

Scheidt & Bachmann GmbH  
Breite Strasse 132  
41238 Mönchengladbach  
Germany

21<sup>st</sup> July 2020

## **ITSO POST Compliance Certificate**

Certificate Number: C-00076-3  
Product/Service name: Electronic Point-of-Sales (EPOS), version 1.8.4.2  
Compliant with: ITSO TS 1000 Specification Version 2.1.4 Corrigendum 9

Dear Dieter,

ITSO received a request submitted by Scheidt & Bachmann GmbH, for the certification of the Electronic Point-of-Sales (EPOS) (software version 1.8.4.2). The EPOS uses CID1 in its solution and as indicated in Certification Test Report (ref. PO\_0009\_Scheidt & Bachmann\_Card Interface Device (CID1) Test Report), 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, Scheidt & Bachmann GmbH 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 Scheidt & Bachmann GmbH 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.

## Schedule A

The CM supported is shown in the following table:

CM	CMD2	CMD4	CMD7	mCMD2
Customer Media Definition	✓	✓	✓	✓

The IPEs supported are represented in the following table:

IPE	Create	Modify	Delete	Accept
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 4	✓	✓	n/a	✓

## 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
✓	✓	✓	20000kb

Action list support		
Single (OC03)	Multi (0603)	Storage
✓	✓	20000kb

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

RSPS3016 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 Read Over Test – milliseconds (mS)**

	<b>EPOS</b>
<b>POST.0097 – Benchmark Test CMD4</b>	74 ms
<b>POST.0781 – Benchmark Test CMD2: IPE with Value Record Data Group Modification</b>	310 ms
<b>POST.0085 – Benchmark Test CMD2: IPE with Transient Ticket Record Creation</b>	310 ms
<b>POST.0783 – Benchmark Test CMD7: IPE with Value Record Data Group Modification</b>	244 ms
<b>POST.0117 – Benchmark Test CMD7: IPE with Transient Ticket Record Creation</b>	255 ms

## **Schedule B**

List of conditions and/or constraints applied by ITSO:

The following are not supported by the POST:

- VGXRef=1
- Long Message with Data#=1

Certificate No. C-00076-3

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# ITSO Certificate of Compliance

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Supplier: **Scheidt & Bachmann GmbH**  
Product/service: **Electronic Point-of-Sales (EPOS)**  
Version: **1.8.4.2**

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: PO\_0009\_Scheidt & Bachmann\_Card Interface Device (CID1)**  
**Test Report**

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.

A handwritten signature in black ink, appearing to read "Darren Marshall-Sewell".

**Signed for and on behalf of ITSO:** \_\_\_\_\_

**Name:** Darren Marshall-Sewell

**Title:** Certification & Compliance Manager

**Dated:** 21<sup>st</sup> July 2020

**Certificate Valid until:** 20<sup>th</sup> July 2027