ITSO Certificate of Compliance

To: **Fujitsu, Lovelace Road, Bracknell, RG12 8SN**

For: **STAR Mobile v600.016.00**
   Card Reader Name:Zebra NFC SLED
   Card Reader Model Number:TC56 MFC sled MISC-TC-56-MSTSD-01
   Card Reader Version:1.25b

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000 Specification Version: 2.1.4 Corrigendum 9 and your Product will be included in the certified products list, published on ITSO website (http://itso.org.uk).

Test Report Ref: 6P_000124 Fujitsu_STAR_Mobile_Test Report_v1.1

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: **19th December 2019**

Certificate Valid until: **19th December 2026**

Schedule A

ITSO Manufacturer ID: 000142

The Fujitsu STAR Mobile device, is a handheld inspection device, running the ACT POST Library kernel Certificate C-00101-6. The STAR Mobile will be used by train staff to inspect and retail valid smart products.

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

CM	CMD2	CMD4	CMD7	eCMD2
Card Media Definition	✓		✓	✓

The IPEs supported are represented in the following table:

IPE	Create	Modify	Delete	Accept
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	✓	✓	✓	✓
Transient Ticket Log FR 4	✓	✓		

Image of STAR Mobile

__Schedule B__

Please note that the present Certification is subject to the following terms and conditions as listed hereafter:

  i.   The present Certification is granted on the basis of the ITSO Certification Policy and therefore is valid as of today and will expire 7 years from issue.

  ii. If the Product is changed, Fujitsu must notify ITSO of this fact in writing. 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 will be considered a major modification subject to a new evaluation in order to maintain the present Certification.

  iii. The present Certification granted to Fujitsu for the above referenced Product is non-transferable to any other vendor.

List of the constraints applied by ITSO:

  i.   The STAR Mobile device supports retrospective 'forced' check-in, check-out and break of journey operations where maximum journey time is taken into consideration in the context of a card inspection operation.
  ii.   The STAR Mobile device supports only Normal Log within the context of a Transient Ticket.
  iii. The STAR Mobile device does not support the triggering of Auto-Renew.
  iv.   The STAR Mobile device does not support the reversal of TrxReversal.
  v.   The STAR Mobile device does not support message code 0600.
  vi.   The STAR Mobile device does not support the generation of Long Message with Data#=1.
  vii. The STAR Mobile device does not support the automatic IPE selection.
  viii. The STAR Mobile device does not support Interoperability lists.
  ix.   The STAR Mobile device does not support POST to HOPS queries.
  x.   The STAR Mobile device does not support the generation of 0807 message.
  xi.   The STAR Mobile device does not support the generation of 0801 message.
  xii. The STAR Mobile device does not support IPEPriorityOverride.
  xiii. TYP14 and TYP16 concessionary usage transactions are not supported by the STAR Mobile. These IPE types are used for identifying the discounted fares.
  xiv. The STAR Mobile device does not support 0Fxx and 0Exx UD frames.
  xv.   The STAR Mobile device does not support the generation of 0310 message.
  xvi. The STAR Mobile device does not support deleting a shell.