CIPURSE Mobile Guideline V1.0

Jörg Suchy
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CIPURSE™ Key Benefits for Mobile Applications

- Especially designed for contactless card and NFC-based fare collection systems

- Vendor-independent (all card suppliers can support CIPURSE)

- Technology providers free to add functionality outside the common core (multi-application support)

- All CIPURSE products undergo rigorous certification testing by third-party organization (Keolabs)

- Incorporates advanced security (AES)

- Reader independent: Any compliant ISO14443 reader can be used

Jörg Suchy – Chairperson CIPURSE Mobile Working Group

Dienstag, 28. Mai 13

CIPURSE is based on Standards

CIPURSE is build upon existing, proven and open standards

- ISO 24014: Interoperable fare management system
- ISO 7816: Smartcards
- ISO 14443: Contactless Communication
- AES 128: FIPS encryption standard

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CIPURSE V2 Tickets and Form Factors

One specification - CIPURSE V2 supports all kind of industrial Form Factors of contactless cards and NFC based products as well as ticket types in the same AFC System

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CIPURSE V2 Facilitates a Multi-Application Universe

Fare Collection System

Loyalty Program

Open Payments App

SMARTCARD
1234 5678 4476 5432
CARDHOLDER

CIPURSE Compliant Card

Door Access System

Health Insurance App

Customer ID App

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CIPURSE Mobile at a Glance

Java Card 2.1 or higher and GP 2.2 based CIPURSE Applet

Over-the-Air & Over-the-Internet Support

- Application download
- In field application activation and de-activation
- Lifecycle management

Designed for multi-application support

- CIPURSE, Payment, Access, Couponing, Loyalty and others on one Secure Element

Form Factor independent

- Support for all kinds of form factors now and in the future

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CIPURSE™ Mobile

Fast and convenient solution to introduce NFC Ticketing

- No CIPURSE Transport system upgrade needed
- No new specification needed (CIPURSE Mobile based on CIPURSE V2)
- Implementation to existing and new NFC Phones via OTA/OTI services
- No need for withdrawal of CIPURSE products from the field to introduce new services

Made to meet customer requests

- CIPURSE Mobile & CIPURSE V2 support all kind of ticket types and form factors to meet various market and customer requirements
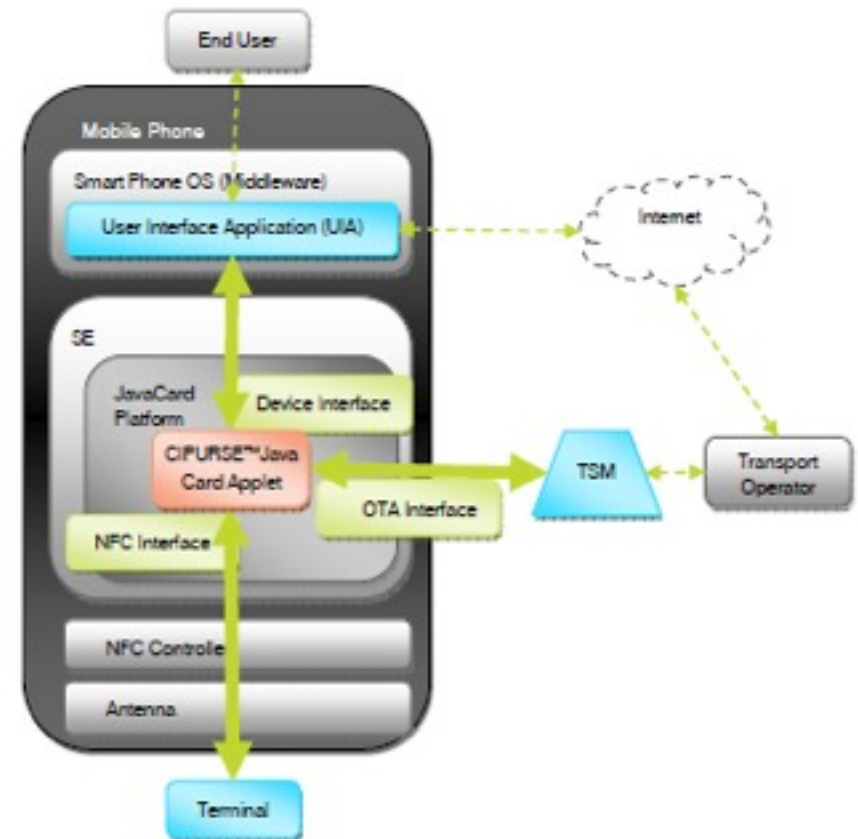
Added Value Services Support to be part of CIPURSE Mobile

- CIPURSE Mobile for Couponing
- CIPURSE Mobile for Access Control
- CIPURSE Mobile for Loyalty

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CIPURSE™ Mobile – Ecosystem and Devices
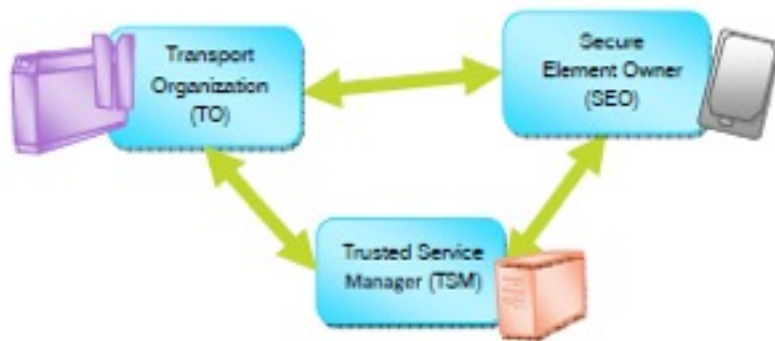
Existing Business Model

Secure Element Independent

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CIPURSE Ticketing & VAS Solution

Live demo during MWC 2013

CIPURSE Mobile is LIVE!
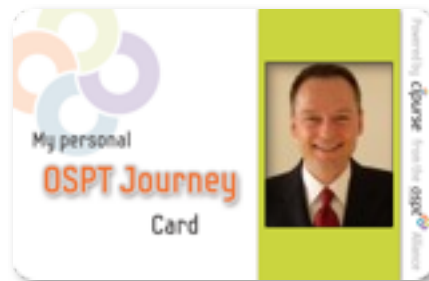
& = Future of Ticketing

We are ready for the Market!

Jörg Suchy – Chairperson CIPURSE Mobile Working Group

CIPURSE Mobile Guidelines ready for download at

www.osptalliance.org

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CIPURSE Market Outlook

"We expect to see CIPURSE deployments start in Europe and then follow in other regions as more cities see the benefit in smarter transportation systems. A broader and more flexible product range will help it to develop like MIFARE."

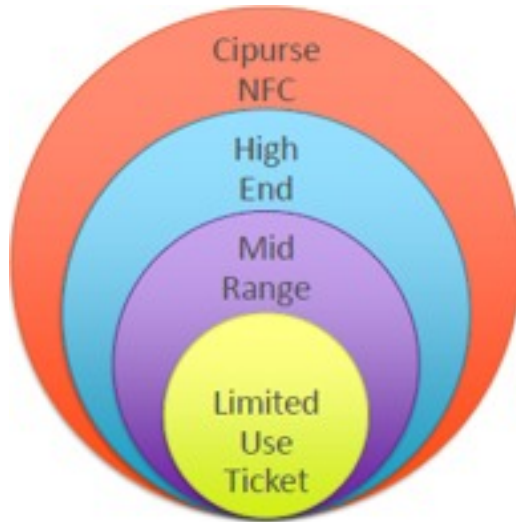*-John Devlin, Group Director, ABI Research 2012*

Join us on:

Thank you

For more information about CIPURSE™, please visit:
www.osptalliance.org

CIPURSE V2 vs. Other Solutions

- CIPURSE products are scalable

- All specification levels use same memory structure, command set, crypto algorithm and protocol

- Only CIPURSE guarantees coexistence of different specification levels (ticket types) running in one transportation ecosystem without changes

- CIPURSE allows switching between specification levels (ticket types) and form factors in the transportation ecosystem
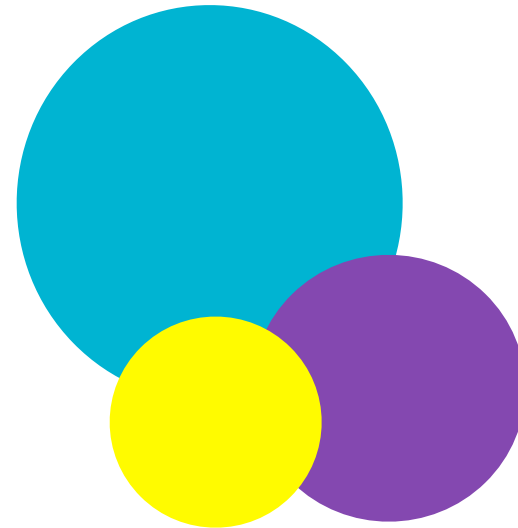
- Solutions are NOT scalable

- Product levels have different memory structures

- Different communication standards are used (e.g ISO 14443-3 and ISO 14443-4)

- Security algorithms and command sets are different in troughout the product levels

- It is not possible to use different product levels in the same transportation ecosystem without Software and/or Hardware changes. Expensive system changes are needed

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