



## Government Multi-Purpose Card Project

Client: Malaysian Government

# Overview

### ▲ GMPC Pilot

*3000 units of Enterprise 1010 secure mobile readers were deployed by five major government agencies under the GMPC Project.*

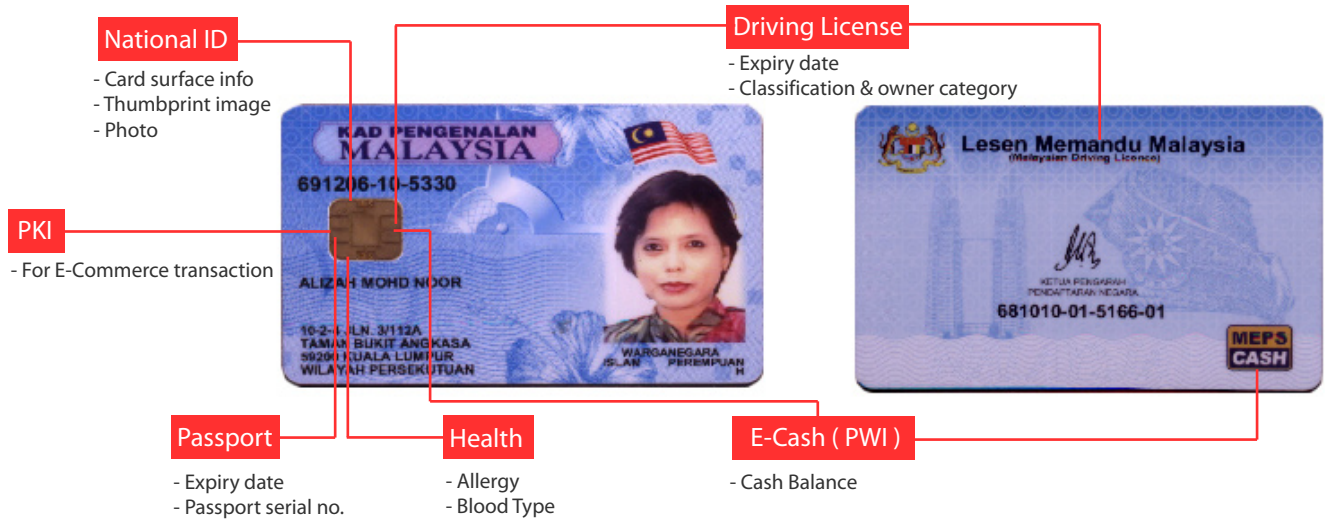
The GMPC (Government Multipurpose Card) Project is one of the seven Multimedia Super Corridor (MSC) flagship applications and was officially launched on 5th September 2001. The MSC is sponsored by the Malaysian Government, which is dedicated to promote the advancement of IT applications in Malaysia into the Information Age.

The implementation of the GMPC project will run for two years covering the city area of Kuala Lumpur, Klang Valley and MSC area. The Government has set a target to proceed with nationwide implementation by early 2003 and to ensure that 23 million Malaysian citizens acquire their smart ID card within five to eight years.

Through this project, Malaysian citizens are expected to possess a smart ID card that incorporates the holder's national identity, passport, driving license, health records, PKI, biometric, Touch & Go and ATM functionalities. The same card would also serve as an e-cash card whereby electronic money can be stored into the card which will promote a cashless environment in the near future. For the record, this project will be the first nationwide implementation of an integrated identification and e-commerce application worldwide.

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Below is an illustration of the GMPC and its applications;



# The Project

▲ For more of GMPC smartcard information visit: [www.jpn.gov.my](http://www.jpn.gov.my)

For added security, the holder's picture and fingerprint are digitally stored into the chip. This biometrics technology is integrated with the Automated Fingerprint Identification System (AFIS) at National Registration Department Headquarters. The digital format of the thumbprint, stored in the chip, is called a "minutiae" and is considered secure and reliable. The verification of live fingerprints, using mobile and desktop readers from the GMPC Project, is done by matching the digital format of the live finger against the stored minutiae.

Tricubes computers, an MSC Status Company is proud to introduce its latest product called Enterprise 1010. Tricubes has been contracted to design and develop 3000 units of Enterprise 1010 for the purpose of Mobile Card Acceptance Device (MCAD) by the Malaysian Government for the GMPC Project. The Enterprise 1010 mobile readers have been successfully deployed and was recently awarded Malaysian Computer Industry ICT Product of the Year 2001.

Tricubes scope of work for the Pilot Phase of the GMPC Project is to develop applications and supply desktop and mobile terminals. The desktop terminals approved by the Government is Intellect 8515 Multi-pay terminal, picture as shown. ( see next page )



Desktop Reader ( 8515 )



SMA Enterprise1010



**Desktop reader**

The 8515 is used at front-end counters at the Government Services Centers (GSC) where the GMPC is issued. The device is equipped with peripherals such as magnetic stripe reader, smart card reader, and is able to update the information on the chip. Card holders can also make e-payment through the MEPS cash on the card.

**Mobile Card Acceptance Device**

SMA Enterprise 1010 is a wireless handheld computer running on the Windows CE platform with embedded peripherals such as smart card reader, a biometrics fingerprint scanner, infrared ports and a LCD touch screen. There is a built-in GSM to enable on-line inquiries and secure transactions. Its rugged casing enables usage in adverse conditions outdoor.

Enforcement officers are equipped with these SMAs to verify the card holders via the national ID verification, license verification photo image and thumbprint verification. **Enterprise 1010** is also used to access health information and passport details of the holder. The SMA is equipped with a wireless modem that enables the enforcement officers to perform on-line queries to their host. This capability is vital to further improve the efficiency of the enforcement operations. As part of the project requirements, traffic summonses are updated on-line and public can pay their traffic summonses on the spot. This provides convenience to the public and helps to improve the image of the enforcement agencies in Malaysia.

Enterprise 1010 has been developed as an enabling technology that will allow for mobile e-commerce to become a reality; enabling highly secure financial and non-financial transactions to be made using a mobile device, having first authenticated the card holder via its unique biometrics. Thanks to the choice of an open OS such as Windows CE, **SMA Enterprise 1010** also features an immediate compatibility with numerous Enterprise Applications (Enterprise Resource Planning, Customer Relationship Management, etc) and is of course internet-ready. This allows for numerous online services to be offered to those whose professional environment requires high mobility and/or security.

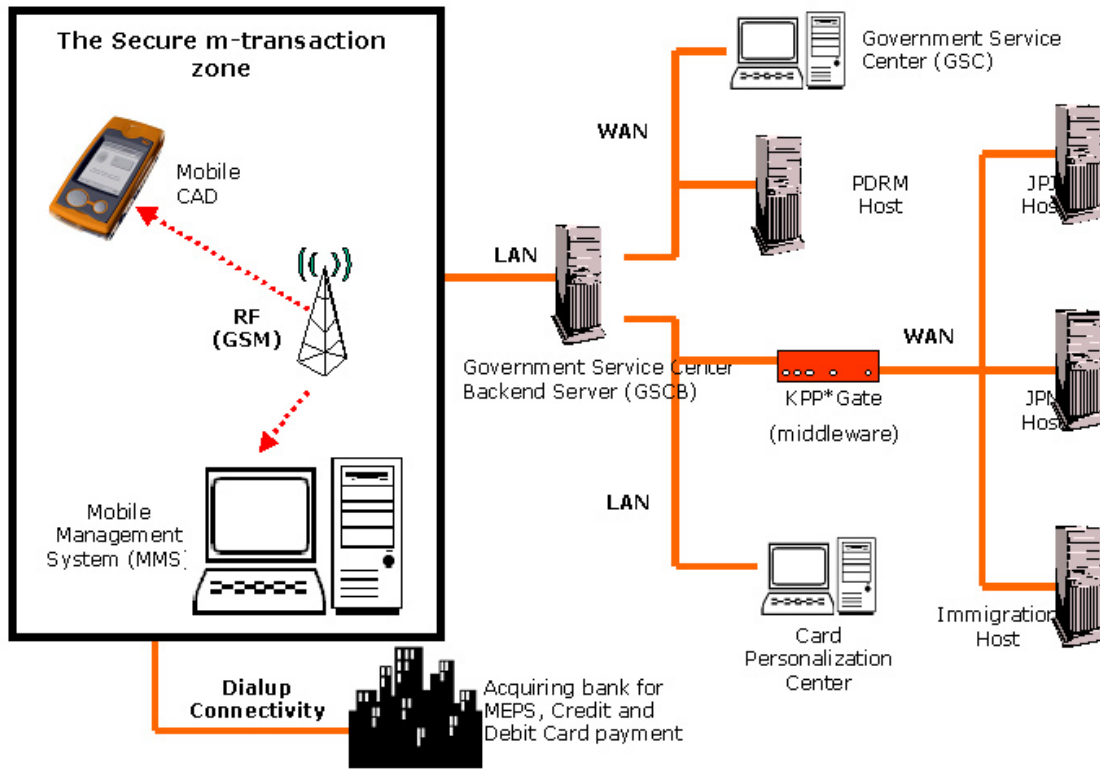
Courtesy of the GMPC project, the world will be witnessing the first nationwide implementation of an integrated identification and e-commerce application. Tricubes is unconditionally honored to be in the midst of this historic event with its delivery of the integrated mobile smart card reader acting as the GMPC's mode of card acceptance.

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Below is an illustration of the GMPC Network Diagram:





## About Tricubes

▲ For more information  
visit: [www.tricubes.com](http://www.tricubes.com)

Tricubes Computers, is a product development company providing a complete end-to-end secure and mobile solution for the enterprise market. Our Product Development Division focuses in designing and developing innovative products, which ranges from wireless handheld computer, desktop biometrics with smart card reader to door access using fingerprint verification. All our products and applications are packaged with multiple security features that run on multiple platform allowing third party applications to be easily integrated.

Tricubes has formed strategic partnerships in Belgium, France, UK, Hong Kong and Singapore. For further details please contact:

**Laurent Cochet**  
VP International Marketing  
[laurent.cochet@tricubes.com](mailto:laurent.cochet@tricubes.com)

Tel: +33 1 45 57 04 49  
Tel: +33 1 40 60 09 11

**Faezah Amir**  
Marketing Communications  
[faezah.amir@tricubes.com](mailto:faezah.amir@tricubes.com)

Tel: +603 2055 3059  
Fax: +603 2164 7211

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