



ENTRUST

Specification Guide

Adaptive Issuance™ Instant ID

Software Version 8.1

Notice

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Entrust Corporation

1187 Park Place
Minneapolis, MN 55379
Phone: 952-933-1223
Fax: 952-933-7971
www.entrust.com

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Revision Log

Revision	Version	Date	Description of Changes
A	7.7.1	August 2019	Updated for Instant ID Software version 7.7.1.
B	7.8	November 2019	Updated formatting and added Instant ID Software smart card support information.
C	7.8	January 2020	Fixed issue with printer descriptions.
D	7.8	January 2020	Fixed issue with the software name and document layout.
E	7.9	April 2020	Updated Evaluation edition expiration and software specifications.
F	8.0	August 2020	Updated specifications to match version 8.0.
G	8.0	September 2020	Added Sigma printers to support tables.
H	8.1	November 2020	Updated and corrected supported capture device list and change the software name.

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Instant ID Software Editions Overview

Express Edition

Take your first step into the world of ID card designing and printing with the entry-level Instant ID Express software. It provides basic photo capture and data import, credential designer, and drag-and-drop workflows software functionalities for a single-user environment. It provides the core set of tools that you require to design cards and data capture forms, enter and retrieve data, capture images, produce cards and it integrates with Microsoft Excel. The Express edition is valid for 30 days after installation.

Plus Edition

This software builds on the functionality of Instant ID Express software to provide the fundamental tools for essential ID card and credential designing and printing. This edition provides batch printing, signature capture, DSLR camera support, report capabilities, composite field support, Microsoft Access and Microsoft SQL Server database support functionalities for a single-user environment.

Professional Edition

Get even more capabilities with this highly scalable edition that builds on the functionality of Instant ID Plus software to meet most needs. This edition provides the ability to have multiple users, smart card support, decentralized data capture support, centralized data management, Microsoft Active Directory integration, DB2 and Oracle database support and document scan capture support.

Enterprise Edition

The most advanced, scalable, enterprise-wide credentialing software in the suite, this edition includes all previous edition features plus advanced capabilities for more flexibility. This edition provides a tool for interacting with REST and SOAP-based web services. Also included is access to the Customization Toolkit for implementing custom JavaScript development projects.

Instant ID Software Edition Comparison Charts

Credential Design Features

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Number of credential designs	up to 10	up to 15	up to 25	up to 999
Variable and static text field	✓	✓	✓	✓
Variable and static graphic field	✓	✓	✓	✓
Photograph field	✓	✓	✓	✓
Magnetic stripe field	✓	✓	✓	✓
Date field	✓	✓	✓	✓
QR code	✓	✓	✓	✓
Bar codes [Codabar, Code 39, Code 39 Extended, Code 93, Code 93 Extended, Code 128 – Auto, Data Matrix (2D), EAN (JAN-13), EAN (JAN-8), PDF417, PDF417 (Binary), UPCA, UPCE, Interleaved 2 of 5, Postnet]	✓	✓	✓	✓
NTT/JIS magnetic stripe encoding	✓	✓	✓	✓
Custom card size specification	✓	✓	✓	✓
Background, color (YMC), black (K), Topcoat, UV, non-printable area, lamination, emboss/indent	✓	✓	✓	✓
Alignment and formatting tools	✓	✓	✓	✓
Signature field	✗	✓	✓	✓

Capture and Enrollment Workflow Features

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Number of workflows	up to 10	up to 15	up to 25	up to 999
Text field, Static text field, Static graphic field, Date field	✓	✓	✓	✓

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Auto-sequence field	✓	✓	✓	✓
Print count field	✓	✓	✓	✓
Check box field	✓	✓	✓	✓
List field	✓	✓	✓	✓
Text field mask	✓	✓	✓	✓
Field options: read-only, hidden, mandatory	✓	✓	✓	✓
Capture personal information	✓	✓	✓	✓
Import photograph from a file	✓	✓	✓	✓
Search records	✓	✓	✓	✓
Print credential	✓	✓	✓	✓
Credential preview	✓	✓	✓	✓
Quick Start Wizard	✓	✓	✓	✓
Composite field	✗	✓	✓	✓
Signature field	✗	✓	✓	✓
Capture signature	✗	✓	✓	✓
Document scan field	✗	✗	✓	✓
Capture document	✗	✗	✓	✓
Optical character recognition (OCR) enabled data capture (national IDs, DLs using EDC supplied scanners)	✗	✗	✓	✓
External database read/write operation	✗	✗	✓	✓

Personalize and Printing Features

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Entrust printer support	SD160, SD260, SD260L, SD360, SD460 CD800, CD800 CLM CE840, CR805 SP25+ (Mag only), SP35+, SP55+, SP75+, CP80+ Sigma DS1, DS2, DS3	SD160, SD260, SD260L, SD360, SD460 CD800, CD800 CLM CE840, CR805 SP25+ (Mag only), SP35+, SP55+, SP75+, CP80+ Sigma DS1, DS2, DS3	SD160, SD260, SD260L, SD360, SD460 CD800, CD800 CLM CE840, CR805 SP25+ (Mag only), SP35+, SP55+, SP75+, CP80+ Sigma DS1, DS2, DS3	SD160, SD260, SD260L, SD360, SD460 CD800, CD800 CLM CE840, CR805 SP25+ (Mag only), SP35+, SP55+, SP75+, CP80+ Sigma DS1, DS2, DS3
Generic printer support [Only print and mag-stripe capabilities. Smart card is not supported on generic printers.]	Fargo 1000, Zebra ZXP Series 8	Fargo 1000, Zebra ZXP Series 8	Fargo 1000, Zebra ZXP Series 8	Fargo 1000, Zebra ZXP Series 8
Printer dashboard	✓	✓	✓	✓
USB connection	✓	✓	✓	✓
Network / Ethernet connection	✓	✓	✓	✓
Paper badges support	✓	✓	✓	✓
Card in flight [Multiple cards in printer, available in compatible printers]	✗	✓	✓	✓
Print multiple copies of same card	✗	✓	✓	✓
Batch printing	✗	✓	✓	✓
Smart card encoding	✗	✗	✓	✓
MX batch file	✗	✗	✗	✓

Capture Device Support

Feature	Express	Plus	Professional	Enterprise
Camera support For more information, refer to “Capture Devices Supported” on page 12.	<ul style="list-style-type: none"> Integrated Webcams Logitech Creative Live Cam ValCam Mobile Support: ios 11, Android, Microsoft Surface 	<ul style="list-style-type: none"> Integrated Webcams Logitech Creative Live Cam ValCam Mobile Support: ios 11, Android, Microsoft Surface 	<ul style="list-style-type: none"> Canon DSLR Integrated Webcams Logitech Creative Live Cam ValCam Mobile Support: ios 11, Android, Microsoft Surface 	<ul style="list-style-type: none"> Canon DSLR Integrated Webcams Logitech Creative Live Cam ValCam Mobile Support: ios 11, Android, Microsoft Surface
Photo capture (File Input, Capture)	✓	✓	✓	✓
Signature pad	✗	✓	✓	✓
Document scanner	✗	✗	✓	✓

Platform Features

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Number of concurrent users	1	1	1 to 20	1 to 100
Languages	English, Japanese, Portuguese, German, French, Spanish, Simplified Chinese	English, Japanese, Portuguese, German, French, Spanish, Simplified Chinese	English, Japanese, Portuguese, German, French, Spanish, Simplified Chinese	English, Japanese, Portuguese, German, French, Spanish, Simplified Chinese
Embedded database records limit	up to 10,000	up to 50,000	up to 500,000	up to 1,000,000
Embedded database (H2)	✓	✓	✓	✓

Instant ID Software Feature	Express	Plus	Professional	Enterprise
Import data from CSV and ASCII file	✓	✓	✓	✓
User auto sign-off after inactive period	✓	✓	✓	✓
Localization utility	✓	✓	✓	✓
Stock reports	✗	✓	✓	✓
Report designer	✗	✓	✓	✓
Microsoft SQL Server database	✗	✓	✓	✓
MySQL database	✗	✓	✓	✓
Microsoft Access database	✗	✓	✓	✓
Advanced search	✗	✓	✓	✓
User management	✗	✗	✓	✓
Active Directory integration support	✗	✗	✓	✓
Oracle database	✗	✗	✓	✓
IBM DB2 support	✗	✗	✓	✓
Customization toolkit	✗	✗	✗	✓
Web service integration tool (connect to third-party REST or SOAP APIs)	✗	✗	✗	✓
Instant ID Software SDK (provides access to Instant ID Software SOAP API for print request)	✗	✗	✗	✓
Instant ID Software smart card SDK	✗	✗	✗	✓
Field based access	✗	✗	✗	✓

Instant ID Requirements

This section describes the hardware and software requirements for installing Instant ID Software.

Software Requirements

A system running Instant ID Software must meet the requirements described in this section.



Do not install Instant ID Software on a computer that also runs Entrust® Adaptive Issuance Suite software. Instant ID Software uses a custom version of Adaptive Issuance software to provide smart card personalization, and its components overwrite any Adaptive Issuance components currently installed. As a result, the existing Adaptive Issuance software installation no longer works. Remove Adaptive Issuance software before installing Instant ID Software. Earlier versions of Instant ID Software used custom Syntera® Customization Suite (SCS) software components, which also must be removed.



Do not install Instant ID Software on a computer that also runs Datacard® ID Works® identification software or Datacard® IDCentre™ software, if the two software applications connect to the same database table and columns.

Supported Operating Systems

Instant ID Software supports the following 64-bit operating systems with the latest service pack installed:

- Windows 7
- Windows 8.1
- Windows 10
- Windows Server 2012 R2
- Windows Server 2016
- Windows Server 2019



Smart card is not supported for SP/CP printers connected by USB cable to the Windows 7 operating system.

Supported Operating Systems for Mobile Enrollment

Instant ID Software supports enrolling applicants, printing cards, and capturing photographs and signatures using mobile devices running the following operating systems:

- Android version 4.4 or newer
- Apple iOS version 12.0 or newer
- Windows 8.1

- Windows 10

Supported Browsers

Instant ID Software supports the following browsers.

- Google Chrome version 78 or newer
- Microsoft Internet Explorer version 11 or newer
- Microsoft Edge version 42 or newer
- Apple Safari version 11 or newer (iOS only)

For best results, maximize the browser window when using Instant ID Software.

Supported Databases

Instant ID Software supports the following databases:

- The internal H2 database created when you installed Instant ID Software
- External databases that use one of the following database managers:
 - Microsoft Access 2010
 - Microsoft Access 2013
 - Oracle 11g R2
 - Oracle 12c
 - Oracle 19c
 - Microsoft SQL Server 2008 R2
 - Microsoft SQL Server 2012
 - Microsoft SQL Server 2014
 - Microsoft SQL Server 2016
 - IBM DB2 11.1
 - MySQL 5.7
 - MySQL 8.0

Refer to the online Help for information about how to connect Instant ID Software workflows to database tables, and for database actions that are supported.

Hardware Requirements

- 64-bit processor
- Minimum screen resolution of 1360 × 768
- Memory (RAM):

Single-Computer Environment	Multiple-Computer Environment
4 GB RAM minimum, 8 GB RAM recommended	<p>For the server computer: 8 GB RAM minimum, 16 GB RAM recommended</p> <p>For each client computer: 4 GB RAM minimum, 8 GB RAM recommended</p>

- 1 GB of available computer hard drive space
- An available software port (9800 is the default)



Make a note of this port number. It is required to install the software or connect to the client from a browser.

Printers and Card Stock

Printers Supported

- Sigma DS1, DS2, and DS3
- SP25+ (Mag Only)
- SP35+, SP55+, SP75+, CP80+
- SD160, SD260, SD260L, SD360, SD460
- CD800, CD800 CLM, CE840
- CR805
- Generic Printers

Card Stock Size Supported

- CR-80 (ISO ID-1) cards: width 3.3750 inches, height 2.1250 inches.
- CR-50 cards: width 3.5000 inches, height 1.7250 inches.
- Custom size: any dimensions that you specify (in inches) that are supported by your supported printer.

Smart Card

Instant ID Software includes profiles for the following chip types.

- Desfire EV1-UID
- Desfire EV2-UID
- FeliCa FCF Service A - Get IDm
- FeliCa FCF Service D1 - Get IDm
- FeliCa FCF Service N
- FeliCa FCF Service N - Get IDm
- HID Prox
- HID iClass

For information on how to configure these profiles, refer to the Instant ID Software online Help available as a help resource within Instant ID Software or available as a PDF.

Instant ID Software also supports other chip types when using the Instant ID Software Smart Card Plug-In. Refer to the *Instant ID Software Developer's Guide* for more information.

Smart Card Support

The table below shows the smart card chip types and readers that Instant ID Software supports and the capabilities with Instant ID Software.

Chip Type	Available Chip Profiles	Default Fields	Read Data Fields	Write Data Fields	Reader Connection Configuration Support	
					Single Wire	Two Wire (Loosely Coupled)
iClass	HID iClass	Facility Code (FAC) Card Number (CN) Card Serial Number (CSN)	Default and Custom Fields	Not Supported	HID OMNIKEY	HID OMNIKEY PC PROX PLUS
HID Prox	HID Prox	Facility Code (FAC) Card Number (CN)	Default and Custom Fields	Not Supported	HID OMNIKEY	HID OMNIKEY PC PROX PC PROX PLUS
MiFare	MiFare Classic		Custom Fields	Custom Fields	DUALI	IDENTIVE SCM CLOUD
MiFare	MiFare DESFire EV1	Chip_UID	Default and Custom Fields	Custom Fields	DUALI	IDENTIVE SCM CLOUD
MiFare	MiFare DESFire EV2	Chip_UID	Default and Custom Fields	Custom Fields	DUALI	IDENTIVE SCM CLOUD
FeliCa	FeliCa		Custom Fields	Custom Fields	DUALI	
FeliCa	FeliCa FCF Service A	IDm, User Division, ID#, Name, Affiliation, Card Expiration Date, For Card Issuer	Default and Custom Fields	Custom Fields	DUALI	
FeliCa	FeliCa FCF Service D	IDm, Company Code, Service Number, Company Admin Number	Default and Custom Fields	Custom Fields	DUALI	
FeliCa	FeliCa FCF Service N	IDm, C/D, Country Code, IC Type, Issuer code, Serial number, UN version	Default Fields	Not Supported	DUALI	

Capture Devices Supported

Cameras

Instant ID Software supports the following cameras:

DSLR Entry-Level Cameras

- Canon EOS 100D / Rebel SL1 / Kiss X7
- Canon EOS 200D / Rebel SL2 / Kiss X9
- Canon EOS 450D / Digital Rebel XSi / Kiss X2
- Canon EOS 500D / Rebel T1i / Kiss X3
- Canon EOS 550D / Rebel T2i / Kiss X4
- Canon EOS 600D / Rebel T3i / Kiss X5
- Canon EOS 650D / Rebel T4i / Kiss X6i/
- Canon EOS 700D / Rebel T5i / Kiss X7i
- Canon EOS 750D / Rebel T6i / Kiss X8i
- Canon EOS 760D / Rebel T6s / 8000D
- Canon EOS 800D / Rebel T7i / Kiss X9i
- Canon EOS 1000D / Rebel XS / Kiss F
- Canon EOS 1100D / Rebel T3 / Kiss X50
- Canon EOS 1200D / Rebel T5 / Kiss X70
- Canon EOS 1300D / Rebel T6 / Kiss X80
- Canon EOS 1500D / EOS 2000D / Rebel T7 / Kiss X90
- Canon EOS 4000D / Rebel T100

DSLR Premium or Mid-Range Cameras

- Canon EOS 5D Mark II
- Canon EOS 5D Mark III
- Canon EOS 5D Mark IV
- Canon EOS 5Ds
- Canon EOS 5Ds R
- Canon EOS 6D

- Canon EOS 7D
- Canon EOS 7D Mark II
- Canon EOS 40D
- Canon EOS 50D
- Canon EOS 60D
- Canon EOS 70D
- Canon EOS 77D
- Canon EOS 80D

DSLR Professional Cameras

- Canon EOS-1D Mark III
- Canon EOS-1Ds Mark III
- Canon EOS-1D Mark IV
- Canon EOS 1D X
- Canon EOS-1D C
- Canon EOS-1D X Mark II

Mirrorless Cameras

- Canon EOS M
- Canon EOS M2
- Canon EOS M3
- Canon EOS M10
- Canon EOS M50
- Canon EOS R

Web Cameras

- Integrated Laptop Cameras
- Logitech C920
- VALCam 9000-628
- Microsoft LifeCam Cinema
- B3E WC-1080

Signature Pad

Topaz

Document Scanner

- Datacard SnapShell R3
- Epson Perfection 300
- Mustek A3 1200HS
- TWAIN-compatible devices:
 - Acuant Scanshell 800NR
 - Acuant Scanshell 800DXN

Photograph Formats

The following formats are supported for photographs saved in 24-bit RGB (color) format:

- JPEG file interchange format (JPG)
- JPEG 2000 (J2K)
- Portable network graphics (PNG)
- Scalable vector graphic (SVG)
- Tagged image file format (TIFF)
- Windows bitmap (BMP)
- Graphics interchange format (GIF) (non-animated .gif files only)

