



Corvia Limited (Trading as Ticketer)

Marlborough House,
Hungerford,
RG17 0EY

16th December 2025

ITSO POST Compliance Certificate

Certificate Number: C00213-1 (P2)
Product/Service name: Ticketer Handheld 2.0 version Android v26
Compliant with: ITSO TS 1000 Specification Version 2.1.5 (Phase 2)

Dear Andreea,

ITSO received a request submitted by Corvia Limited (Trading as Ticketer), for the certification of the Ticketer Handheld 2.0 (software version Android v26). As indicated in Certification Test Report (ref. POST-1750343407 - Ticketer Handheld 2.0 Certification of C00213 to Phase 2 of ITSO Technical Specification version 2.1.5), ITSO has found reasonable evidence that the submitted product/service complies to ITSO TS 1000 Specification Version 2.1.5 (Phase 2).

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 based on the ITSO Certification & Compliance Policy, with its validity specified on the Certificate page. For a product or service that utilises a valid ITSO certified sub-assembly, the certificate's validity will correspond to the sub-assembly's expiry date.
- ii. If the Product version number is changed, Corvia Limited (Trading as Ticketer) 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 2.1.5 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 Corvia Limited (Trading as Ticketer) 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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Ticketer Handheld 2.0



Schedule A

The Ticketer Handheld 2.0 is a handheld ETM that can either be mounted on a bus or used as a mobile handheld device. It uses the Unicard POST Kernel sub-assembly C00163-4 (P2), which has been fully certified to Phase 2 of the ITSO Technical Specification version 2.1.5.

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

CMD2	CMD4	CMD7 SFR1 ¹	CMD7 SFR2	CMD9	CMD10	CMD11	CMD12
✓	✓	✓	✓	✓	✓	✓	✓

¹CMD7 SFR1 is deprecated in ITSO version 2.1.5 – support is retained solely for backwards compatibility.

The IPEs supported are represented in the following table:

IPE	Accept	Create	Modify	Delete
TYP 0 – Private Application				
TYP 2 – Stored Travel Rights	✓	✓	✓	✓
TYP 2 – Stored Travel Rights VGXRef1	✓	✓	✓	✓
TYP 2 – Stored Travel Rights VGXRef2	✓	✓	✓	✓
TYP 3 – Loyalty (Type 1)				
TYP 4 – CTA (Mode 1)				
TYP 5 – CTA (Mode 2)				
TYP 14 IFR1 – Entitlement	✓	n/a	✓	✓
TYP 14 IFR2 – Entitlement	✓	✓	✓	✓
TYP 16 IFR1 – ITSO ID & Entitlement	✓	n/a	✓	✓
TYP 16 IFR2 – 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)	✓	✓	✓	n/a
TYP 28 – Carnet (space saving)	✓	✓	✓	n/a
TYP 29 – Multi Journey Ticket (space saving) – FR1	✓	✓	✓	n/a
TYP 29 – Multi Journey Ticket (space saving) – FR2	✓	✓	✓	n/a
Transient Ticket Log FR 1	✓	✓	n/a	n/a
Transient Ticket Log FR 2	✓	✓	n/a	n/a
Transient Ticket Log FR 4	✓	✓	n/a	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				
Single (0C02)	Multi (0602)	Manually Block	Manually Unblock	Storage
	✓	✓	✓	10000 items

Action list support		
Single (0C03)	Multi (0603)	Storage
	✓	10000 items

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 ¹	List FR1 Receive 0Bxx	List FR2 Receive 0Axx ¹	List FR2 Receive 0Bxx	Receive multiple types 0600 ¹

¹0600,0AxxFR1 and 0AxxFR2 are deprecated in ITSO version 2.1.5 – support is retained solely for backwards compatibility.

Miscellaneous						
ISAM Query Function	Additional Shell Data 0807	Log 1	UD Frames Generate 0Exx	UD Frames Receive 0Exx	UD Frames Generate 0Fxx	UD Frames Receive 0Fxx
✓	✓					



Schedule A (cont.)

Benchmarking Times

ITSO Test Ref	Test Summary	Average time
POST.0085	CMD2: IPE with Transient Ticket Record Creation	347.5ms
POST.0097	Benchmark Test CMD4	128.1ms
POST.0781	CMD2: IPE with Value Record Data Group Modification	626.0ms
POST.0117	CMD7: IPE with Transient Ticket Record Creation	291.1ms
POST.0783	CMD7: IPE with Value Record Data Group Modification	407.0ms
POST.1464	CMD9 NTAG215: IPE with Value Record Data Group Modification	553.3ms
POST.1465	CMD9 NTAG215: IPE with Transient Ticket Record Creation	354.2ms
POST.1474	CMD9 NTAG216: IPE with Value Record Data Group Modification	871.8ms
POST.1475	CMD9 NTAG216: IPE with Transient Ticket Record Creation	354.9ms
POST.1466	CMD10: IPE with Value Record Data Group Modification	880.0ms
POST.1467	CMD10: IPE with Transient Ticket Record Creation	407.8ms
POST.1468	CMD11 Static MIDs Profile2 (Normal): IPE with Value Record Data Group Modification	320.4ms
POST.1469	CMD11 Static MIDs Profile2 (Normal): IPE with Transient Ticket Record Creation	237.9ms
POST.1476	CMD11 Static MIDs Profile4 (XL): IPE with Value Record Data Group Modification	332.6ms
POST.1477	CMD11 Static MIDs Profile4 (XL): IPE with Transient Ticket Record Creation	256.8ms
POST.1478	CMD11 Random MIDs Profile2 (Normal): IPE with Value Record Data Group Modification	384.3ms
POST.1479	CMD11 Random MIDs Profile2 (Normal): IPE with Transient Ticket Record Creation	300.9ms
POST.1480	CMD11 Random MIDs Profile4 (XL): IPE with Value Record Data Group Modification	399.8ms
POST.1481	CMD11 Random MIDs Profile4 (XL): IPE with Transient Ticket Record Creation	336.6ms
POST.1503	CMD12 Non-Pseudo Profile 1: IPE with Transient Ticket Record Creation	285.0ms
POST.1502	CMD12 Non-Pseudo Profile 1: IPE with Value Record Data Group Modification	354.7ms

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ITSO Test Ref	Test Summary	Average time
POST.1483	CMD12 Non-Pseudo Profile 6: IPE with Transient Ticket Record Creation	291.7ms
POST.1482	CMD12 Non-Pseudo Profile 6: IPE with Value Record Data Group Modification	406.9ms
POST.1505	CMD12 Pseudo Profile 1: IPE with Transient Ticket Record Creation	357.3ms
POST.1504	CMD12 Pseudo Profile 1: IPE with Value Record Data Group Modification	436.7ms
POST.1487	CMD12 Pseudo Profile 6: IPE with Transient Ticket Record Creation	369.2ms
POST.1486	CMD12 Pseudo Profile 6: IPE with Value Record Data Group Modification	482.4ms

Schedule B

List of conditions and/or constraints applied by ITSO:

The Ticketer Handheld 2.0 does not support the following:

- The reversal of TrxReversal.
- Auto renew before the expiry of the current TYP22 pass.
- Auto renew before all stored tickets are consumed.

Image of Ticketer Handheld 2.0



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Ticketer Handheld 2.0



Certificate No. C00213-1 (P2)

ITSO Certificate of Compliance

Supplier: **Corvia Limited (Trading as Ticketer)**

Product/service: **Ticketer Handheld 2.0**
Version: **Android v26**


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

ITSO TS 1000 Specification Version: 2.1.5 (Phase 2)

Test Report Ref: POST-1750343407 - Ticketer Handheld 2.0 Certification of C00213 to Phase 2 of ITSO Technical Specification version 2.1.5

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: **Technology Manager**
Dated: **16th December 2025**
Certificate Valid until: **15th December 2027**

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