



Unicard Limited
Peartree Business Centre
Cobham Road
Wimborne
Dorset
BH21 7PT

25th November 2020

ITSO POST Compliance Certificate

Certificate Number: C-00045-11
Product/Service name: PersoPOST PSEngine, version 3.80.1.1
Compliant with: ITSO TS 1000 Specification Version 2.1.4 Corrigendum 9

ITSO received a request submitted by Unicard Limited, for the certification of the PersoPOST PSEngine (software version 3.80.1.1). As indicated in Certification Test Report (ref. POST-1582641148 Unicard PersoPOST re-certification Test Report v1.0), ITSO has found reasonable evidence that the submitted product/service complies to ITSO TS 1000 Specification Version 2.1.4 Corrigendum 9.

Your product/service will be included in the certified products list, published on ITSO website.

Please note that the present Certification is subject to the following general terms and conditions along with conditions/constraints as detailed in Schedule B:

- i. The present Certification is granted on the basis of the ITSO Certification & Compliance Policy and therefore is valid as of today and will expire 7 years from issue, however If the Product/service contains a sub-assembly, the above referenced product will only be valid if the sub-assembly holds a valid ITSO certificate.
- ii. If the Product version number is changed, Unicard Limited must notify ITSO of this fact in writing by supplying the release notes. Any change in the Product that may generate a different behaviour with respect to the ITSO TS 1000 Specification version 2.1.4 corrigendum 9 standards may be considered a major modification subject to a new evaluation in order to maintain the present Certification.
- iii. The present Certification granted to Unicard Limited for the above referenced Product is non-transferable to any other vendor.
- iv. When request by an ITSO Licenced Operator, the ITSO Registered Supplier must supply a copy of the Test Report.

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PersoPOST PSEngine



Schedule A

ITSO Manufacturer ID: 000320

PC based software library with Prima 4/8 printer, incorporating x501 USB reader.

The CM supported by this device is shown in the following table:

CM	CMD2	CMD4	CMD7	mCMD2
Customer Media Definition	✓	✓	✓	

The IPEs supported are represented in the following table:

IPE	Accept	Create	Modify	Delete
TYP 0 – Private Application				
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 & Entitlement		✓		
TYP 17 – Loyalty (Type 2)				
TYP 22 FR1 – Area Based Ticket		✓	✓*	
TYP 22 FR2 – Area Based Ticket		✓	✓*	
TYP 23 FR1 – Journey Ticket		✓	✓*	
TYP 23 FR2 – Journey Ticket		✓	✓*	
TYP 24 – Journey Ticket with Reservations and Special Restrictions		✓		
TYP 25 – Travel Voucher		✓		
TYP 26 – Open System Tolling		✓		
TYP 27 – Period Pass (space saving)		✓		
TYP 28 – Carnet (space saving)		✓		
TYP 29 – Multi Journey Ticket (space saving) – FR1		✓		
TYP 29 – Multi Journey Ticket (space saving) – FR2		✓		
Transient Ticket Log FR 1		✓		N/A
Transient Ticket Log FR 2		✓		N/A
Transient Ticket Log FR 3		✓		N/A
Transient Ticket Log FR 4		✓		N/A

* initial load

Schedule A (cont.)

The optional functionality supported by this device is shown in the following tables:

Hot listing support			
Multi (0602)	Manually Block	Manually Unblock	Storage

Action list support		
Single (OC03)	Multi (0603)	Storage

Action list Action to Take (ATT) support															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Interoperability/parameter list support/multi record receipt of multiple types				
ListFR1 Receive 0Axx	List FR1 Receive 0Bxx	List FR2 Receive 0Axx	List FR2 Receive 0Bxx	Receive multiple types 0600

Miscellaneous						
POST HOPS queries	Additional Shell Data 0807	Log 1	UD Frames Generate 0Exx	UD Frames Receive 0Exx	UD Frames Generate 0Fxx	UD Frames Receive 0Fxx
		✓				

RSPS3002 Rail Supplementary Functions							
Check in	Check out	Undo Check in	Break of Journey	Inter- change	Pass Activation	Lists	Inspection



Schedule B

List of conditions and/or constraints applied by ITSO:

- i. The PSEngine only supports creation of CMD2 with FCI Proprietary Template
- ii. The PSEngine supports the creation of CMD2 applet with Authentication algorithm 03 – 3DES with Secure Messaging
- iii. Supplementary Data Message are not supported
- iv. The PSEngine does not support transaction reversal (or reversal of reversal)



Certificate No. C-00045-11

ITSO Certificate of Compliance

Supplier: **Unicard Limited**

Product/service: **PersoPOST PSEngine**
Version: **3.80.1.1**

This is to certify that the above product/service has been tested as required by ITSO for compliance against:

ITSO TS 1000 Specification Version: 2.1.4 Corrigendum 9

Test Report Ref: POST-1582641148 Unicard PersoPOST re-certification Test Report v1.0

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: _____

Name: **Darren Marshall-Sewell**

Title: **Certification & Compliance Manager**

Dated: **25th November 2020**

Certificate Valid until: **24th November 2027**

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PersoPOST PSEngine