



Sagem Défense Sécurité
SAFRAN Group

MorphoAccess™ 100 Series

Configuration Guide

Produced by SAGEM Défense Sécurité

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MA100 Series Configuration Guide
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INTRODUCTION

This document gives an exhaustive description of the MorphoAccess™ 100 series configuration parameters.

The following configuration files are detailed:

- “app.cfg” stores application parameters.
- “adm.cfg” stores remote management parameters.
- “net.cfg” stores network parameters.
- “bio.cfg” stores terminal recognition parameters.

These files can be retrieved with remote management commands. See the *MA100 Series Standard Host Interface Specification* for explanations about remote management.

The notation below is employed:

[section in configuration file]

“parameter name 1” default value [min_value max_value]

Parameter details.

“parameter name 2” default value (value_1, value_2)

Parameter details.

APPLICATION FILE (APP.CFG)

[bio ctrl]

“identification” 1 (0,1) (default mode on MA100)

If activated the terminal works in identification : captured fingerprints are matched against the terminal database.

On MA120 and MA110 identification is disabled by default.

“identification timeout” 10 [1 60]

Time given to the user to present his finger after a first incorrect identification.

“nb attempts” 2 (1,2)

A value of “2” means that after a first incorrect identification or authentication a second chance is given. Set this parameter to “1” to offer only one try.

“bypass authentication” 0 (0,1) (MA120 / MA110 only)

If set to “1”, opens door without checking template.

“authent card mode” 0 (0,1) (MA120 / MA110 only)

If set to “1”, the tag "CARDMODE" on the card decides on the control flow.

“authent PK contactless” 1 (0,1) (MA120 / MA110 only)

If set to “1”, templates stored on the card (tag "PK") are matched against captured fingerprints

“authent ID contactless” 0 (0,1) (MA120 / MA110 only)

If set to “1”, templates stored in the terminal database indexed by tag "ID" on the card are matched against captured fingerprints.

“authent timeout” 10 [1 60] (MA120 / MA110 only)

Defines (in seconds) the delay given to the user to present a finger on the sensor after having passed a contactless card.

[contactless] (MA120 / MA110 only)

“C” 1 (1,2,3) (MA120 only)

1 : Key A then B are presented to read a Mifare™ card.

2 : Key A only.

3 : Key B only.

“B” 4 [4 215] (MA120 only)

First block read on midfare cards

“HID key valid” 1 (0,1) (MA110 only)

“1” means *iCLASS*TM security keys is valid

“0” means the key is not valid. Default key will be restaured.

“HID start page” 1 [1 5] (MA110 only)

First page read on *iCLASS*TM 16K16 cards.

“HID start block” 19 [19 177] (MA110 only)

First block read on *iCLASS*TM 16K2 cards.

“HID mode” 2 (MA110 only)

Do not edit this value.

[relay]**“aperture time in 10 ms” 300 [50 60000]**

The relay aperture time can be defined with this parameter.

“enabled” 1 (0,1)

Activates a relay after a successful control.

[send ID UDP]**“host address or name” 134.1.2.189 (IP address only)**

Defines the IP address of the host that will receive the UDP message.

“host port” 11020 [0 65535]

Defines the host port on which UDP messages are sent.

“enabled” 0 (0,1)

Activates the sending of UDP messages.

[log file]**“enabled” 0 (0,1)**

Activates the local diary.

[tamper alarm]

“level” 0 (0,1,2)

0 No alarm in case of back cover removal.

1 Send alarm in case of back cover removal.

2 Send alarm and activates buzzer in case of back cover removal.

[buzzer]

“volume” 5 [0 10]

0 the buzzer is off.

[1 10] the buzzer is active. The buzzer sound level cannot be changed.

[info]

“type” (100, 120, 110)

Terminal type

“release” A (read only)

For internal use only.

“minor” Y (read only)

Minor software revision.

“major” X (read only)

Major software revision.

[send ID wiegand]

“valid format” 1 (0,1) (read only)

The frame format is valid.

“custom format” 0.0 (do not edit)

Reserved for SAGEM DS custom protocols.

“ID format” 9.16 (n.m)

Insert m bits of ID value at offset n.

“site format” 1.8 (n.m)

Insert m bits of site value at offset n.

“stop format” 3.12 (0.0 1.0 2.n 3.n 4.0)

Defines the stop control bit.

“start format” 2.12 (0.0 1.0 2.n 3.n 4.0)

Defines the start control bit.

“frame length” 26 [1 128]

Defines the number of bits of the frame.

“HID conversion” 0 (0,1)

Converts identifier in HID reserved data format.

“site code” 7 (0,65535)

Terminal site code.

“enabled” 0 (0,1)

Activates the sending of Wiegand identifier (Dataclock and RS485 must be off).

[send ID dataclock]**“data inverted” 0 (0,1)**

Data level is inverted.

“clock inverted” 0 (0,1)

Clock level is inverted.

“enabled” 0 (0,1)

Activates the sending of Dataclock identifier (Wiegand and RS485 must be off).

[send ID RS485]**“terminal identifier” terminal dependent value [0 255]**

Defines the terminal on a RS485 network.

“parity” 0 (0,1,2)

0 No, 1 Odd, 2 Even

“stopbits” 1 (1,2)

1 or 2 stop bits.

“databits” 8 (7,8)

7 or 8 databits

“speed” 115200 (300,1200,2400,4800,9600,19200,38400,57600,115200)

Link speed in bps.

“enabled” 0 (0,1)

Activates the sending of RS485 identifier (Wiegand and Dataclock must be off).

[failure ID]**“timeout ID” 65535 [0 65535]**

This value is sent when the identification/verification operation aborts due to a timeout error.

“not in DB ID” 65535 [0 65535]

This value is sent when no record can be found in the database for the specified user id (i.e. no biometric operation can be performed).

“not recognized ID” 65535 [0 65535]

This value is sent when a user is not identified (i.e. a biometric operation has failed).

“alarm ID” 65535 [0 65535]

This value is sent when the identification/verification operation aborts due to a timeout error.

“generic error ID” 65535 [0 65535]

This value is sent when any other biometric error occurs.

“enabled” 0 (0,1)

Activates the failure ID.

[led IN]**“controller ack timeout” 300 [0 2147483647]**

LED IN “acknowledgement timeout” in 10 ms.

“enabled” 0 (0,1)

LED IN mode activation.

BIOMETRIC SENSOR PARAMETERS (BIO.CFG)

[bio ctrl]

“matching th” 5 [1 10]

Defines the terminal matching threshold.

ADMINISTRATION SETTINGS (ADM.CFG)

[remote management TCP]

“latency timeout” 30 [1 3600]

This value defines the delay authorized between two TCP packets when a fragment of command is received.

“inactivity timeout” 0

Do not change this parameter.

“port” 11010 [0 65535]

Defines the terminal server port.

[terminal]

“group” 255 [0 255]

Do not change this parameter.

NETWORK PARAMETERS (NET.CFG)

[boot proto]

“DHCP activated” 0 (0,1)

0 : static IP address.

1 : the terminal starts using DHCP boot mode.

[parameters]

“network mask” 255.255.240.0

Static network mask.

“default gateway” 134.1.6.20

Static default gateway.

“network address” 134.1.32.214

Static IP address.

“host name” MA061110008

Host name for DHCP.

[device]

“speed” 10 (10, 100)

Ethernet device speed (Mbits/s)

In most networks, in order to limit repeat packets, it is advised to configure speed at 10 Mbits/s.

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