support 2025.3, 3.4.0 native signature capture
Languages supported	GUI available in: - English - German

Tungsten SignDoc Device Support

This device driver supports handwritten signature capture using external devices and retrieving personal certificates on an external device.

Setup

The setup installs the device support components.

Specification	Description
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.
Operating Systems	We recommend that you upgrade to the latest operating system patch of the following supported operating system versions. Microsoft Windows Client Windows 11
Required 3rd Party Technologies	- Microsoft Visual C++ 2022 Redistributable - Manufacturer device drivers for signature pads.
Languages supported	English

Core - Device Connector

The Device Connector enables the web-based capture of handwritten signatures. The Device Connector is also required to retrieve certificates.

Specification	Description
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.
Browser	We recommend that you upgrade to the latest stable channel or long-term supported versions - Microsoft Edge - Google Chrome (stable version) - Mozilla Firefox ESR (current version)
Client Operating Systems	We recommend that you upgrade to the latest operating system update for the following supported operating system versions. Microsoft Windows Windows 11
Required 3rd Party Technologies	Microsoft Visual C++ 2022 Redistributable
Compatible 3rd Party Technologies	USB Signature Pads with LCD - WACOM STU-500, STU-520, STU-530, STU-540, STU-541 - WACOM STU-430 - WACOM STU-300 USB Token - SafeNet eToken 5110 Series
Compatible Software	Tungsten SignDoc Standard 2026.2, 2025.3, 3.4.0

Core - SignPad Driver, Touch & Pen Support

SignPad driver components enable capture of handwritten signatures using WACOM devices and provide an access module for Windows integrated touch pen devices.

Specification	Description
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.
Client Operating Systems	We recommend that you upgrade to the latest operating system update for the following supported operating system versions. Microsoft Windows • Windows 11
Required 3rd Party Technologies	• Microsoft Visual C++ 2022 Redistributable
Compatible 3rd Party Technologies	USB Signature Pads with LCD • WACOM STU-500, STU-520, STU-530, STU-540, STU-541 • WACOM STU-430 • WACOM STU-300
Compatible Software	Tungsten SignDoc • 2026.2, 2025.3, 3.4.0

Core - Virtual Channel

The Virtual Channel component allows the usage of USB signature pads without a COM Port Mapping.

Specification	Description
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.
Operating System	Microsoft Windows • Windows 11 • Windows Server 2022 • Windows Server 64-bit 2019 Linux • Ubuntu 24.04 LTS

Specification	Description
Client - Server Protocol	Windows • ICA • RDP Linux • ICA
Required 3rd Party Technologies	• Citrix Client • Windows • Linux • Terminal Service - Microsoft Remote Desktop Client on Windows (64-bit)
Compatible 3rd Party Technologies	USB Signature Pads with LCD • WACOM STU-500, STU-520, STU-530, STU-540, STU-541 • WACOM STU-430 • WACOM STU-300
Compatible Software	Tungsten SignDoc • 2026.2, 2025.3, 3.4.0