

ISO/IEC JTC 1 "Information technology"

Secretariat: ANSI

Committee manager: Rajchel Lisa Mrs.



SC 17 Business Plan (2025 - 2026)

Document type	Related content	Document date	Expected action
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Description

This document is circulated for review and consideration at the November 2025 JTC 1 Plenary.



ISO/IEC JTC 1/SC 17 "Cards and security devices for personal identification"

Secretariat: **BSI**

Committee manager: **Stride Jean M Mrs**



ISO/IEC JTC 1 SC 17 Business Plan (2025 - 2026)

Document type	Related content	Document date	Expected action
General / Other		2025-09-11	INFO

ISO/IEC JTC 1/SC 17 Draft Business Plan (2025 – 2026)

1.0 Executive Summary

SC17 continues to operate in a very buoyant market. There are over 14 billion bank cards in circulation and an ever-growing number of identity documents such as driving licences, passports, travel credentials, vaccination certificates etc. The number of issuing authorities requesting numbers for documents is increasing especially in emerging marketplaces where new banking organisations are being created. The move to digital devices such as mobile phones being used to host credentials has brought interest from new organisations in their development and use.

At the end of 2025, the Chairmanship of SC 17 will transfer from Dr Peter Waggett (UK) to Mr Lin Yih (Singapore), subject to JTC 1 approval. A transition period is underway.

2.0 Environment

To be added

3.0 Achievements and benefits

WG 1 - The revision of the 24789 series 'Identification cards – service life' was published, resulting in a completely standardized approach evaluating and qualifying identification cards from a reliability perspective depending on expected life time and usage frequency. The revision of these standards should result in a more effective and efficient approach to testing and qualification, reducing cost and effort for manufacturers and issuers.

WG3 works closely with the International Civil Aviation Organization (ICAO) in the area of traveler identification. It is an application focused working group and uses specifications created by other SCs and working groups and creates Application profiles based on the requirements of the travel document community. WG3 has created the ISO/IEC 39794-5 Application Profile for migrating travel documents to use the new specification. It has also started work on identifying quantum safe algorithms for travel documents, and has established liaisons with SC27/WG2 for this purpose. WG3 is also working on creating a transmission protocol for Digital Travel Credentials (DTCs) for use at border control. All these documents are published as ICAO Technical Reports, which are then incorporated into ICAO Doc 9303, which will then be fast-tracked to ISO/IEC 7501 through the JTC1 liaison.

WG4 achieved to finalize the first part of ISO/IE 23220 series "Building blocks for identity management via mobile devices". The work on that series continues and application designers will benefit from those building blocks.

WG4 achieved to finalize ISO/IEC 7816-8 Amd 1 "Interoperability for the interchange of security operations using quantum safe cryptography". The interoperable use of "quantum safe cryptography" within smart cards influences other parts of the ISO/IEC 7816 series leading to further amendments. Application designers will benefit from this work by having more choices for cryptographic operations supported by smart cards.

WG 10 - ISO/IEC 18013-7 has successfully passed a DTS ballot, and publication is expected before the end of the calendar year. This specification expands the work of ISO/IEC 18013-5:2001 by standardizing the use of mdoc-based identity credentials over the Internet. Sharing a verifiable digital identity credential in a secure manner will have a significant positive impact on transactions conducted over the Internet.

WG11 published ISO/IEC 18584-1 and -2 in 2025 May. These are test standards for ISO/IEC 24787-1 and -2. These new standards are a major revision to the previous editions published in 2015. Other works remain on track. ISO/IEC 17839-1 is going to FDIS, ISO/IEC 17839-3 is going to DIS. The revision of ISO/IEC 7816-11 will start within the next 12 months. ISO/IEC 24787-1 and -2 were recently published in 2024 June, but a revision is expected due to technical comments received at the FDIS ballots.

WG12 is published by ISO/IEC 22460-2 and Part 1. ISO/IEC 22460-1 Part 1 pictogram is being promoted as the UAS pictogram proposed to TC145 from ISO TC20/SC16/WG4 to CD 25248 UAS identifier code and graphic symbol and will be reflected in ISO 22460-1 UAS License picture when completed.

4.0 Participation and cooperation/collaboration.

The work programme of SC17 continues to be well supported by experts although there is a noticeable shift away from representation from the payments cards industry, i.e. application users, towards manufacturers and infrastructure providers. This is only to be expected given that smart cards are a mature product and the early trail blazers and application developers have deskilled now they are able to rely on the manufacturers and card fabricators to provide them with commoditized products which in part, at least, is due to the success of standardization in which SC17 has played a major role.

There are currently 36 P-Members and 23-O Members of ISO/IEC JTC 1/SC 17. The membership is pretty stable, however in the past 12 months, Nigeria has upgraded from an O-Member to a P-Member.

The last two Plenary meetings were attended by approximately 50 delegates typically representing between 12 – 16 National Standards Bodies.

The following organizations work in liaison with SC 17:

Internal Liaisons	
ISO/IEC JTC 1/SC 6	Telecommunications and information exchange between systems
ISO/IEC JTC 1/SC 27	Information security, cybersecurity and privacy protection
ISO/IEC JTC 1/SC 31	Automatic identification and data capture techniques
ISO/IEC JTC 1/SC 37	Biometrics
ISO/IEC JTC 1/SC 41	Internet of things and digital twin
ISO/IEC JTC 1/SC 44	Consumer protection in the field of privacy by design
ISO/TC 20/SC 16	Uncrewed Aircraft Systems
ISO/TC 22/SC 31	Data communication
ISO/TC 68/SC 8	Reference data for financial services
ISO/TC 68/SC 9	Information exchange for financial services
ISO/TC 204	Intelligent transport systems
ISO/TC 215	Health informatics
ISO/TC 292	Security and resilience
ISO/TC 307	Blockchain and distributed ledger technologies

External Category A Liaison Organisations

EC - European Commission
Ecma International
EMVCo LLC
ETSI - European Telecommunications Standards Institute
Global Platform Inc.
ICAO - International Civil Aviation Organization
ICMA - International Card Manufacturers Association
Mastercard International
SBS - Small Business Standards
UATP - Universal Air Travel Plan
UNHCR - United Nations High Commissioner for Refugees
Visa International
External Category C Liaison Organisations
FIDO Alliance - The FIDO (Fast IDentity Online) Alliance
NFC Forum - Near Field Communication Forum
OIDF - The OpenID Foundation
UNECE - United Nations Economic Commission for Europe
Wi-Fi Alliance

5.0 Objectives and strategies to achieve them

WG10 is continuing to consider ways in which an identity, the cornerstone of a driving license, can be shared in digital form. The next step in this journey is the standardization of holder authentication by the holder's mobile device at time of a transaction, such that the issuer can beforehand (i.e. at provisioning) trust the solution. This work is being conducted in collaboration with WG4. WG10 is also working on a next revision of the base mDL standard (ISO/IEC 18013-5) to add additional (backwards compatible) functionality to the mdoc and to the mdoc exchange protocol.

WG4's objective is to finish its work on ISO/IEC 23220 series "Building blocks for identity management via mobile devices" as well as the interoperable use of quantum safe cryptography within smart cards.

WG11's ISO/IEC 17839 series are being used in the industry for payment (e.g. VISA, Mastercard). Members will continue to promote this technology and engage industry.

6.0 Factors affecting completion and adoption of the work program

Adoption of the standards that WG10 is working on could be negatively impacted by a recent court decision in Europe about referencing, in European legislation, standards that are not free. WG10 has already encountered an instance where an existing reference in draft legislation is being removed. In addition, and for some of the stakeholders involved specifically because the mDL standards are not free, competing standards are appearing from SDOs that do not charge for their products.

7.0 Structure, current projects, and publications

ISO/IEC JTC 1/SC 17 consists of the following WGs/other groups:

- CAG Chairman's Advisory Group
- AG 1 Registration Management Group
- WG 1 Physical characteristics and test methods for ID Cards
- WG 3 Traveller Identification
- WG 4 Generic interfaces and protocols for security devices
- WG 8 Integrated circuit cards without contacts
- WG10 Motor vehicle driver license and related documents
- WG11 Application of biometrics to cards and personal identification
- WG12 Drone license and Drone Security Module
- SG Study Group on Digital Wallets

ISO/IEC JTC 1/SC 17 has 31 active projects, full details are available at:

<https://www.iso.org/committee/45144/x/catalogue/p/0/u/1/w/0/d/0>

WG8 has developed an amendment to ISO/IEC 14443-4 regarding a problem which is arising in particular to the payment industry. Namely, payment transactions always consist of data transfer between a payment terminal and a payment card. That transfer needs some time which is very very short. Nevertheless, industries have found out that although that timing is very short, a risk remains under the current specifications in ISO/IEC 14443-4, that a relay attack enabling smuggling into that data transfer could be possible affecting a safe payment procedure. In order to avoid such occurrences in the future, WG8 has improved the specifications in ISO/IEC 14443-4 to shrink the timings of data transfer to a ultimate minimum. The related Amendment has been balloted as DIS. Publication is expected in early 2026.

Also very important for the industries is the new edition of ISO/IEC 10373-6, i.e. the test methods related to the standard series ISO/IEC 14443. That edition has been developed during the past two years with extreme care and huge efforts, as it consists of some 600 pages. Its publication was in February 2025.

WG11 – The 17839 series covers BSoC. The 24787 series covers data structures and security policies relevant to 17839 as well as applications that perform on-card biometric comparison. 18584 series is the corresponding test methods for 24787. 7816-11 is useful for off-card and on-card comparison and is referenced by ICAO doc 9303. TR 30117 is a very comprehensive guide for adoption of biometrics, and on and off-card comparison.

ISO/IEC JTC 1/SC 17 is responsible for 130 published standards, 10 of which were published in the last 12 months. Further information is available at:

<https://www.iso.org/committee/45144/x/catalogue/p/1/u/0/w/0/d/0>