



Change Logs for MiniDriver

From v1.1.3 to v1.2.8

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 for 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 €3bn in revenues, IDEMIA is the result of the coming together of OT (Oberthur Technologies) and Safran Identity & Security (Morpho). The 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

Table of contents

Introduction	4
List of changes in IDEMIA Minidriver	4
Windows 10 Update History	7

Introduction

The document lists the changes and updates implemented in the IDEMIA Minidriver. The change log covers updates from version 1.1.3 issued in Nov. 2017 to version 1.2.8 issued on June 29, 2021. The document lists the changes in the following table.

List of changes in IDEMIA Minidriver

The following table displays the changes in the order from the latest version to the older version.

#	Date	Version	Description	Published for Windows 10 version
1	06/29/2021	1.2.8	Fixed issue in the cache file mechanism : Certificate Propagation Service works after APDU enrollment Fix issue when T=0 connection is used	Published 1909/2004/20H2
2	10/28/2020	1.2.7	Change the MAX NC value in SM from 1020 to 975 Require Signature Check (/INTEGRITYCHECK flag) Set ALLUSERS property to 2 (MSI fix)	Non Published 1909/2004/20H2
3	11/08/2019	1.2.6	Simplify the Inf file Enforce the driver installation even if the smartcard is not inserted (MSI fix)	Non Published version 1909/2004
4	07/15/2019	1.2.5	Added CARD_PADDING_PKCS1 for padding Schemes Set the unblock PIN with PUK Set the unblock PIN with SPE card	1903
5	06/18/2019	1.2.4	Added the PIN check controls for 6 to 8 digits	1809/1903
6	03/03/2019	1.2.3	Forced the cache refresh when the card interface changes. <ul style="list-style-type: none"> Minidriver removes all the data in the cache (Minidriver cache and Microsoft System cache when the card interface changes, e.g., from contact to contactless or vice versa). 	1809
7	02/20/2019	1.2.2	Fix issue in cache mechanism when the Key Container Discovery Data object is reading <ul style="list-style-type: none"> IDEMIA internal improvement. Certain certificates were not visible when the Minidriver reads Key Container Discovery object. 	Non published version
			Add Product Version and File Version in a log file <ul style="list-style-type: none"> Improvement to add more information to the log file for information purpose. 	

#	Date	Version	Description	Published for Windows 10 version
8	01/28/2019	1.2.1	Fixed the timeout issue in CardAcquireContext API when online certificates cannot be retrieved	
9	01/18/2019	1.2.0	Cache enhancement by using the global cache maintained by the Smart Card Resource Manager. <ul style="list-style-type: none"> The cache file data was accessed to maintain the cache data between Smart card Resource Manager global cache and the card cache file data. 	
10	11/23/2018	1.1.7	Correction in new ATR masks (issue found after CIV 1.1.6 certification) <ul style="list-style-type: none"> IDEMIA Card's ATR masks were compared with registry values to speed up the processing of the IDEMIA cards. 	
			Supported card cache file "cardcf" Short File Identifier (SFI 0x02) file	1803
			Enhancement in PIV Secure Messaging to avoid to reopen the Secure Messaging when Secure Messaging is not required	
			Enhancement in contactless detection <ul style="list-style-type: none"> Minidriver ensures that Logical File displays container names according to NIST requirements for the key container names in logical "cmapfile" 	
			Added UseCertificateKeyUsage property: <ul style="list-style-type: none"> The certificate key usage type such as Signature or Key Exchange are used to determine the key container type 	
			Added useNISTDefaultKeyType : <ul style="list-style-type: none"> The Digital Signature (9C) and Card Authentication (9E) key are AT_SIGNATURE/ECDSA container. The PIV Authentication (9A) is AT_EXCHANGE for RSA and ECDSA for Ecc. The other keys are AT_EXCHANGE such as ECDH 	
			Added useNoKeyTypeConstraint property:	

#	Date	Version	Description	Published for Windows 10 version
			<ul style="list-style-type: none"> All the keys are AT_EXCHANGE such as ECDH 	
			Added useSerialNumberFromCHUID property: <ul style="list-style-type: none"> Read the card serial number from the CHUID (default) otherwise, use the minidriver's logical "cardid" file Improved timings while reading the card data 	
11	10/29/2018	1.1.6	Enhanced registry entries to include the new ATRs values including the TWIC cards	Non published version
			Improved the proxy address in the trust chain of certificates	
			Addressed the correction of index values for containers 10 to 16 in decimal instead of using 0x0A to 0x0F in hex	
			The change updates the Key history value after an online certificate is removed from the card.	
			Fix in PIV Secure Messaging when root or intermediate certificate is empty	
12	07/12/18	1.1.5	Added the support for the compressed Certificates	
			Enhanced the Virtual Contact Interface (VCI) functionality for Secure PIN Entry (SPE) mode	
13	06/13/2018	1.1.4	Added the support of the Secure PIN Entry (SPE) profile	
			Added the branding of the IDEMIA package	
14	11/16/2018	1.1.3	Uploaded Minidriver after certification for Windows 10 (Update 1709)	1709

Windows 10 Update History

PC version Win 10 history

• 2.1 Version 1507
• 2.2 Version 1511 (November Update)
• 2.3 Version 1607 (Anniversary Update)
• 2.4 Version 1703 (Creators Update)
• 2.5 Version 1709 (Fall Creators Update)
• 2.6 Version 1803 (April 2018 Update)
• 2.7 Version 1809 (October 2018 Update)
• 2.8 Version 1903 (May 2019 Update)
• 2.9 Version 1909 (November 2019 Update)
• 2.10 Version 2004 (May 2020 Update)
• 2.11 Version 20H2 (October 2020 Update)
• 2.12 Version 21H1 (May 2021 Update)

(End of Document)