

CALYPSO – the eTicketing standard

**World leader in microprocessor smart cards
for transport and Multi application**

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Head of Promotion of Calypso Networks Association

CALYPSO NETWORKS ASSOCIATION is not a supplier

Established in Brussels as a non profit association by the stakeholders of a European research program,

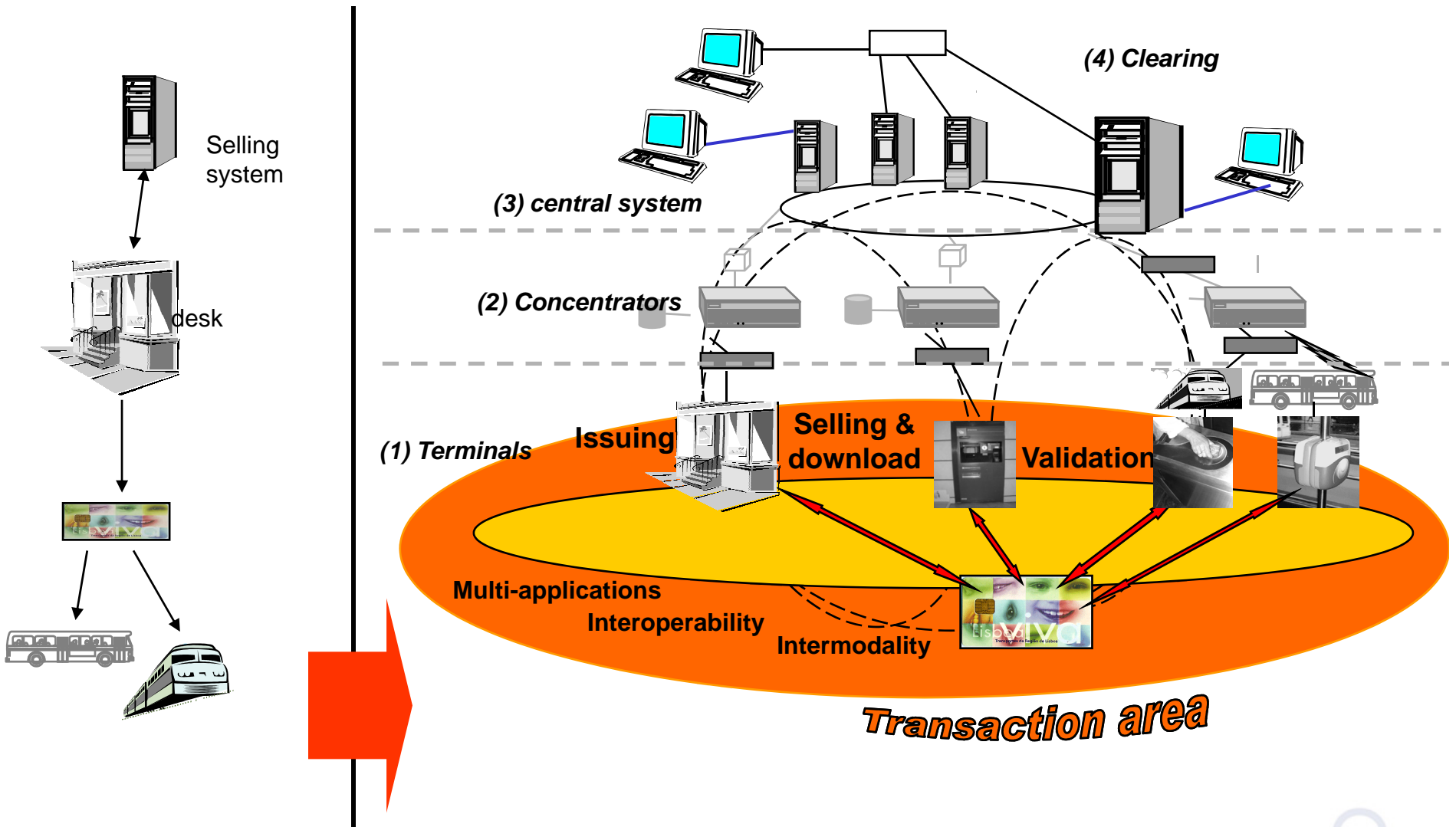
Founded by public transport business,
& open to other businesses and to suppliers

Objective is to maintain a set of specifications addressing transit business needs in the context of developing contactless **Multiapplication** systems.

Another ITS0 but also part of ITS0



Defining a new card interface



Calypso : Leading microprocessor cards in transport schemes around the world

Mainly in Europe

France, Belgium, Portugal, Italy, Greece, Switzerland Latvia...

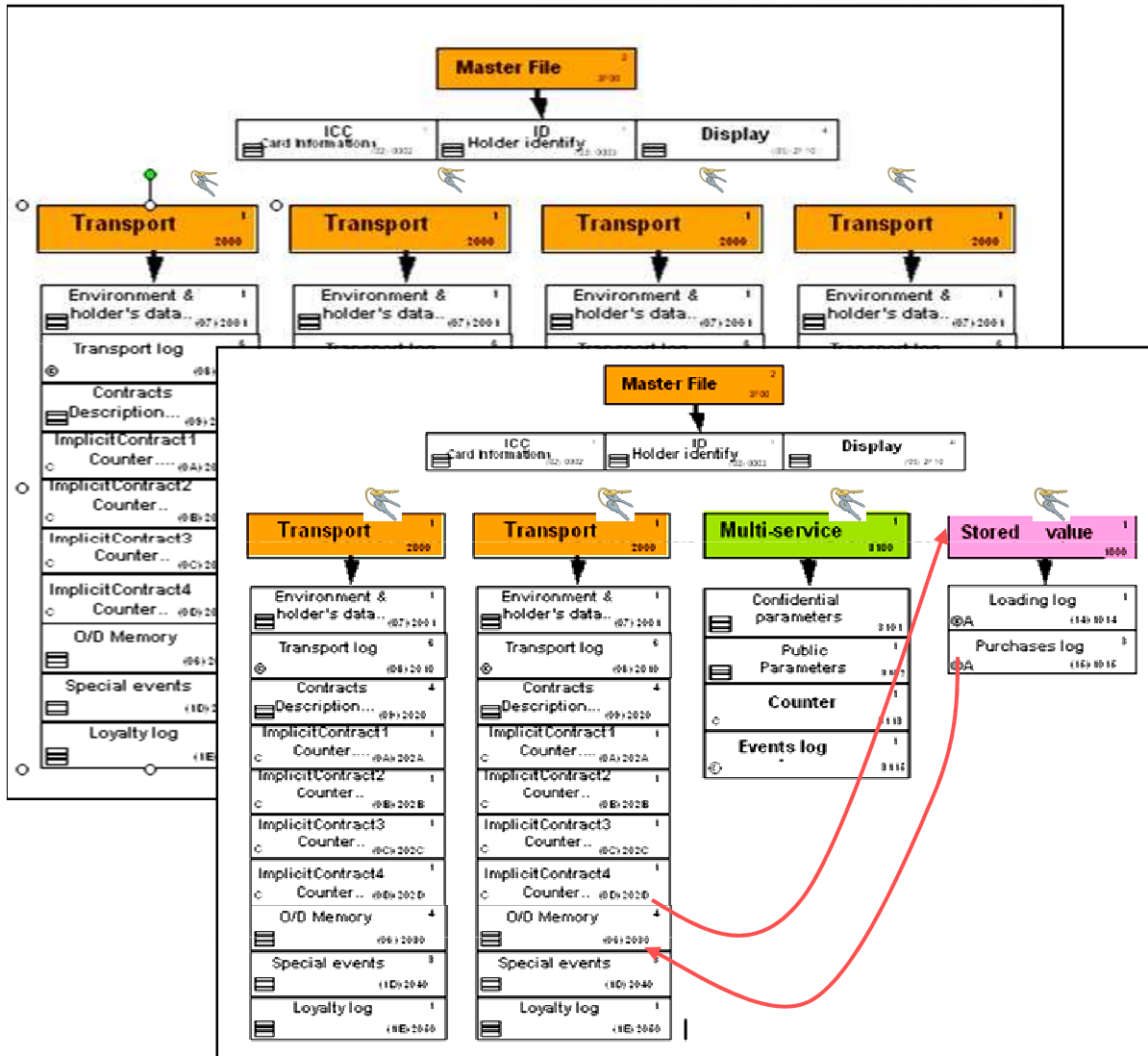
Compliant to the different national schemes (e.g.ITSO in UK)

Chosen for the national scheme in Portugal, Belgium, Israel

Chosen by transport operators in America (North&South) and Africa

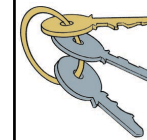


Multi-application



1 set of 3 keys per zone
(transport, multi-application...)
on multi-application cards
Ensures that zones on the card
remain “watertight”

Application-providers need not
worry about “their” data being
tampered with



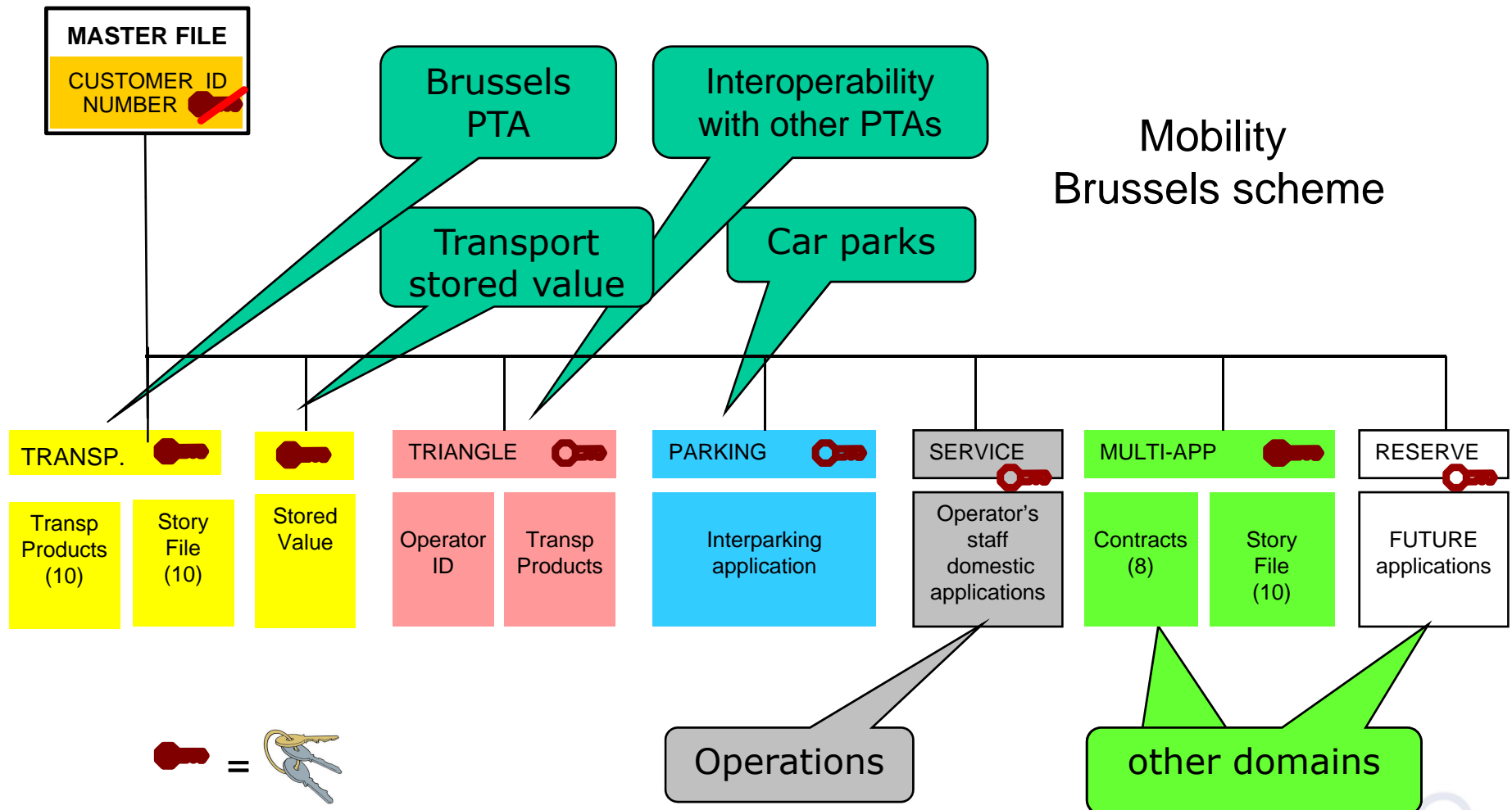
1 key for:
each function / zone/ card

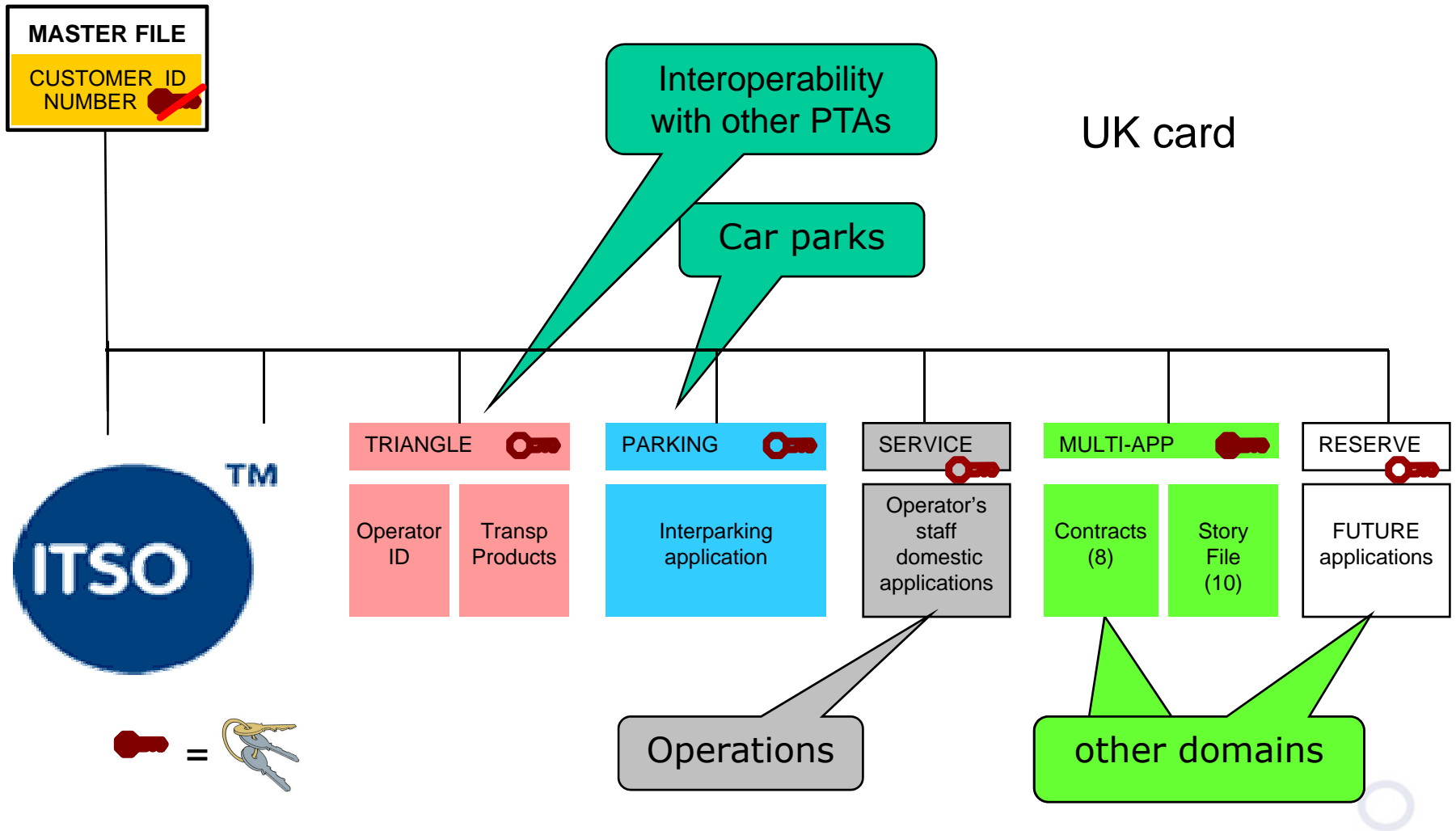
3 functions: Issuing card
loading contracts
debit contracts



Ideal for multi-application schemes

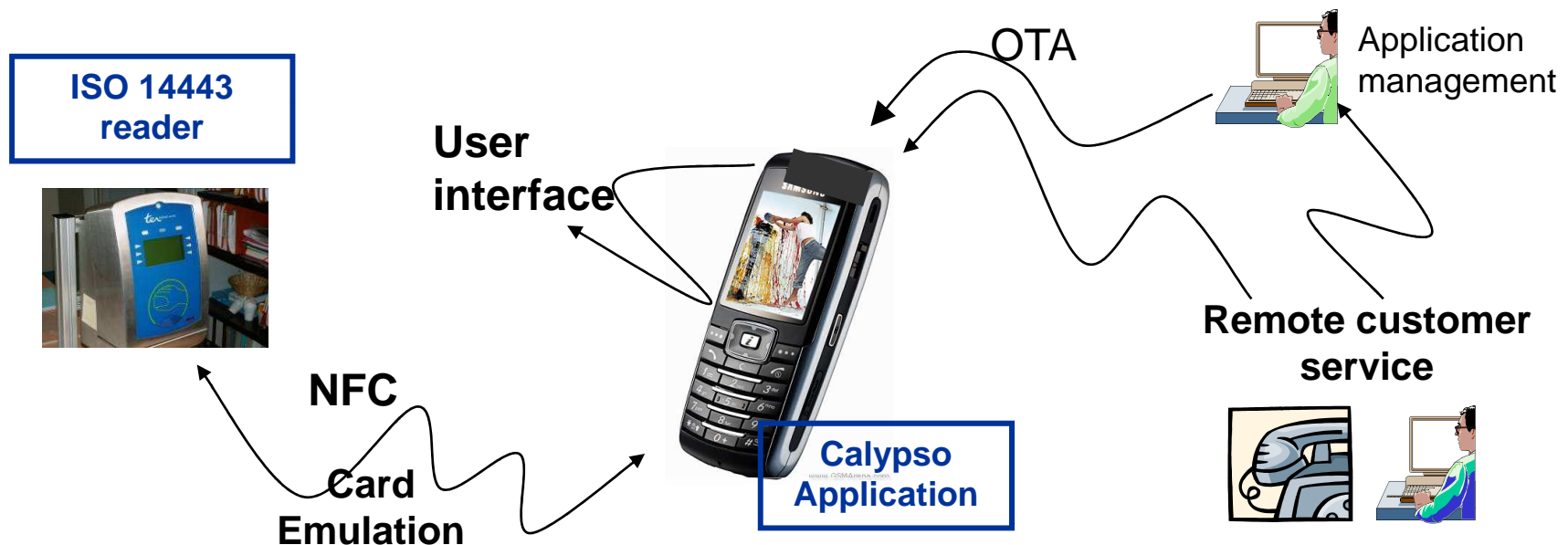
Mobility Brussels scheme





Calypso cards incorporate the Global Platform GP™ API environment

>>> Provides a simple upgrade path to other media without the addition of any proprietary software

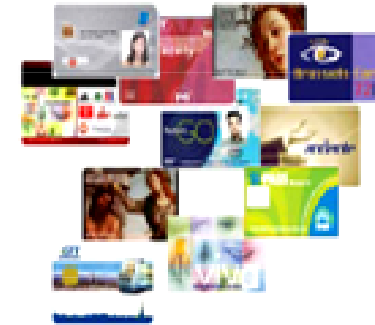


World leader in microprocessor smart cards for transport



Open source technology:

- Open to all industrialists
- Widely provided by many
- first step to avoid industrial monopoly



Fully ISO compatible

- Contactless ISO 14 443 (1- 4) type A&B
- Contact ISO 7816 3 / 4 for commands & file structures



ENV1545 & ITS0 compliant / intercode



Future proof & ready for:

- Local & OTA post issuance application
- Moving to multi applications Platforms GP™



All Calypso portable objects compatible

- From the 1€ µproc Card to SIM Mobile GP™ Applet



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