

## Release Note

### MorphoAccess® SIGMA Lite and Lite+ Series terminal

Online updates (latest firmware): <http://www.biometric-terminals.com>

Support: [hotline.biometrics@morpho.com](mailto:hotline.biometrics@morpho.com)

## Current Software revision: 3.5.1

### Installation and Compatibility

Once a terminal has been upgraded in Software revision 3.5.1, it cannot be downgraded to revision prior to 3.3.1.

Please refer to the section dedicated to the Software revision 3.2.5 (below) for details about installation procedure and compatibility.

### New features

#### Contactless Card

MorphoAccess® SIGMA Lite and Lite+ Series terminal supports the ISO 15693 standard (required for the new generation of HID iClass cards).

### Limitations

The MorphoAccess® SIGMA Lite and Lite+ Series terminal does not support ILV-based scripts (MA 500 or J Series command type):

- ILV-based scripts need to be converted into Thrift-based scripts (MA5G native command type) using MorphoBioToolBox.

- For features not supported by MorphoAccess® SIGMA Lite and Lite+ Series terminal in MA 500 or J Series mode, please use MorphoBioToolBox to configure directly the terminal.

The MorphoAccess® SIGMA Lite and Lite+ Series terminal does not support the “default init” ILV command in MA 500 or J Series mode. To return to default, factory settings, please use the on-screen management menu.

## Known issues

MorphoAccess® SIGMA Lite and Lite+ Series terminal freezes when an ethernet disconnection occurs while downloading a log file.

MorphoAccess® SIGMA Lite and Lite+ Series terminals can reboot randomly when performing simultaneously a database update and an identification.

MorphoAccess® SIGMA Lite and Lite+ Series terminals do not display explicit message or LED during upgrade (from 1 to 2 minutes including reboots).

MorphoAccess® SIGMA Lite and Lite+ Series terminals doesn't support USB devices with more than one partition.

Administrator is logged out from the webserver after changing the date and time of terminals.

iOS version 8 and after are not supported to enroll a user through webserver.

## Recommendations

iClass card usage can be optimized by a proper terminal setting, please contact hotline for further details.

## Previous Software revision: 3.5.0

### Installation and Compatibility

Once a terminal has been upgraded in Software revision 3.5.0, it cannot be downgraded to revision prior to 3.3.1.

Please refer to the section dedicated to the Software revision 3.2.5 (below) for details about installation procedure and compatibility.

### New features

#### OSDP improvements

MorphoAccess® SIGMA Lite and Lite+ Series terminal supports in OSDP mode:

- In the BIOMATCH command, all values of “biometric reader number” are allowed
- the "\*" and "#" characters in the "Identifier Enter" screen

#### Security enhancements

MorphoAccess® SIGMA Lite and Lite+ Series terminal reinforces its security. Particularly, the external USB port can be disabled with a dedicated setting. Please liaise your support contact for further details.

Additionally, for security purposes, the characters displayed on the screen (MorphoAccess® SIGMA Lite+ Series) when entering the user ID can be masked, using the “LCD\_configuration.ID\_keypad\_type” configuration key.

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## Recommendations

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## Previous Software revision: 3.4.0

### New features

#### HID SEOS card support

MorphoAccess® SIGMA Lite and Lite+ Series terminals can read and process SEOS cards (HID Biometric profile). In this case, the Biometric template must be in PKCompv2 format (up to 3 Fingers). Please note that the encoding of Biometric templates is not supported.

#### Duress event on WIEGAND

In case a duress finger is detected, MorphoAccess® SIGMA Lite and Lite+ Series ONLY send the “Duress event” on WIEGAND link to the controller. “Access Granted” or “Access Denied” user feedback is generated but not sent to the controller.

#### Partial support of Open Supervised Device Protocol - Version 2.1.7

MorphoAccess® SIGMA Lite and Lite+ Series terminals can be configured to communicate with an external Control Panel using OSDP. OSDP is a communication protocol that allows Peripheral Devices, such as MorphoAccess® SIGMA Family terminals, to interface with Control Panels or other security management systems. Security Industry Association has developed this protocol to foster interoperability among security devices. For more details about the covered use cases and supported OSDP commands, please contact your sales representative.

#### L1 Card encoded with Wiegand string option

MorphoAccess® SIGMA Lite and Lite+ Series terminal in MA5G native mode is now able to read a BiosCrypt card, encoded using SecureAdmin, with the Wiegand string option. Refer to 2016\_0000022621\_v4 - MorphoAccess 5G Series Parameters Guide.chm for the terminal configuration.

This option is to be configured using MorphoBioToolBox only (not the WebServer).

## MMI\_Play : New distant Command in MA5G native mode

The MMI\_PLAY command allows :

- For MalitePlus, to display a “Access Granted” or “Access Denied” message during a given lapse of time without additional display (no user id, name, time,...).  
The associated buzzer sound will be played if its key configuration is enabled.
- For MALite, to play LED Access granted/ denied during a given lapse of time without additional display (no user id, name, time,...).  
The associated buzzer sound will be played if its key configuration is enabled.

## Fixed issues / Improvements

Fixed issue: For the management of Mifare contactless cards, terminals in MA 500 or J Series legacy mode do not authorize a start block less than 4.

Fixed issue : MorphoAccess® SIGMA Lite and Lite+ Series terminal reboots during an authentication workflow involving an Iclass card with both Bioscrypt & Non-Bioscrypt templates.

Fixed issue : MorphoAccess® SIGMA Lite and Lite+ Series terminal reboots when it is not able to select Book & Page number of iClass cards during execution of Bioscrypt command '0x06A1'.

Fixed issue : If distant commands are used (from an external host), the first cancel command is not effective when executing a biometric operation with retry option enabled. Morpho recommends to send twice cancel commands.

Fixed issue : No more limitation on Clock and Data message reception for *left edge* and *right edge* parameters.

Improvement about the reading of HID iclass PACS DATA:

This reading is now functional only when “sc.verify\_userid” key value is set to

- either “HID\_card\_number”
- or “HID\_card\_number\_rev”.

No other key configuration is mandatory.

Improvements about the contactless card module:

- If the contactless card trigger is OFF, the contactless thread will be not started at the boot.
- If the contactless card trigger is OFF, the contactless card will be not detected.
- The contactless thread state doesn't change after cls distant commands. If the contactless thread is not activated before the command, then the contactless thread will stay not activated after the command.

Improvement about the configuration key *misc.multifinger\_timeout* :

Timeout values are fixed in the range: [1,30] in MA5G (native) mode and Bioscrypt Legacy mode.

## Previous Software revision: 3.3.1

### Installation and compatibility

Software revision 3.3.1 is not backward compatible.

Once a MorphoAccess® SIGMA Lite or Lite+ Series terminal has been upgraded, it cannot be downgraded to a 1.X.X or earlier 3.Y.Y version.

Please refer to the section dedicated to the Software revision 3.2.5 for details about installation procedure and compatibility.

### New features

New default Ethernet configuration (static IP)

By default, the Ethernet configuration of MorphoAccess® SIGMA Lite and Lite+ Series terminal is Static IP. This default Ethernet configuration must be changed before deploying the terminal on site (refer to 2014\_0000000606\_v7 - MA SIGMA - Installation Guide). Please note that the default Ethernet configuration is not applicable if the terminal has been configured and then upgraded to Software version 3.3.

Reinforced protection against possible hacking attacks

Safran Identity and Security highly recommends to update terminals with security software revisions.

### Fixed issues

Button Icon to enter the user ID now shows a keyboard (the icon in previous releases showed a fingerprint, which might be confusing).

Fixed issue: MorphoAccess® SIGMA Lite Series terminals do not support the DESFire cards that contain a file, the ID of which is different from 0.

Fixed issue: if a distant command requests the terminal to encode a contactless card, and if a card is not physically presented for encoding, the terminal does not respond any more.



Fixed issue: random blocking state (blank screen) of the MorphoAccess® SIGMA Lite Series terminal during booting up phase.

Fixed issue: for the MorphoAccess® SIGMA Lite Series terminal, the LED stays amber when executing the Set LED command 0x424.

## Previous Software revision: 3.2.5

### Installation and compatibility

Software revision 3.X.X is not backward compatible: once a MorphoAccess® SIGMA Lite and Lite+ Series terminal has been upgraded, it cannot be downgraded to a 2.Y.Y version.

Upgrade has to be done with either:

- MorphoBioToolBox v3.4.5
- Or Update the Upgrade-Firmware-Tool (refer to 2016\_2000021771\_v2 - MA5G - ApplicationNotes-UpgradeProcessEnhancement.pdf document)

### New features

Support of frame encapsulation over RS485:

- Manage multipoint and data integrity check
- Available in both MA 500 or J Series legacy mode and MA5G (native) mode
- (Refer to RemoteMessageSpecification for further details)

MorphoAccess® SIGMA Lite and Lite+ Series terminal support HID iCLASS® Elite contactless cards. Please contact the support team for further details about the HID iCLASS® Elite program.

MorphoAccess® SIGMA Lite and Lite+ Series terminal read HID iCLASS® Seos™ contactless cards (without biometric templates).

New GUI for “access granted”, “access denied” and Time and Attendance messages are available (as an option) on MorphoAccess® SIGMA Lite and Lite+ Series terminals.

New feature is added to enhance MMI feedback on IP when terminal is connected to a controller (please refer to RemoteMessageSpecification).

MorphoAccess® SIGMA Lite and Lite+ Series terminals acquisition, with only one capture by finger, is now supported in MA5G (native) mode. For Morpho Integrator’s Kit integrations, MACI release 6.1.10 is required.

MorphoAccess® SIGMA Lite and Lite+ Series terminals now support the one finger database management in Morpho Legacy mode.

To ease their configuration, MorphoAccess® SIGMA Lite and Lite+ Series terminals are able of automating some operations related to the Wiegand frames. For HID contactless cards (including Prox cards), the HID card number can be used to:

- Detect Wiegand Frame Size
- Duplicate Input Frame to Output Frame
- Duplicate Input Site Code to Output
- (Refer to the dedicated application note for further details)

## **Fixed issues**

### Multiple MAC Addresses at boot:

Correction of switch disconnection with MorphoAccess® SIGMA Lite and Lite+ Series terminals due to dual MAC address at boot.

### SSL and TCP channels

MorphoAccess® SIGMA Lite and Lite+ Series terminals in Bioscrypt Mode reboots continuously on enabling SSL channel state

MorphoAccess® SIGMA Lite+ terminal LCD in MA5G and Morpho legacy modes hangs on enabling of TCP channel

### Serial link

MorphoAccess® SIGMA Lite and Lite+ Series terminal support of RS link encapsulation in MA2G and MA5G modes.

Correction of random communication issues (timing adaptation) between MorphoAccess® SIGMA Lite and Lite+ Series terminals and control panel using a RS-485 serial link.

Correction of the PIN management by distant command with MorphoAccess® SIGMA Lite and Lite+ Series terminals.

## **Previous Software revision: 2.2.1**

The release 2.2.1 is the last software firmware release before the merge of SIGMA and MALITE/MALITE+