



Certificate No. C – 00061-2

ITSO Certificate of Compliance

To: VIX Technology
Nautica House, Waters Meeting Road, BOLTON, BL1 8SW. UK

For: PCP5700 Rail Validator (release 4.0.13000.UK)

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

Final Test Report Ref: *041011-VIX Technology_Rail Validator-P_2.1.4_FR-v.1.0 dated 4 October 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 Licenced Members complying with the conditions and constraints listed in Schedule B.

Signed for and on behalf of ITSO :

Title: GOVERNANCE MANAGER

Dated : 23 FEBRUARY 2012

Certificate Valid until : 22 FEBRUARY 2019



Schedule A

This POST communicates with CMD1-8.

It supports the function of a Validator within a closed system (media presented at start and end of each journey).

The user interface provides information only and does not allow user input. Therefore the Validator supports only fully-automated operations upon presentation of the customer media and has no interface functionality.

The IPEs supported are represented by the following table.

IPE	Create	Modify	Accept	Delete
TYP 2 – Stored Travel Rights	✓	✓	✓	
TYP 4 - CTA (mode 1)	✓			
TYP 5 - CTA (mode 2)	✓			
TYP 14 – Entitlement	✓		✓	
TYP 16 – ITSO ID and Entitlement	✓		✓	
TYP 22 – Area based ticket (FR1 and FR2)	✓	✓	✓	✓
TYP 23 – Journey Ticket (FR1 and FR2)	✓	✓	✓	✓
TYP 24 – Pre-Defined Specific Journey Ticket	✓	✓	✓	✓*
TYP 25 - Travel Voucher	✓			
TYP 26 - Tolling	✓			
Transient Ticket	✓	✓	✓	

*TYP24 Deletion will occur when there is insufficient space for a new ticket and an expired one will be deleted

The tests required by RSP showing compliance for Rail Ticket Issuing Systems as detailed in the ITSO 'Certification of Rail POST Equipment' have been passed by this device.

This POST supports both Basic and Normal Logs.

The POST does not handle PartySize >1



Schedule B

List of the conditions and/or constraints applied by ITS0

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

This POST achieved ITS0 benchmark timing as follows:

	Average over tests
CMD1	393
CMD2	741
CMD3	442
CMD4	-
CMD5	-
CMD7	340
CMD8	328