

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

(Not to be reproduced without the permission of BIS or used as a STANDARD)

मसौदा भारतीय मानक  
पहचान कार्ड्स — एकीकृत परिपथ कार्ड  
भाग 8: सुरक्षा कार्य के लिए कमांड और क्रियाविधि  
( दूसरा पुनरीक्षण )

---

**Draft Indian Standard**  
**Identification Cards — Integrated Circuit Cards**  
**Part 8 Commands and Mechanisms for**  
**Security Operations**  
**( Second Revision )**

ICS 35.240.15

---

Identification & Data capture techniques,  
Cards and Security Devices Sectional  
Committee, LITD 16

Last Date for Comments: 14 September 2025

**NATIONAL FOREWORD**

(Formal clauses will be added later)

This draft Indian Standard (Part 8) (Second Revision) which is identical to 'ISO/IEC 7816-8:2021 Identification cards — Integrated circuit cards Part 8: Commands and mechanisms for security operations' issued by the International Organization Standardization (ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards (BIS) on the recommendations of the Identification & Data capture techniques, Cards

and Security Devices Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was first published in 2013 and was identical to ISO/IEC 7816-8 : 2013. The first revision of this standard was published in 2021 and was identical to ISO/IEC 7816-8: 2019. The second revision of this standard has been undertaken to align it with the latest version of ISO/IEC 7816-8: 2021.

The main changes compared to the previous edition are as follows:

- in Table A.9, A.10 and A.11, P1-P2 value of mse command has been corrected;
- in Table A.11, P1-P2 value of pso command with hash operation has been corrected.

The other parts in this series are:

Part 1 cards with contacts - Physical characteristics (Second Revision)

Part 2 cards with contacts-Dimensions and location of the contacts (Second Revision)

Part 3 cards with contacts - Electrical interface and transmission protocols (First Revision)

Part 4 Organization security and commands for interchange (First Revision)

Part 5 registration of application providers (First Revision)

Part 6 Interindustry Data Elements for Interchange (Third Revision)

Part 7 interindustry commands for structured card query language (SCQL)

Part 9 Commands for card management (First Revision)

Part 10 Electronic signals and answer to reset for synchronous cards

Part 11 Personal verification through biometric methods (Second Revision)

Part 12 cards with contacts -USB electrical interface and operating procedures

Part 13 Commands for application management in a multi-application environment

Part 15 Cryptographic information application

Amendment 1 ‘Interoperability for the interchange of security operations using quantum-safe cryptography’ issued in 2023 to the above International Standard is a necessary adjunct to this standard and is given at the end of this standard.

The text of ISO/IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’, and
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this draft standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

<b>International Standards</b>	<b>Corresponding Indian Standard</b>	<b>Degree of Equivalence</b>
ISO/IEC 7816-4 Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange	IS 14202 (Part 4):2021 ISO/IEC 7816-4 : 2020 Identification cards Integrated circuit cards Part 4: Organization security and commands for interchange (First Revision)	Identical with ISO/IEC 7816-4: 2020

**Scope of ISO/IEC 7816-8: 2021 is as follows:**

“This document specifies interindustry commands which can be used for security operations. This document also provides informative directives on how to construct security mechanisms with commands defined in ISO/IEC 7816-4.

The choice and conditions of use of cryptographic mechanism in security operations can affect card exportability. The evaluation of the suitability of algorithms and protocols is outside the scope of this document. It does not cover the internal implementation within the card and/or the outside world.”

**Note:** - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details, please refer to ISO/IEC 7816-8:2021 and Amendment No.1 of ISO/IEC 7816-8:2021 or kindly contact.

**Head,**  
Electronics & IT Department  
Bureau of Indian Standards  
9, B.S. Zafar Marg, New Delhi-110002  
Email: hltd@bis.gov.in, litd16@bis.gov.in  
Telephone: 011-23608450

---