ECR Retail Systems
Church House
Church Road
Kings Langley
Hertfordshire
WD4 8JP

26th August 2020

ITSO POST Compliance Certificate

Certificate Number: C-00187-1
Product/Service name: ECRGo2 Handheld POST
Version: Firmware Version: Boot v1.0.3 App v2.1.1 DLL v1.2.3
Compliant with: ITSO TS 1000 Specification Version 2.1.4 Corrigendum 9

Dear Andrew,

ITSO received a request submitted by ECR Retail Systems, for the certification of the ECRGo2 Handheld POST (software version Firmware Version: Boot v1.0.3 App v2.1.1 DLL v1.2.3). As indicated in Certification Test Report (ref. POST-1584541617 ECRGo2 Handheld POST), 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, ECR Retail Systems <u>must</u> 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 ECR Retail Systems 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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Schedule A

The ECRGo2 is a handheld POST that uses the certified Unicard POST Kernel (Housekeeping ver.2.1.5.1 / HL2.DLL ver.5.0.2.1) certificate C00163-1.

The CM supported is shown in the following table:

CMD	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 Ticker (space saving) – FR1				
TYP 29 – Multi Journey Ticker (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**

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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**
✓	✓	✓	**3Gb**

Action list support		
Single (OC03)	**Multi (0603)**	**Storage**
✓	✓	**3Gb**

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 A (cont.)

Benchmarking Times

Average in milliseconds (mS)

	Average
POST.0781 – Benchmark Test CMD2: IPE with Value Record Data Group Modification	826ms
POST.0085 – Benchmark Test CMD2: IPE with Transient Ticket Record Creation	630ms
POST.0783 – Benchmark Test CMD7: IPE with Value Record Data Group Modification	568ms
POST.0117 – Benchmark Test CMD7: IPE with Transient Ticket Record Creation	473ms

Device Image

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__Schedule B__

List of conditions and/or constraints applied by ITSO:

The ECR Handheld POST does not support the following:

- The reversal of TrxReversal.
- Auto renew before the expiry of IPE.
- Auto renew before all stored tickets are consumed.
- Generation of 0310 Supplementary Data Message.
- Generation of 0801 Supplementary Data Message.
- Entry closed system without product selection.
- Exit closed system without product selection on entry.
- Entry to closed system with product selection on entry.
- Exit to closed system with product selection on entry.
- Inspection only without product selection on entry.
- Inspection only with product selection on entry.
- Inspection with product selection.
- Generation of Long Message with Data# = 1.

ITSO Certificate of Compliance

Supplier: **ECR Retail Systems**

Product/service: **ECRGo2 Handheld POST**
Version: **Firmware Version: Boot v1.0.3 App v2.1.1 DLL v1.2.3**

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-1584541617 ECRGo2 Handheld POST

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: 26th August 2020

Certificate Valid until: 25th August 2027

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