



# UNICAPT™ 32

Ingenico has designed a complete set of tools to provide outstanding support to customers developing applications in UNICAPT 32 and managing Ingenico terminals.

### Development support components

Ingenico has incorporated a wealth of knowledge into this easy to use platform. Whether you are developing a payment application, a value-added application, or one that doesn't involve payment at all, you will find helpful advice and tools to develop your application quickly and easily.

A complete library of both payment and non-payment applications has already been added to the UNICAPT 32 OS and contributes substantially to the successful certification process of applications developed on this platform.

### IngeDev

IngeDev is the Integrated Development Environment (IDE) used to develop banking and non-banking applications on Ingenico UNICAPT 32 products. This tool has been designed to ease and speed-up design, development, testing (PC simulation) and validation of applications (Remote debugger).

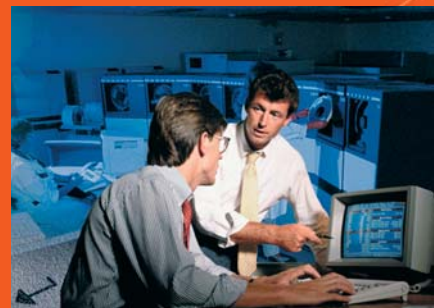
It integrates all the features required to create applications in an efficient, productive and secure way.

IngeDev is based on the Eclipse™ development environment which provides a well-known and powerful open-source platform.

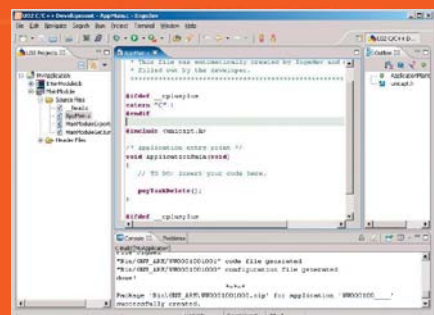
### IngEstate

IngEstate is Ingenico's Terminal Management System. This software allows Ingenico customers to remotely update, replace or install applications and some UNICAPT 32 platform components in the field.

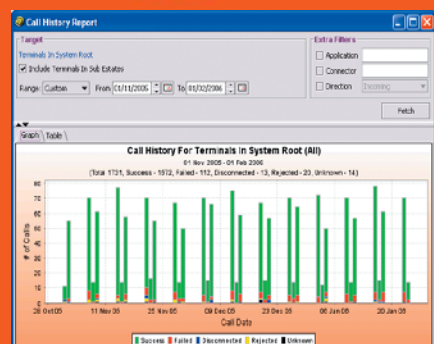
IngEstate can lower maintenance costs while providing more services to merchants.



## IngeDev™



## IngEstate™



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# UNICAPT™ 32

The UNICAPT™ 32 platform is a combination of a high performance secure core and a powerful multi-application Operating System. UNICAPT 32 is accompanied by a full software suite including a state-of-the-art development kit and an advanced terminal management system.

In order to provide the full benefits of its powerful platform, Ingenico implements UNICAPT 32 across its entire terminal range: countertop, retail, PIN Pads, portable and mobile solutions. This allows one application to be developed to work with any UNICAPT 32 terminal.

UNICAPT 32 is a proven platform with an advanced security architecture currently deployed on several millions Ingenico terminals worldwide. This widely used platform is constantly upgraded in order to offer the highest security and performance.



## The secure multi-application platform



Secure transaction and payment solutions

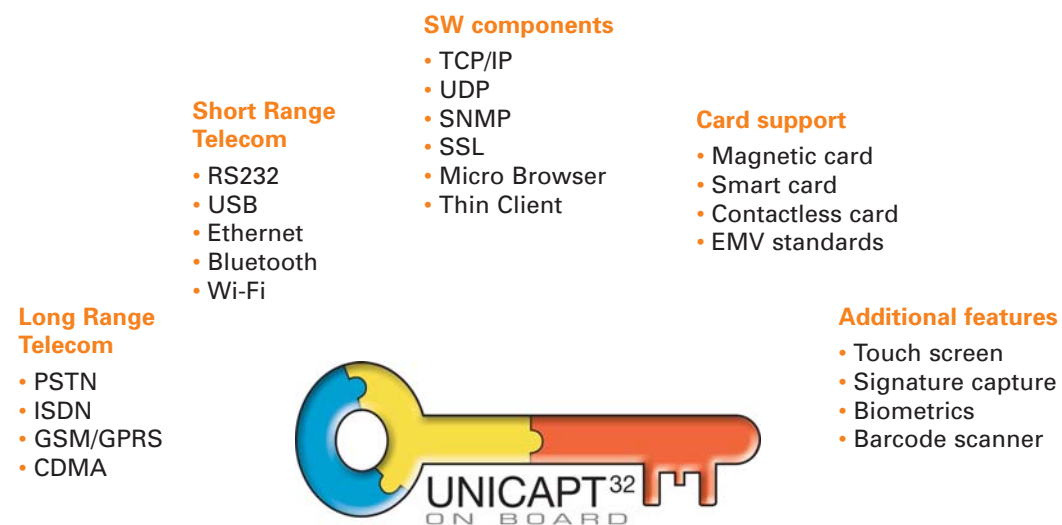
## UNICAPT 32 features / overview

*A wide range of technical capabilities to cover most needs*

UNICAPT 32 offers a complete Application Programming Interface to applications enabling a huge variety of development options with Ingenico's platform. This API allows management of simple to very complex applications

that require a high level of control over the whole process.

UNICAPT 32 has been designed in order to offer state-of-the-art Hardware and Software solutions on different aspects:



### Value-added applications

- Loyalty
- Gift cards
- Online advertising
- Electronic benefits transfer
- Health
- E-purse



i3380



i6700



i5100



i7780



i8550

All the features supported by the UNICAPT 32 platform allow you to integrate various types of applications on the whole Ingenico product range

from the simplest PIN Pad to the most complex and feature-rich versions of color touch screen countertops and portable terminals.

## UNICAPT 32 platform architecture

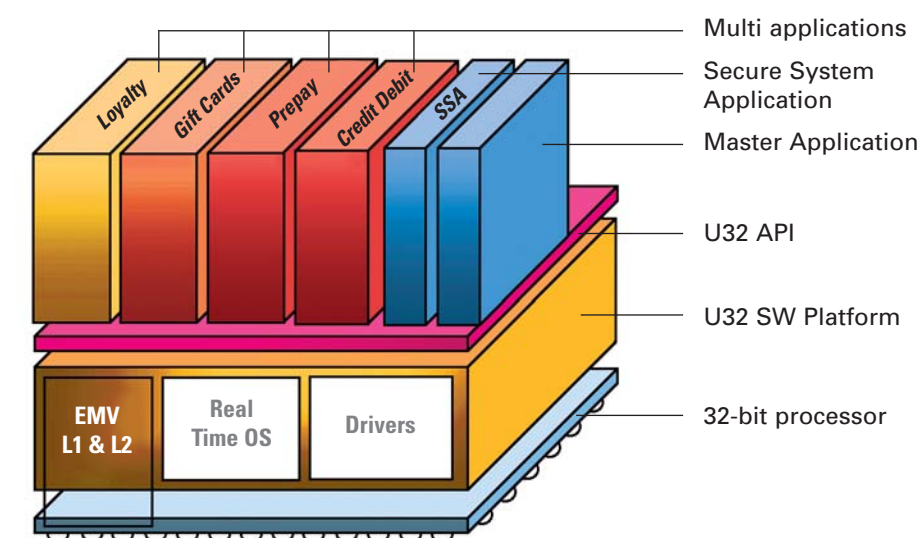
*A consistent development platform for Ingenico customers*

UNICAPT 32 Hardware & Software platform provides a highly secure environment that complies with the most stringent certification schemes: PCIPED, ZKA, Interac, Interpay...

UNICAPT 32 is also a future proof platform: its software has been designed to support easy hardware upgrades allowing Ingenico to continuously increase the performance of its product range while keeping compatibility with any deployed applications.

UNICAPT 32 is a versatile platform allowing Ingenico to offer multiple implementations to cover all of its terminal needs. Indeed, it supports any banking and non-banking application that requires a multi-application environment with high performance.

Finally, UNICAPT 32 integrates embedded peripherals to ensure efficiency. The Real Time OS, the EMV L1 & L2 kernel and the embedded drivers contribute to the universal compliance of Ingenico UNICAPT 32 platform to market and customer requirements.



### THE UNICAPT 32 PLATFORM IS COMPOSED OF

- A secure 32-bit processor – different versions supported.
- A complete SW platform (RTOS, drivers, EMV L1 & L2 kernel...).
- An extensive API to completely control the system from the applications.

### TECHNICAL CHARACTERISTICS

#### Hardware

- ARM 32-bit processor
- Integrated peripherals with DMA features

#### Security

- HW & SW advanced security features

#### Software

- True multiple-applications environment
- File system management
- Programming languages C & C++