Calypso® PRIME

from Calypso Networks Association

Designed for transportation and multi-application, ready for multi-service and mobile.

The most advanced card in the Calypso range. Flexible ticketing across a wide range of applications and platforms, adapted to smartphones and designed for interoperability. Based on open standards created *by* the transport community, *for* the transport community.

Calypso Prime, Calypso Light and Calypso Basic are all compliant with international standards, independently certified, and designed to share the same data model while keeping a low footprint in the terminal's software to manage ticketing transactions.

KEY BENEFITS

- ⊘ High security and fast contactless transactions
- ⊘ Reusable and reloadable cards for more sustainable ticketing
- ⊘ Strictly compliant to all standards
- ⊘ Full, independent, end-to-end certification
- ⊘ Fixed file structure for a smooth integration into existing Calypso schemes
- ⊘ Available from multiple suppliers
- ⊘ Cross network and cross-border interoperability
- ⊘ Perfectly adapted to ABT schemes, with highly secure authentication
- ⊘ Supports a wide range of platforms and environments, including multi-application and mobile
- ⊘ Applet available for mobile and bank cards
- ⊘ Multiple contracts for multiple use

USE CASES

With more than 16 contracts available, Calypso Prime enables access for multiple applications in (not into) the same card and is GDPR compliant.

Use Calypso Prime to simultaneously:

- Build an affordable contactless ticketing system for public transport
- Offer every possible tariff and fare, including Pay-as-you-Go (PAYG), shared or specific wallets, subscriptions and more.
- Benefit from interoperability between different networks/transport types, enabled by Hoplink
- Ensure payment for Mobility-as-a-Service (MaaS) and seamless end-to-end trips
- Connect with a citizen card, combining transport ticketing with access control to different city or state services

TECHNICAL DETAILS

- ISO/IEC 14443 and CEN/TS 16794
- ISO/IEC 7816-4
- Calypso Secure Session with Triple DES or AES hierarchical keys
- Version available with asymmetric cryptography
- Common criteria EL4+ hardware platform
- Counters, cyclic log of events and other applicative data
- File structure free to define by the PTO/PTA according to their needs
- Tailored for any data model (e.g., EN 1545 transport data structures)
- File sharing between distinct applications

Calypso Prime also exists in Applet form for the JavaCard platform, used to support mobile ticketing and bank card payments

hoplink®

Calypso Prime enables Hoplink, the solution for interoperability between different networks that do not have common schemas.