

# MorphoAccess<sup>®</sup> Sigma Series and MorphoWave<sup>®</sup> Compact



Application Notes: Mobile  
Network configuration



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## Application Notes: Mobile Network configuration

### Revision History

The table below contains the history of changes made to the present document.

Version	Date	Description
01	2016	First version
02	December 2017	Update company name (IDEMIA)
03	July 2018	Add MorphoWave Compact support

### Introduction

The purpose of this document is to provide an overview of available possibilities to configure a 3G dongle on a MorphoAccess® terminal or MorphoWave® Compact terminal. IDEMIA recommends to use distant commands via TCP client. Please refer to:

2016\_2000011819-V4 Application Note: Distant command using TCP client

#### **Important:**

- 3G feature is only available for MorphoAccess® SIGMA Series terminals.
- 4G feature is only available for MorphoWave® Compact terminals and following procedure is applicable.

Some preconditions are required before being able to configure and use 3G feature:

- Firmware version higher than or equal to version 3.2 (for MorphoAccess)
- License named “MA\_3G” installed on terminal
- SIM card with DATA exchange capabilities
- 3G dongle with SIM card connected to terminal

After preconditions are fully met, Mobile Network can be configured by two ways:

1. Directly on terminal panel
2. Remotely with MBTB software (MorphoBioToolBox) version 3.4.1 or higher

Next chapter describes in details the steps to follow in both cases.



## Mobile Network configuration

In order to access Mobile Network of Mobile network operator, some parameters have to be set in terminal.

Parameters are:

- Access Point Name
- Access Number
- User Name
- Password/PIN

Values to be set in these parameters to access data network are provided by your Mobile network operator.

First step is to check on a computer that 3G dongle with SIM card can access DATA network of mobile provider.

For some 3G dongles, you have to set these parameters. But this is not mandatory for all 3G dongles supported by the terminal. Please follow below table:

	Configuration mandatory	Configuration not mandatory
HUAWEI E3131 Hi Link		
HUAWEI E3131-H2		
HUAWEI MS2131		
HUAWEI E3372 4G		

## Mobile configuration via terminal panel

Below is the detail of the steps to follow in order to set parameters value via terminal interface.

1. Insert SIM card in 3G dongle
2. Connect 3G dongle to MorphoAccess® SIGMA Series terminal
3. Power up MorphoAccess® SIGMA Series terminal

4. Enter in Menu



Figure 1 : Enter in configuration menu

5. Enter Password and validate to access configuration menu on terminal



Figure 2 : Enter password

6. Enter in Communication Menu



Figure 3 : Enter in Communication Menu

## 7. Choose Network Interface

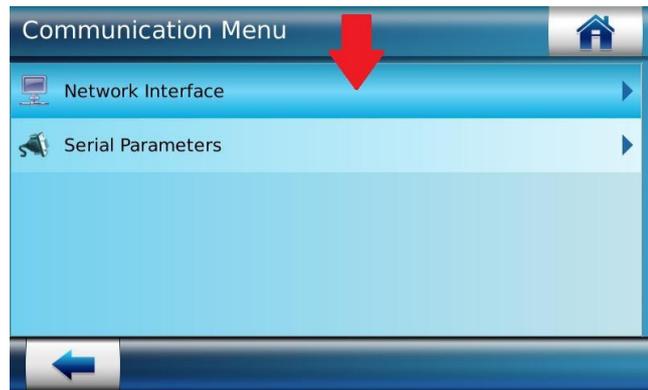


Figure 4 : Choose Network Interface

## 8. Choose Mobile Network

**Remark:** This menu will be displayed only if a compatible 3G dongle is connected to the terminal.



Figure 5 : Choose Mobile Network

## 9. Enter information given by mobile provider to authorize access to DATA network.

**Remark:** Parameters in following menu are given as example for French mobile provider *Orange*



Figure 6 : Enter parameter's value

## 10. Validate to save changes



Figure 7 : Validate changes

At this point if all parameters are correctly set, MorphoAccess® SIGMA Series terminal should have mobile DATA access thanks to 3G dongle.  
Refer to Chapter "Check Mobile network configuration" to check if MorphoAccess® SIGMA Series terminal has access to DATA network.

## Mobile configuration via MBTB

Below is the detail of the steps to follow in order to set parameters value via MBTB (Administration Software).

**Important:** MBTB has to be connected on the same network and subnetwork as the MorphoAccess® SIGMA Series terminal. Please check your computer network settings has an IP address on the same subnet as MorphoAccess® SIGMA Series terminal in order to establish the connection without problem.

1. Insert SIM card in 3G dongle
2. Connect 3G dongle to MorphoAccess® SIGMA Series terminal
3. Power up MorphoAccess® SIGMA Series terminal
4. Start MBTB and enter IP address of MorphoAccess® SIGMA Series terminal

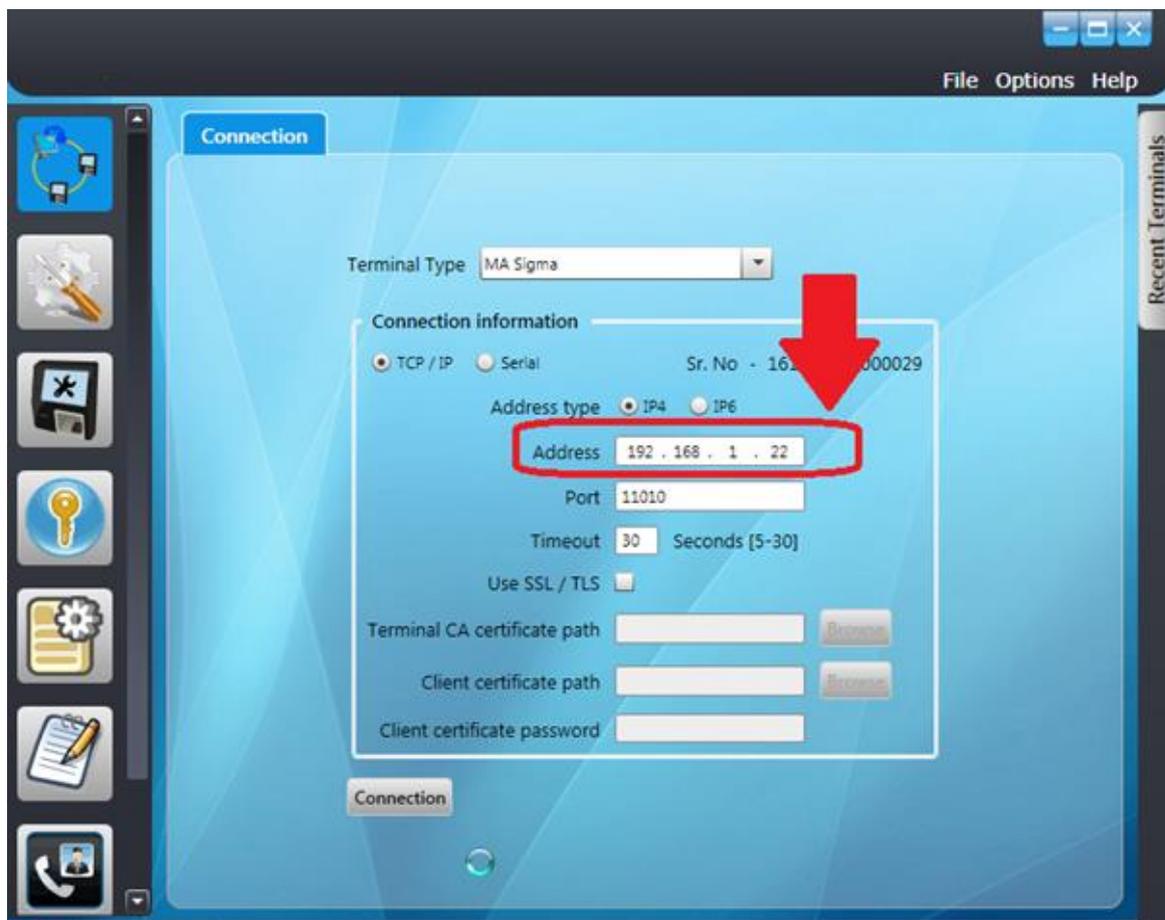


Figure 8 : MBTB Enter IP address of terminal

5. Click on *Connection*. Connection should succeed.

6. Enter in *Settings Menu*



Figure 9 : MBTB Enter in Settings Menu

7. Select Tab *Communication Configuration*

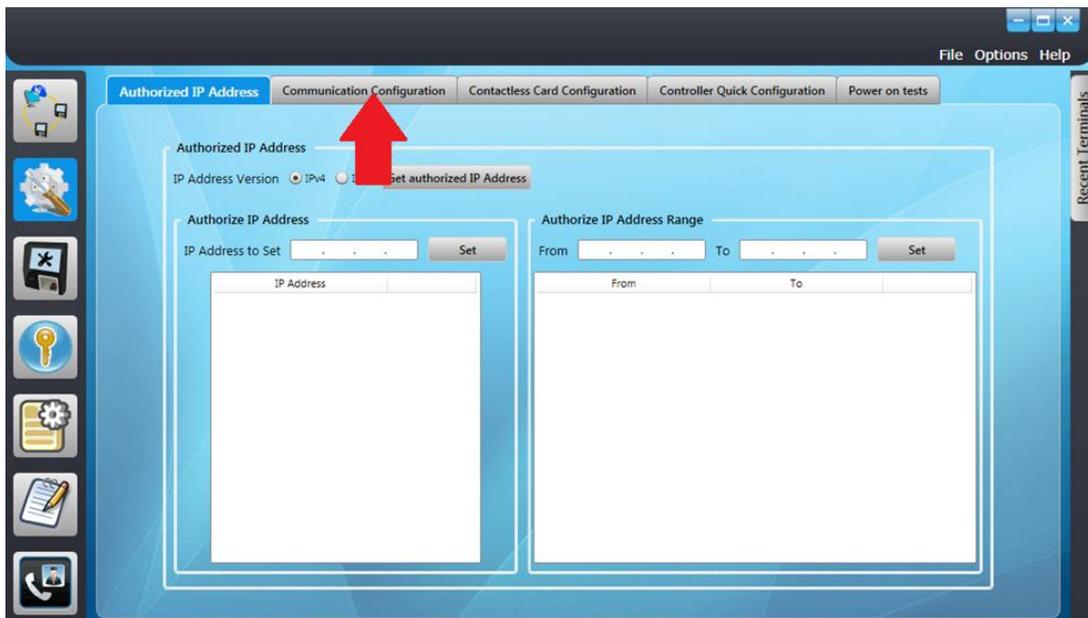


Figure 10 : MBTB Select tab Communication Configuration

8. Select sub tab *Mobile Network Configuration*

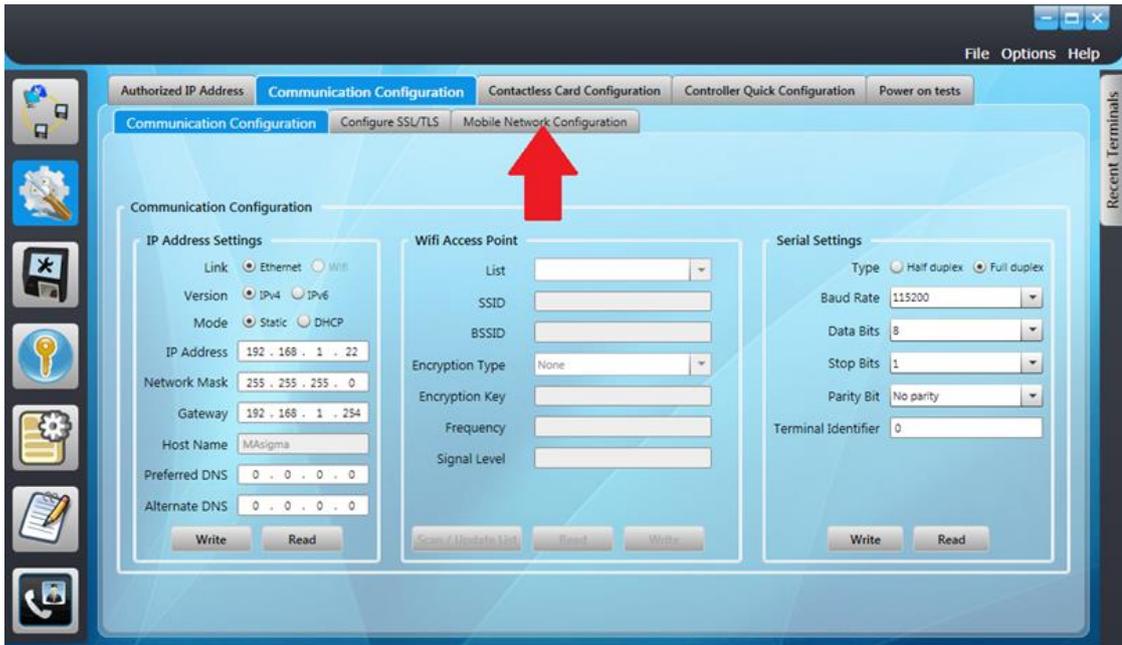


Figure 11 : MBTB Select sub tab *Mobile Network Configuration*

9. Enter information given by mobile provider to authorize access to DATA network.  
Remark: Parameters in following menu are given as example for French mobile provider *Orange*

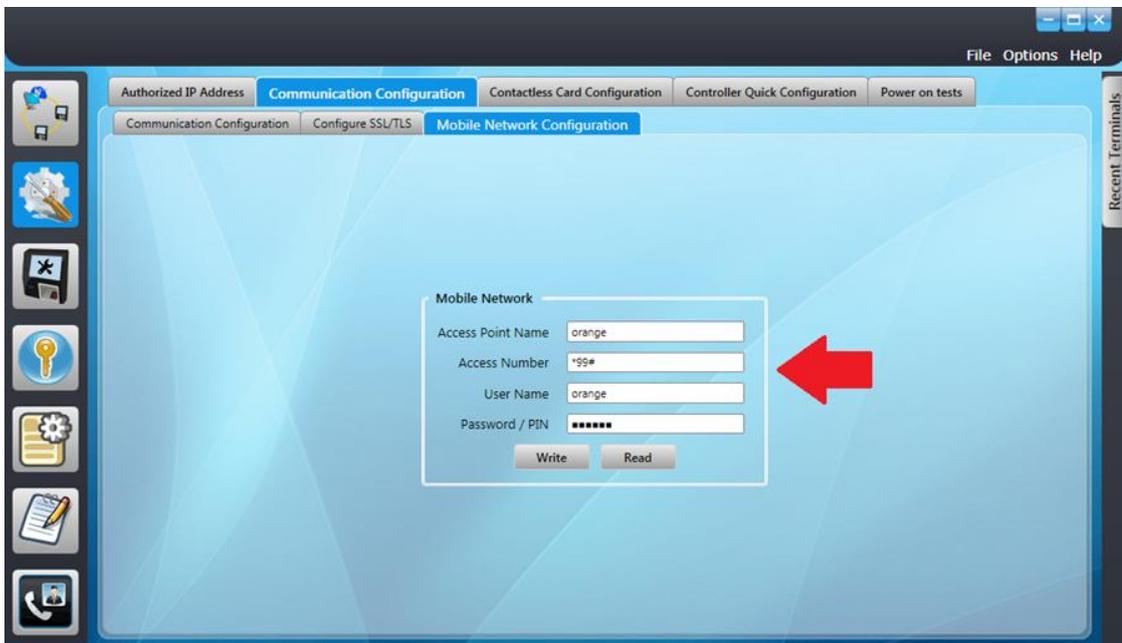


Figure 12 : MBTB Enter parameter's value

## 10. Click Write to save changes

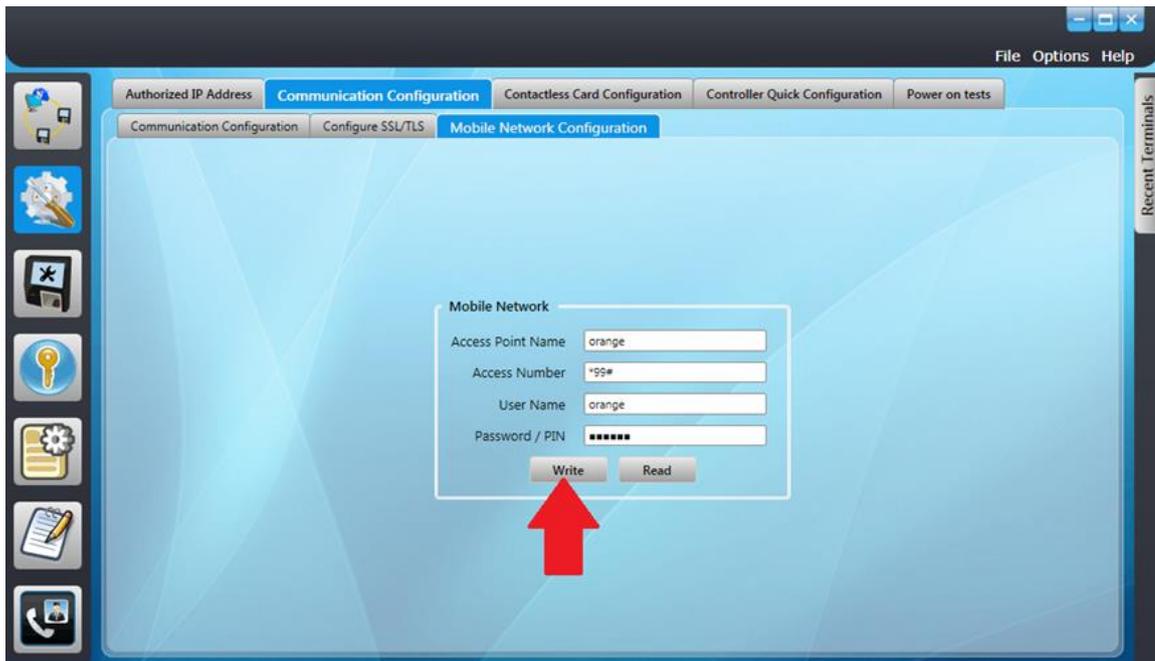


Figure 13 : MBTB Click Write to save changes

At this point if all parameters are correctly set, MorphoAccess® SIGMA Series terminal should have mobile DATA access thanks to 3G dongle.

Refer to Chapter “Check Mobile network configuration” to check if MorphoAccess® SIGMA Series terminal has access to DATA network.

## Check Mobile network configuration

This section describes how to check if MorphoAccess® SIGMA Series terminal is well configured to access DATA network.

1. Enter in Menu



Figure 14 : Enter in Configuration Menu

2. Enter Password and validate to access configuration menu on terminal



Figure 15 : Enter password

3. Enter in *Information Menu*



Figure 16 : Enter in Information Menu

#### 4. Enter in *Communication Menu*

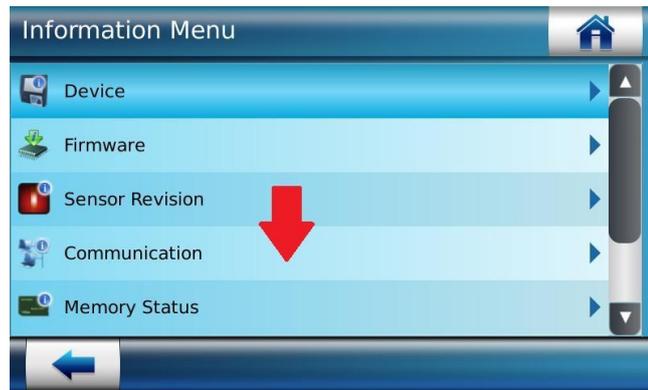


Figure 17 : Enter in Communication Menu

#### 5. Enter in *Mobile Network*



Figure 18 : Enter in Mobile Network

#### 6. Check if IP address field is valid.

This IP address is automatically attributed to 3G dongle if connection to mobile network is successful.

- If value is different from "0.0.0.0", it means that configuration is correct.
- If value is "0.0.0.0", configuration is incorrect: MorphoAccess® SIGMA Series terminal is unable to access mobile network.



Figure 19 : Result if configuration failed



Figure 20 : Result if configuration is successful

**IMPORTANT:** One minute may be needed to get IP address displayed after setting a new configuration (MBTB or interface). Display in terminal's interface (see in Figure 19 and 20) doesn't refresh automatically! Push arrow back and enter again in menu *Mobile Network* (see in Figure 19 and 20) to see updated value.