



ITSO wishes all its Members a very Merry Christmas and a prosperous 2006!

ITSO ends year on a high!

The end of 2005 brings with it some significant milestone achievements for ITSO;

- **Common Criteria Certification to level 4.5 high**
At long last we have the actual certificate from the French Government which validates the high level of security provided by the ISAM, (ITSO secure application module), which will sit in every Point of Service and back office. This level ensures the ISAM is fit for such products as E money – a fact also born out by a recent independent analysis of security provided by schemes carried out by Consult Hyperion for the DfT, in which ITSO came out top.
- **CSA delivered**
The Commissioning System for AMSs, the final link in the ITSO security environment, has now been delivered and schemes can now establish their AMS. Suppliers will be briefed on this at the suppliers meeting.
- **1st Operating Licence signed**
Cheshire CC have become the first scheme operator to take out an ITSO Operating Licence. Impressive demonstrations of their end to end scheme have taken place recently and included all their main suppliers.
- **NSCWP endorse ITSO.**
The software developed by the National Smartcard Working Party (sponsored by the ODPM) now contains modules to generate ITSO shells on cards and is to be certified by Integri. This is attracting a lot of attention in Local Authorities as it helps them achieve their e-gif requirements for Priority outcome G12.
- **Scheme Forecasts !!!!!**
The major schemes in Scotland, Merseytravel, GMPTE, Southampton, Wales, Nowcard and Notts CC which will be implemented or upgraded in 2006 are now forecasting over **3 million** ITSO based cards before the end of 2006.

ITSO International

As ITSO becomes established the remainder of the world appears to be attracted to its' scope and opportunities;

- **USA** – Attempts by the USA to have their TCIP specification as Part 2 of the CEN specifications (Data Architecture) have been dropped and they are seriously considering adopting sections of the ITSO specification and procedures
- **Finland** are sending a delegation for an in depth study of ITSO in December
- **Germany** – VDV are proposing further cooperation on security and certification
- Translink in **Holland** have visited to study ITSO's certification methods.
- **South Africa** – a current rail procurement requires full ITSO compliance and a bus operation procurement is pending
- **Uruguay** – appear to want to take ITSO lock, stock and barrel.

Southampton bus smart card scheme

The Southampton scheme builds on the successful SmartCities partnership of several years' standing between the City Council and the University that provides multi-application smart card services to the city and University communities respectively. One of these applications is a very popular and successful "legacy" smart card application on the buses of the Unilink service, which is a small fleet (18 vehicles) contracted from Minerva Accord by the University but offering its services on 4 routes also to the public. On this basis, the Southampton scheme is part of the DfT Legacy Group, the schemes in which are introducing ITSO services over the next few months.

The Southampton scheme comprises initially the introduction of the Council's concessionary fares service in ITSO format on the Unilink routes and the services of the two other main operators serving the city; First Hampshire and Dorset (125 buses) and Solent Blue Line (105 buses). In addition, these other two operators will be enabled to provide "legacy"-format commercial services specific to their own operations. Main suppliers to the scheme are: Wayfarer Transit Systems (all POSTs except PERSO, depot systems, and also SmarTrack for the legacy products); Unicard UK (CMS/PERSO POST for City Council cards and HOPS/AMS); Burrall Infosmart Ltd (PERSO POST for University cards and suppliers of

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ITSO MiFare 4k cards to the City Council and University); Universal Smart Cards Ltd (alternative suppliers of ITSO MiFare 4k cards to the City Council). Hampshire County Council maintains a watching brief in the project on behalf of the Solent Transport group, a multi-authority, multi-operator partnership concerned with the development of more integrated transport services and facilities in an area covering the two unitary authorities of Southampton and Portsmouth and the wider south Hampshire travel to work area.

There are two parallel initiatives (one by the City Council using Peek/Infocell and one by the County Council using SLE) to introduce Real-Time Passenger Transport Information systems on all of the services covered by the smart card scheme, also using the capabilities of the new Wayfarer TGX150 ETMs.

Future plans include the introduction of ITSO smart cards for: the Council's parking services (expressions of interest sought in the replacement of on-street ticket machines); the Council-operated Itchen Toll Bridge (previous smart card initiatives suspended pending ITSO developments); ferry services (initial discussions held with two operators); and potentially a roll-out of ITSO applications over the wider Solent Transport area. The presence of live non-transport applications within the SmartCities environment also offers the potential for piloting the expansion of ITSO into these areas.

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Cubic Supports the Launch of London's first ITSO Pilot Scheme

The end of October saw the completion of the development effort and subsequent launch of London's first ITSO pilot on October 31. Covering 88 buses operating across 4 London bus routes and with 3,500 ITSO cards, the trial will run until the end of March 2006. Significantly, the trial involves the integration of Oyster technology and ITSO capability in the same reader, and in the first week of the pilot, over 1,000 ITSO transactions were made on Cubic's readers.

Based on the Department for Transport's 2002 'Route Map', the strategy for delivering Oyster ITSO interoperability in London, this pilot is part of a series of work packages that will demonstrate the ability to operate ITSO capable Oyster equipment.

This pilot was devised by the Department for Transport (DfT) and implemented with the support of the Department for Education and Skills (DfES) and Transport for London. To prove the reality behind the objective of ITSO-Oyster interoperability, the DfT commissioned Cubic to operate a service that allows Connexions Card holders, with valid entitlements to travel, to use the London Bus pilot services. The ITSO-enabled Connexions Cards themselves are issued and managed by Capita on behalf of the DfES.

The development work for this particular pilot started in July 2005, and this is part of a wider programme of work that Cubic is undertaking for the DfT. Other activity covered the feasibility of adding an ITSO Product (Type 27 IPE) to an Oyster card, which was completed in June 2005, and also looks at the integration of Oyster and ITSO capability within an Oyster ticketing device in a test environment. This latter work is ongoing and is focusing on the integration of ITSO capability into a Cubic Automatic Ticket Gate.

The successful completion of this pilot will be the first step on the road to ITSO-Oyster interoperability. The key objectives of the pilot are to demonstrate that:

- the bus equipment can be successfully modified to read ITSO specification cards
- the Oyster equipment can be modified to incorporate an ITSO Secure Application Module (ISAM)
- this modified equipment will all operate successfully together, and continue to work in an operational bus environment
- the information available from an ITSO specification ticketing product can be extracted in the bus environment and made available for use.

An overarching principle in implementing the pilot has been to deploy the scheme with as little disturbance to the existing ticketing equipment as possible and without impacting on the overall Oyster system performance. As a result, the installation of updated card readers was phased over a week to allow the performance impact on the Oyster system to be monitored. This key principle was met, with Cubic successfully completing the integration without any need for changes to any other part of the Oyster system.

Whilst this pilot is not designed to achieve ITSO certification for the bus readers it is demonstrating that those devices, upgraded to support ITSO products, can be successfully installed and that the transactions created by those devices, in response to the proper presentation of an ITSO compliant card, are generated in an ITSO compliant format.

Cubic envisages that the Connexions Card pilot will be the first of several similar trials, proving for example different types of devices, on various modes of transport. Ultimately, Cubic expects that this, and other pilots, will be the pre-cursors to the rollout of ITSO compliant equipment across TfL's Oyster network.

Cubic is the world's largest specialist automatic fare collection system provider and works with EDS in the TranSys consortium that designed, developed and runs London's Oyster smart card and fare collection system. This system, a success story in its own right, has now provided the platform for one of the country's largest ITSO pilots.

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