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Certificate No. C – 00037-1

ITSO Certificate of Compliance

To: Höft & Wessel AG


For: Almex Optima (version 1.1)

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

Test Report Ref: ALM/CER_001/09 dated 31 May 2007 and
 HUW_POST_2.1.3_Almex dated 03 July 2009

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 : 17 JULY 2009

Certificate Valid until : 16 JULY 2016



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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)	✓	✓	✓	✓



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Schedule B

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

This POST meets the off-line bus ETM benchmark timing standards for CMD1, 3, 5, 6, 7, 8:

	Average over tests
CMD1	360mS
CMD2	995mS
CMD3	440mS
CMD4	165mS
CMD5	300mS
CMD6	215mS
CMD7	415mS
CMD8	445mS