

# Kofax SignDoc

## Technical Specifications

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## About Kofax SignDoc Technical Specifications

Kofax 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. Kofax SignDoc caters for 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 which are included as part of Kofax SignDoc 2.0.1:

- SignDoc Standard 1.3.1
- SignDoc Web 5.2.1
- SignDoc SDK 4.2.0
- SignDoc Desktop 3.4.7
- SignDoc Adobe Reader 2.8.2.3
- SignDoc Mobile for Android 2.0.4
- SignAlyze 1.7.0.6
- SignDoc Device Support 2.0.1
- Legacy
  - Virtual Serial SignPad 1.4.6
  - SignDoc Web Mobile SDK 1.1.9

**Note:** Device Connector Setup is replaced with SignDoc Devices Setup containing also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.

## SignDoc Standard

### About SignDoc Standard

SignDoc Standard is the workflow solution for orchestration of signing ceremonies (e.g. for executing contracts, or managing approval processes). It encompasses the creation of signing packages, managing signer engagement, and the actual e-signing execution and provision of audit options. E-signing electronic documents is triggered via capturing a handwritten signature, click-to-sign, or adding a photo of a signer and/or an ID document in combination with a digital signature. The technical specifications in this section are specific to SignDoc Standard, version 1.3.1.

This section provides the requirements for the following parts:

- SignDoc Standard, server side; and
- SignDoc Standard, user clients.

### Product requirements

#### SignDoc Standard, server side

This part describes the software that runs on a server to provide account and user administration, creation and management of signing packages, and arrangement of signing ceremonies.

| Specification                   | Description  |
|---------------------------------|--|
| <b>Hardware</b>                 | <p>A server class system is required to run SignDoc Standard in an enterprise environment. The processing power of this physical server directly affects performance. As a minimum requirement, a quad core processor running at 2 GHz should be used.</p> <p>Memory: minimum 16 GB RAM, recommended 32 GB</p> <p>Disk space: minimum 100 GB, or more free hard disk space.</p>  |
| <b>Accessibility</b>            | <p>1 GB network minimum, configured at full duplex, is required for this server and the database server.</p> <p>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.</p> <p>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 virtual machine's host operating system, virtual machine's operating system, and NIC; and all machines within the SignDoc Standard system including the database server. Refer to your vendor's information for instructions on how to disable TCP offloading.</p> |
| <b>Server Operating Systems</b> | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p>  |

| Specification                                     | Description  |
|---|--|
|   | <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> <li>• Requires Microsoft extended support (end date: Jan 14, 2020)</li> </ul> </li> <li>• Windows Server 64-bit 2012</li> <li>• Windows Server 64-bit 2012 R2 (recommended)</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• openSUSE/SLES greater or equal to version 13.1</li> <li>• CentOS/RHEL greater or equal to version 6</li> <li>• Ubuntu 16.04 LTS</li> <li>• Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul>  |
| <p><b>Web Servers/Web Application Servers</b></p> | <p>SignDoc Standard can be run on any Java EE server compatible with Java EE servlet version 2.5 or newer, and still under support by its respective manufacturer.</p> <p>The support of SignDoc Standard on Java EE application servers is limited to Tomcat, JBoss and WebSphere. Installation &amp; deployment guide is available for Tomcat only. Please see the respective manufacturer's application server installation and deployment instructions for how to deploy Java EE .war files that use native code via JNI.</p> <p><b>Application Server</b></p> <ul style="list-style-type: none"> <li>• Tested: Tomcat 8.0.x – 8.0.32, 8.5.x – 8.5.13 13 (other versions are not recommended)</li> </ul> <p><b>Java SE</b> (Java Runtime for Portal and Application server)</p> <ul style="list-style-type: none"> <li>• Windows 64-bit: Java 8</li> <li>• Linux 64-bit: Java 8</li> </ul> <p><b>Java Cryptography Extension (JCE)</b> Unlimited Strength Jurisdiction Policy Files 8</p> <p><b>Note</b> that version conflicts of open source libraries can occur if your Application Server and SignDoc Standard both use different versions of the same java libraries. Refer to your Java EE server documentation for how to resolve such conflicts.</p> <p><b>Note</b> also, SignDoc Standard uses a native layer that must be made accessible for the JNI Classloader of SignDoc Standard via your Java EE server. Refer to your Java EE server documentation for how to make native libraries accessible. Usually, it is sufficient to add the native libraries to the system path.</p> |

| Specification                                     | Description  |
|---|--|
| <b>DBMS</b>                                       | <p><b>Microsoft SQL Server</b></p> <ul style="list-style-type: none"> <li>• Microsoft SQL Server 2012 (Standard or Enterprise Edition)</li> <li>• Microsoft SQL Server 2014 (Standard or Enterprise Edition)</li> <li>• <b>Note:</b> For direct access to the database SQL Server Command Line Utilities or Management Studio have to be installed.</li> </ul> <p><b>AWS Cloud</b></p> <ul style="list-style-type: none"> <li>• SQL Server Web 11</li> </ul> <p><b>H2 DB</b></p> <ul style="list-style-type: none"> <li>• Supported for evaluation only</li> </ul> |
| <b>SMTP</b>                                       | <p>Using the email functionality, an SMTP server must be installed and/or accessible. The required SMTP configuration is dependent on the network setup, etc. of each individual organization.</p> <p><b>Note:</b> Kofax SignDoc does not need to receive emails</p>   |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | <ul style="list-style-type: none"> <li>• Windows systems <ul style="list-style-type: none"> <li>• Visual C++ 2008 Redistributable SP1</li> </ul> </li> <li>• Java Runtime Environment <ul style="list-style-type: none"> <li>• Windows 64-bit: Java 8</li> <li>• Linux 64-bit: Java 8</li> </ul> </li> </ul> <p><b>Note:</b> Java 32-bit is deprecated</p>   |
| <b>Compatible Software</b>                        | <p><b>Kofax Total Agility</b></p> <ul style="list-style-type: none"> <li>• 7.2.1, 7.3.0 (via Kofax SignDoc Standard REST API v2)</li> </ul> <p><b>Kofax Customer Communication Manager</b></p> <ul style="list-style-type: none"> <li>• 5.0 or higher (via Kofax SignDoc Standard REST API v2)</li> </ul>  |
| <b>Languages supported</b>                        | English  |
| <b>Virtual System</b>                             | You can deploy SignDoc Standard server on virtual machines running on operating systems as specified above.  |

## SignDoc Standard - Administration Center

This section describes what administrators need in order to create and maintain accounts in SignDoc Standard.

| Specification                   | Description  |
|---------------------------------|--|
| <b>Hardware</b>                 | We recommend a standard office PC with at least 2 GB of RAM (recommended is 4 GB of RAM).  |
| <b>Accessibility</b>            | For SignDoc Standard we recommend an Internet connection capable of 100 Mbps.  |
| <b>Browser</b>                  | <p><b>Edge</b></p> <ul style="list-style-type: none"> <li>Edge           <ul style="list-style-type: none"> <li>Windows 10 (32-bit or 64-bit)</li> </ul> </li> </ul> <p><b>Internet Explorer</b></p> <ul style="list-style-type: none"> <li>Internet Explorer 11 (32-bit or 64-bit)           <ul style="list-style-type: none"> <li>Windows 10, 8.1, 8, 7 (32-bit or 64-bit)</li> </ul> </li> <li>Internet Explorer 10           <ul style="list-style-type: none"> <li><b>Note:</b> Please visit the Internet Explorer Support Lifecycle Policy FAQ here <a href="http://support.microsoft.com/gp/Microsoft-Internet-Explorer">http://support.microsoft.com/gp/Microsoft-Internet-Explorer</a> for list of supported operating systems and browser combinations.</li> </ul> </li> </ul> <p><b>Chrome</b></p> <p><b>Firefox</b></p> <ul style="list-style-type: none"> <li>ESR Version</li> </ul> <p><b>Safari Browser</b></p> <ul style="list-style-type: none"> <li>Safari Browser 9           <ul style="list-style-type: none"> <li>Mac OS X</li> </ul> </li> </ul> |
| <b>Mobile Operating Systems</b> | We recommend administrating SignDoc Standard via Desktop computer.   |
| <b>Client Operating Systems</b> | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>Windows 10 (32-bit or 64-bit)</li> <li>Windows 8 / 8.1 (32-bit or 64-bit)</li> <li><b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul>   |



| Specification              | Description   |
|----------------------------|---|
|                            | <p><b>Linux</b></p> <p><b>Mac OS</b></p> <ul style="list-style-type: none"> <li>• OS X</li> </ul> |
| <b>Languages supported</b> | <p><b>GUI</b> available in</p> <ul style="list-style-type: none"> <li>• English</li> </ul>        |

## SignDoc Standard - Manage Client

This section describes what business administrators and users need to maintain accounts, as well as to create and manage signing packages.

| Specification        | Description   |
|----------------------|---|
| <b>Hardware</b>      | We recommend a standard office PC with at least 2 GB of RAM (recommended is 4 GB of RAM).   |
| <b>Accessibility</b> | For SignDoc Standard we recommend an Internet connection capable of 100 Mbps.   |
| <b>Browser</b>       | <p><b>Edge</b></p> <ul style="list-style-type: none"> <li>• Edge <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> </ul> </li> </ul> <p>Note: Known issues require the use of integrated Internet Explorer.</p> <p><b>Internet Explorer</b></p> <ul style="list-style-type: none"> <li>• Internet Explorer 11 (32-bit or 64-bit) <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7 (32-bit or 64-bit)</li> </ul> </li> <li>• Internet Explorer 10 <ul style="list-style-type: none"> <li>• <b>Note:</b> Please visit the Internet Explorer Support Lifecycle Policy FAQ here <a href="http://support.microsoft.com/gp/Microsoft-Internet-Explorer">http://support.microsoft.com/gp/Microsoft-Internet-Explorer</a> for list of supported operating systems and browser combinations.</li> </ul> </li> </ul> <p><b>Chrome</b></p> <p><b>Firefox</b></p> <ul style="list-style-type: none"> <li>• ESR Version</li> </ul> <p><b>Safari Browser</b></p> <ul style="list-style-type: none"> <li>• Safari Browser 9</li> </ul> |

| Specification                   | Description  |
|---------------------------------|--|
|                                 | <ul style="list-style-type: none"> <li>Mac OS X</li> </ul>   |
| <b>Mobile Operating Systems</b> | We recommend administrating SignDoc Standard via Desktop computer.   |
| <b>Client Operating Systems</b> | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>Windows 10 (32-bit or 64-bit)</li> <li>Windows 8 / 8.1 (32-bit or 64-bit)</li> <li><b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> <p><b>Linux</b></p> <p><b>Mac OS</b></p> <ul style="list-style-type: none"> <li>OS X</li> </ul> |
| <b>Languages supported</b>      | <p><b>GUI</b> available in</p> <ul style="list-style-type: none"> <li>English</li> </ul>   |

## SignDoc Standard - Signing Client

This section describes what users need in order to sign or review documents of a signing package.

| Specification              | Description   |
|----------------------------|---|
| <b>Compatible Hardware</b> | <p>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.</p> <p>For mobile devices, we support that are compatible with the supported mobile operating system as listed below using device default (standard) browser technology.</p> <p><b>Note:</b> On mobile devices, the handwritten signature capturing is supported as HTML5 capture.</p> |
| <b>Accessibility</b>       | <p>SignDoc Standard requires an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection.</p> <p>Supported mobile devices with mobile network or Wi-Fi network connectivity.</p>  |

| Specification         | Description  |
|-----------------------|--|
| <p><b>Browser</b></p> | <p><b>Edge</b></p> <ul style="list-style-type: none"> <li>• Edge                             <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• no native handwritten signature capture support via Device Connector (SignDoc Device Support)</li> </ul> </li> </ul> <p><b>Internet Explorer</b></p> <ul style="list-style-type: none"> <li>• Internet Explorer 11 (32-bit)                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7 (32-bit or 64-bit)</li> <li>• native handwritten signature capture support via Device Connector (SignDoc Device Support)</li> </ul> </li> <li>• Internet Explorer 10                             <ul style="list-style-type: none"> <li>• <b>Note:</b> Please visit the Internet Explorer Support Lifecycle Policy FAQ here <a href="http://support.microsoft.com/gp/Microsoft-Internet-Explorer">http://support.microsoft.com/gp/Microsoft-Internet-Explorer</a> for list of supported operating systems and browser combinations.</li> </ul> </li> </ul> <p><b>Chrome (32-bit)</b></p> <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support via Device Connector (SignDoc Device Support)</li> <li>• Linux no native handwritten signature capture support via DeviceConnector</li> <li>• HTML5 signature capture requires versions supporting HTML5 canvas</li> </ul> <p><b>Firefox</b></p> <ul style="list-style-type: none"> <li>• Firefox &gt;42                             <ul style="list-style-type: none"> <li>○ Windows 10, 8.1, 8, 7: native handwritten signature capture support via Device Connector (SignDoc Device Support)</li> <li>○ HTML5 handwritten signature capture is available</li> </ul> </li> <li>• Firefox ESR =45                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support only via SignDoc Browser Plugin (2.1.8)</li> </ul> </li> <li>• Firefox &lt;=42                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support only via SignDoc Browser Plugin (2.1.8)</li> </ul> </li> </ul> <p><b>Safari Browser</b></p> <ul style="list-style-type: none"> <li>• Safari Browser 9</li> </ul> |

| Specification  | Description  |
|--|--|
|  | <ul style="list-style-type: none"> <li>○ Mac OS X</li> <li>○ no native handwritten signature capture support via Device connector or SignDoc Browser Plugin</li> </ul>   |
| <p><b>Mobile Operating Systems</b></p>                   | <p><b>Apple OS</b></p> <ul style="list-style-type: none"> <li>• iOS 9</li> <li>• iOS 10</li> </ul> <p><b>Google Android OS</b></p> <ul style="list-style-type: none"> <li>• Android 4.4, 5.x</li> <li>• Android 6.0</li> <li>• Android 7.x (not tested)</li> </ul> <p><b>Microsoft Windows OS</b></p> <ul style="list-style-type: none"> <li>• Windows 10, 8.1</li> </ul>  |
| <p><b>Client Operating Systems</b></p>                   | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• Only x86/x64</li> <li>• <b>Note:</b> supported signing methods: click-to sign</li> </ul> <p><b>Mac OS</b></p> <ul style="list-style-type: none"> <li>• OS X</li> </ul> |
| <p><b>Required 3<sup>rd</sup> Party Technologies</b></p> | <p><b>Tutorial</b></p> <ul style="list-style-type: none"> <li>• Flash Content:             <ul style="list-style-type: none"> <li>• Adobe Flash Player 10.3 or later, and one of the following browsers:                 <ul style="list-style-type: none"> <li>• Windows: Internet Explorer 8 and later, Microsoft Edge (latest version), Google Chrome (latest version), Firefox (latest version)</li> <li>• Mac: Safari 7 and later, Google Chrome (latest version), Firefox (latest version)</li> </ul> </li> </ul> </li> <li>• HTML5</li> </ul>   |

| Specification                     | Description   |
|-----------------------------------|---|
|                                   | <ul style="list-style-type: none"> <li>○ Windows: Google Chrome (latest version)</li> <li>○ Mac: Safari 7 and later, Google Chrome (latest version)</li> <li>○ Mobile: Safari in Apple iOS 7 and later, Google Chrome (latest version) in Android OS 4.1 and later</li> <li>• Apple iOS                             <ul style="list-style-type: none"> <li>• Articulate Mobile Player in Apple iOS 7 or later on iPad</li> </ul> </li> <li>• Android OS                             <ul style="list-style-type: none"> <li>• Articulate Mobile Player in Android OS 4.1 or later (optimized for tablets)</li> </ul> </li> </ul> |
| <p><b>Compatible Software</b></p> | <p><b>SignDoc Device Support</b></p> <ul style="list-style-type: none"> <li>• 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11</li> </ul> <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>   |
| <p><b>Languages supported</b></p> | <p><b>GUI</b> available in:</p> <ul style="list-style-type: none"> <li>• Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Spanish</li> </ul>   |

## SignDoc Web

### About SignDoc Web

SignDoc Web allows integration capabilities for e-signing documents into systems that can be used to replace existing paper-based signing processes. In addition to the in-browser capabilities via HTML5, SignDoc Web may be operated in combination with browser clients and mobile apps ( SignDoc Mobile). Browser Clients are offering capture support for handwritten signatures including their biometric signals when used in conjunction with the SignDoc device connector. The technical specifications in this section are specific to SignDoc Web, version 5.2.1.

This section provides the requirements for the following parts:

- SignDoc Web, server side; and
- SignDoc Web, users clients
  - Browser client
  - App client

### Product requirements

#### SignDoc Web, server side

This section describes the software that runs on a server.

| Specification                   | Description  |
|---------------------------------|--|
| <b>Hardware</b>                 | <p>A server class system is required to run SignDoc Web in an enterprise environment. The processing power of this physical server directly affects performance. As a minimum requirement, use a quad core processor running at 2 GHz.</p> <p>Memory: minimum 4 GB RAM, recommended 16 GB</p> <p>Disk space: minimum 100 GB or more free hard disk space.</p>  |
| <b>Accessibility</b>            | <p>1 GB network minimum, configured at full duplex, is required for this server and the database server.</p> <p>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.</p> <p>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 virtual machine's host operating system, virtual machine's operating system, and NIC. Refer to your vendor's information for instructions on how to disable TCP offloading.</p> |
| <b>Server Operating Systems</b> | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p>  |

| Specification  | Description   |
|--|---|
|  | <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> <li>• Requires Microsoft extended support (end date: Jan 14, 2020)</li> </ul> </li> <li>• Windows Server 64-bit 2012</li> <li>• Windows Server 64-bit 2012 R2</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• openSUSE/SLES greater or equal to version 13.1</li> <li>• CentOS/RHEL greater or equal to version 6</li> <li>• Ubuntu 16.04 LTS</li> <li>• Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul>   |
| <p><b>Web Servers/Web Application Servers</b></p>        | <p>SignDoc Web can be run on any Java EE server compatible with Java EE servlet version 2.5 or newer, and still under support by its respective manufacturer.</p> <p>The support of SignDoc Web on Java EE application servers is limited to Tomcat, JBoss and WebSphere. Installation &amp; deployment guide is available for Tomcat only. Please see the according manufacturer's application server installation and deployment instructions for how to deploy Java EE .war files that use native code via JNI.</p> <p><b>Application Server</b></p> <ul style="list-style-type: none"> <li>• Tested: Tomcat 8.0.x – 8.0.32, 8.5.x – 8.5.13 (other versions are not recommended)</li> </ul> <p><b>Java SE</b> (Java Runtime for Portal and Application server)</p> <ul style="list-style-type: none"> <li>• Windows 64-bit: Java 8</li> <li>• Linux 64-bit: Java 8</li> </ul> <p><b>Java Cryptography Extension (JCE)</b> Unlimited Strength Jurisdiction Policy Files 8</p> <p><b>Note</b> that version conflicts of open source libraries can occur if your Application Server and SignDoc Web both use the same java libraries in different versions. Refer to your Java EE server documentation for how to resolve these.</p> <p><b>Note</b> also, SignDoc Web uses a native layer that must be made accessible for the JNI Classloader of SignDoc Web via your Java EE server. Refer to your Java EE server documentation for how to make native libraries accessible. Usually it is sufficient to add the native libraries to the system path.</p> |
| <p><b>Required 3<sup>rd</sup> Party Technologies</b></p> | <ul style="list-style-type: none"> <li>• Windows systems <ul style="list-style-type: none"> <li>• Visual C++ 2008 Redistributable SP1</li> </ul> </li> </ul>  |

| Specification              | Description  |
|----------------------------|--|
|                            | <ul style="list-style-type: none"> <li>Java Runtime Environment <ul style="list-style-type: none"> <li>Windows 64-bit: Java 8 <ul style="list-style-type: none"> <li>Deprecated: 32-bit</li> </ul> </li> <li>Linux 64-bit: Java 8 <ul style="list-style-type: none"> <li>Deprecated: 32-bit</li> </ul> </li> </ul> </li> </ul>                                   |
| <b>Compatible Software</b> | <p><b>Kofax FraudOne</b></p> <ul style="list-style-type: none"> <li>4.3 or higher (via Kofax SignDoc Web 5.1 plugin version v2, see technical specification of Kofax FraudOne)</li> </ul> <p><b>Kofax Onboarding Agility</b></p> <ul style="list-style-type: none"> <li>1.1 or higher (see technical specification of Kofax Total Onboarding Agility)</li> </ul> |
| <b>Languages supported</b> | English  |
| <b>Virtual System</b>      | You can deploy SignDoc Web server on virtual machines running on operating systems as mentioned above.   |

## SignDoc Web, client side - Browser Client

This section describes what users need to sign or review documents using only browser of the device.

| Specification        | Description   |
|----------------------|---|
| <b>Hardware</b>      | <p>For desktop computers, we support devices that are compatible with the supported browser technology and supported client operating as listed below system as well as 10 GB or more free hard disk space for installing software for native handwritten signature capture.</p> <p>For mobile devices, we support devices that are compatible with the supported mobile operating system as listed below using device default (standard) browser technology.</p> <p><b>Note:</b> On mobile devices, the handwritten signature capturing is supported as HTML5 capture.</p> |
| <b>Accessibility</b> | <p>SignDoc Web requires an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection.</p> <p>Supported mobile devices with mobile network or Wi-Fi network connectivity.</p>   |
| <b>Browser</b>       | <p><b>Edge</b></p> <ul style="list-style-type: none"> <li>Edge</li> </ul>   |



| Specification | Description  |
|---------------|--|
|               | <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)                             <ul style="list-style-type: none"> <li>• no native handwritten signature capture support</li> </ul> </li> </ul> <p><b>Internet Explorer</b></p> <ul style="list-style-type: none"> <li>• Internet Explorer 11 (32-bit)                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7 (32-bit or 64-bit)                                     <ul style="list-style-type: none"> <li>• native handwritten signature capture support via Device connector (1.1.1)</li> </ul> </li> </ul> </li> <li>• Internet Explorer 10                             <ul style="list-style-type: none"> <li>• <b>Note:</b> Please visit the Internet Explorer Support Lifecycle Policy FAQ here <a href="http://support.microsoft.com/gp/Microsoft-Internet-Explorer">http://support.microsoft.com/gp/Microsoft-Internet-Explorer</a> for list of supported operating systems and browser combinations.</li> </ul> </li> </ul> <p><b>Chrome (32-bit)</b></p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support via Device connector (1.1.1)</li> <li>• Linux no native handwritten signature capture support via Device connector (1.1.1)</li> <li>• HTML5 signature capture requires versions supporting HTML5 canvas</li> </ul> <p><b>Firefox</b></p> <ul style="list-style-type: none"> <li>• Firefox ESR =45                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support only via SignDoc Browser Plugin (2.1.8)</li> </ul> </li> <li>• Firefox &lt;=42                             <ul style="list-style-type: none"> <li>• Windows 10, 8.1, 8, 7: native handwritten signature capture support only via SignDoc Browser Plugin (2.1.8)</li> </ul> </li> <li>• Firefox &gt;42                             <ul style="list-style-type: none"> <li>• Firefox versions dropping NPAPI support do not support native handwritten signature capture support via SignDoc Browser Plugin</li> <li>• HTML5 handwritten signature capture is available</li> </ul> </li> </ul> <p><b>Safari Browser</b></p> <ul style="list-style-type: none"> <li>• Safari Browser 9                             <ul style="list-style-type: none"> <li>• Mac OS X                                     <ul style="list-style-type: none"> <li>• no native handwritten signature capture support via Device</li> </ul> </li> </ul> </li> </ul> |

| Specification                   | Description  |
|---------------------------------|--|
|                                 | connector or SignDoc Browser Plugin  |
| <b>Mobile Operating Systems</b> | <p><b>Apple OS</b></p> <ul style="list-style-type: none"> <li>• iOS 9, 10</li> </ul> <p><b>Android OS</b></p> <ul style="list-style-type: none"> <li>• Android 4.4, 5.x</li> <li>• Android 6.x</li> </ul>  |
| <b>Client Operating Systems</b> | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> <p><b>Linux</b></p> <p><b>Mac OS</b></p> <ul style="list-style-type: none"> <li>• OS X</li> </ul> |
| <b>Compatible Software</b>      | <p><b>SignDoc Device Support</b></p> <ul style="list-style-type: none"> <li>• 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11</li> </ul> <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>  |
| <b>Languages supported</b>      | <p><b>GWT GUI</b> available in:</p> <ul style="list-style-type: none"> <li>• Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Spanish</li> </ul>  |

## SignDoc Web, client side - SignDoc Mobile

This section describes what users need in order to sign, or review documents using the SignDoc Mobile app. Using SignDoc Mobile, native handwritten signature capturing is supported.

| Specification   | Description |
|-----------------|-------------|
| <b>Hardware</b> | RAM 1 GB    |

| Specification                   | Description  |
|---------------------------------|--|
| <b>Accessibility</b>            | <p>SignDoc Web requires an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection.</p> <p>Supported mobile devices with mobile network or Wi-Fi network connectivity.</p>  |
| <b>Mobile Operating Systems</b> | <p><b>Apple OS</b></p> <ul style="list-style-type: none"> <li>• iOS 9, 10</li> <li>• iOS &gt;=5.1.1 (App Store information)</li> </ul> <p><b>Android OS</b></p> <ul style="list-style-type: none"> <li>• Android 6.0</li> <li>• Android 5.x</li> <li>• Android 4.0 (App Store information)</li> </ul> <p><b>Microsoft Windows OS</b> (only as app store subscription)</p> <ul style="list-style-type: none"> <li>• Windows 8.1</li> <li>• <b>Note:</b> Windows 10 is not supported.</li> </ul> |
| <b>Languages supported</b>      | <p>available in:</p> <ul style="list-style-type: none"> <li>• English</li> </ul>   |

## SignDoc SDK

### About SignDoc SDK

SignDoc SDK enables the creation of applications which process SignDoc documents, that is, rendering as images, signing, and verifying PDF and TIFF documents. It provides functionality to capture handwritten signatures on mobile devices, or from specific USB signature pads, and to verify them. The technical specifications in this section are specific to SignDoc SDK, version 4.2.0.

This section provides the requirements for the following parts:

- SD SDK 4.2.0.11
- Foundations
  - Android 1.7
  - iOS 1.6.2
  - WinRT 1.0.4
- SignWare 3.2.8.3.1

### Product requirements

#### SD SDK

SD SDK enables the creation of applications which process SignDoc documents, that is, rendering as images, signing, and verifying PDF and TIFF documents.

| Specification   | Description   |
|-----------------|---|
| <b>Hardware</b> | <p><b>System Requirement for Development</b></p> <p>Windows</p> <p>Microsoft Windows 10/8/7 (32-bit or 64-bit)<br/>processor: 2 GB RAM min, 8 GB RAM recommended<br/>2 GB or (more available) disk space<br/>Additional disk space for development environment</p> <p>Linux</p> <p>Ubuntu (headless)</p> <ul style="list-style-type: none"> <li>• Ubuntu 16.04 LTS</li> <li>• Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul> <p><b>System Requirement for Deployment</b></p> <p>100 MB or (more available) disk space</p> |
| <b>Software</b> | <p><b>System Requirement for Development</b></p> <p>Java Development Kit (JDK) 8</p>  |

| Specification            | Description   |
|--------------------------|---|
|                          | <p>Microsoft Visual C++ 2008<br/>           Visual Studio 2013 (WinRT)<br/>           Visual Studio 2015 (.Net, WinRT)<br/>           xcode 7</p> <p><b>System Requirement for Deployment</b></p> <ul style="list-style-type: none"> <li>• Windows systems               <ul style="list-style-type: none"> <li>• Visual C++ 2008 Redistributable Packages</li> <li>• Visual C++ 2013 Redistributable Packages</li> <li>• Visual C++ 2015 Redistributable Packages</li> <li>• Java SE 8</li> </ul> </li> </ul>  |
| <b>Toolkits</b>          | <p>C<br/>           C++<br/>           .Net<br/>           Java</p>   |
| <b>Operating Systems</b> | <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> <li>• Windows Server 64-bit 2008 R2               <ul style="list-style-type: none"> <li>• Requires Microsoft extended support (end date: Jan 14, 2020)</li> </ul> </li> <li>• Windows Server 64-bit 2012</li> <li>• Windows Server 64-bit 2012 R2</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• openSUSE/SLES greater or equal to version 13.1</li> <li>• CentOS/RHEL greater or equal to version 6</li> <li>• Ubuntu 16.04 LTS</li> <li>• Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul> <p><b>Mac OS</b></p> <ul style="list-style-type: none"> <li>• OS X</li> </ul> <p><b>Android</b></p> <ul style="list-style-type: none"> <li>• 6.0</li> </ul> |

| Specification                              | Description  |
|--|--|
|  | <ul style="list-style-type: none"> <li>• 5.x</li> <li>• 4.4</li> </ul>   |
| <b>Operating Platforms for Executables</b> | android-armv7a<br>darwin-x86_64<br>iOS-universal<br>linux-i386<br>linux-x86_64<br>Win32<br>Win64<br>WinRT_x64<br>WinRT_x86 |
| <b>Languages supported</b>                 | English  |

## Android Foundations

Android Foundations provides basic functionality to capture handwritten signatures on Android.

| Specification   | Description   |
|-----------------|---|
| <b>Hardware</b> | <p><b>System Requirement for Development</b></p> <p>Android Development Environment</p> <p><b>System Requirement for Deployment</b></p> <p>RAM 1 GB</p> <p><b>Note:</b> Signature capture and verification of handwritten data is restricted to known devices.</p> <ul style="list-style-type: none"> <li>• Samsung Galaxy S4, S5</li> <li>• Samsung Note 10.1 (capture pressure level using S-Pen)</li> <li>• Samsung Note 10.1 2014 (capture pressure level using S-Pen)</li> <li>• Samsung Galaxy Tab A 9.7 with S-Pen</li> <li>• Nexus 6, 7, 9</li> <li>• Olivetti Olipad Graphos A10</li> </ul> <p>All other devices are supported for x(t) and y (t) signature capture.</p> |

| Specification                                     | Description   |
|---|---|
| <b>Software</b>                                   | <p><b>System Requirement for Development</b><br/>as defined by Android Development Environment</p> <p><b>System Requirement for Deployment</b><br/>1 GB RAM</p> |
| <b>Mobile Operating Systems</b>                   | <ul style="list-style-type: none"> <li>• Android 4.4, 5.x</li> <li>• Android 6.0</li> </ul>   |
| <b>Mobile devices supported Pen</b>               | S-Pen (requires device supporting S Pen)  |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | for S-Pen support: Samsung S-Pen SDK  |
| <b>Languages supported</b>                        | English   |

## iOS Foundations

iOS Foundations provides basic functionality to capture handwritten signatures on iOS.

| Specification   | Description   |
|-----------------|---|
| <b>Hardware</b> | <p><b>System Requirement for Development</b><br/>as defined by iOS Development environment</p> <p><b>System Requirement for Deployment</b><br/>1 GB RAM</p> <p><b>iPhone</b></p> <ul style="list-style-type: none"> <li>• iPhone 6 Plus</li> <li>• iPhone 6</li> <li>• iPhone 5s</li> <li>• iPhone 5c</li> <li>• iPhone 5</li> </ul> <p><b>iPad</b></p> <ul style="list-style-type: none"> <li>• iPad Pro</li> <li>• iPad Air</li> <li>• iPad Mini</li> </ul> |

| Specification                       | Description  |
|-------------------------------------|--|
|                                     | <ul style="list-style-type: none"> <li>• iPad 4</li> <li>• iPad 2, 3</li> <li>• iPad Mini 2</li> <li>• iPad Mini</li> </ul> <p><b>Note:</b> Apple devices not upgradable to specified operating system are not available for the described iOS Foundation version.</p>   |
| <b>Software</b>                     | <p><b>System Requirement for Development</b></p> <p>Apple Frameworks<br/>xcode 7</p> <p><b>System Requirements for Deployment</b></p> <p>1 GB RAM</p>  |
| <b>Mobile Operating Systems</b>     | <ul style="list-style-type: none"> <li>• iOS 10</li> <li>• iOS 9</li> </ul>  |
| <b>Mobile devices supported Pen</b> | <ul style="list-style-type: none"> <li>• Apple Pencil (iPad Pro)</li> <li>• Intuos® Creative Stylus (iPad Air 1, iPad mini , iPad 3 / 4)</li> <li>• Intuos® Creative Stylus 2 (iPad Air 1, iPad mini 1- 3, iPad 3 / 4)</li> <li>• Bamboo™ Stylus fineline (iPad Air 1, iPad mini , iPad 3 / 4)</li> <li>• Bamboo™ Fineline 2 (iPad Air 1/ 2, iPad mini 1 - 4, iPad 3)</li> </ul> |
| <b>Languages supported</b>          | English  |

## WindowsRT Foundations

WindowsRT Foundations provides basic functionality to capture handwritten signatures on WindowsRT.

| Specification   | Description  |
|-----------------|--|
| <b>Hardware</b> | <p><b>System Requirement for Development</b></p> <p>Windows</p> <p>Microsoft Windows 10/8/7 (32-bit or 64-bit)<br/>processor: 2 GB RAM min, 8 GB RAM recommended<br/>2 GB or (more available) disk space<br/>Additional disk space for development environment</p> |



| Specification                       | Description   |
|-------------------------------------|---|
|                                     | <b>System Requirement for Deployment</b><br>1 GB RAM  |
| <b>Software</b>                     | <b>System Requirement for Development</b><br>Visual Studio 2015<br><b>System Requirement for Deployment</b><br>1 GB RAM |
| <b>Mobile Operating Systems</b>     | <ul style="list-style-type: none"> <li>Windows RT 8.1</li> <li>Windows 10</li> </ul>                                    |
| <b>Mobile devices supported Pen</b> | no special pen is supported   |
| <b>Languages supported</b>          | English   |

## SignWare

SignWare is a toolkit to easily capture signatures on external signature capture devices and to access dynamic and static signature verification engines.

| Specification   | Description  |
|-----------------|--|
| <b>Hardware</b> | <b>System Requirement for Development</b><br>Windows <ul style="list-style-type: none"> <li>Microsoft Windows 10/8/7 (32- or 64-bit)<br/>                             processor: 2 GB RAM min, 8 GB RAM recommended<br/>                             2 GB or (more available) disk space<br/>                             Additional disk space for Development Environment</li> </ul> Linux <ul style="list-style-type: none"> <li>Ubuntu (headless)                             <ul style="list-style-type: none"> <li>Ubuntu 16.04 LTS</li> <li>Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul> </li> </ul> <b>System Requirement for Deployment</b><br>1 GB RAM |

| Specification            | Description   |
|--------------------------|---|
| <b>Software</b>          | <p><b>System Requirement for Development</b></p> <ul style="list-style-type: none"> <li>• Java Development Kit (JDK) 8</li> <li>• Microsoft Visual C++ 2008</li> </ul> <p><b>System Requirements (3rd party) for Deployment</b></p> <ul style="list-style-type: none"> <li>• Microsoft shared runtime libraries: <ul style="list-style-type: none"> <li>• Visual C++ Redistributable Packages for Visual Studio 2008 (VS 9)</li> <li>• Visual C++ .NET 2003 for Microsoft .NET Framework 1.1</li> </ul> </li> <li>• Java SE 8</li> </ul>  |
| <b>Toolkits</b>          | <p><b>Windows</b></p> <ul style="list-style-type: none"> <li>• c</li> <li>• java</li> <li>• ActiveX</li> <li>• Browser Plugin (COM object / NPAPI)</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• c</li> <li>• java</li> </ul>   |
| <b>Operating Systems</b> | <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> <li>• Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> <li>• Requires Microsoft extended support (end date: Jan 14, 2020)</li> </ul> </li> <li>• Windows Server 64-bit 2012</li> <li>• Windows Server 64-bit 2012 R2</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>• openSUSE/SLES greater or equal to version 13.1</li> <li>• CentOS/RHEL greater or equal to version 6</li> <li>• Ubuntu 16.04 LTS</li> <li>• Ubuntu 14.04 - <b>Note:</b> end-of-life date: HWE August 2016</li> </ul> |

| Specification                              | Description                                  |
|--|--|
| <b>Operating Platforms for Executables</b> | linux-i386<br>linux-x86_64<br>Win32<br>Win64 |
| <b>Languages supported</b>                 | English                                      |

## SignDoc Desktop

### About SignDoc Desktop

SignDoc Desktop is an e-signature desktop application to visualize, fill and sign electronic documents (PDF and TIFF). Handwritten signing requires a signature capture device to be installed (writing tablets, pen pads or interactive pen displays), or alternatively, a smartphone. The technical specifications in this section are specific to SignDoc Desktop, version 3.4.7.

This document provides the requirements for the following parts:

- SignDoc Desktop, setup; and
- SignDoc Desktop application.

### Product requirements

#### SignDoc Desktop setup

This section provides information for the setup.

| Specification                   | Description  |
|---------------------------------|--|
| <b>Hardware</b>                 | We recommend Standard Desktop CPU, at least 1 GB of RAM and 500 MB or more free hard disk space.   |
| <b>Client Operating Systems</b> | We recommend that you upgrade to the latest operating system patch of the following supported operating system versions. <ul style="list-style-type: none"> <li>• Microsoft Windows</li> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Languages supported</b>      | <b>GUI</b> available in: <ul style="list-style-type: none"> <li>• English</li> <li>• German</li> </ul>   |

## SignDoc Desktop application

This section provides information for the setup.

| Specification                                     | Description  |
|---|--|
| <b>Hardware</b>                                   | We recommend Standard Desktop CPU, at least 1 GB of RAM and 500 MB or more free hard disk space.   |
| <b>Client Operating Systems</b>                   | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>Windows 10 (32-bit or 64-bit)</li> <li>Windows 8 / 8.1 (32-bit or 64-bit)</li> <li><b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul>   |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | installed with setup   |
| <b>Compatible Software</b>                        | <p><b>SignDoc Device Support</b></p> <ul style="list-style-type: none"> <li>2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11</li> </ul> <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p> <p><b>Legacy: Softpro Driver Setup</b></p> <ul style="list-style-type: none"> <li>3.1.36 and newer (signature capture from supported USB devices)</li> </ul> |
| <b>Languages supported</b>                        | <p><b>GUI</b> available in:</p> <ul style="list-style-type: none"> <li>English</li> <li>German</li> </ul>  |

## SignDoc Adobe Reader

### About SignDoc Adobe Reader

SignDoc Adobe Reader is an e-signature plugin for Adobe Reader to sign electronic documents (PDF). Handwritten signing requires a signature capture device to be installed (writing tablets, pen pads or interactive pen displays) or a smartphone. The technical specifications in this section are specific to SignDoc Adobe Reader, version 2.8.2.3.

This document provides the requirements for the following parts:

- SignDoc Adobe Reader, setup; and
- SignDoc Adobe Reader, plugin.

### Product requirements

#### SignDoc Adobe Reader setup

This part provides information for the setup.

| Specification                   | Description   |
|---------------------------------|---|
| <b>Hardware</b>                 | We recommend Standard Desktop CPU, at least 1 GB of RAM and 580 GB or more free hard disk space.  |
| <b>Client Operating Systems</b> | We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.<br><b>Microsoft Windows</b> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Languages supported</b>      | <b>GUI</b> available in: <ul style="list-style-type: none"> <li>• English</li> <li>• German</li> </ul>  |

#### SignDoc Adobe Reader plugin

This section provides information for the SignDoc Adobe Reader plugin.

| Specification   | Description   |
|-----------------|---|
| <b>Hardware</b> | We recommend Standard Desktop CPU, at least 1 GB of RAM and 580 |

| Specification                                     | Description  |
|---|--|
|   | GB or more free hard disk space.   |
| <b>Client Operating Systems</b>                   | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul>   |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | <p>Adobe Reader DC</p> <p><b>Note:</b> Plugin requires to disable “protected mode” and “Enhanced Security”</p>   |
| <b>Compatible Software</b>                        | <p><b>SignDoc Device Support</b></p> <ul style="list-style-type: none"> <li>• 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11</li> </ul> <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p> <p><b>Legacy: Softpro Driver Setup</b></p> <ul style="list-style-type: none"> <li>• 3.1.36 and newer (signature capture from supported USB devices)</li> </ul> |
| <b>Languages supported</b>                        | <p><b>GUI</b> available in:</p> <ul style="list-style-type: none"> <li>• English</li> <li>• German</li> </ul>  |

## SignAlyze

### About SignAlyze

SignAlyze is a standalone application to visualize handwritten biometric signatures, to compare them, and to validate certificates associated with the document including the signature data. It is an interactive tool providing forensic experts additional information in the analysis of signatures. The technical specifications in this section are specific to SignAlyze, version 1.7.0.

This document provides the requirements for the following parts:

- SignAlyze application.

### Product requirements

#### SignAlyze application

This section provides information for the SignAlyze software.

| Specification                                     | Description  |
|---|--|
| <b>Hardware</b>                                   | We recommend 1 GHz or faster, at least 1 GB of RAM and 500 MB or more free hard disk space.  |
| <b>Client Operating Systems</b>                   | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | VC9 C++ runtime  |
| <b>Compatible Software</b>                        | <p><b>SignDoc Device Support</b></p> <ul style="list-style-type: none"> <li>• 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11</li> </ul> <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p> <p><b>Legacy: Softpro Driver Setup</b></p>   |



| Specification              | Description   |
|----------------------------|---|
|                            | 3.1.36 and newer (signature capture from supported USB devices)   |
| <b>Languages supported</b> | <b>GUI</b> available in: <ul style="list-style-type: none"><li data-bbox="625 478 760 510">• English</li><li data-bbox="625 527 768 558">• German</li></ul> |

## SignDoc Device Support

### Signature Capture

SignDoc Device Setup supports handwritten signature capture using external devices. It replaces the Softpro Driver Setup. The technical specifications in this section are specific to:

- SignDoc Device Setup 2.0.1

### Product requirements

#### Setup

The setup installs the SignDoc Device components.

| Specification                                     | Description   |
|---|---|
| <b>Hardware</b>                                   | We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.   |
| <b>Operating Systems</b>                          | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows Client</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> <p><b>Microsoft Windows Server</b></p> <ul style="list-style-type: none"> <li>• 2012, 2012 R2</li> <li>• 2008 R2</li> </ul> |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | <ul style="list-style-type: none"> <li>• Microsoft Visual C++ 2013 Redistributable (x86)</li> <li>• Manufacturer device drivers for signature pads.</li> </ul>  |
| <b>Compatible Software</b>                        | <ul style="list-style-type: none"> <li>• SignDoc Standard 1.3</li> <li>• SignDoc Web 5.2</li> <li>• SignDoc SDK 4.1, 4.2</li> </ul>   |
| <b>Languages supported</b>                        | English, German   |

## Core - Device Connector, SignPad Driver, Touch & Pen Support

The Device Connector enables the web based capturing of handwritten signatures and images. The Device connector is also required to retrieve certificates. SignPad driver components enable capturing of handwritten signatures using WACOM devices and provides an access module for Windows integrated touch pen devices.

| Specification                                       | Description   |
|---|---|
| <b>Hardware</b>                                     | We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.   |
| <b>Browser</b>                                      | Chrome<br>Firefox<br>Internet Explorer 11   |
| <b>Client Operating Systems</b>                     | We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.<br><b>Microsoft Windows</b> <ul style="list-style-type: none"> <li>Windows 10 (32-bit or 64-bit)</li> <li>Windows 8 / 8.1 (32-bit or 64-bit)</li> <li><b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Required 3<sup>rd</sup> Party Technologies</b>   | <ul style="list-style-type: none"> <li>Microsoft Visual C++ 2013 Redistributable (x86)</li> <li>Wacom STU Driver</li> <li>Manufacturer device drivers for interactive Pen Displays and signature pads without display.</li> </ul>   |
| <b>Compatible 3<sup>rd</sup> Party Technologies</b> | <b>USB Signature Pads with LCD</b> <ul style="list-style-type: none"> <li>WACOM STU-500, STU-520, STU-530, STU-540</li> <li>WACOM STU-300</li> <li>WACOM STU-430</li> </ul> <b>Interactive Pen Displays</b> <ul style="list-style-type: none"> <li>WACOM DTU-1031</li> <li>WACOM DTU-1031X</li> <li>WACOM DTU-1141</li> <li>WACOM DTU-1631</li> </ul> <b>Signature Pads without Display</b>                                     |

| Specification              | Description   |
|----------------------------|---|
|                            | <ul style="list-style-type: none"> <li>WACOM Intuos Pro - Inking Pen: KP-130</li> </ul>                                       |
| <b>Compatible Software</b> | <ul style="list-style-type: none"> <li>SignDoc Standard 1.3</li> <li>SignDoc Web 5.2</li> <li>SignDoc SDK 4.1, 4.2</li> </ul> |

## Core - Virtual Channel

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

| Specification                                       | Description   |
|---|---|
| <b>Hardware</b>                                     | We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.   |
| <b>Operating System</b>                             | <ul style="list-style-type: none"> <li>Windows</li> <li>Linux</li> </ul>  |
| <b>Client - Server Protocol</b>                     | <p><b>Windows</b></p> <ul style="list-style-type: none"> <li>ICA</li> <li>RDP</li> </ul> <p><b>Linux</b></p> <ul style="list-style-type: none"> <li>ICA</li> </ul>  |
| <b>Required 3<sup>rd</sup> Party Technologies</b>   | <ul style="list-style-type: none"> <li>Citrix Client <ul style="list-style-type: none"> <li>on Windows (32-bit, 64-bit)</li> <li>on Linux (x86)</li> </ul> </li> <li>Terminal Service - Microsoft Remote Desktop Client on Windows (32-bit and 64-bit)</li> </ul> |
| <b>Compatible 3<sup>rd</sup> Party Technologies</b> | <p><b>USB Signature Pads with LCD</b></p> <ul style="list-style-type: none"> <li>WACOM STU-500, STU-520, STU-530</li> <li>WACOM STU-300</li> <li>WACOM STU-430</li> </ul>   |
| <b>Compatible Software</b>                          | <ul style="list-style-type: none"> <li>SignDoc Standard 1.3</li> <li>SignDoc Web 5.2</li> <li>SignDoc SDK 4.2</li> </ul>  |

| Specification | Description  |
|---------------|--|
|               | <ul style="list-style-type: none"> <li>• SignDoc Desktop 3.4.7</li> <li>• SignDoc Adobe Reader 2.8.2.3</li> <li>• SignAlyze 1.7.0</li> </ul> |

## Core – Legacy SignDoc Browser Plugin

The SignDoc Browser plugins are installed with SignDoc Device Setup to enable capturing of handwritten signatures using WACOM devices using the NPAPI interface of browsers. NPAPI interface is not longer supported by modern browser. NPAPI plugins are installed for backward compatibility.

**Note:** It is recommended to use DeviceConnector with webextentions instead of SignDoc Browser Plugins.

| Specification                                       | Description  |
|---|--|
| <b>Hardware</b>                                     | We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.  |
| <b>Client Operating Systems</b>                     | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Required 3<sup>rd</sup> Party Technologies</b>   | Manufacturer device drivers for interactive Pen Displays and signature pads without display  |
| <b>Browser</b>                                      | <p><b>Internet Explorer</b></p> <ul style="list-style-type: none"> <li>• Internet Explorer 10</li> </ul> <p><b>Firefox</b></p> <ul style="list-style-type: none"> <li>• Firefox &lt;=42</li> </ul>   |
| <b>Compatible 3<sup>rd</sup> Party Technologies</b> | <p><b>USB Signature Pads with LCD</b></p> <ul style="list-style-type: none"> <li>• WACOM STU-500, STU-520, STU-530</li> <li>• WACOM STU-300</li> <li>• WACOM STU-430</li> </ul>  |

| Specification              | Description   |
|----------------------------|---|
|                            | <p><b>Interactive Pen Displays</b></p> <ul style="list-style-type: none"> <li>• WACOM DTU-1031</li> <li>• WACOM DTU-1031X</li> <li>• WACOM DTU-1141</li> <li>• WACOM DTU-1631</li> </ul> <p><b>Signature Pads without Display</b></p> <ul style="list-style-type: none"> <li>• WACOM Intuos Pro - Inking Pen: KP-130</li> </ul> |
| <b>Compatible Software</b> | <ul style="list-style-type: none"> <li>• SignDoc Web 5.2.0</li> <li>• SignDoc SDK 4.1, 4.2</li> </ul>   |

## Sign2Phone

This driver setup component enables capturing of handwritten signatures using a mobile device as signature capture device. On the mobile device the Sign2Phone APP must be installed.

| Specification                                       | Description  |
|---|--|
| <b>Hardware</b>                                     | We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.  |
| <b>Client Operating Systems</b>                     | <p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p><b>Microsoft Windows</b></p> <ul style="list-style-type: none"> <li>• Windows 10 (32-bit or 64-bit)</li> <li>• Windows 8 / 8.1 (32-bit or 64-bit)</li> <li>• <b>Note:</b> Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)</li> </ul> |
| <b>Required 3<sup>rd</sup> Party Technologies</b>   | Bonjour protocol   |
| <b>Compatible 3<sup>rd</sup> Party Technologies</b> | <ul style="list-style-type: none"> <li>• Sign2Phone for Android App (<a href="https://play.google.com/store/apps/details?id=com.kofax.sign2phone">googleplay.com</a>)</li> <li>• Sign2Phone for iOS App (<a href="https://itunes.apple.com/us/app/sign2phone/id1011111111">itunes.apple.com</a>)</li> </ul>  |
| <b>Compatible Software</b>                          | <ul style="list-style-type: none"> <li>• SignDoc Standard 1.3</li> <li>• SignDoc Web 5.2</li> </ul>  |

| Specification              | Description   |
|----------------------------|---|
|                            | <ul style="list-style-type: none"> <li>• SignDoc SDK 4.1</li> <li>• SignDoc Desktop 3.4.7</li> <li>• SignDoc Adobe Reader 2.8.2.3</li> <li>• SignAlyze 1.7.0</li> </ul> |
| <b>Languages supported</b> | <b>setup:</b> English, German   |

## Sign2Phone App

The Sign2Phone App enables signers to use a mobile device as signature capture device for handwritten signatures.

| Specification                                     | Description   |
|---|---|
| <b>Hardware</b>                                   | We recommend at least 1 GB of RAM   |
| <b>Mobile Operating Systems</b>                   | <p><b>Apple OS</b></p> <ul style="list-style-type: none"> <li>• iOS 10, 9</li> </ul> <p><b>Android OS</b></p> <ul style="list-style-type: none"> <li>• Android 6.0</li> <li>• Android 5.x</li> <li>• Android 4.0 (App Store information)</li> </ul>   |
| <b>Required 3<sup>rd</sup> Party Technologies</b> | Bonjour protocol  |
| <b>Compatible Software</b>                        | <ul style="list-style-type: none"> <li>• SignDoc Standard 1.3</li> <li>• SignDoc Web 5.2</li> <li>• SignDoc SDK 4.2</li> <li>• SignDoc Desktop 3.4.7</li> <li>• SignDoc Adobe Reader 2.8.2.3</li> <li>• SignAlyze 1.7.0</li> </ul> <p><b>Note:</b> Requires installation of Sign2Phone driver from Softpro Driver setup for desktop computer.</p> |
| <b>Languages supported</b>                        | <b>GUI</b> available in: English  |

## Legacy - Virtual Serial SignPad

The virtual serial signpad component is a driver simulating a serial WACOM SignPad on top of a SignPad STU-300/500/520 connected via USB.

**Note:** It is recommended to use Virtual Channel instead of Virtual Serial SignPad

| Specification                                       | Description   |
|---|---|
| <b>Hardware</b>                                     | We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.   |
| <b>Operating System</b>                             | Windows<br>Linux  |
| <b>Client - Server Protocol</b>                     | <b>Windows</b> <ul style="list-style-type: none"> <li>ICA</li> <li>RDP</li> </ul> <b>Linux</b> <ul style="list-style-type: none"> <li>ICA</li> <li>RDP</li> </ul>   |
| <b>Required 3<sup>rd</sup> Party Technologies</b>   | <ul style="list-style-type: none"> <li>Citrix Client <ul style="list-style-type: none"> <li>on Windows (32-bit)</li> <li>on Linux (x86)</li> </ul> </li> <li>Terminal Service - Microsoft Remote Desktop Client on Windows (32-bit and 64-bit)</li> </ul> |
| <b>Compatible 3<sup>rd</sup> Party Technologies</b> | <b>USB Signature Pads with LCD</b> <ul style="list-style-type: none"> <li>WACOM STU-500, STU-520, STU-530</li> <li>WACOM STU-300</li> <li>WACOM STU-430</li> </ul>  |
| <b>Compatible Software</b>                          | <ul style="list-style-type: none"> <li>SignDoc Standard 1.3</li> <li>SignDoc Web 5.2</li> <li>SignDoc SDK 4.2</li> <li>SignDoc Desktop 3.4.7</li> <li>SignDoc Adobe Reader 2.8.2.3</li> <li>SignAlyze 1.7.0</li> </ul>                                    |
| <b>Languages supported</b>                          | <b>setup (only Windows):</b> English, German  |



