



**Arrive**

10 Willis Way,  
Fleets Industrial Estate,  
Poole,  
BH15 3SS

23rd January 2026

**ITSO POST Compliance Certificate**

Certificate Number: C00239 (PT)

Product/Service Name: Axio Validator

Product Version No.: 0.0.7

ITSO Specification: ITS0 TS 1000 Specification version 2.1.5 - Partial Phase 2 (PT)

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Dear Simon,

ITSO received a request submitted by Arrive, for the certification of the Axio Validator (version 0.0.7). ITSO has found reasonable evidence that the submitted product/service complies to **ITSO TS 1000 Specification version 2.1.5 - Partial Phase 2 (PT)**, as indicated in the certification test report:

Test Report:
POST-1752046096 - Arrive Axio Validator New Certification

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 and 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 is changed, Arrive 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 ITS0 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 Arrive for the above referenced product is non-transferable to any other vendor.
- iv. When requested by an ITSO Licenced Operator, the ITSO Registered Supplier must supply a copy of the test report.

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## Schedule A

The Axio Validator is certified for the following functions of the ITSO TS 1000 Specification version 2.1.5 - Partial Phase 2 (PT), as indicated in the table below:

Phase 2 Functions								
IPE Features	Media Features					ISAM Features		HOPS
TYP14 IFR2 TYP16 IFR2	CM7 SFR2	CMD9	CMD10	CMD11	CMD12	ISAM Query Function	EPOCH	HOPS to HOPS Seq#
✓	✓	-	-	-	-	-	✓	-

The Axio Validator has been tested using the Unicard POST Kernel sub-assembly C00163-4 (P2), which holds certification to ITSO TS 1000 Specification version 2.1.5 – Full Phase 2.

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

CMD2	CMD4	CMD7 SFR1 <sup>2</sup>	CMD7 SFR2	CMD9 <sup>1</sup>	CMD10 <sup>1</sup>	CMD11	CMD12
✓	-	✓	✓	-	-	-	-

<sup>1</sup> Support for this media is optional.

<sup>2</sup> Support for backwards compatibility.

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

IPE TYP	Accept	Modify	Create	Delete
TYP0 - Private Entity	-	-	-	-
TYP2 IFR1 - Stored Travel Rights	✓	✓	✓	✓
TYP2 IFR1 VGXRef1 – Stored Travel Rights	-	-	-	-
TYP2 IFR1 VGXRef1 – Stored Travel Rights	-	-	-	-
TYP3 - Loyalty Type 1	-	-	-	-
TYP4 - Charge to Account (CTA) Mode 1	-	-	-	-
TYP5 - Charge to Account (CTA) Mode 2	-	-	-	-
TYP14 IFR1 – Entitlement	✓	-	-	✓
TYP14 IFR2 – Entitlement	✓	-	✓	✓
TYP16 IFR1 - ITSO ID	✓	-	-	✓
TYP16 IFR2 – ITSO ID & Entitlement	✓	-	✓	✓
TYP17 IFR1 – Loyalty Typ2 2 (Centrally Accounted)	-	-	-	-
TYP22 IFR1 – Area Based Ticket	✓	✓	✓	✓
TYP22 IFR2 – Area Based Ticket	✓	✓	✓	✓
TYP22 IFR3 – Area Based Ticket	-	-	-	-

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IPE TYP	Accept	Modify	Create	Delete
TYP23 IFR1 – Journey Ticket	–	–	–	–
TYP23 IFR2 – Journey Ticket	–	–	–	–
TYP23 IFR3 – Journey Ticket				
TYP24 IFR2 - Journey Ticket with Reservation and Special Restriction	–	–	–	–
TYP25 - Travel Related Voucher	–	–	–	–
TYP26 - Open System Tolling	–	–	–	–
TYP27 - Period (Space Saving)	–	–	–	N/A
TYP28 - Carnet (Space Saving)	–	–	–	N/A
TYP29 IFR1 - Multi Journey Ticket (Space Saving)	–	–	–	N/A
TYP29 IFR2 - Multi Journey Ticket (Space Saving)	–	–	–	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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Registered address 302 Witan Gate West, Milton Keynes, MK9 1EJ



## Schedule A (cont.)

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

Actionlist ActionToTake (ATT) Supported																
1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	-	-	

LocDefType Supported															
202	203	204	205	206	207	208	209	210	211	212	255	216	217	218	
-	-	✓	✓	-	-	-	-	-	-	-	✓	-	-	-	

Hotlist Support				Storage			
Manually Block 0315		Manually Unblock 0314		Hotlist		Actionlist	
				10,000 items		50,000 items	

Optional Messaging and Data Features					
List FR1 Receive 0Bxx	List FR2 Receive 0Bxx	UD Frames Generate 0Exx	UD Frames Receive 0Exx	UD Frames Generate 0Fxx	UD Frames Receive 0Fxx

Miscellaneous					
ISAM Query Function 080A/080B	Supp. Data Message 0801	Additional Shell Data 0807	POST SET Notification 0809	Passback Violation Reporting 35	Auto-Renew Before Expiry

## Benchmarking Times

ITSO Test Ref and Title	Benchmark Time in ms
POST.0781 - Benchmark Test CMD2: IPE with Value Record Data Group Modification	500.7
POST.0085 - Benchmark Test CMD2: IPE with Transient Ticket Record Creation	409.2
POST.0783 - Benchmark Test CMD7: IPE with Value Record Data Group Modification	452.6
POST.0117 - Benchmark Test CMD7: IPE with Transient Ticket Record Creation	354.7

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## **Schedule B**

List of conditions and/or constraints applied by ITSO:

The Arrive Axio 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 Axio Validator**



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## ITSO Certificate of Compliance

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Supplier: **Arrive**

Product/service: **Axio Validator**

Version: **0.0.7**

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

**ITSO Specification: ITSO TS 1000 Specification version 2.1.5 - Partial Phase 2 (PT)**

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: **23rd January 2026** \_\_\_\_\_

Certificate Valid until: **7th October 2027** \_\_\_\_\_

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