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Certificate No. C – 00092-1

ITSO Certificate of Compliance

To: ERG Transit Systems (UK) Limited

**For: ERG Ticket Machine TP5700 POST with external card reader MCR
(release 10.03.46000)
and TRACS Depot Software (release 5.7.1.1)
and TRACS (.NET) Software (release 1.4.0.1)**

**This is to certify that the above product has been tested as required by
ITSO for compliance against ITSO TS 1000-0 Specification Version: 2.1.3**

Final Test Report: ERG_POST_2.1.3_TP5700 dated 18 June 2010

**This product supports the functions: ITSO POST and communicates
within an ITSO environment as listed in Schedule A of this Certificate.**

**This product may only be used by ITSO Licenced Members complying
with the conditions and constraints listed in Schedule B.**

Signed for and on behalf of ITSO :

J E Veary

Title:

COMPLIANCE MANAGER

Dated :

09 JULY 2010

Certificate Valid until :

08 JULY 2017



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Schedule A

This POST communicates with CMD1-8.

The POST consists of a off-line bus ETM and depot PC communicating with HOPS.

The IPEs supported are represented by the following table.

IPE	Create	Modify	Accept	Delete
TYP 0 - Private Application			✓	
TYP 2 – Stored Travel Rights		✓	✓	
TYP 3 - Loyalty (Type 1)		✓	✓	✓
TYP 4 - CTA (mode 1)	✓	✓	✓	✓
TYP 5 - CTA (mode 2)	✓	✓	✓	✓
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)	✓	✓	✓	✓
Transient Ticket	✓	✓	✓	✓

Multiple currency is not supported



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Schedule B

List of the conditions and/or constraints applied by ITSO.

This POST meets the off-line bus ETM benchmark timing standards for CMD1, 3, 4, 6, 7, 8 and the current derogation for existing CMD2:

	Average over tests
CMD1	480mS
CMD2	1160mS
CMD3	540mS
CMD4	250mS
CMD5	470mS
CMD6	250mS
CMD7	520mS
CMD8	430mS