



UWIC | University of Wales Institute, Cardiff

Fully Featured Cashless Enterprise for Multi-functional Smart Cards Launched by Magna Carta at UWIC Campus

An integrated, partner-based smart solution for a brand new campus multi-application smart card system for the University of Wales Institute, Cardiff (UWIC), has reinforced Magna Carta's growing reputation in the UK's higher education industry as a provider of total smart solutions.

The successful scheme is the result of a complete review of the university's systems and individual card schemes, as well as a full assessment of UWIC's specific requirements for a state of the art system.

"We are proud to have been instrumental in establishing a centre of excellence at the university, in terms of an on-campus smart card scheme which encompasses all application needs," says Tom de Regt General Manager of Magna Carta, based in Amsterdam, now with offices in both The UK and Ireland.

Not only does the scheme meet all UWIC's technological requirements, it also addresses earlier issues related to stand-alone and fragmented infrastructures and cards across different departments. In addition it underpins the university's commitment to a secure, efficient and dynamic environment for its students and staff, allowing room for

future development and expansion into new and additional applications

Utilising the EU 'Competitive Dialogue' procurement procedure UWIC went out to the market place looking for the best supplier/solution mix that would meet its immediate needs, and work alongside them to deliver future applications and gain best value from the investment."

"UWIC selected Magna Carta as their proposal seamlessly brought together 3 leading companies as an integrated solution which met all the requirements," says Mark Barry, Facilities Manager from UWIC. "Magna Carta led the bid, project managed the proposal and illustrated they were well placed to deliver"

"Not only this, Magna Carta, the company and the people impressed with their approach and response at all stages of the process giving UWIC a firm confidence that it could work extremely well together with them," he added.

The Requirement: Single issuance of 16 000 Cards

The University of Wales Institute, Cardiff (UWIC) operates four primary campuses and

one residential site within the city of Cardiff, and has in excess of 11000 students and 2000 staff, with the focus being upon professional and vocational higher education and research.

The University required a full upgrade of its existing smart card-based core systems, providing networked access control and cashless functions via a single card to all staff, students and a number of external users and administered via a central team through localised card production. Although card production for both staff and students is an ongoing process throughout the academic year, the student enrolment process at the beginning of the academic year required the instant issuance of bulk numbers of cards within a one week period.

UWIC's main objective was to replace existing smart card, primary system and third party system interfaces across all sites with a single user card solution to rationalise and simplify the multiple system administration processes, suitable for a multi user application environment. The scheme needed to support a percentage of more than 95 percent of first time successful 'transactions', with a high standard of financial management and in particular make use of existing infrastructure where possible.



The Magna Carta Solution:

A fully scalable, flexible card system

Working with its partners, Magna Carta installed a fully integrated multi-application scheme which bridges a variety of applications from access control, cashless catering and vending and e-purse for student services to ID, enrolment and library usage. This has meant the delivery of a complete solution from blank cards at one end to a fully featured cashless enterprise with all its attendant elements for a true multi functional UWIC smart card with 10 purses (tokens).

Magna Carta is known for its success in the education sector, where there are clear advantages in using a powerful, multipurpose card. Managing the complete life cycle of the card and all the applications supported on it is Magna Carta's trademark. Its collaboration with its partners, EMOS Information Systems Ltd, Mechshop Limited, Salto and Casio was also pivotal to the successful implementation of the UWIC scheme.

Key to EMOS' ability to deliver cross campus solutions is its expertise in solution development and systems integration, which offers far more than most providers of 'off the shelf' solutions and completely integrates the solutions offered with UWIC's procedural and technical requirements.

Mechshop has a complete cashless service. In addition to supplying new equipment, spares and consumables, its offer includes consultancy, site survey, project management, installation, software set-up, photo-ID, card printing, programming, and issuing, staff training, maintenance, technical support and the production of audit reports.

Finally, Lock-Tech, the door hardware and access control division of Swansea Timber & Plywood Co Ltd, has forged a successful partnership with Salto, one of the most innovative access control manufactures in the World, with over 150,000 lock sets already installed worldwide this year and is key to the access control solution at UWIC.

The UWIC solution is built around students carrying a multi-application 4k Mifare smart card with magnetic stripe for legacy library systems, as one single card that can replace cash across a campus and additionally provide students and staff with access to a range of services and entitlements.



The Team

In essence the team approach has provided:

- A fully integrated access control solution from Salto, where a single print and encode solution was developed by Magna Carta, operating with card printers and personalisation software from the Datacard Group.
- A full access control system securing over 250 doors across four campuses with additional roll out planned for the university's halls of residence.
- A completely cashless payment implementation utilizing 19 QT6000 Touch Screen POS from Casio and an IPL (interface) developed by Casio and Magna Carta to connect their hardware into the cashless enterprise structure spread across locations in cafeterias, libraries, coffee shops and print centres.
- Eight card loading machines for e-purse top up installed across the university, with an additional guest card issuance and retrieval solution fully integrated at two of the locations to manage the regular visitor, contractor and assignment traffic on campus
- A web based card revaluation facility for all staff and student cards allowing funds to be loaded on cards remotely, via the internet, using a range of both debit and credit cards, The application called e-Homelink, operates with Worldpay to manage all the transaction authorisation between donor and card. Included is the development of an extra feature allowing parents to add funds remotely on cards, where those funds can only be used to purchase meals in the cafeteria.
- A fleet of Canon copiers, both colour and B/W connected to Magna Carta payment terminals with a fully configured selection of billing options against a variant of paper size and copy type.
- Fully integrated networked printing solution for students using Pharos and a campus wide disbursement of print release stations, all accepting the card as payment.
- 30 vending machines all equipped with Magna Carta payment terminals with incentives for all card users
- Fully automated food and hospitality packages for all participating students supported on the card and integrated with 9 new tills in food service locations across campus.



The Magna Carta approach offers universities and colleges a smartcard platform with the added advantage of a cashless e-purse and many other useful applications designed to save time and increase campus income.

At UWIC, the Magna Carta solution is flexible and dynamic and the new 4k Mifare cards with 10 token pockets produced for UWIC, have scalable features which can be customised for future developments such as pre-paid meals, staff discounts, cashless vending incentives, loyalty points as well as on campus car parking. In addition, time and attendance, bursary entitlement management as well as sports facility management and access can all be integrated into the scheme as it matures.



MAGNA CARTA CHIPCARD SOLUTIONS B.V.

Naritaweg 126

1043 CA | Amsterdam | The Netherlands

Tel.: +31 (0) 20 582 20 50 | Fax: +31 (0) 20 582 20 51

UK Office Tel.: +44 2892 62 24 25

Website: www.magna-carta.com | Email: info@magna-carta.com

