



# **MSO USB Driver**

## **SOFTWARE RELEASE NOTE**

### **Revision 4.7.0.0**

For online updates: please connect to our web site <https://www.biometric-terminals.com/>.

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## Compatibility

MSO USB driver version 4.7.0.0 is compatible with:

- FINGER VP firmware version 01.10.b (and later versions)
- MSO firmware versions 11.03.g or 13.01.d (and later versions)
- MSO 330, MSO 331, MSO OEM 330 and MSO OEM 331 firmware version 01.01.a for windows
- CBM-E3 firmware version 03.05.e (and later versions)

## Supported Platforms

- Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
- Windows 11, Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USB SER).

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## Version 4.7.0.0 — October 2022

### New Features:

- Support for Windows 11

### Improvement:

- N/A

### Update:

- N/A

### Bug Fix:

- The installation of MSO\_USB\_Driver x64.msi remove the driver of TP5300.

### Limitations:

- MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.

### Includes:

- MSO USB Service: Version 4.7.0.0
- Biometric Driver: Version 4.7.0.0

### Downgrade Caution (standard warning):

- To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.

### Driver Installation Recommendations:

- If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though.
- if the old driver is not uninstalled, it will be used instead of MSO USB Driver.

## Version 4.6.0.0 — June 2022

### New Feature :

- Support FAB30 devices (MSO330/MSO331)

### Improvements:

- NA

### Fix issues:

- NA

### Includes:

- MSO USB Service: Version 4.6.0.0
- Biometric Driver: Version 4.6.0.0

### Downgrade Caution (standard warning):

- To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.

### Driver Installation Recommendations:

- If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though.
- if the old driver is not uninstalled, it will be used instead of MSO USB Driver.

### Driver limitation:

- MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
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## 4.5.0.0:

- Generation Date: September, 2021
  - New Feature :
    - Support toolset vc142
  - Improvements:
    - NA
  - Fix issues:
    - NA
  - Includes:
    - MSO USB Service: Version 4.5.0.0
    - Biometric Driver: Version 4.5.0.0
  - Downgrade Caution (standard warning):
    - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSEK)
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## 4.4.1.0:

- Generation Date: June, 2021
- Improvements:
  - NA
- Fix issues:
  - Reboot soft is now working with pipeserver.
- Includes:
  - MSO USB Service: Version 4.4.1.0
  - Biometric Driver: Version 4.4.1.0
- Downgrade Caution (standard warning):
  - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
- Driver Installation Recommendations:
  - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
- Driver limitation:

- MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSEK)
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## 4.4.0.0:

- Generation Date: April, 2021
  - Improvements: NA
  - Fix issues:
    - The issue with Capture image failing with FFD capable CBME3 device has been fixed.
  - Includes:
    - MSO USB Service: Version 4.4.0.0
    - Biometric Driver: Version 4.4.0.0
  - Downgrade Caution (standard warning):
    - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSEK)
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## 4.3.0.0:

- Generation Date: January, 2020
- Improvements:
  - Update of Migration document.
- Fix issues:
  - The retrofit of MSO1350-E3/V3 fails in Windows 10.
  - Detection fails on first plug of MSO1350 in Windows 10.
  - Random crash of MSO USB Service in Windows 10.
- Includes:
  - MSO USB Service: Version 4.3.0.0
  - Biometric Driver: Version 4.3.0.0
- Downgrade Caution (standard warning):

- To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
    - An upgrade of others components (Morphokit, MSO SDK, MKMS) is recommended to use the MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSE) (USBSE)
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## 4.2.2.0:

- Generation Date: June, 2019
  - Improvements:
    - Digital signature of the MSO USB Driver Installer.
  - Includes:
    - MSO USB Service: Version 3.1.1.0
    - Biometric Driver: Version 4.2.2.0
  - Downgrade Caution (standard warning):
    - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
    - An upgrade of others components (Morphokit, MSO SDK, MKMS) is recommended to use the MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSE) (USBSE)
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## 4.2.1.0:

- Generation Date: March, 2019
  - Improvements:
    - Fix memory leak issue during live acquisition related to MSO USB service.
  - Includes:
    - MSO USB Service: Version 3.1.1.0
    - Biometric Driver: Version 4.2.1.0
  - Downgrade Caution (standard warning):
    - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though. if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
    - An upgrade of others components (Morphokit, MSO SDK, MKMS) is recommended to use the MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSEK)
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## 4.2.0.0:

- Generation Date: March, 2019
- Improvements:
  - The driver installer supports the silent mode.
  - Provide two installers for both 64-bit and 32-bit OS
  - For Windows 10 / Server 2016 and further versions, the Microsoft generic driver (USBSEK) will be used instead of the Biometric Driver along with the MSO USB Service
  - Improve the activation of service logs
  - Fix issues related to MSO USB Service (handle and memory leaks)
  - Remove the impact of MSO USB Service on other USB devices, even if they use the Microsoft generic driver (USBSEK).
- Includes:
  - MSO USB Service: Version 3.1.0.0
  - Biometric Driver: Version 4.2.0.0
- Downgrade Caution (standard warning):
  - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
- Driver Installation Recommendations:
  - If the installer driver 3.59.1.3 or earlier version is already installed, it will be detected at installation process and the uninstallation will be proposed though.

- if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
    - An upgrade of others components (Morphokit, MSO SDK, MKMS) is recommended to use the MSO USB Driver.
  - Driver limitation:
    - MSO350 and MSO1350 E2 are not supported on windows 10 with this driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows Server 2012 R2 with IDEMIA Biometric Driver.
    - Windows 10 32 & 64 bits and Windows Server 2016 with Microsoft generic driver (USBSEK)
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## 4.1.0.0:

- Generation Date: December, 2018
  - Improvements:
    - The driver name has changed to MSO USB Driver.
    - The driver is signed
    - Using the generic driver USBSEK delivered by Microsoft.
    - Removing the limitation of 100 sensors used in the same computer with different COM ports.
    - Fix the problem of repetitive plug and unplugs.
  - Includes:
    - MSO USB Service: Version 3.0.0.0
    - Biometric Driver: Version 4.1.0.0
  - Downgrade Caution (standard warning):
    - To downgrade a MSO USB Driver to an earlier driver version, MSO USB Driver shall be firstly uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Driver Installation Recommendations:
    - If an old driver version is already installed, it will be detected at installation process and the uninstallation will be proposed though.  
if the old driver is not uninstalled, it will be used instead of MSO USB Driver.
    - An upgrade of others components (Morphokit, MSO SDK, MKMS) is recommended to use the MSO USB Driver.
  - Supported Operation systems:
    - Windows 7 32 & 64 bits, Windows 8.1 32 & 64 bits, Windows 10 32 & 64 bits and Windows Server 2012 R2.
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## 3.59.1.3:

- Generation Date: July, 2015

- Bug fix:
    - Installer: No longer need to require a reboot of Windows after driver installation. Integration of chained MSI package from InstallShield tool is now allowed.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.5.0.0
    - Biometric Driver: Version 3.59.1.3
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
  - Downgrade Caution (standard warning):
    - To downgrade a driver version 3.59.1.3 to an earlier driver version this future version shall be previously uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Firmware Download Limitation:
    - USB Service must be activated for download process. Open Services, click **Start**, click **Control Panel**, double-click **Administrative Tools**, double-click **Services** and then verify the MorphoSmart USB Service status.
  - Driver Installation Recommendations:
    - If an old driver version 3.56.0.1 is already installed, prior uninstall it before to install this new release. A reboot is necessary after the new installation.
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## 3.59.1.1:

- Generation Date: July, 2015
  - Improvements:
    - Installer: Breach security resolution
      - Destination folder of the USB Service modified from local to System32 directory.
      - Additional warning for upgrade and downgrade operations.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.5.0.0
    - Biometric Driver: Version 3.59
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
  - Downgrade Caution (standard warning):
    - To downgrade a driver version 3.59.1.1 to an earlier driver version this future version shall be previously uninstalled through the Windows control panel and PC shall be restarted. Once complete, the target driver can be installed.
  - Firmware Download Limitation:
    - USB Service must be activated for download process. Open Services, click **Start**, click **Control Panel**, double-click **Administrative Tools**, double-click **Services** and then verify the MorphoSmart USB Service status.
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## 3.59.1.0:

- Generation Date: October, 2014
  - Improvements:
    - USB Service: fix possible malicious code execution via unsafe duplicate handle.
      - USB driver 3.59.1.0 is compatible with MorphoSmart SDK 4.x, 5.x, 6.x versions.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.5.0.0
    - Biometric Driver: Version 3.59
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
  - Downgrade Caution (standard warning):
    - To downgrade a driver version 3.59.1.0 to an earlier driver version this future version shall be previously uninstalled through the Windows control panel. Once complete, the target driver can be installed.
  - Firmware Download Limitation:
    - USB Service must be activated for download process. Open Services, click **Start**, click **Control Panel**, double-click **Administrative Tools**, double-click **Services** and then verify the MorphoSmart USB Service status.
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## 3.59.0.2:

- Generation Date: May, 2014.
  - Improvements:
    - Biometric Driver: Windows 8.1 and Windows Server 2012 Microsoft Certification
    - USB Service: Processes defined as low integrity can access USB Service on Windows 7 and later version.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.4.0.0
    - Biometric Driver: Version 3.59
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.58.1.1:

- Improvements:
  - Biometric Driver: Windows 8 Microsoft Certification
  - USB Service: improvement of the USB Service robustness and Windows 8 (32 and 64 bits) compatibility
  - Installation: Digital signature of the MSI installer and shortcut to the Microsoft Certificate Attestation
- Includes:
  - MorphoSmart™ USB Service: Version 2.3.0.4
  - Biometric Driver: Version 3.58
  - SmartCard Driver: Microsoft CCID 5.2.3790.2724

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## 3.57.0.0:

- Improvements:
    - Biometric Driver: Suspend/resume bug fix
    - USB Service: fixed error using multiple firmware upgrade while MultiProtect's service (*Sagem License Service*) is running.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.3.0.3
    - Biometric Driver: Version 3.57
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.56.0.1:

- Improvements:
    - Common driver for MorphoSmart™ MSO/CBM/FINGER VP.
    - Windows XP/Vista/Seven/Server 2003/Server 2008/Server 2008 R2 certified.
    - Support for 64-bit operating systems.
    - Uninstallation/installation is improved.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.3.0.1
    - Biometric Driver: Version 3.56
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.6:

- Improvements:
    - Installation bug fixed for Windows Vista 64-bit and Windows Seven 64-bit.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.3.0.0
    - Biometric Driver: Version 3.56
    - SmartCard driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.5:

- Improvements:
  - Installation bug fixed.
- Includes:
  - MorphoSmart™ USB Service: Version 2.3.0.0

- Biometric Driver: Version 3.54
  - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.4:

- Improvements:
    - Installation is now full silent, no console window appears.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.3.0.0
    - Biometric Driver: Version 3.54
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.3:

- Improvements:
    - MorphoSmart™ USB Service: logs in file to help for debugging can be activated under Windows Vista.
    - MorphoSmart™ USB Service: handle leak fixed.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.3.0.0
    - Biometric Driver: Version 3.54
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.2:

- New Features:
    - Morpho MorphoSmart™ USB Service: logs in file to help for debugging can be activated.
    - Morpho MorphoSmart™ USB Service: stability improved.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.2.0.0
    - Biometric Driver: Version 3.54
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 3.54.23.1:

- New Features:
  - Biometric Driver: support for Microsoft Windows Vista.

- Biometric Driver: support for Microsoft 64-bit operating systems (Windows Vista 64-bit, Windows XP 64-bit and Windows Server 2003 64-bit).
  - Bug Fixed:
    - Morpho Service licence manager does not perturb the firmware download anymore.
  - Includes:
    - MorphoSmart™ USB Service: Version 2.1.0.0
    - Biometric Driver: Version 3.54
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
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## 2.41.22.4:

- New Features:
    - SmartCard Driver: evolution for including newer Microsoft CCID driver.
  - Includes:
    - MorphoSmart™ USB Service: Version 1.5.0.0
    - Biometric Driver: Version 2.41
    - SmartCard Driver: Microsoft CCID 5.2.3790.2724
  - Known Issues:
    - Biometric Driver version 2.41 hangs with Windows Vista when driver is closed. It results in freezing Plug and Play. Biometric Driver is closed on suspend mode or MorphoSmart™ USB Sservice stops or restarts.
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## 2.41.22.2:

- Bug fixed:
    - MorphoSmart™ USB Service: problem under Windows Vista (32-bit only).
  - Includes:
    - MorphoSmart™ USB Service: Version 1.3.0.0
    - Biometric Driver: Version 2.41
    - SmartCard Driver: Microsoft CCID 5.2.3790.2444
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## 2.41.22.1:

- Bug fixed:
  - Biometric Driver: problem in sleep mode on battery low.
- Includes:
  - MorphoSmart™ USB Service: Version 1.2.0.0

- Biometric Driver: Version 2.41
  - SmartCard Driver: Microsoft CCID 5.2.3790.2444
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## 2.36.22.0:

- New Features:
    - SmartCard Driver: evolution for including Microsoft CCID driver.
  - Includes:
    - MorphoSmart™ USB Service: Version 1.2.0.0
    - Biometric Driver: Version 2.36
    - SmartCard Driver: Microsoft CCID 5.2.3790.2444
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## 2.36.21.0:

- Bug fixed:
    - Several corrections.
  - Includes:
    - MorphoSmart™ USB Service: Version 1.1.0.0
    - Biometric Driver: Version 2.36
    - SmartCard Driver: Gemplus CCID
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## 2.36.19.0:

- New Features:
    - New version numerotation.
    - MSI Microsoft Installer compatible.
    - Added MorphoSmart™ USB Service protocole providing acces to MorphoSmart™ fingerprint terminals.
    - Compatible with SDK 4.0 and later only.
  - Includes:
    - MorphoSmart™ USB Service: Version 1.0.1.0
    - Biometric Driver: Version 2.36
    - SmartCard Driver: Gemplus CCID
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## 2.3.6.18:

- Corrections:
  - Evolution: WHQL signing.
  - Evolution: Compatible SDK 3.0 and later only.
- Includes:
  - Biometric Driver: Version 2.36
  - SmartCard Driver: Gemplus CCID

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