



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

Certificate No. C – 00037

ITSO Certificate of Compliance

To: Höft & Wessel AG

For: Almex Optima

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000-0 Specification Version: 2.1.2


Test Report Ref: ALM/CER_001/09 dated 31 May 2007 and subsequent

Reviewed: 20 December 2007

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 :



Title:

COMPLIANCE MANAGER

Dated :

31 May 2008

Certificate Valid until :

30 May 2014



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

Schedule A

This POST communicates with CMD1-8.

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 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)	✓	✓	✓	✓



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

Schedule B

This POST meets the full ITSO benchmark timing standards for CMD4 and 6.

This POST meets the off-line bus ETM benchmark timing standards for CMD1, 3, 5, 7, 8:

	Average over tests
CMD1	360mS
CMD2	880mS
CMD3	435mS
CMD5	290mS
CMD7	410mS
CMD8	445mS