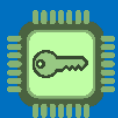# QLAP ©

Calypso™ Light Application
FOR CALYPSO TRANSPORTATION SYSTEMS

QLAP is a Calypso™ smart ticket IC

Made for anonymous, fast and secure contactless transactions

Highly Secure & Anonymous

Easy-to-integrate & Interoperable

Cost Effective

Fast Transaction

Support at every stages

Calypso Light APplication (CLAP) is an intermediate Calypso product allowing to supply ticket in high volume, at low cost and without compromising system security.

Made for answering occasional and anonymous transport demand, QLAP micro-controller in smart ticket permits to avoid registration while maintaining a high level of security. QLAP is interoperable and can easily be integrated with existing Calypso systems.

Ported on CC EAL 5+ high certified Integrated Circuit (IC), QLAP provides the last brick for Public Transport Operator willing to offer, aside annual subscription, a secure ticketing offer.

GENERAL FEATURES

Reusable and reloadable cards for a sustainable ticketing

An immediate answer to quickly address occasional users

Smooth integration into existing Calypso schemes

High security and fast contactless transactions

Perfectly adapted to ABT schemes

Strictly compliant to all standards

Highly secure authentication

Source: Calypso CNA 2018

GENERAL FEATURES

➢	DATA STRUCTURE	ISO/IEC 7816-4
➢	FILE STRUCTURE	31h and 32h
➢	SECURE SESSION	Tripe DES hierarchical keys
➢	INTEGRATED CIRCUIT	CC EAL 5+ high certified
➢	COMMUNICATION	ISO/IEC 14443-A/-B | T=CL
➢	INTEROPERABILITY	-A/-B dynamic switch

PACKAGING

➢	WAFER	SAWN WAFER
➢	MODULE	240 µm 350 µm
➢	PRELAMINATE	PVC PET PC

Qilium Smartcard Technology