



Visa  
Torus Building  
Rankine Avenue  
SETP, East Kilbride  
Glasgow  
G75 0QF

1<sup>st</sup> June 2021

### **ITSO Customer Media Compliance Certificate**

Certificate Number: C-00208  
Product/Service name: Customer Media (CMD2), VISA - Pearl - E16-S64-B80 - Mifare 1k emulation  
Compliant with: ITSO TS 1000 Specification Version 2.1.4 Corrigendum 9

ITSO received a request submitted by Visa, for the certification of the Customer Media (CMD2) (VISA - Pearl - E16-S64-B80 - Mifare 1k emulation). As indicated in Certification Test Report (ref. VISA - Pearl - E16-S64-B80 - Mifare 1k emulation.pdf), 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, Visa 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 Visa 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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Customer Media (CMD2) - VISA - Pearl - E16-S64-B80 - Mifare 1k emulation

Registered address Aurora House, Deltic Avenue, Milton Keynes, MK13 8LW



## **Schedule A**

This customer media uses the Format Version Code (FVC) of 02 and the file structure consist of the following:

- (C1) Mutual Authentication Algorithm Support  
Algorithm Type: 0x03  
P1 Code: 0x02  
P2 Code (EXT): 0x81  
P2 Code (INT): 0x82
- (C2) Verify Command Parameter  
P1 Code: 0x00  
P2 Code: 0x40
- (C3) Storage EF Short File ID: 0x01
- (C4) Directory Size: 0x8E
- (C5) Anti-tear Mechanism: 0x01 (Type A)
- (C7) ITSO DF Path: 0xDF 0x10

Data Element values:

- Key Strategy Code (KSC): 0x03
- Storage Sector Size (B): 0x50
- Number of Sector Supported (S): 0x40
- Number of Directories Entry (E): 0x10
- Length of Sector Chain Table: 0x2E

This CMD2 supports the use of File Control Information (FCI) Proprietary Template.

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## **Schedule B**

List of conditions and/or constraints applied by ITSO:

- i. None

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# ITSO Certificate of Compliance

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Supplier: **Visa**

Product/service: **Customer Media (CMD2)**

Version: **VISA - Pearl - E16-S64-B80 - Mifare 1k emulation**

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: VISA - Pearl - E16-S64-B80 - Mifare 1k emulation.pdf**

This product supports the functions: ITSO Customer Media 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:** 1<sup>st</sup> June 2021

**Certificate Valid until:** 31<sup>st</sup> May 2028

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