

Kofax SignDoc

Technical Specifications

Version: 2.1.0.3

Date: 2019-06-13



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Table of Contents

Table of Contents	3
About Kofax SignDoc Technical Specifications	5
SignDoc Standard	6
About SignDoc Standard	6
Product requirements	6
SignDoc Standard, server side	6
SignDoc Standard - Administration Center, Managing Client	9
SignDoc Standard - Signing Client	10
SignDoc Web	13
About SignDoc Web	13
Product requirements	13
SignDoc Web, server side	13
SignDoc Web, client side - Browser Client	16
SignDoc Web, client side - SignDoc Mobile	18
SignDoc SDK	19
About SignDoc SDK	19
Product requirements	19
SD SDK	19
Android Foundations	21
iOS Foundations	22
WindowsRT Foundations	23
SignWare	25
SignDoc Desktop	27
About SignDoc Desktop	27
Product requirements	27
SignDoc Desktop setup	27
SignDoc Desktop application	28
SignDoc Adobe Reader	29
About SignDoc Adobe Reader	29
Product requirements	29
SignDoc Adobe Reader setup	29
SignDoc Adobe Reader plugin	29
SignAlyze	31

About SignAlyze	31
Product requirements	31
SignAlyze application.....	31
SignDoc Device Support	32
Signature Capture	32
Product requirements	32
Setup.....	32
Core - Device Connector, SignPad Driver, Touch & Pen Support	33
Core - Virtual Channel	34
Sign2Phone	35
Sign2Phone App.....	36

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 2.1.0.3:

- SignDoc Standard 2.1.0.3
- SignDoc Web 2.1.0.3
- SignDoc SDK 4.3.0.11
- SignDoc Desktop 3.4.7
- SignDoc Adobe Reader 2.8.2.3
- SignDoc Mobile for Android (APK) 2.0.4
- SignAlyze 1.8.0
- SignDoc Device Support 2.0.1

Note: To unify the two core components SignDoc Web and SignDoc Standard with the Kofax SignDoc package numbering, the version numbers have been brought in line with each other with SignDoc 2.1.0.0 so that they now, and moving forward, will both have the same version number.

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 2.1.0.3.

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
Hardware	<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>
Accessibility	<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</p>

Specification	Description
	vendor's information for instructions on how to disable TCP offloading.
Server Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> • Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> • Requires Microsoft extended support (end date: Jan 14, 2020) • Note that the support of SignDoc Standard on Windows Server 2008 R2 (64 bit) is limited. Fixes may be provided for that platform at Kofax's discretion. However, resolution to issues on that platform will only be pursued if the reported issue is also reproducible at least on Windows Server 2012 R2 (64 bit) or Windows Server 2016 R2 (64 bit). • Windows Server 64-bit 2012 <ul style="list-style-type: none"> • Microsoft Mainstream support ends Oct 9, 2018 • Windows Server 64-bit 2012 R2 <ul style="list-style-type: none"> • Microsoft Mainstream support end date: Oct 9, 2018 • Microsoft extended support end date: Jan 14, 2023 • Windows Server 64-bit 2016 <ul style="list-style-type: none"> • Tested version <p>Linux</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server (SLES) equal or greater 11 <ul style="list-style-type: none"> • SLES 11: <ul style="list-style-type: none"> • LTSS ends on March 31, 2022 (Long term service pack is required) • General end-of-support March 31, 2019 • CentOS/RHEL greater or equal to version 6 <ul style="list-style-type: none"> • RHEL maintenance updates for CentOS 6 till November 30, 2020 • RHEL maintenance updates for CentOS 7 till June 30, 2024 • Ubuntu 16.04 LTS <ul style="list-style-type: none"> • Tested version • Canonical Ltd support until 2021-04 • Ubuntu 14.04 LTS <ul style="list-style-type: none"> • Canonical Ltd support until 2019-04
Web Servers/Web Application Servers	<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 & 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>

Specification	Description
	<p>Application Server</p> <ul style="list-style-type: none"> • Apache Tomcat 8.5.x (tested: 8.5.23) <ul style="list-style-type: none"> • End of life for Apache Tomcat 8.0.x June 30, 2018 <p>Java SE (Java Runtime for Portal and Application server)</p> <ul style="list-style-type: none"> • Windows 64-bit: Java 8 • Linux 64-bit: Java 8 • Note: JCE with "unlimited strength" is required <p>Note 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>
DBMS	<p>Microsoft SQL Server</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2012 (Standard or Enterprise Edition) <ul style="list-style-type: none"> • Requires latest SP and Microsoft extended support (end date: July 12, 2022) • Microsoft SQL Server 2014 (Standard or Enterprise Edition) • Microsoft SQL Server 2016 (Standard or Enterprise Edition) <ul style="list-style-type: none"> • Tested version • Note: For direct access to the database SQL Server Command Line Utilities or Management Studio have to be installed. <p>H2 DB</p> <ul style="list-style-type: none"> • Supported for evaluation only
SMTP	<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>Note: Kofax SignDoc does not need to receive emails</p>
Required 3rd Party Technologies	<ul style="list-style-type: none"> • Windows systems <ul style="list-style-type: none"> • Visual C++ 2008 Redistributable SP1 (x64) • Visual C++ 2017 Redistributable Package (x64) • Java Runtime Environment <ul style="list-style-type: none"> • Windows 64-bit: Java 8 <ul style="list-style-type: none"> • Deprecated: 32-bit • Linux 64-bit: Java 8 <ul style="list-style-type: none"> • Deprecated: 32-bit
Compatible Software	<p>Kofax Total Agility</p> <ul style="list-style-type: none"> • 7.2.1, 7.3.0, 7.4 <p>Kofax Customer Communication Manager</p> <ul style="list-style-type: none"> • 5.0 or higher

Specification	Description
Languages supported	English
Virtual System	You can deploy SignDoc Standard server on virtual machines running on operating systems as specified above.

SignDoc Standard - Administration Center, Managing Client

This section describes what administrators need in order to create and maintain accounts in SignDoc Standard. Additionally, it also describes what business administrators and users need to maintain accounts, as well as to create and manage signing packages.

Specification	Description
Hardware	We recommend a standard office PC with at least 2 GB of RAM (recommended is 4 GB of RAM).
Accessibility	For SignDoc Standard we recommend an Internet connection capable of 100 Mbps.
Browser	<p>Edge</p> <ul style="list-style-type: none"> Edge <ul style="list-style-type: none"> Tested 41.16299.248.0 Windows 10 <p>Internet Explorer</p> <ul style="list-style-type: none"> Internet Explorer 11 <ul style="list-style-type: none"> Tested 11.248.16299.0 Windows 10, 8.1, 7 <ul style="list-style-type: none"> Windows 7 SP1 requires extended support (end date: January 14, 2020) Internet Explorer 10 <ul style="list-style-type: none"> Note: Please visit the Internet Explorer Support Lifecycle Policy FAQ here http://support.microsoft.com/gp/Microsoft-Internet-Explorer for list of supported operating systems and browser combinations. <p>Chrome</p> <ul style="list-style-type: none"> Stable channel Tested Version 64.0.3282.186 (64-bit) <p>Firefox</p> <ul style="list-style-type: none"> ESR Version (current version) Tested 58.0.2 (64-bit) <p>Safari Browser</p> <ul style="list-style-type: none"> Tested Safari Browser 11.0.3 (13604.5.6)

Specification	Description
	<ul style="list-style-type: none"> Mac OS X
Mobile Operating Systems	We recommend administrating SignDoc Standard via Desktop computer.
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10 Windows 8.1 <ul style="list-style-type: none"> Microsoft mainstream support end date: Jan 9, 2018 Requires Microsoft extended support (end date: Jan 10, 2023) Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020) <p>Linux</p> <ul style="list-style-type: none"> Only x86/x64 <p>Mac OS</p> <ul style="list-style-type: none"> OS X
Languages supported	<p>GUI available in</p> <ul style="list-style-type: none"> English

Comment [KW1]: What is the purpose of this section, we have only thin client and you already list the OS there

Comment [DCK2R1]: Ideally, we don't need to list the OS. However, if we don't list the OS then we need to take care on each combination of OS and listed browser.

Comment [KW3]: I'm not clear what product this applies to, you listed it in in safari in the browser section

Comment [DCK4R3]: We decided to list the Mac OS only as major version 10 and not the minor versions like High Serria or Mojave.

SignDoc Standard - Signing Client

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

Specification	Description
Compatible Hardware	<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>Note: On mobile devices, the handwritten signature capturing is supported as HTML5 capture.</p>
Accessibility	SignDoc Standard requires an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection.

Specification	Description
	Supported mobile devices with mobile network or Wi-Fi network connectivity.
Browser	<p>Edge</p> <ul style="list-style-type: none"> • Edge <ul style="list-style-type: none"> • Tested 41.16299.248.0 • Windows 10 • Capture of signatures will be done via HTML5 only <p>Internet Explorer</p> <ul style="list-style-type: none"> • Internet Explorer 11 <ul style="list-style-type: none"> • Tested 11.248.16299.0 • Windows 10, 8.1, 7 <ul style="list-style-type: none"> • Windows 7 SP1 requires extended support (end date: January 14, 2020) • native handwritten signature capture support via SignDoc Device Support • Internet Explorer 10 <ul style="list-style-type: none"> • Note: Please visit the Internet Explorer Support Lifecycle Policy FAQ here http://support.microsoft.com/gp/Microsoft-Internet-Explorer for list of supported operating systems and browser combinations. <p>Chrome</p> <ul style="list-style-type: none"> • Tested 64.0.3282.186 (64-bit) • Windows 10, 8.1, 7: native handwritten signature capture support via SignDoc Device Support • Linux no native handwritten signature capture support <ul style="list-style-type: none"> • Capture of signatures will be done via HTML5 only <p>Firefox</p> <ul style="list-style-type: none"> • ESR versions (current version) <ul style="list-style-type: none"> ○ Tested 58.0.2 (64-bit) ○ Windows 10, 8.1, 7: native handwritten signature capture support via Device Connector (SignDoc Device Support) ○ HTML5 handwritten signature capture is available <p>Safari Browser</p> <ul style="list-style-type: none"> • Tested Safari Browser 11.0.3 (13604.5.6) <ul style="list-style-type: none"> ○ Mac OS X <ul style="list-style-type: none"> ○ Capture of signatures will be done via HTML5 only
Mobile Operating Systems	<p>Apple OS</p> <ul style="list-style-type: none"> • iOS 9.3, 10, 11, 12 <p>Google Android OS</p> <ul style="list-style-type: none"> • Android 8.x, 7.x, 6.x, 5.x

Specification	Description
	<p>Microsoft Windows OS</p> <ul style="list-style-type: none"> Windows 10, 8.1
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10 Windows 8.1 <ul style="list-style-type: none"> Microsoft mainstream support end date: Jan 9, 2018 Note: Windows 7 Enterprise/Professional/Ultimate Edition (64-bit) requires MS extended support (end date: Jan 14, 2020) <p>Linux</p> <ul style="list-style-type: none"> Only x86/x64 Note: supported signing methods: click-to sign, HTML 5 signature capture support <p>Mac OS</p> <ul style="list-style-type: none"> OS X
Compatible Software	<p>SignDoc Device Support</p> <ul style="list-style-type: none"> 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11 <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>
Languages supported	<p>GUI available in:</p> <ul style="list-style-type: none"> Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Spanish

Comment [KW5]: Not sure what this applies to, ditto about the browsers

Comment [DCK6R5]: Same answer as previously

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 2.1.0.3.

Note: To unify SignDoc Web with the Kofax SignDoc package numbering, the version numbers have been brought in line with SignDoc 2.1.0.3 release.

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
Hardware	<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>
Accessibility	<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</p>

Specification	Description
	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.
Server Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> • Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> • Requires Microsoft extended support (end date: Jan 14, 2020) • Note that the support of SignDoc Web on Windows Server 2008 R2 (64 bit) is limited. Fixes may be provided for that platform at Kofax's discretion. However, resolution to issues on that platform will only be pursued if the reported issue is also reproducible at least on Windows Server 2012 R2 (64 bit) or Windows Server 2016 R2 (64 bit). • Windows Server 64-bit 2012 <ul style="list-style-type: none"> • Microsoft Mainstream support ends Oct 9, 2018 • Windows Server 64-bit 2012 R2 <ul style="list-style-type: none"> • Microsoft Mainstream support end date: Oct 9, 2018 • Microsoft extended support end date: Jan 14, 2023 • Windows Server 64-bit 2016 <ul style="list-style-type: none"> • Tested version <p>Linux</p> <ul style="list-style-type: none"> • Linux Enterprise Server (SLES) equal or greater 11 <ul style="list-style-type: none"> • SLES 11: <ul style="list-style-type: none"> • LTSS ends on March 31, 2022 (Long term service pack is required) • General end-of-support March 31, 2019 • CentOS/RHEL greater or equal to version 6 <ul style="list-style-type: none"> • RHEL maintenance updates for CentOS 6 till November 30, 2020 • RHEL maintenance updates for CentOS 7 till June 30, 2024 • Ubuntu 16.04 LTS <ul style="list-style-type: none"> • Tested version • Carnoical Ltd support until 2021-04 • Ubuntu 14.04 LTS <ul style="list-style-type: none"> • Carnoical Ltd support until 2019-04
Web Servers/Web Application Servers	<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</p>

Specification	Description
	<p>to Tomcat, JBoss and WebSphere. Installation & 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>Application Server</p> <ul style="list-style-type: none"> • Apache Tomcat 8.5.x <ul style="list-style-type: none"> • End of life for Apache Tomact 8.0.x June 30, 2018 <p>Java SE (Java Runtime for Portal and Application server)</p> <ul style="list-style-type: none"> • Windows 64-bit: Java 8 • Linux 64-bit: Java 8 • Note: JCE with "unlimited strength" is required <p>Note 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>
Required 3rd Party Technologies	<ul style="list-style-type: none"> • Windows systems <ul style="list-style-type: none"> • Visual C++ 2008 Redistributable SP1 (x64) • Visual C++ 2017 Redistributable Package (x64) • Java Runtime Environment <ul style="list-style-type: none"> • Windows 64-bit: Java 8 <ul style="list-style-type: none"> • Deprecated: 32-bit • Linux 64-bit: Java 8 <ul style="list-style-type: none"> • Deprecated: 32-bit
Compatible Software	<p>Kofax FraudOne</p> <ul style="list-style-type: none"> • 4.3 or higher (via Kofax SignDoc Web 5.1 plugin version v3, see technical specification of Kofax FraudOne) <p>Kofax Onboarding Agility</p> <ul style="list-style-type: none"> • 1.1 or higher (see technical specification of Kofax Total Onboarding Agility)
Languages supported	English
Virtual System	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
Hardware	<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>Note: On mobile devices, the handwritten signature capturing is supported as HTML5 capture.</p>
Accessibility	<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>
Browser	<p>Edge</p> <ul style="list-style-type: none"> Edge <ul style="list-style-type: none"> Tested 41.16299.248.0 Windows 10 Capture of signatures will be done via HTML5 only <p>Internet Explorer</p> <ul style="list-style-type: none"> Internet Explorer 11 <ul style="list-style-type: none"> Tested 11.248.16299.0 Windows 10, 8.1, 7 <ul style="list-style-type: none"> Windows 7 SP1 requires extended support (end date: January 14, 2020) native handwritten signature capture support via SignDoc Device Support Internet Explorer 10 <ul style="list-style-type: none"> Note: Please visit the Internet Explorer Support Lifecycle Policy FAQ here http://support.microsoft.com/gp/Microsoft-Internet-Explorer for list of supported operating systems and browser combinations. <p>Chrome</p> <ul style="list-style-type: none"> Tested 64.0.3282.186 (64-bit) Windows 10, 8.1, 7: native handwritten signature capture support via SignDoc Device Support Linux no native handwritten signature capture support <ul style="list-style-type: none"> Capture of signatures will be done via HTML5 only <p>Firefox</p>

Specification	Description
	<ul style="list-style-type: none"> ESR versions (current version) <ul style="list-style-type: none"> Tested 58.0.2 (64-bit) Windows 10, 8.1, 7: native handwritten signature capture support via Device Connector (SignDoc Device Support) HTML5 handwritten signature capture is available <p>Safari Browser</p> <ul style="list-style-type: none"> Tested Safari Browser 11.0.3 (13604.5.6) <ul style="list-style-type: none"> Mac OS X <ul style="list-style-type: none"> Capture of signatures will be done via HTML5 only
Mobile Operating Systems	<p>Apple OS</p> <ul style="list-style-type: none"> iOS 9.3, 10, 11, 12 <p>Google Android OS</p> <ul style="list-style-type: none"> Android 8.x, 7.x, 6.x, 5.x <p>Microsoft Windows OS</p> <ul style="list-style-type: none"> Windows 10, 8.1
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10 Windows 8.1 <ul style="list-style-type: none"> Microsoft mainstream support end date: Jan 9, 2018 Note: Windows 7 Enterprise/Professional/Ultimate Edition (64-bit) requires MS extended support (end date: Jan 14, 2020) <p>Linux</p> <ul style="list-style-type: none"> Only x86/x64 Note: supported signing methods: click-to sign, HTML 5 signature capture support <p>Mac OS</p> <ul style="list-style-type: none"> OS X
Compatible Software	<p>SignDoc Device Support</p> <ul style="list-style-type: none"> 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11 <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>
Languages supported	<p>GWT GUI available in:</p> <ul style="list-style-type: none"> Dutch, English, French, German, Italian, Japanese, Portuguese (Brazil), Spanish

Comment [KW7]: Ditto above

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
Hardware	RAM 1 GB
Accessibility	SignDoc Web requires an Internet connection capable of the equivalent bandwidth of a 3G/LTE connection. Supported mobile devices with mobile network or Wi-Fi network connectivity.
Mobile Operating Systems	Apple OS <ul style="list-style-type: none">• iOS 9.3, 10 , 11, 12 Android OS <ul style="list-style-type: none">• Android 8.x, 7.x, 6.0, 5.x Microsoft Windows OS (only as app store subscription) <ul style="list-style-type: none">• Windows 8.1• Note: Windows 10 is not supported.
Languages supported	available in: <ul style="list-style-type: none">• English

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 4.3.0.11.

This section provides the requirements for the following parts:

- SD SDK 4.3.0.11
- Foundations
 - Android 1.9
 - iOS 1.6.9
 - WinRT 1.1.1
- SignWare 3.2.9.0

Product requirements

SD SDK

SD SDK is delivered as 64-bit version and enables the creation of applications which process SignDoc documents, that is, rendering as images, signing, and verifying PDF and TIFF documents.

Specification	Description
Hardware	<p>System Requirement for Development</p> <p>Windows</p> <p>Microsoft Windows 10/8.1/7 (64-bit) processor: 2 GB RAM min, 8 GB RAM recommended 2 GB or (more available) disk space Additional disk space for development environment</p> <p>Linux</p> <p>Restricted to headless operations (i.e. there is no GUI and there are no GUI elements)</p> <p>System Requirement for Deployment</p> <p>100 MB or (more available) disk space</p>
Software	<p>System Requirement for Development</p> <p>Java Development Kit (JDK) 8</p> <p>Visual Studio 2017</p>

Specification	Description
	xcode 9 System Requirement for Deployment Windows systems <ul style="list-style-type: none"> • Visual C++ 2008 Redistributable Packages • Visual C++ 2013 Redistributable Packages • Visual C++ 2015 Redistributable Packages • Visual C++ 2017 Redistributable Packages • Java SE 8
Toolkits	C C++ .Net Java Note: SignDoc SDK WinRT interface only supports Windows 10
Operating Systems	Microsoft Windows <ul style="list-style-type: none"> • Windows 10 (64-bit) • Windows 8.1 (64-bit) <ul style="list-style-type: none"> • Note: Windows 8.1 (64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020) • Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> • Requires Microsoft extended support (end date: Jan 14, 2020) • Windows Server 64-bit 2012 <ul style="list-style-type: none"> • Microsoft Mainstream support ends Oct 9, 2018 • Windows Server 64-bit 2012 R2 <ul style="list-style-type: none"> • Microsoft Mainstream support end date: Oct 9, 2018 • Microsoft extended support end date: Jan 14, 2023 • Windows Server 64-bit 2016 Linux <ul style="list-style-type: none"> • CentOS/RHEL greater or equal to version 6 <ul style="list-style-type: none"> • RHEL maintenance updates for CentOS 6 till November 30, 2020 • RHEL maintenance updates for CentOS 7 till June 30, 2024 • Ubuntu 16.04 LTS <ul style="list-style-type: none"> • Canonical Ltd support until 2021-04 • Ubuntu 14.04 LTS <ul style="list-style-type: none"> • Canonical Ltd support until 2019-04

Specification	Description
Mobile Operating Systems	Apple OS <ul style="list-style-type: none"> iOS 9.3, 10 , 11, 12 Android OS <ul style="list-style-type: none"> 8.x, 7.x, 6.0, 5.x
Operating Platforms for Executables	android-arm64v8a android-armv7a darwin-x86_64 iOS-universal linux-x86_64 Win64 WinRT_x64
Languages supported	English

Android Foundations

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

Specification	Description
Hardware	System Requirement for Development Android Development Environment System Requirement for Deployment RAM 1 GB All Android devices are supported for signature capture.
Software	System Requirement for Development as defined by Android Development Environment System Requirement for Deployment 1 GB RAM
Mobile Operating Systems	<ul style="list-style-type: none"> Android 8.x, 7.x, 6.x, 5.x

Specification	Description
Mobile devices supported Pen	S-Pen (requires device supporting S Pen) Pens supported via Android SDK
Required 3rd Party Technologies	for S-Pen support: Samsung S-Pen SDK Pens supported via Android SDK
Languages supported	English

iOS Foundations

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

Specification	Description
Hardware	<p>System Requirement for Development as defined by iOS Development environment</p> <p>System Requirement for Deployment 1 GB RAM 64 bit capable iOS hardware</p> <p>iPhone</p> <ul style="list-style-type: none"> • iPhone X • iPhone 8, 8Plus, • iPhone 7, 7Plus, • iPhone 6, 6Plus, 6S, 6S Plus • iPhone SE • iPhone 5S <p>iPad</p> <ul style="list-style-type: none"> • iPad Pro • iPad Air • iPad Mini • iPad <p>Note: Apple devices not upgradable to specified operating system are not available for the described iOS Foundation version.</p>
Software	<p>System Requirement for Development Apple Frameworks</p>

Specification	Description
	xcode 9 System Requirements for Deployment 1 GB RAM
Mobile Operating Systems	<ul style="list-style-type: none"> • iOS 12, 11, 10, 9
Mobile devices supported Pen	<ul style="list-style-type: none"> • Apple Pencil (iPad 6th Gen, iPad Pro) • Intuos® Creative Stylus (iPad Air 1, iPad mini , iPad 3 / 4) • Intuos® Creative Stylus 2 (iPad Air 1, iPad mini 1- 3, iPad 3 / 4) • Bamboo™ Stylus Finition (iPad, iPad Air 1/ 2, iPad mini 1 – 4, iPad 3th - 4th generation) • Bamboo™ Finition (iPad, iPad Air 1/ 2, iPad mini 1 – 4, iPad 3th - 5th generation, 12.9 inch iPad Pro) • Bamboo™ Finition 3rd Generation (iPad Air 1/ 2, iPad mini 1 - 4, iPad 3th - 5th generation, 12.9 inch iPad Pro) • Bamboo™ Finition 2 (iPad, iPad Air 1/ 2, iPad mini 1 – 4, iPad 3th - 4th generation) • Bamboo™ Sketch (iPad Air 1/ 2, iPad mini 1 - 4, iPad 3th - 5th generation, 9.7 inch iPad Pro, 12.9 inch iPad Pro)
Languages supported	English

WindowsRT Foundations

WindowsRT Foundations (64 bit) provides basic functionality to capture handwritten signatures on WindowsRT.

Specification	Description
Hardware	System Requirement for Development Windows Microsoft Windows 10 (64-bit) processor: 2 GB RAM min, 8 GB RAM recommended 2 GB or (more available) disk space Additional disk space for development environment System Requirement for Deployment 1 GB RAM
Software	System Requirement for Development Visual Studio 2017 System Requirement for Deployment

Specification	Description
	1 GB RAM
Mobile Operating Systems	<ul style="list-style-type: none">Windows 10
Mobile devices supported Pen	no special pen is supported
Languages supported	English

SignWare

SignWare is delivered as 64-bit version and is a toolkit to easily capture signatures on external signature capture devices and to access dynamic and static signature verification engines.

Specification	Description
Hardware	<p>System Requirement for Development</p> <p>Windows</p> <ul style="list-style-type: none"> Microsoft Windows 10/8.1/7 (64-bit) processor: 2 GB RAM min, 8 GB RAM recommended 2 GB or (more available) disk space Additional disk space for Development Environment <p>Linux</p> <ul style="list-style-type: none"> Restricted to headless operations (i.e. there is no GUI and there are no GUI elements) <p>System Requirement for Deployment</p> <ul style="list-style-type: none"> 1 GB RAM
Software	<p>System Requirement for Development</p> <ul style="list-style-type: none"> Java Development Kit (JDK) 8 Microsoft Visual Studio 2017 <p>System Requirements (3rd party) for Deployment</p> <p>Microsoft shared runtime libraries:</p> <ul style="list-style-type: none"> • Visual C++ 2008 Redistributable Packages • Visual C++ 2013 Redistributable Packages • Visual C++ 2015 Redistributable Packages • Visual C++ 2017 Redistributable Packages • Java SE 8
Toolkits	<p>Windows</p> <ul style="list-style-type: none"> • c • java • ActiveX <p>Linux</p> <ul style="list-style-type: none"> • c • java

Specification	Description
Operating Systems	<p>Microsoft Windows</p> <ul style="list-style-type: none"> • Windows 10 (64-bit) • Windows 8.1 (64-bit) <ul style="list-style-type: none"> • Note: Windows 8.1 (64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020) • Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> • Requires Microsoft extended support (end date: Jan 14, 2020) • Windows Server 64-bit 2012 <ul style="list-style-type: none"> • Microsoft Mainstream support ends Oct 9, 2018 • Windows Server 64-bit 2012 R2 <ul style="list-style-type: none"> • Microsoft Mainstream support end date: Oct 9, 2018 • Microsoft extended support end date: Jan 14, 2023 • Windows Server 64-bit 2016 <p>Linux</p> <ul style="list-style-type: none"> • SUSE Linux Enterprise Server (SLES) equal or greater 11 <ul style="list-style-type: none"> • SLES 11: <ul style="list-style-type: none"> • LTSS ends on March 31, 2022 (Long term service pack is required) • General end-of-support March 31, 2019 • CentOS/RHEL greater or equal to version 6 <ul style="list-style-type: none"> • RHEL maintenance updates for CentOS 6 till November 30, 2020 • RHEL maintenance updates for CentOS 7 till June 30, 2024 • Ubuntu 16.04 LTS <ul style="list-style-type: none"> • Canonical Ltd support until 2021-04 • Ubuntu 14.04 LTS <ul style="list-style-type: none"> • Canonical Ltd support until 2019-04
Operating Platforms for Executables	linux-x86_64 Win64
Languages supported	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
Hardware	We recommend Standard Desktop CPU, at least 1 GB of RAM and 500 MB or more free hard disk space.
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> • Windows 10 (32-bit or 64-bit) • Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Languages supported	<p>GUI available in:</p> <ul style="list-style-type: none"> • English • German

SignDoc Desktop application

This section provides information for the setup.

Specification	Description
Hardware	We recommend Standard Desktop CPU, at least 1 GB of RAM and 500 MB or more free hard disk space.
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10 (32-bit or 64-bit) Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Required 3rd Party Technologies	installed with setup
Compatible Software	<p>SignDoc Device Support</p> <ul style="list-style-type: none"> 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11 <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>
Languages supported	<p>GUI available in:</p> <ul style="list-style-type: none"> English German

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
Hardware	We recommend Standard Desktop CPU, at least 1 GB of RAM and 580 GB or more free hard disk space.
Client Operating Systems	We recommend that you upgrade to the latest operating system patch of the following supported operating system versions. Microsoft Windows <ul style="list-style-type: none"> • Windows 10 (32-bit or 64-bit) • Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Languages supported	GUI available in: <ul style="list-style-type: none"> • English • German

SignDoc Adobe Reader plugin

This section provides information for the SignDoc Adobe Reader plugin.

Specification	Description
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Specification	Description
Hardware	We recommend Standard Desktop CPU, at least 1 GB of RAM and 580 GB or more free hard disk space.
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10 (32-bit or 64-bit) Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Required 3rd Party Technologies	<p>Adobe Reader DC</p> <p>Note: Plugin requires to disable “protected mode” and “Enhanced Security”</p>
Compatible Software	<p>SignDoc Device Support</p> <ul style="list-style-type: none"> 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11 <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>Legacy: Softpro Driver Setup</p> <ul style="list-style-type: none"> 3.1.36 and newer (signature capture from supported USB devices)
Languages supported	<p>GUI available in:</p> <ul style="list-style-type: none"> English German

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 1.8.0.

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
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 patch of the following supported operating system versions. Microsoft Windows <ul style="list-style-type: none"> • Windows 10 (64-bit) • Note: Windows 8.1 (64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Required 3rd Party Technologies	<ul style="list-style-type: none"> • Visual C++ 2008 Redistributable Packages • Visual C++ 2013 Redistributable Packages • Visual C++ 2015 Redistributable Packages • Visual C++ 2017 Redistributable Packages
Compatible Software	SignDoc Device Support <ul style="list-style-type: none"> • 2.0.1 native signature capture via Chrome, Firefox or Internet Explorer 11 <p>Note: SignDoc Device Support includes DeviceConnector and also the drivers for supported handwritten signature capture devices previously available with Softpro Driver Setup.</p>
Languages supported	GUI available in: English, German

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
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.
Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows Client</p> <ul style="list-style-type: none"> • Windows 10 • Windows 8 / 8.1 • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020) <p>Microsoft Windows Server</p> <ul style="list-style-type: none"> • 2016 • 2012, 2012 R2 • 2008 R2
Required 3rd Party Technologies	<ul style="list-style-type: none"> • Microsoft Visual C++ 2013 Redistributable (x86) • Manufacturer device drivers for signature pads.
Compatible Software	<ul style="list-style-type: none"> • SignDoc Standard 2.1, 1.3.1 • SignDoc Web 2.1 • SignDoc SDK 4.1, 4.2, 4.3
Languages supported	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
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 200 MB or more free hard disk space.
Browser	Chrome Firefox Internet Explorer 11
Client Operating Systems	We recommend that you upgrade to the latest operating system patch of the following supported operating system versions. Microsoft Windows <ul style="list-style-type: none"> Windows 10 Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Required 3rd Party Technologies	<ul style="list-style-type: none"> Microsoft Visual C++ 2013 Redistributable (x86) Wacom STU Driver Manufacturer device drivers for interactive Pen Displays and signature pads without display.
Compatible 3rd Party Technologies	USB Signature Pads with LCD <ul style="list-style-type: none"> WACOM STU-500, STU-520, STU-530, STU-540 WACOM STU-300 WACOM STU-430 Interactive Pen Displays <ul style="list-style-type: none"> WACOM DTU-1031 WACOM DTU-1031X WACOM DTU-1141 WACOM DTU-1631 Signature Pads without Display <ul style="list-style-type: none"> WACOM Intuos Pro - Inking Pen: KP-130
Compatible Software	<ul style="list-style-type: none"> SignDoc Standard 2.1, 1.3.1 SignDoc Web 2.1 SignDoc SDK 4.2, 4.3

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	<p>Microsoft Windows</p> <ul style="list-style-type: none"> Windows 10, 8.1, 7 (32-bit or 64-bit) <ul style="list-style-type: none"> Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) Note: Windows 7 SP1 requires extended support (end date: January 14, 2020) Windows Server 64-bit 2008 R2 <ul style="list-style-type: none"> Requires Microsoft extended support (end date: Jan 14, 2020) Windows Server 64-bit 2012 <ul style="list-style-type: none"> Microsoft Mainstream support ends Oct 9, 2018 Windows Server 64-bit 2012 R2 <ul style="list-style-type: none"> Microsoft Mainstream support end date: Oct 9, 2018 Microsoft extended support end date: Jan 14, 2023 Windows Server 64-bit 2016 <p>Linux</p> <ul style="list-style-type: none"> CentOS/RHEL greater or equal to version 6 <ul style="list-style-type: none"> RHEL maintenance updates for CentOS 6 till November 30, 2020 RHEL maintenance updates for CentOS 7 till June 30, 2024 Ubuntu 16.04 LTS <ul style="list-style-type: none"> Carnoical Ltd support until 2021-04 Ubuntu 14.04 LTS <ul style="list-style-type: none"> Carnoical Ltd support until 2019-04
Client - Server Protocol	<p>Windows</p> <ul style="list-style-type: none"> ICA RDP <p>Linux</p> <ul style="list-style-type: none"> ICA
Required 3rd Party Technologies	<ul style="list-style-type: none"> Citrix Client <ul style="list-style-type: none"> on Windows (32-bit, 64-bit) on Linux (x86) Terminal Service - Microsoft Remote Desktop Client on Windows (32-bit and 64-bit)
Compatible 3rd Party Technologies	<p>USB Signature Pads with LCD</p> <ul style="list-style-type: none"> WACOM STU-500, STU-520, STU-530, STU-540 WACOM STU-300 WACOM STU-430

Specification	Description
Compatible Software	<ul style="list-style-type: none"> • SignDoc Standard 2.1, 1.3.1 • SignDoc Web 2.1 • SignDoc SDK 4.3, 4.2 • SignDoc Desktop 3.4.7 • SignDoc Adobe Reader 2.8.2.3 • SignAlyze 1.8.0

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
Hardware	We recommend 1 GHz or faster, at least 1 GB of RAM and 1 MB or more free hard disk space.
Client Operating Systems	<p>We recommend that you upgrade to the latest operating system patch of the following supported operating system versions.</p> <p>Microsoft Windows</p> <ul style="list-style-type: none"> • Windows 10 • Note: Windows 8.1 (32-bit or 64-bit) requires Microsoft extended support (end date: Oct 1, 2023) • Note: Windows 7 Enterprise/Professional/Ultimate Edition (32-bit/64-bit) requires MS extended support (end date: Jan 14, 2020)
Required 3rd Party Technologies	Bonjour protocol
Compatible 3rd Party Technologies	<ul style="list-style-type: none"> • Sign2Phone for Android App (googleplay.com) • Sign2Phone for iOS App (itunes.apple.com)
Compatible Software	<ul style="list-style-type: none"> • SignDoc Standard 2.1 • SignDoc Web 2.1 • SignDoc SDK 4.3 • SignDoc Desktop 3.4.7 • SignDoc Adobe Reader 2.8.2.3 • SignAlyze 1.8
Languages supported	setup: English, German

Sign2Phone App

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

Specification	Description
Hardware	We recommend at least 1 GB of RAM
Mobile Operating Systems	<p>Apple OS</p> <ul style="list-style-type: none"> • iOS 11, 10, 9 <p>Android OS</p> <ul style="list-style-type: none"> • Android 6.0, 5.x
Required 3rd Party Technologies	Bonjour protocol
Compatible Software	<ul style="list-style-type: none"> • SignDoc Standard 2.1, 1.3.1 • SignDoc Web 2.1 • SignDoc SDK 4.3 • SignDoc Desktop 3.4.7 • SignDoc Adobe Reader 2.8.2.3 • SignAlyze 1.8 <p>Note: Requires installation of Sign2Phone driver from Softpro Driver setup for desktop computer.</p>
Languages supported	GUI available in: English