The WITCard Journey 1999 - 2014

The Transition of a Home Grown Campus Card System to The European Education Connectivity Solution



Presentation Overview

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- Background to the WITCard
- EECS Project & the New WITCard System
- WITCard Applications & Services
- Benefits of a Cashless System
- The Future



The Background to the WITCard

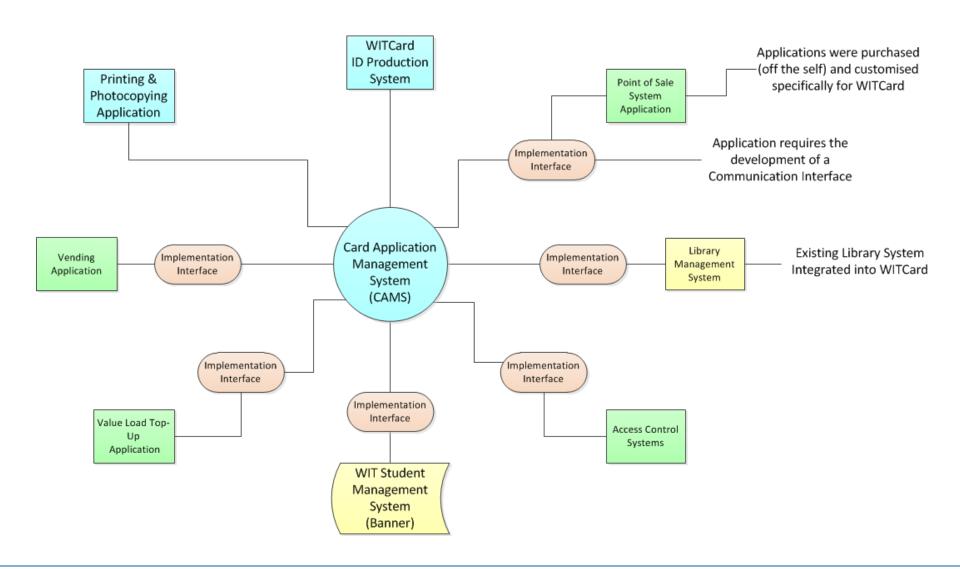
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- WITCard Research Programme 1996 1999
 - US and Mondex System in UK
- System Design and Build
- Installation Sept. 1999
 - Phased Installation (based on priority/demand of applications and services)
- Jan. 2012 Installation of the new EECS System (European Campus eID)
 - WIT Pilot test site for this new system
 - 14 Applications currently in use on the WITCard



Origional WITCard System 1999 - 2012





European Campus Card Association & EECS Project

- ➤ European Campus Card Association (ECCA) Established 2002
- ECCA Main Aims & Objectives
- Develop & Promote Standards (EECS Project)
- Mobility of Students (EECS Project)
- Establish a business case for card systems
- Forum for sharing of knowledge and information

The EECS Project

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- ➤ Purpose Achieve Interoperability, Mobility, Standards
- EU Funded Project (€1.5 million)
- ➤ Timeframe 2 year project (June 2009 to May 2011)
- ➤ Consortium SME's & RTD's
- Market Survey & Standards Experts Workshop
- ➤ Testing & Trial Process
- Result Prototype System Design CAMS/CAI/SCM
- ➤ Prototype Installed in WIT in 2012

The EECS Project – Aim & Objective



Develop Prototype for Card Management System

Three Core Modules

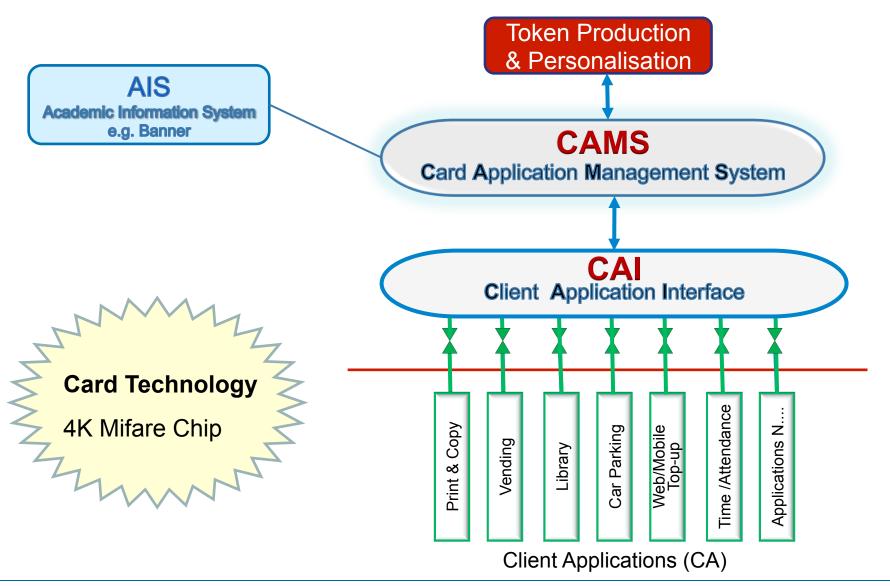
- Card Application Management System (CAMS)
- Client Application Interface (CAI)
- Student Connectivity System (SCS)

Key Objectives

- Facilitate Interoperability
- Develop Standards for Card Systems
- Mobility (key requirement of EU)
- Security & Access to on-campus facilities
- Assist with cashless campus

The New WITCard System – (EECS Project)





WITCard - Applications & Services



CLIENT APPLICATIONS/SERVICES

Library Access and Eligibility ATM Top-Up

E-Purse (Tap & Go E-payments) Campus Sports Facilities

Self Service Beverages (Hot Snacks)

Loyalty Programmes

Vending Student Discounts/Concessions

Time and Attendance (Student & Staff) Student Authentication (NFC)

Car Parking Wireless & Cloud Printing

Mobile Phone Top-Up Access control

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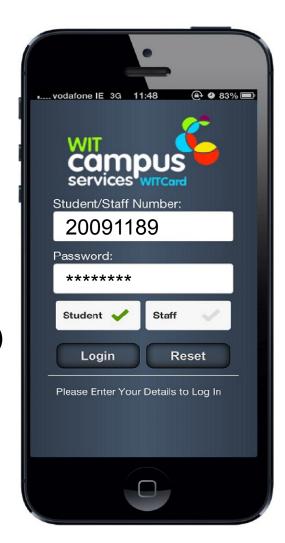
HIGH LEVEL SECURE AUTHENTICATION

- Counterfeit issues eliminated
- ➤ Secure Authentication of the user examinations
- ➤ Student Concessions -sporting events, travel
- ➤ Mobile user status confirmation



Mobile Phone Top-Up App

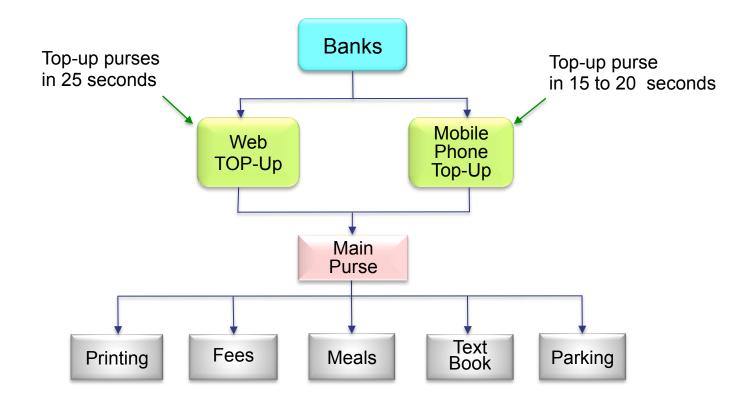
- **Smart Phone App**
- Secure real-time access 24/7
- ✓ User Friendly
- √ FAST Real-time top-up (15 to 20 Sec)
- ✓ Transparency/ visibility



Login Screen



Home Screen



WIT 80% Cashless – the Main Benefits

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- (i) Queuing time Reduction Less POS required.
- (ii) POS's operate much faster than Cash tills.
- (iii) Cash handling costs eliminated No cash floats, balancing or reconciliation.
- (iv) Greater security, Lower Insurance costs and Risk reduction.
- (v) High level accountability and management information.
- (vi) Use of Counterfeit money eliminated.
- (vii) Reduction in the audit time of the daily sales.
- (viii) Increased level of hygiene.



Issues/Cost of Handling Cash



Security:

Exposed cash and long operating hours can increase the risk of robberies. Cashless POS make their operators feel more secure at their wok place.

Cash Handling Costs:

Cost saving in cash handling and administration is essential to achieving maximum profitability and competitiveness.

Shrinkage:

Shrinkage due to theft, internal error and cash counting discrepancies effects the turnover of the operation

Staff Training:

Operations can have high staff turnover, the training required for cash POS system is much higher than that required for a cashless POS.

Survey/Research into Cash v Cashless



Survey/Research was carried out at Waterford Institute of Technology in March 14

Findings:

Continuous queue payments at the POS

- Cashless the average time taken to complete the transaction = 11.01 sec.
- Cash the average time taken to complete the transaction = 19.00 sec.
- Cashless throughput at the POS is 72.57% greater that Cash.
- 4 Cashless POS will provide a similar throughput to 7 Cash POS.

http://youtu.be/GN5qmeObZo8

WITCard System - Core Benefits to WIT



- One Card for all access to services and facilities on Campus
- > Secure ID & Authentication of Student & Staff
- Tap & Go e-payments delivering efficiency, security & accountability
- Improved level of Student Services (Commercial & Non-commercial)
- Wireless & Cloud Printing important revenue generator
- > Facilitates a range of self service operations
- Keyless and Cashless Campus



The Future

- Marin Marin
- Use of Multi Token no dependence on a particular technology
- Mobile Phone E-purse top-up
- E Payments & Multiple Purses
- Debit & Credit Card Payments
- Secure ID Authentication
- Campus Card v Mobile Phone
- Future Proofing against Technology Changes



Henry Marse Marse

- Join us if you have or plan to have a card system!
- Information, best practice, study visits, exchange of ideas with colleagues

Information Available on www.ecca.eu

Questions



