

The background of the entire page is a night photograph of a rooftop terrace. The terrace is furnished with lounge chairs, sofas, and potted plants, and is lit with warm, ambient lighting. In the background, the calm sea reflects the lights of the distant city and the silhouettes of mountains under a dark, starry sky.

OPEN SESSION

Cannes, 2018

CALYPSO AWARDS

2018

Calypso

Networks Association

A word from the President

Dear Guests,

I am delighted to welcome you to our traditional Calypso Open Session and this 6th Edition of the Calypso Awards ceremony.

In 2018, Calypso Networks Association has welcomed 27 new members, reaching the number of 97. This interest in CNA from transport operators, authorities, consultants and providers confirms the trend observed last year. The development of Calypso is being held accordingly to the program defined in 2017, leading Calypso to be the reference of a true open ticketing, based on open source solutions and suited to new ticketing uses such as Mobile Ticketing, Account Based Ticketing, etc. This strategy of CNA, and its unique positioning as a platform of exchanges between users and providers, is widely responsible for the present success of Calypso.

The Calypso Awards ceremony is a unique opportunity to encourage R&D projects, and also to reward those who work hard to create new ticketing solutions and products which improve travelers' experience. This year, the candidates were very numerous, with very promising innovations, and the selected projects reveal the diversity of ticketing solutions imagined by providers and operators: mobile ticketing, multiservice applications, new cards for occasional usage, new and more efficient readers, new sales and personalization services, etc. The imagination of CNA members to propose new services and innovations demonstrates that the Calypso is in line with new mobility and ticketing challenges.

I warmly thank all the candidates for the quality of their proposals, the jury for his involvement and, of course, all of you for your loyalty to our annual event. I wish you a very pleasant evening here in Cannes.

Philippe Vappereau
Calypso Networks Association chairman



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CALYPSO AWARDS CHALLENGE

AFTER A SUCCESSFUL PARTICIPATION AND A GREAT CEREMONY IN 2017, THE « CALYPSO AWARDS » WILL CONTINUE THIS YEAR.

CNA rewards the actors of the market who contributed to the promotion and development of Calypso.

Prizes will be awarded for two categories:

THE BEST CUSTOMER VALUE

For promoters and users of Calypso: local authorities, transport operators, associations, etc.

THE BEST INNOVATION

For industrial, service providers, integrators, etc. This award covers hardware, software or services.

The Awards are open to all stakeholders, both public or private, individuals and organisations, involved in a project using the Calypso technology and not necessarily limited to the public transport sector.

THE JURY

Philippe Vappereau, Chairman of CNA

Ilona Zaiceva, Project Manager at Rigaskarte

Haki Benita from PCentra, Winner of the Calypso Awards 2017

Eric Bürgsthaler, technical expert at SNCF

Claudio Giacobbe, Project Manager at 5T, Services & innovation for mobility

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BEST CUSTOMMER VALUE NOMINEES



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BEST CUSTOMMER VALUE - NOMINEE

MUVER

PROJECT DESCRIPTION: The project allows for the first time a regional ticketing interoperability using mobile phones in Italy entirely based on the Calypso standard.

Interoperability across the region currently includes four public transport operators, which have agreed to develop the mTicketing solution together to offer the best and smoothest user experience possible. The solution is based on the innovative NFC technology, allowing mobile phones to act as contactless cards. It is secured by the Calypso HCE open standard for ticketing, making it one of the best solutions available today.

BENEFITS FOR END USERS: Easier understanding and management of the complex regional fare offer, paying the best price (on the spot, monthly, yearly). It enables combining various modes of transport. Go green: it always encourages the use of public transport. In the future, it will reward you for greener travelling. The app enables users to smoothly and securely manage their transport consumption, reload & validate their transport cards fitting the requirements of the Calypso standard. Its deployment significantly eases account consultation, reloading and validating for residents and tourists. It improves the brand image of the public transport, and reduces the number of TVMs and exit validators. It reduces the number of cards and their simplifies their management. It is compatible with existing equipment. No changes are required in the application software management of the ticketing data.

PROJECT WEBSITE: www.tper.it/muver

TPER

Bologna / Italy

Mirco Armandi, IT manager

mirco.armandi@tper.it

BEST CUSTOMMER VALUE – NOMINEE

VIVA KIOSK

PROJECT DESCRIPTION: VIVA Kiosk, launched in September 2018, allows users to request and receive, in 1 minute, a Calypso smart-card for use in Lisbon Public Transports.

The challenge for OTLIS was to design a user-friendly passenger-operated service that required no training and addressed a broad target of customers. Operators were struggling with the rising demand from customers for the delivery of the cards in less than 24 hours. An equipment was thus devised to issue and reload a CALYPSO card within 1 minute, based on the CNA Remote loading specification, and adapted to remote issuing, using the Calypso keys stored in an HSM. The client can provide the information by inserting the national ID card. If the client is known to the system, he/she may opt to use his/her current data instead. The VIVA Kiosk can if required take a new photograph of the customer. Clients can also reload their Calypso smartcard and smart tickets like CTS or SRT/ST25 at the Kiosk.

BENEFITS FOR END USERS: The introduction of the kiosk translates in the reduction of queuing, shortening issuing time to below 1 minute, doing away with the need to provide pictures and filling out forms, paying with contact or contactless bank cards. It also complements the existing system for reloading Calypso smartcard. For operators, it means being able to cope with the high demand for urgent cards, providing the service in more busy places, reducing time-consuming for both clients and operators and environmentally unfriendly paperwork and making staff available for higher-value missions.

PROJECT WEBSITE : <https://ravkavonline.co.il>

OTLIS

Lisboa / Portugal

Filipa Studer, Marketing, Communication & Project Manager

filipa.studer@otlis.pt

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BEST CUSTOMMER VALUE – NOMINEE

CALYPSO MOBILE TICKETING FOR PARIS REGION

PROJECT DESCRIPTION: Calypso mobile ticketing is about to be rolled out on the whole public transport network of Ile-de-France (Paris Region). The experimentation started in July 2018 and the planned commercial launch will take place in 2019.

50 000 people are involved today in the experimentation and millions are expected to use the live service from 2019.

The key Innovation is the introduction of a fully Calypso-compliant NFC ticketing solution compatible with the existing equipment comprising over 50 000 validators and gates. This will arguably be the largest Calypso mobile ticketing solution to date, based on all the possible implementations of Calypso in a mobile phone: SIM, embedded Secure Element, HCE.

BENEFITS FOR END USERS: For end-users, this will mean full ticketing dematerialization, and a digital experience for subscribing to the service and buying tickets. NFC smartphones will be used for tap-in and out.

BENEFITS FOR OPERATORS: For operators, this will mean better service and reducing the number of cards issued.

PROJECT WEBSITE: www.iledefrance-mobilites.fr/actualites/participez-a-lexperimentation-navigo-lab/

ÎLE DE FRANCE MOBILITÉS

Paris Region / France

Benoit BOUTE, Marketing and Ticketing Director

contact@iledefrance-mobilites.fr

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BEST INNOVATION NOMINEES



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BEST INNOVATION NOMINEE

FX900 VALIDATOR

PROJECT DESCRIPTION: The FX900 is the first validator which includes the open source Keyple SDK developed to enable many new Calypso applications in many sectors.

By 2020, nearly 23 billion transport tickets will be purchased via mobile handsets, according to Juniper Research. The strategic partnership between FAMOCO and Keolis thus focuses on the development of a new generation of ticket validators. The FX900 validator was in pilot phase on the Keolis Orléans public transport network in September 2017. Deployment is being rolled out from September to November on 210 buses. The roadmap includes an upgrade in June 2019 with the EMV module. The FX900 validator is Calypso compliant using Keyple, the open source SDK hosted on the ECLIPSE platform. Keyple SDK integration enables installing Calypso compliant applications without additional developments and costs. The benefit for passengers is to be able to purchase and validate tickets using their phones via NFC or as a backup of QR Code if the phone does not support NFC.

KEY INNOVATION: The Operating System integrates for the first time in a validator the Keyple SDK to provide Calypso services. The validator is based on a modular software, mechanical, electronic and hardware approach, which allows us to integrate third-party SDKs, which makes it easy for our customers to deploy their business application. The mechanical approach allows removing some parts of the device and replacing them as needed.

PROJECT WEBSITE: www.famoco.com

FAMOCO

Paris / France

Amaia Deweerdt, Head of Smart City Business Unit

amaia.deweerdt@famoco.com

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BEST INNOVATION NOMINEE

SOMA ATLAS CLAP OPERATING SYSTEM

PROJECT DESCRIPTION: Soma Atlas CLAP Operating System from HID Global is the first certified implementation of the CLAP specification. Combining a vast experience implementing CALYPSO 3.1 with the availability of Infineon SLE77 platform ISO 14443 type A & B has pushed HID Global to invest in a brand new CLAP product. The smallest processor of the Infineon SLE77 family has the right geometrical characteristics to make the first chip on-paper based on CLAP. This first CLAP card should help Calypso to strengthen its global market presence and make it a compelling alternative to low-end memory tickets and to Mifare family products. It is as secure as a full Calypso product. CLAP is the best solution possible to deal with occasional users and to be used in any ABT system. HID Global's CLAP paper-based package can compete with the traditional memories offering much more security features.

KEY INNOVATION: For the first time stakeholders are not forced to choose between going for a highly secure yet expensive product and adopting a cheap solution with low or no security at all. With CLAP, HID Global has combined these two characteristics, delivering a highly secure product at a very reasonable price for the first time in history.

From the technical point of view this has been achieved by means of:

- Reducing the set of commands compatible with Calypso 3.1
- keeping the same security level as full Calypso products but with TDES keys

PROJECT WEBSITE: www.hidglobal.com/press-releases/hid-global-improves-automated-fare-collection-public-transportation-worlds-first

HID GLOBAL

Arzano / Italy

Cristiano Pardo, Ticketing & Transportation CTO

cristiano.pardo@hidglobal.com

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BEST INNOVATION NOMINEE

ELIPSE CALYPSO

PROJECT DESCRIPTION: ELIPSE Calypso by SELP is the second certified CLAP product with the unique characteristic to be based on a full ISO 14443 type A technology, the NXP E201382 EMBRACE component.

SELP had tried to enter the Calypso market through integrating components available in the market in its cards. This allowed to take stock of limited competition and high prices. This is why SELP became interested in the CLAP initiative aiming at creating a cost-effective Calypso product. SELP took part in latest steps of specification, and decided to start designing its own product. Considering market trends, and products available on the market it was decided to differentiate in the long run by implementing the product on a Type A component, which makes it ideal for networks currently running on Type A infrastructure and that envisage implementing Calypso. The Elipse solution combines low prices with a high level of security.

In a nutshell, ELIPSE Calypso is the second certified CLAP product and with it we open Type A networks to Calypso solutions.

KEY INNOVATION:

- 1- ELIPSE Calypso is an ISO 14443 Type A technology dedicated product
- 2- ELIPSE Calypso follows CNA personalisation scheme for Portable Objects according to "090128-ApplicationDownload-11.pdf"

SELP

Paris / France

Salim Hamdoune, CIO

s.hamdoune@selp.fr

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PREVIOUS CALYPSO AWARDS

2017 Winner

RAVKAONLINE by P-Centra

Ravkavonline allows public transportation passengers to top up their smart card and profit from a full set of services, using a mobile app, a website or in one of the 3000 ATM machines across Israel.

Nominees:

Hoplink first implementation by **Parkeon**

Smartwatch Calypso HCE solution by **Poste Mobile**

2016 Winners

OPUS pour BIXI by STM & NFC Mobile Ticketing by Wizway Solutions

Nominees: Palmari Marinai by **ACTV** & Sharkey Wristband by **Watchdata**
Calypso Pay-as-you-go by **SIBS** & Pass Pass Easy Card by **Keolis Lille**

2015 Winners

KorriGo by Rennes Metropole & Celego Calypso G1 by Gemalto

Nominees: OPUS en ligne by **STM** & PCard+ by **Interparking**
AMG by **ADCET**, Calypso HCE App by **Spirtech** & HCE Mobipass by **ASK**

2014 Winners

U'Go by CTS & VIVA Parking & VIVA Portal by CAR4BSYSTEMS S.A

Nominees: Titolo Integrato Campania by **Card Project Srl**
TER NFC Basse Normandie by **Lower Normandy Region**
RAV-KAV App by **Mosko.mobi**
Android Mobile App for Calypso Lifecycle Management by **PosteMobile**

2013 Winners

Morpho & Rigaskarte

Nominees: Watchdata, SIA, 5T

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SUPPORTING PARTNERS



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