



...simple, easy, quick, hassle free.

Approval No. A – 00013-1

ITSO POST Sub Assembly Approval

To: Unicard Limited

For: Unicard ITSO POST Terminal Application

This is to certify that the above Sub Assembly has been tested as required by ITSO for compliance against ITSO TS 1000-0 Specification Version: 2.1.1

Final Test Report Ref: UNI/CER_003/01 date: 25 September 2006 and subsequent review

This Sub Assembly supports the functions: low level software required to generate CMD encoding and ITSO Messaging data, including ISAM communication and communicates within an ITSO environment as listed in Schedule A of this Certificate.

Signed for and on behalf of ITSO : 

Title: COMPLIANCE MANAGER

Dated : 24 AUGUST 2007

Certificate Valid until : 23 AUGUST 2014



...simple, easy, quick, hassle free.

Schedule A

List of all Customer Media, IPE's and functions that were included in the testing procedure.

The IPE's supported are represented in the following table:

IPE	Create	Modify	Accept	Delete
TYP 2 – Stored Travel Rights	✓	✓	✓	✓
TYP 3 - Loyalty (Type 1)	✓	✓	✓	✓
TYP 4 - CTA	✓	✓	✓	✓
TYP 14 – Entitlement	✓	✓	✓	✓
TYP 16 – ITSO ID and Entitlement	✓	✓	✓	✓
TYP 17 – Loyalty (Type 2)	✓	✓	✓	✓
TYP 22 – Area based ticket	✓	✓	✓	✓
TYP 23 – Journey Ticket	✓	✓	✓	✓
TYP 24 - Journey Ticket (incl Reservations)	✓	✓	✓	✓
TYP 25 - Travel Voucher	✓	✓	✓	✓
TYP 26 - Tolling	✓	✓	✓	✓
TYP 27 – Period Pass (space saving)	✓	✓	✓	✓
TYP 28 – Carnet (space saving)	✓	✓	✓	✓
TYP 29 – Multi Journey Ticket (space saving)	✓	✓	✓	✓

The following Readers were used during testing:

ISAM:

**ACR 38 USB,
and GemTAG C101**

Customer Media:

**GemTAG X701 USB,
GemTAG X702
and GemTAG X201**