ITSO Certificate of Compliance

To: **Tixiom Ltd**
40 Bownham Park, Rodborough Common,
Stroud, Gloucestershire GL5 5BZ

For: **Tixiom POST**
Tixiom ITSO Test Terminal version: 2.1.4.32431
Unicard HousekeepingCE.dll version: 2.1.4.49
Unicard POST kernel HL2CE.dll version: 4.0.9.12

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000 Specification Version: 2.1.4 Corrigendum 5

Final Test Report: **Tixiom_POST- P_2.1.4_FR – V1.0**
Dated: 6 March 2015

This product supports the functions: 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: _GENERAL MANAGER_

Dated : _27 MARCH 2015_

Certificate Valid until : _26 MARCH 2022_

Schedule A

ITSO Manufacturer ID.: 000155

The Unicard POST Kernel[1]. supports all ITSO functionality required from a terminal and can be integrated in existing ticketing applications. It is in this instance integrated into the INIT Pidion Handheld POST. The Unicard POST kernel software used in this validator is ITSO Test Terminal version: 2.1.4.32431; Unicard HousekeepingCE.dll version: 2.1.4.49; Unicard POST kernel HL2CE.dll version: 4.0.9.12, which has no ITSO functionality changes from that described on ITSO certificate C-00096-1.

List of all Customer Media, IPE's and functions that were included in the testing procedure:

This POST communicates with CMD1, 2, 3, 4, 7 & 8.

The IPEs supported are represented by the following table.

IPE	Create	Modify	Accept	Delete
TYP 2 – Stored Travel Rights	✓	✓	✓	✓
TYP 14 – Entitlement	✓	✓	✓	✓
TYP 16 – ITSO ID and Entitlement	✓	✓	✓	✓
TYP 22 – FR1 & FR2 Area based ticket	✓	✓	✓	✓
TYP 23 – FR1 & FR2 Journey Ticket	✓	✓	✓	✓
TYP 24 – Journey Ticket with Reservations and Special Restrictions	✓	✓	✓	✓
TYP 27 – Period Pass (space saving)	✓	✓	✓	✓
TYP 28 – Carnet (space saving)	✓	✓	✓	✓
TYP 29 – FR1 & FR2 Multi Journey Ticket (space saving)	✓	✓	✓	✓
Transient Ticket FR1, 2, 3 & 4	✓	✓	✓	N/A

This POST supports Action Lists and Hotlists for all of the products supported, although Action to Take code 1 (creating IPEs with embodiments) is not supported.

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[1] Utilising Unicard POST Kernel HL2CE.dll version: 4.0.8.5/HousekeepingCE.dll version: 2.1.4.48 - ITSO Certificate C-00096-1

Schedule B

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

This POST gave the following benchmark timings:

	Average over tests
CMD1	310mS
CMD2	479mS
CMD3	393mS
CMD4	160mS
CMD7	438mS
CMD8	468mS

Message type 0807 (generation of additional shell data) is not supported by the POST.

Device Image: