

MiniDriver Installation

Version 1.2.8

Identity and Security, NA | Date: September 16, 2021|

About IDEMIA

OT-Morpho is now IDEMIA, the global leader in trusted identities for an increasingly digital world, with the ambition to empower citizens and consumers alike to interact, pay, connect, travel, and vote in ways that are now possible in a connected environment.

Securing our identity has become mission critical in the world we live in today. By standing for Augmented Identity, we reinvent the way we think, produce, use, and protect this asset, whether for individuals or objects. We ensure privacy and trust as well as guarantee secure, authenticated, and verifiable transactions for international clients from Financial, Telecom, Identity, Security, and IoT sectors.

With close to over \$3bn in revenues, IDEMIA is the result of the coming together of OT (Oberthur Technologies) and Safran Identity & Security (Morpho). This new company counts 14,000 employees of more than 80 nationalities and serves clients in 180 countries.

| For more information, visit www.idemia.com / Follow @IdemiaGroup on Twitter

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(()) IDEMIA

Introduction

The document describes the installation instructions and related information to perform the installation of the IDEMIA ID-One PIV 2.4.x card minidriver. Note: sample images display 1.2.5; latest is 1.2.8

Installation

There are three methods to install the IDEMIA card v8.1 minidriver.

1. Plug & Play: Windows OS updates the driver

The common option is the plug & play option, for inserting the V8.1 card into the card reader, enables to either update or install the driver. Usually, the V8.1 card enables the Windows to install the driver if the Plug & Play service option enabled in the Win OS services console. A device manager console can verify the driver version, as displayed in Appendix A.

2. Download from Microsoft site:

Enterprise IT security policies sometimes prohibit clients/users to download directly from the Microsoft Catalog Update site. The Minidriver is available as a download from the Microsoft Update Catalogue site. In case required, the driver can be downloaded by manually entering the Microsoft Update Catalog address in a browser window. For more details, please see Appendix B.

The web site: https://www.catalog.update.microsoft.com/Search.aspx?q=IDEMIA\

Search results for "IDEMIA" Updates: 1 - 14 of 14 (page 1 of 1)	
Title	Products
IDEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2.5.315	Windows 7, Windows 8.1 Drivers
IDEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2.5.315	Windows 10 and later drivers
IDEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2.5.315	Windows 10 and later drivers, Windows Server Drivers
IDEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2.5.315	Windows 10, version 1903 and later, Servicing Drivers

Figure 1: Download from MS Update Catalogue site

3. The installation files can be downloaded from https://na.idemia.com/resources/drivers/

Occasionally due to security policies, or in case downloads are restricted, then an MSI file for Win OS for x86 and x64 bit Systems is available at the site. User can download from the public site under "Minidriver files", the latest available version.

The installation process should be as in the following steps.

1. After copying the installer file, install using the right-click on the "CivMinidriver-1.2.8 64-bit.msi". Then follow the screen messages.



Name ^	Date modified	Туре	Size
📓 changelog.txt	7/15/2019 8:34 AM	TXT File	6 KB
🔁 CivMinidriver-1.2.5 64-bit.msi	Install Repair Uninstall		5,256 KB
🔁 CivMinidriver-1.2.5.msi			2,624 KB
CivMinidriver-1.2.5_zip.txt			6,163 KB

- 2. Then go to the folder "C:\Program Files (x86)\CivMinidriver" on the server/machine
- 3. Right-click on the file "**CivMinidriver.inf**" file and then select "Install." The Win OS may ask for the Admin account.

Name	^	Date modified	Type	Size
CARLES .		Lesson services	263	
CivMinidriver.cat		7/15/2019 10:07 AM	Security Catalog	11 KB
CivMinidriver.dll		7/15/2019 10:07 AM	Application extens	1,921 KB
📓 CivMinidriver.inf		7/15/2010 10-07 AM	Setup Information	13 KB
CivMinidriver64	Open	AM	Application extens	2,767 KB
1777 - CONSTRUCTOR	Install			
	Print			

4. The process will display the following message.





To uninstall the Mini Driver

Minidriver can be uninstalled using the standard *Control Panel/Program and Features* in Windows 10, Win 7, and Win 8 with the uninstall feature.

Solarimany for Microsoft - Office Suite	Graninany	10/14/2013	20.3 MD	0.7.155	
()) IDEMIA Minidriver for PIV/CIV (64-bit)	IDEMIA	11/1/2019	4.59 MB	1.2.5	
IIS 10.0 Express	Microsoft Corporation	10/10/2019	53.5 MB	10.0.03203	Uninstall
🚯 Instant Booking For Outlook	SharingCloud	10/2/2019	6.55 MB	4.7	Repair
3 Intel® Graphics Driver	Intel Corporation	10/2/2019	74.2 MB	10.18.10.4276	

Product environment

The minidriver is compatible with the following Windows environments:

- Windows 7 and 8
- Windows 10

The minidriver supports the following V8.1 card applets and profiles:

- Applet PIV v2.4.1 with "NIST profile" NPIVP Profile as read-only card
- Commercial Identity Verification (CIV) Profile
- Secure Pin Entry (SPE) Profile

The "NIST profile" is based on the NIST's PIV data model and follows all the requirements defined by the NIST (ATR, AID, access conditions ...). This profile is a read-only profile dedicated to the US government market.

Note: The smartcard and card reader must communicate in T=1 and must support the extended APDU.

Product support

For any question or support, please send an email to IDOnePIV@idemia.com



Appendix A: Verification of the minidriver installation

The following windows driver installation may pop up in case the minidriver needs to be updated or installed.

J Driver Software Installation		×
Installing device driver so	oftware	
Smart Card	Searching Windows Update	
Obtaining device driver software Skip obtaining driver software fro		
		Close

After installation, the following message will display.

J Driver Software Installation		×
Identity Device (NIST SP 800-73	[PIV]) installed	
Identity Device (NIST SP 800-73 [PIV])	Ready to use	
		Close

Figure 2: Successful installation of minidriver

Manual step to verify the version

Open the "device manager" to verify that the V8. 1 card minidriver installed. If not installed correctly, a question mark would have appeared in the 'Device Manager' window for the 'Smart cards' list.



Figure 3: Device Manager Image

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Appendix B: Downloading the driver

The driver is updated to the "Microsoft Update Catalog" drivers' site whenever a new version is available. However, enterprise security policies might restrict the direct download to the user's workstations. Therefore, users/IT staff need to follow the enterprise policies to download or install according to the security policies.

1. The site to access the driver is

https://www.catalog.update.microsoft.com/Search.aspx?q=idemia

Vahoo G Malware and unco. O Turnesheet F 30 Motivational	Gu 🧿 Google 🧗 Top 100 Inspiration 🗖 Most Active Stapla 📀 (TL-Checklists - IT.	. 🚔 Getting Stanted wit. 🔮 Agile Leadership	🚺 Knowledge 🔳 U.S	GAO - Bid Prot.		# 👖 Otherboo
soft Update Catalog				idemia		P
rch results for "identia"						
c 1 = 14 of 14 (page 1 of 1)						Q, Previous N
file .	Products	Classification	Last Opdated	Version	Size	
DEMIA - SevertCard - 7/12/2019 12:00:00 AM - 1.2:5:315	Windows 7, Windows 8.1 Drivers	Drivers (Other Hardware)	7/11/2019	125315	1.6 MB	Download
GEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2:5:315	Windows 10 and later drivers	Drivers (Other Hardware)	7/11/2019	125315	1.6 MB	Download
DEMIA - SmartCard - 7/12/2019 12:00:00 AM - 1.2:5:315	Windows 10 and later drivers, Windows Server Drivers	Drivers (Other Haldware)	7/11/2019	125315	16 MB	Download
06464 - SmartCard - 7/12/2019 12:00:00 AM - 1.2:5:315	Windows 10, version 1903 and later, Servicing Drivers	Drivers (Other Hardware)	7/11/2019	125315	1.6 MB	Download
CEMIA - SmanCard - 5/14/2019 12:00:00 AM + 1.2:4300	Windows 7, Windows 8.1 Drivers	Drivers (Other Hardware)	5/13/2019	1.2.4.300	1.6 MB	Download
DEMIA - SmartCard - 5/14/2019 12/00/00 AM - 1.2.4.300	Windows 10, version 1809 and later. Servicing Drivers	Drivers (Other Hardware)	5/13/2019	12.4300	16 MB	Download
QEMIA - SmartCard - 12/14/2018 12:00:00 AM - 1:6.1:220	Windows 7. Windows 8.1 Drivers	Drivers (Other Hardware)	12/13/2018	1.6.1.220	1.7 M8	Download
CEANA - SevenCard - 12/14/2018 12:00:00 AM - 1.6.1.220	Windows 10 version 1803 and Later Servicing Drivers	Drivers (Other Hardware)	72/13/2018	1.6.1.220	1.7 M8	Download
CEMIA - SmartCard - 10/22/2018 12:00:00 AM - 2:4:10:158	Windows 7/Windows 8.1 Drivers	Drivers (Other Hardware)	10/21/2016	2.4.10.158	1.6 MB	Download
GEMIA - SmartCard - 10/22/2018 12:00:00 AM - 2:4:10:158	Windows 10 version 1809 and Later Servicing Drivers	Drivers (Other Hardware)	10/21/2018	2.4.10.158	1.6 MB	Download
OEMIA - System - 10/4/2018 12:00:00 AM - 0:0 1.1	Windows 10 version 1803 and Later Servicing Drivers	Drivers (Other Hardware)	10/3/2018	0.0.1.1	75 KB	Download
DEMIA - System - 10/4/2018 12:00:00 AM - 0:0.1.1	Windows 10, version 1809 and later, Servicing Drivers	Drivers (Other Hardware)	10/3/2018	0.0.1.1	78 KE	Download
DEMIA - SmartCard - 4/24/2019 12:00:00 AM + 1.2.0.292	Windows 7, Windows 8.1 Onlyers	Drivers (Other Hardware)	4/23/2019	1.2.0.292	16M8	Download
OEMIA - SmartCard - 4/24/2019 12:00:00 AM - 1.2:0:292	Windows 10, version 1809 and later; Servicing Drivers	Drivers (Other Hardware)	4/23/2019	12.0.292	1.6 M8	Download
nsuch Corporation All Rights Reserved. printing terms of use help						

2. Once clicked on "Download." The Win system downloads the ".cab" file.





3. After download, the cab file displays "Extract to..." the installation files with a right-click as in the following image.

Notebooks	ccca2ba7-f56a-44b8-b012-ff15861d2ebd	10/22/2019 12:44	Cabinet File	1.627.KB	
Source	🔀 chromeremotedesktophost (1).msi	10/9/2019 9:31 PM	Windows Ins	Open	
📙 VisualStudioCod	🐻 chromeremotedesktophost.msi	10/3/2019 5:33 PM	Windows Ins	Open in new window	
TUDO	👸 ChromeSetup.exe	10/2/2019 9:45 PM	Application	🕒 Import to Grammarly	
	Cisco_WebEx_Add-On.exe	10/22/2019 9:43 AM	Application	Classify and protect	
Open archive				7-Zip	>
Open archive			>	CRC SHA	>
Extract files				Pin to Start	
Extract Here				Scan for threats	
Extract to "ccca2ba7-f56a	-44b8-b012-ff15861d ecc5968c81bf701c06d2c028a	ааобсо\"		🖻 Share	
Test analyze				All a state of the second s	

The sample image displays "7-Zip"; however, any Windows' zip/unzip command may be used to extract the files.

4. After extracting the files to a folder, the folder displays the following list of files. Rightclick on the "CivMinidriver.inf" to install the minidriver.

	~	12000-000000000000000000000000000000000	Same Same	1. Anno 11	
~	Name	Date modified	Type	Size	
	CivMinidriver.cat	7/15/2019 3:39 AM	Security Catalog	11 KB	
	CivMinidriver.dll	7/15/2019 3:39 AM	Application extens	1,921 KB	
yide	🔄 CivMinidriver.inf	7/16/3010 13:31 A&A	Cabina Information	13 KB	
	CivMinidriver64.dll	Open	Open		
		Install		10000000000	
		Print			

5. The process will display the following message.





Appendix C: Remote machines: Driver verification and setup

Occasionally, the servers and virtual machines are located in remote environments. These remote machines need to authenticate remote users with the user's smart cards on the user's local machines. The remote machines could be such as Win 10 virtual machines or servers such as Win 2008, Win 2012 R2, Win 2016 R2 or Win 2019, etc.

These remote machines usually do not contain smart card readers, and their plug & play services could be disabled. These machines may not be physically accessible to install smartcard readers. The section lists the steps to install the drivers on to such remote machines without smartcard readers.

An administrator of the remote machines can access the remote machines using RDP (Remote Desktop Protocol). The administrator can perform the following steps to verify the setup of the driver on the remote machines.

1. Verify the files for Minidriver on remote machines

For 64- bit Systems: Verify that file "CivMinidriver64.dll" is in the folder "C:\Windows\System32" on the remote machines.

This PC → Windows (C:) →	Windows > System32 >
Name i≊ Circoinst.aii iii CivMinidriver64.dll	Date modified 9/10/2010 5:20 AWI 7/15/2019 3:39 AM
ClWmi.dll clb.dll clbcatq.dll clbcatq.dll	File description: IDEMIA CivMiniDriver Company: IDEMIA M File version: 1.2.5.0 M Date created: 7/15/2019 3:39 AM Size: 2.70 MB M

For 32- bit Systems: Verify that file "CivMinidriver64.dll" is in the folder "C:\Windows\SysWoW64" on the remote machines.

Thi	s PC > Windows (C:) >	Windows > SysWOW64 >	
^	Name	^ Date modifie	ed
	🗟 cic.dll	9/15/2018 3:2	29 AN
	📧 cipher.exe	9/15/2018 3:2	29 AN
	CivMinidriver.dll	7/15/2019 3:	39 AN
	ClWmi.dll	File description: IDEMIA CivMiniDriver	18 AI
	🚳 clb.dll	Company: IDEMIA	9 AI
	🚳 clbcatq.dll	File version: 1.2.5.0	9 AI
	🚳 cldapi.dll	Size: 1.87 MB	9 AN
	— -lesses	0/15/2010 2.1	0 0.0



2. Verify the following Registry Entries on the remote machines

1. HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\IDEMIA ID-One PIV/CIV on V8 Device

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\JDEMIA ID-One PIV/CIV on V8 Device								
Calais ^	Name	Туре	Data					
Cache	(Default)	REG_SZ	(value not set)					
Content Content Readers SmartCards IDEMIA ID-One PIV/CIV Contactless on V8 Device	ab) 80000001	REG_SZ	CivMinidriver64.dll					
	100 ATR	REG_BINARY	3b d0 00 00 80 b1 fe 45 1f 07 80 31 c1 50 00 00 00					
	ATRMask	REG_BINARY	ff f0 00 f0 f0 ff ff ff ff of ff ff ff f0 00 00 00					
IDEMIA ID-One PIV/CIV on V8 Device	Crypto Provider	REG_SZ	Microsoft Base Smart Card Crypto Provider					
	Smart Card Key Storage Provider	REG_SZ	Microsoft Smart Card Key Storage Provider					
DEMIA ID One DIV/CIV/TWIC Contactions on V/9 Davi								

2. HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\IDEMIA ID-One PIV/CIV on V8 Device (High Speed)

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\IDEMIA ID-One PIV/CIV on V8 Device (High Speed)								
	¥ [С	alais	^	Name	Туре	Data	
			Cache		(Default)	REG_SZ	(value not set)	
			Current		ab 80000001	REG_SZ	CivMinidriver64.dll	
	2		Keaders SmartCards		30 ATR	REG_BINARY	3b d0 00 00 80 b1 fe 45 1f 00 80 31 c1 50 00 00 00 00	
	Ť		IDEMIA ID-One PIV/CIV Contactless on V8 Device		100 ATRMask	REG_BINARY	ff f0 00 f0 f0 ff ff ff ff 00 f0 ff ff f	
			IDEMIA ID-One PIV/CIV on V8 Device		ab Crypto Provider	REG_SZ	Microsoft Base Smart Card Crypto Provider	
			IDEMIA ID-One PIV/CIV on V8 Device (High Speed)		ab Smart Card Key Storage Provider	REG_SZ	Microsoft Smart Card Key Storage Provider	
			IDEMIA ID-One PIV/CIV/TWIC Contactless on V8 Devi					

3. HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\IDEMIA ID-One PIV/CIV Contactless on V8 Device

Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography\Calais\SmartCards\IDEMIA ID-One PIV/CIV Contactless on V8 Device

V Calais	^	Name	Туре	Data
Cache		ab (Default)	REG_SZ	(value not set)
Current		ab 80000001	REG_SZ	CivMinidriver64.dll
Keaders SmartCards IDEMIA ID One DIV/CIV Contactions on V2 Device		80 ATR	REG_BINARY	3b 80 80 01 80 31 c1 50 00 00 00
		88 ATRMask	REG_BINARY	ff f0 ff ff ff ff ff f0 00 00 00
IDEMIA ID-One PIV/CIV contactiess on vo bevice		💩 Crypto Provider	REG_SZ	Microsoft Base Smart Card Crypto Provider
)	ab Smart Card Key Storage Provider	REG_SZ	Microsoft Smart Card Key Storage Provider

3. How to fix the missing registry entries

If the entries are missing, then

- 1. First, copy the file "All3entries.reg" to the remote machines and then execute the file on the remote machines under "Run as Administrator" privileges. The document package contains the file. The file "All3entries.reg" creates the registry entries on the remote machines.
- 2. Verify the registry settings again, as displayed in the previous step 2.

4. Reboot the remote machine

1. A reboot of the remote machine is required to ensure the registry settings take effect.

(End of Document)