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Certificate No. C – 000107

ITSO Certificate of Compliance

To: Höft & Wessel AG
Rotenburger Straße 20
30659 Hannover, Germany

For: almex.optima bl (version 2.0.2.0)

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000-0 Specification Version: 2.1.4 Corr5.

Test Report Ref: *050711 – Almex_Optima_BL-P_2.1.4_DR– v.0.1*

dated 23 August 2011

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 Licensed Members complying with the conditions and constraints listed in Schedule B.

Signed for and on behalf of ITSO :

Title:

COMPLIANCE MANAGER

Dated :

20 OCTOBER 2011

Certificate Valid until :

19 OCTOBER 2018



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Schedule A

This POST communicates with all CMD.

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

IPE	Create	Modify	Accept	Delete
TYP 2 – Stored Travel Rights (incl VGX)	✓	✓	✓	✓
TYP 3 - Loyalty (Type 1)	✓	✓	✓	✓
TYP 4 - CTA Mode 1 (incl VGX)	✓	✓	✓	✓
TYP 5 - CTA Mode 2 (incl VGX)	✓	✓	✓	✓
TYP 14 – Entitlement	✓	✓	✓	✓
TYP 16 – ITSO ID and Entitlement	✓	✓	✓	✓
TYP 17 – Loyalty (Type 2)	✓	✓	✓	✓
TYP 22 – Area based ticket (FR1 and 2)	✓	✓	✓	✓
TYP 23 – Journey Ticket (FR1 and 2)	✓	✓	✓	✓
TYP 24 - Journey Ticket (FR2 incl VGX)	✓	✓	✓	✓
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 (FR1-4)	✓	✓	✓	✓

Action Lists and Hot Listing are supported.



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Schedule B

This POST meets the full ITSO benchmark timing standards for CMD1, CMD3, CMD4, CMD5, CMD7 and CMD8.

This POST meets the off-line bus ETM benchmark timing standards for CMD2:

	Average over tests
CMD1	195mS
CMD2	480mS
CMD3	230mS
CMD4	70mS
CMD5	130mS
CMD7	210mS
CMD8	240mS