

MIFARE SAM GENERATOR

Code: PT-SAMW-00 Mifare SAM Generator ENG 01EPV
Version: 1.0 10/06/2014

Mifare SAM GENERATOR (MSAM-G) is The Tools for recording Mifare SAM ICs to access high security level Smart Cards as Mifare Ultralight C, Mifare Classic, Mifare PLUS and Mifare DESFIRE.

MSAM KEY APPLICATIONS

Recording SAMs for contactless Integrated Ticketing Systems for Public Transports.

Recording SAMs for secure contactless Citizen Cards.

Recording SAMs for secure contactless Access Control Systems.

HOW IT WORKS

Once the security model for the system has been designed and the configuration of the different SAM profiles to be implemented has been defined, the **MSAM-G** executes the actual recording of the different SAM to be distributed to the equipment.

MSAM USE CASE

A Transport Authority needs a Contactless Smart Card Ticketing System with several actors (Several Transport Operators, Reloading nets etc.) and designs the security architecture for the card and the SAMs.

The Transport Authority generates the keys for the cards and the SAMs (key ceremony) the SAM configuration for the different SAM profiles on XML files, and a master SAM with all the keys and security issues.

With the MSAM-G it proceeds to generate all the SAM for the different operators and equipment involved (i.e. validators, recharging equipment etc.) from the XML SAM and master SAM.

MSAM KEY FEATURES

Configuration INPUT

XML SAM FORMAT File.

Master SAM: (Not mandatory. It can store the keys).

License Control: USB pen drive

Type of recording

SAM Configurations: Mifare SAM AV2 (AV1 or AV2 Mode).

Smart Cards: Mifare Ultralight C, Mifare Classic, Mifare PLUS and Mifare DESFIRE.

Keys: 16 Bytes 3DES, 24 Mytes 3DES, AES128, AES192.

Others

Secured Application.

Compatible with any PC-SC readers.

Friendly and Easy to use.

Spanish and English language supported.

1. The **MSAM Manager Tool** can be used to design, configure and manage the SAMs, generating fully compatible XM SAM FORMAT files and master SAMs for **MSAM-G**.

2. If the master SAM it is not to be used, the keys on the XML file must be encrypted.

PALMA TOOLS SAM SECURITY TOOLS WORLDWIDE



TECHNICAL SPECIFICATIONS

Product Features

Platform requirements

Minimum RAM memory	1 GB
Operating System	Windows XP, VISTA, 7 y 8
USB ports	1 for SAM Recording 1 for Master SAM 1 for the license 1 If mechanical dispensing mechanism is used

Configuration SAM input

Configuration	XML SAM FORMAT File
KEYS	Option 1: XML SAM FORMAT File (encryption recommended) Option 2: With Master SAM

Application Parameters

Keys visibility	No
-----------------	----

Keys and Language

SAM keys	Stored internally or in Master SAM
Multi language	English and Spanish

SAM configuration

SAM for different equipments	No limits for the number of different SAM possible configurations for different equipments
------------------------------	--

STOCK generation

SAM Analyzer	SAM Verification Tool that shows Key Entries and KUCs information
Master Key testing Tool	Master Key Authentication Tool