ITSO Certificate of Compliance

To: **PDMS**
Unit 5000, Academy Park, Gower Street,
Glasgow G51 1PR

For: **Firmware: 20170807_R3.12**
Android: 4.4.4 Kitkat

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 9

Final Test Report Ref: *25082017–*

PDMS_Bluebird_BP30_handheld_POST_2.1.4_D

R–v.1.1

Dated: 25th August 2017

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: *CHIEF EXECUTIVE OFFICER*

Dated: *20 SEPTEMBER 2017*

Certificate Valid until: *19 SEPTEMBER 2024*

Schedule A

ITSO Manufacturer ID.: 000272

This device is a handheld and communicates from a central server to the HOPS using the Unicard despatcher. The device uses the Unicard certified POST kernel software[1].

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

This POST communicates with CMD 2, 4 & 7.

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 - Area based ticket (FR 1 – 2)	✓	✓	✓	✓
TYP 23 FR 1 – Journey Ticket (FR1 – 2)	✓	✓	✓	✓
TYP 24 – Journey Ticket with Reservations and Special Restrictions	✓	✓	✓	✓
TYP 27 – Period Pass (space saving)	✓	✓	✓	✓
TYP 28 – Carnet (space saving)	✓	✓	✓	✓
TYP 29 - Multi Journey Ticket (space saving) (FR1 – FR2)	✓	✓	✓	✓
Transient Ticket Log FR 1, 2,3 & 4	✓	✓	✓	N/A

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

Image
Device image:

---

[1] Certificate C-00163 Unicard POST Kernel, HL2CE.dll version: 5.0.1.1/HousekeepingCE.dll version: 2.1.4.62

Schedule B

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

The device's benchmark timings fall within 3x Part 10 target time tolerance for handheld POST devices - see "ITSO_Certification_and_Testing_Offline_Handheld_POST_Equipment_v3-Jul2009.pdf":

Media	Average over tests
CMD2	830mS
CMD4	362mS
CMD7	833mS

Action to take 1: Creating IPEs with embodiments are not supported.