



BUREAU OF INDIAN STANDARDS

Program of Work

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

Scope: Standardization in the area of: a) Smart Cards, Identification cards, security devices and interface associated with their use in inter-industry applications and international interchange. b) Data formats, data syntax, data structures, data encoding, and technologies for the process of automatic identification and data capture and of associated devices utilized in inter-industry applications and international business interchanges and for mobile applications.

Liaison: **ISO/IEC/JTC1 TC- SC-17 (P):** *Cards and security devices for personal identification* **ISO/IEC/JTC1 TC- SC-17 (P):** *Physical characteristics and test methods for ID-cards* **ISO/IEC/JTC1 TC- SC-31 (P):** *Automatic identification and data capture techniques*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS/ISO/IEC 10373-1 : 2020 ISO/IEC 10373-1:2020 ISO/IEC 10373-1:2020	Cards and security devices for personal identification Test methods Part 1: General characteristics		-	Identical under single numbering
2	IS/ISO/IEC 10373-2 : 2015 ISO/IEC 10373-2:2015 ISO/IEC 10373-2:2015	Identification cards - Test methods - Part 2: Cards With Magnetic Stripes		-	Identical under single numbering
3	IS/ISO/IEC 10373-3 : 2018 ISO/IEC 10373-3:2018 ISO/IEC 10373-3:2018	Cards and Security Devices for Personal Identification — Test Methods Part 3 Integrated Circuit Cards with Contacts and Related Interface Devices		-	Identical under single numbering
4	IS/ISO/IEC 10373-5 : 2014 ISO/IEC 10373-5 : 2014 Reviewed In : 2022 ISO/IEC 10373-5 : 2014	Identification Cards - Test Methods Part 5 Optical Memory Cards	May, 2022	-	Identical under dual numbering
5	IS/ISO/IEC 10373-6 : 2016 ISO/IEC 10373-6 : 2016	Identification Cards — Test Methods Part 6 Proximity Cards	May, 2022	-	Identical under dual numbering

	Reviewed In : 2022 ISO/IEC 10373-6 : 2016				
6	IS/ISO/IEC 10373-7 : 2019 ISO/IEC 10373-7:2019 ISO/IEC 10373-7:2019	Cards and security devices for personal identification Test methods Part 7: Contactless vicinity objects First Revision (First Revision)		-	Identical under single numbering
7	IS/ISO/IEC 10373-8 : 2011 ISO/IEC 10373-8:2011 ISO/IEC 10373-8:2011	Identification cards Test methods Part 8: USB-ICC		-	Identical under single numbering
8	IS/ISO/IEC 10373-9 : 2011 ISO/IEC 10373-9:2011 ISO/IEC 10373-9:2011	Identification Cards — Test Methods Part 9 Optical Memory Cards — Holographic Recording Method		-	Identical under single numbering
9	IS/ISO/IEC 10536-1 : 2000 ISO/IEC10536-1 : 2000 Reviewed In : 2022 ISO/IEC 10536-1 : 2000	Identification Cards — Contactless Integrated Circuit(s) Cards — Close-Coupled Cards Part 1 Physical Characteristics	May, 2022	-	Identical under single numbering
10	IS/ISO/IEC 10536-2 : 1995 ISO/IEC 10536-2 : 1995 Reviewed In : 2022 ISO/IEC 10536-2 : 1995	Identification Cards - Contactless Integrated Circuit (s) Cards Part 2 Dimensions and Location of Coupling Areas	May, 2022	-	Identical under single numbering
11	IS/ISO/IEC 10536-3 : 1996 ISO/IEC 10536-3 : 1996 Reviewed In : 2022 ISO/IEC 10536-3 : 1996	Identification Cards - Contactless Integrated Circuit (s) Cards Part 3 Electronic Signals and Reset Procedures	May, 2022	-	Identical under single numbering
12	IS 12736 : 1989 ISO 1831 Reviewed In : 2023 ISO 1831 : 1980	Printing specifications for optical character recognition	March, 2023	-	Identical under dual numbering
13	IS 12755 (Part 1) : 1989 ISO 1073/1 Reviewed In : 2021 ISO 1073-1 : 1976	Alphanumeric character sets for optical recognition: Part 1 character set OCR - A - Shapes and dimensions of the printed image	February, 2021	-	Identical under dual numbering
14	IS 12755 (Part 2) : 1989 ISO 1073/2 Reviewed In : 2021 ISO 1073 - 2 : 1976	Alphanumeric character sets for optical - Recognition: Part 2 character set OCR - B - Shapes and dimensions of the printed image	August, 2021	-	Identical under dual numbering
15	IS 14147 (Part 1) : 2021 ISO/IEC	Identification Cards Recording Technique Part 1 Embossing		-	Identical under dual numbering

	7811-1:2014 ISO/IEC7811-1 : 2018				
16	IS 14147 (Part 2) : 2021 ISO 7811-2:2014 ISO/IEC7811-2 : 2018	Identification cards Recording technique part 2 Magnetic stripe Low coercivity		-	Identical under dual numbering
17	IS 14147 (Part 7) : 2021 ISO/IEC 7811-7:2014 ISO/IEC 7811-7: 2018	Identification Cards Recording Technique Part 7 Magnetic Stripe High Coercivity High Density		-	Identical under dual numbering
18	IS 14172 : 2024 ISO/IEC 7810:2019 ISO/IEC 7810:2019	Identification cards Physical characteristics		-	Identical under dual numbering
19	IS 14172 : 2021 ISO/IEC 7810:2003 ISO/IEC 7810:2019	Identification Cards Physical Characteristics		-	Identical under dual numbering
20	IS 14173 (Part 1) : 2022 ISO/IEC 7812-1:2017 ISO/IEC 7812-1:2017	Identification cards Identification of issuers Part 1: Numbering system		-	Identical under dual numbering
21	IS 14173 (Part 2) : 2022 ISO/IEC 7812-2:2017 ISO/IEC 7812-2:2017	Identification cards Identification of issuers Part 2: Application and registration procedures		-	Identical under dual numbering
22	IS 14174 : 2013 ISO/IEC 7813:2006 Reviewed In : 2022 ISO/IEC 7813:2006	Information technology - Identification cards - Financial transaction cards (First Revision)	May, 2022	-	Identical under dual numbering
23	IS 14202 (Part 1) : 2014 ISO/IEC 7816-1:2011 Reviewed In : 2022 ISO/IEC 7816-1:2011	Identification cards - Integrated circuit cards: Part 1 cards with contacts - Physical characteristics (Second Revision)	May, 2022	-	Identical under dual numbering
24	IS 14202 (Part 2) : 2014 ISO 7816-2:2007 Reviewed In : 2022 ISO/IEC 7816-2:2007	Identification cards - Integrated circuit cards: Part 2 cards with contacts - Dimensions and location of the contacts (Second Revision)	May, 2022	-	Identical under dual numbering
25	IS 14202 (Part 3) : 2013 ISO/IEC 7816-3:2006 Reviewed In : 2022 ISO/IEC 7816-3:2006	Identification cards - Integrated circuit cards: Part 3 cards with contacts - Electrical interface and transmission protocols (First Revision)	May, 2022	-	Identical under dual numbering
26	IS 14202 (Part 4) : 2021 ISO/IEC7816-4 :	Identification cards Integrated circuit cards Part 4: Organization security and commands for		-	Identical under dual numbering

	2020 ISO/IEC7816-4 : 2020	interchange First Revision			
27	IS 14202 (Part 5) : 2013 ISO/IEC 7816-5:2004 Reviewed In : 2022 ISO/IEC 7816-5:2004	Identification cards - Integrated circuit cards: Part 5 registration of application providers (First Revision)	May, 2022	-	Identical under dual numbering
28	IS 14202 (Part 6) : 2018 ISO/IEC 7816-6:2016 Reviewed In : 2022 ISO/IEC 7816-6:2016	Identification cards — Integrated circuit cards — Part 6: Interindustry data elements for interchange	May, 2022	-	Identical under dual numbering
29	IS 14202 (Part 7) : 2013 ISO/IEC 7816-7:1999 Reviewed In : 2022 ISO/IEC 7816-7:1999	Identification cards - Integrated circuit cards: Part 7 interindustry commands for structured card query language (SCQL)	May, 2022	-	Identical under dual numbering
30	IS 14202 (Part 8) : 2021 ISO/IEC7816-8 : 2019 ISO/IEC7816-8 : 2019	Identification cards Integrated circuit cards Part 8: Commands and mechanisms for security operations First Revision		-	Identical under dual numbering
31	IS 14202 (Part 9) : 2021 ISO/IEC7816-9:201 7 ISO/IEC7816-9:201 7	Identification cards Integrated circuit cards Part 9: Commands for card management First Revision		-	Identical under dual numbering
32	IS 14202 (Part 10) : 2013 ISO/IEC 7816-10:1999 Reviewed In : 2022 ISO/IEC 7816-10:1999	Identification cards - Integrated circuit cards: Part 10 electronic signals and answer to reset for synchronous cards	May, 2022	-	Identical under dual numbering
33	IS 14202 (Part 11) : 2021 ISO/IEC7816-11 ISO/IEC7816-11 : 2017	Identification cards Integrated circuit cards Part 11: Personal verification through biometric methods First Revision		-	Identical under dual numbering
34	IS 14202 (Part 12) : 2014 ISO/IEC 7816-12:2005 Reviewed In : 2022 ISO/IEC 7816-12:2005	Identification cards - Integrated circuit cards: Part 12 cards with contacts - Usb electrical interface and operating procedures	May, 2022	-	Identical under dual numbering
35	IS 14202 (Part 13) : 2013 ISO/IEC	Identification cards - Integrated circuit cards: Part 13 commands for application management in a	May, 2022	-	Identical under dual numbering

	7816-13:2007 Reviewed In : 2022 ISO/IEC 7816-13:2007	multi - Application environment			
36	IS 14202 (Part 15) : 2022 ISO/IEC 7816-15:2016 ISO/IEC 7816-15:2016	Identification cards Integrated circuit cards Part 15: Cryptographic information application		-	Identical under dual numbering
37	IS/ISO/IEC 14443-1 : 2022 14443-1:2018 14443-1:2018	Cards and security devices for personal identification Contactless proximity objects Part 1: Physical characteristics		-	Identical under single numbering
38	IS/ISO/IEC 14443-2 : 2020 14443-2:2020 14443-2:2020	Cards and security devices for personal identification Contactless proximity objects Part 2: Radio frequency power and signal interface		-	Identical under single numbering
39	IS/ISO/IEC 14443-3 : 2018 14443-3:2018 14443-3:2018	Cards and security devices for personal identification Contactless proximity objects Part 3: Initialization and anticollision		-	Identical under single numbering
40	IS/ISO/IEC 14443-4 : 2018 14443-4:2018 14443-4:2018	Cards and security devices for personal identification Contactless proximity objects Part 4: Transmission protocol		-	Identical under single numbering
41	IS 15414 : 2018 ISO/IEC 4909 : 2006 Reviewed In : 2022 ISO/IEC 4909:2006	Identification cards - Financial transaction cards - Magnetic stripe data content for track 3 (First Revision)	May, 2022	-	Identical under dual numbering
42	IS/ISO/IEC 15693-1 : 2018 ISO/IEC 15693-1:2018 ISO/IEC 15693-1:2018	Cards and security devices for personal identification Contactless vicinity objects Part 1: Physical characteristics		-	Identical under single numbering
43	IS/ISO/IEC 15693-2 : 2022 ISO/IEC 15693-2:2019 ISO/IEC 15693-2:2019	Cards and security devices for personal identification Contactless vicinity objects Part 2: Air interface and initialization		-	Identical under single numbering
44	IS/ISO/IEC 15693-3 : 2019 ISO/IEC 15693-3:2019 ISO/IEC 15693-3:2019	Cards and security devices for personal identification Contactless vicinity objects Part 3: Anticollision and transmission protocol		-	Identical under single numbering
45	IS/ISO/IEC 15963-1 : 2020 ISO/IEC 15963-1:2020 ISO/IEC 15963-1:2020	Information technology Radio frequency identification for item management Part 1: Unique identification for RF tags numbering systems		-	Identical under single numbering
46	IS/ISO/IEC 15963-2 : 2020 ISO/IEC 15963-2:2020	Information technology $i_{\frac{1}{2}}$ Radio frequency identification for item management $i_{\frac{1}{2}}$ Part 2: Unique identification for RF tags		-	Identical under single numbering

	ISO/IEC 15963-2:2020	registration procedures			
47	IS 16695 (Part 1) : 2022	SCOSTA: Smart Card Operating System Template Architecture Part 1 Basic Command Set		-	Indigenous
48	IS 16695 (Part 2) : 2022	SCOSTA: Smart Card Operating System Template Architecture Part 2 Public Key Infrastructure		-	Indigenous
49	IS/ISO/IEC 18000-2 : 2022 ISO/IEC 18000-2 ISO/IEC 18000-2	Information technology Radio frequency identification for item management Part 2: Parameters for air interface communications below 135 kHz		-	Identical under single numbering
50	IS/ISO/IEC 18000-3 : 2022 ISO/IEC 18000-3:2010 ISO/IEC 18000-3:2010	Information technology Radio frequency identification for item management Part 3: Parameters for air interface communications at 1356 MHz		-	Identical under single numbering
51	IS/ISO/IEC 18000-4 : 2022 ISO/IEC 18000-4:2018 ISO/IEC 18000-4:2018	Information technology Radio frequency identification for item management Part 4: Parameters for air interface communications at 245 GHz		-	Identical under single numbering
52	IS/ISO/IEC 18000-6 : 2022 ISO/IEC 18000-6:2013 ISO/IEC 18000-6:2013	Information technology Radio frequency identification for item management Part 6: Parameters for air interface communications at 860 MHz to 960 MHz General		-	Identical under single numbering
53	IS/ISO/IEC 18000-7 : 2022 ISO/IEC 18000-7:2014 ISO/IEC 18000-7:2014	Information technology Radio frequency identification for item management Part 7: Parameters for active air interface communications at 433 MHz		-	Identical under single numbering
54	IS/ISO/IEC 18000-61 : 2012 ISO/IEC 18000-61:201 ISO/IEC 18000-61:201	Information technology Radio frequency identification for item management Part 61: Parameters for air interface communications at 860MHz to 960MHz Type A		-	Identical under single numbering
55	IS/ISO/IEC 18000-62 : 2012 ISO/IEC 18000-62:201 ISO/IEC 18000-62:201	Information technology Radio frequency identification for item management Part 62: Parameters for air interface communications at 860MHz to 960 MHz Type B		-	Identical under single numbering
56	IS/ISO/IEC 18000-64 : 2012 ISO/IEC 18000-64:201 ISO/IEC 18000-64:201	Information technology Radio frequency identification for item management Part 64: Parameters for air interface communications at 860MHz to 960 MHz Type D		-	Identical under single numbering
57	IS/ISO/IEC 18004 : 2015 18004:2015 ISO/IEC	Information technology Automatic identification and data capture techniques QR Code bar code symbology specification		-	Identical under single numbering

	18004:2015				
58	IS/ISO/IEC/TR 18268 : 2013 ISO/IEC TR 18268:2013 ISO/IEC TR 18268:2013	Identification Cards $i_c^{1/2}$ Contactless Integrated Circuit Cards $i_c^{1/2}$ Proximity Cards $i_c^{1/2}$ Multiple PICCs in a Single PCD Field		-	Identical under single numbering
59	IS/ISO/IEC 18745-1 : 2018 ISO/IEC 18745-1:2018 ISO/IEC 18745-1:2018	Test methods for machine readable travel documents MRTD and associated devices Part 1: Physical test methods for passport books durability		-	Identical under single numbering

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	LITD 16 (26371)	SCOSTA Smart Card Operating System Template Architecture Part 2 Public Key Infrastructure Amendment - 1
2	LITD 16 (26374)	SCOSTA Smart Card Operating System Part 3 Test Methodology
3	LITD 16 (26375)	SCOSTA Smart Card Operating System Part 4 Testing Methodology Public Key Infrastructure

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	LITD 16 (19783) Revision of: IS/ISO/IEC 10373:2016	Cards and security devices for personal identification - Test methods - Part 6 Contactless proximity objects First Revision
2	LITD 16 (19787) Revision of: IS 14202:2018	Identification Cards - Integrated Circuit Cards Part 6 Interindustry Data Elements for Interchange Third Revision
3	LITD 16 (19788)	Identification cards - Integrated circuit cards Part 12 cards with contacts - USB electrical interface and operating procedures Amendment - 1

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Total Published Standards:57 Total Standards Under development:6

Aspect Wise Report

Product : 38
 Code of Practices : 4
 Methods of Test : 5
 Terminology : 0
 Dimensions : 0
 System Standard : 1
 Safety Standard : 1
 Others : 8
 Service Specification : 0
 Process Specification : 1
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10690 : 1983	Unpunched Paper Cards Used For Information Processing
2	IS 10997 : 1984	Unpunched Paper Tape for Information Interchange
3	IS 14147 (Part 5) : 1994 Reviewed In : 2003	Identification cards - Recording technique Part 5 Location of read-write magnetic track - Tracks 3
4	IS 14173 : 1994 ISO 7812:1987 Reviewed In : 2016 ISO 7812:1987	Identification Cards - Numbering System and Registration Procedure for Issuer Identifier
5	IS 1885 (Part 13/Sec 1) : 1968	Electrotechnical vocabulary Part 13 - Telecommunication transmission lines and waveguides Sec 1 - General transmission lines
6	IS 1885 (Part 13/Sec 2) : 1967	Electrotechnical vocabulary Part 13 - Telecommunication transmission lines and waveguides Sec 2 - Microwave transmission lines and waveguides
7	IS 3826 (Part 1) : 1966	Connectors for frequencies below 3 MHz Part 1 General requirements and tests

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS/ISO/IEC 10373-1 : 2020 ISO/IEC 10373-1:2020	Cards and security devices for personal identification Test methods Part 1 General characteristics
2	IS/ISO/IEC 10373-3 : 2018 ISO/IEC 10373-3:2018	Cards and Security Devices for Personal Identification Test Methods Part 3 Integrated Circuit Cards with Contacts and Related Interface Devices
3	IS/ISO/IEC 10373-7 : 2019 ISO/IEC 10373-7:2019 63042-101	Cards and security devices for personal identification Test methods Part 7 Contactless vicinity objects First Revision First Revision
4	IS/ISO/IEC 10536-1 : 2000 ISO/IEC10536-1 : 2000 Reviewed In : 2022 ISO/IEC 10536-1 : 2000	Identification Cards Contactless Integrated Circuit s Cards Close-Coupled Cards Part 1 Physical Characteristics
5	IS/ISO/IEC 10536-2 : 1995 ISO/IEC 10536-2 : 1995 Reviewed In : 2022 ISO/IEC 10536-2 : 1995	Identification Cards - Contactless Integrated Circuit s Cards Part 2 Dimensions and Location of Coupling Areas
6	IS/ISO/IEC 10536-3 : 1996	Identification Cards - Contactless Integrated Circuit s Cards Part 3 Electronic Signals and Reset

	ISO/IEC 10536-3 : 1996 Reviewed In : 2022 ISO/IEC 10536-3 : 1996	Procedures
7	IS 14147 (Part 1) : 2021 ISO/IEC 7811-1:2014 ISO 10993-18:2020	Identification Cards Recording Technique Part 1 Embossing
8	IS 14147 (Part 2) : 2021 ISO 7811-2:2014 11801-1 : 2017	Identification cards Recording technique part 2 Magnetic stripe Low coercivity
9	IS 14147 (Part 7) : 2021 ISO/IEC 7811-7:2014 60974-12:2022	Identification Cards Recording Technique Part 7 Magnetic Stripe High Coercivity High Density
10	IS 14172 : 2024 ISO/IEC 7810:2019	Identification cards Physical characteristics
11	IS 14173 (Part 1) : 2022 ISO/IEC 7812-1:2017	Identification cards Identification of issuers Part 1 Numbering system
12	IS 14173 (Part 2) : 2022 ISO/IEC 7812-2:2017 IEC TS 63042-102:2021	Identification cards Identification of issuers Part 2 Application and registration procedures
13	IS 14174 : 2013 ISO/IEC 7813:2006 Reviewed In : 2022 ISO/IEC 7813:2006	Information technology - Identification cards - Financial transaction cards First Revision
14	IS 14202 (Part 1) : 2014 ISO/IEC 7816-1:2011 Reviewed In : 2022 ISO/IEC 7816-1:2011	Identification cards - Integrated circuit cards Part 1 cards with contacts - Physical characteristics Second Revision
15	IS 14202 (Part 2) : 2014 ISO 7816-2:2007 Reviewed In : 2022 ISO/IEC 7816-2:2007	Identification cards - Integrated circuit cards Part 2 cards with contacts - Dimensions and location of the contacts Second Revision
16	IS 14202 (Part 3) : 2013 ISO/IEC 7816-3:2006 Reviewed In : 2022 ISO/IEC 7816-3:2006	Identification cards - Integrated circuit cards Part 3 cards with contacts - Electrical interface and transmission protocols First Revision
17	IS 14202 (Part 4) : 2021 ISO/IEC7816-4 : 2020 ISO 22259:2019	Identification cards Integrated circuit cards Part 4 Organization security and commands for interchange First Revision
18	IS 14202 (Part 5) : 2013 ISO/IEC 7816-5:2004 Reviewed In : 2022 ISO/IEC 7816-5:2004	Identification cards - Integrated circuit cards Part 5 registration of application providers First Revision
19	IS 14202 (Part 6) : 2018 ISO/IEC 7816-6:2016 Reviewed In : 2022 ISO/IEC 7816-6:2016	Identification cards Integrated circuit cards Part 6 Interindustry data elements for interchange
20	IS 14202 (Part 8) : 2021 ISO/IEC7816-8 : 2019	Identification cards Integrated circuit cards Part 8 Commands and mechanisms for security operations First Revision
21	IS 14202 (Part 9) : 2021 ISO/IEC7816-9:2017	Identification cards Integrated circuit cards Part 9 Commands for card management First Revision
22	IS 14202 (Part 10) : 2013 ISO/IEC 7816-10:1999 Reviewed In : 2022 ISO/IEC	Identification cards - Integrated circuit cards Part 10 electronic signals and answer to reset for synchronous cards

	7816-10:1999	
23	IS 14202 (Part 11) : 2021 ISO/IEC7816-11 ISO 8102-6:2019	Identification cards Integrated circuit cards Part 11 Personal verification through biometric methods First Revision
24	IS 14202 (Part 12) : 2014 ISO/IEC 7816-12:2005 Reviewed In : 2022 ISO/IEC 7816-12:2005	Identification cards - Integrated circuit cards Part 12 cards with contacts - Usb electrical interface and operating procedures
25	IS 14202 (Part 13) : 2013 ISO/IEC 7816-13:2007 Reviewed In : 2022 ISO/IEC 7816-13:2007	Identification cards - Integrated circuit cards Part 13 commands for application management in a multi - Application environment
26	IS 14202 (Part 15) : 2022 ISO/IEC 7816-15:2016 ISO 21621:2021	Identification cards Integrated circuit cards Part 15 Cryptographic information application
27	IS 15414 : 2018 ISO/IEC 4909 : 2006 Reviewed In : 2022 ISO/IEC 4909:2006	Identification cards - Financial transaction cards - Magnetic stripe data content for track 3 First Revision
28	IS 16695 (Part 1) : 2022	SCOSTA Smart Card Operating System Template Architecture Part 1 Basic Command Set
29	IS 16695 (Part 2) : 2022	SCOSTA Smart Card Operating System Template Architecture Part 2 Public Key Infrastructure
30	IS/ISO/IEC 18000-2 : 2022 ISO/IEC 18000-2 ISO/TR 21958:2019	Information technology Radio frequency identification for item management Part 2 Parameters for air interface communications below 135 kHz
31	IS/ISO/IEC 18000-4 : 2022 ISO/IEC 18000-4:2018 ISO 9342 -2:2005	Information technology Radio frequency identification for item management Part 4 Parameters for air interface communications at 245 GHz
32	IS/ISO/IEC 18000-6 : 2022 ISO/IEC 18000-6:2013 ISO 24421:2023	Information technology Radio frequency identification for item management Part 6 Parameters for air interface communications at 860 MHz to 960 MHz General
33	IS/ISO/IEC 18000-7 : 2022 ISO/IEC 18000-7:2014 ISO 23033:2021	Information technology Radio frequency identification for item management Part 7 Parameters for active air interface communications at 433 MHz
34	IS/ISO/IEC 18000-61 : 2012 ISO/IEC 18000-61:201 IEC 63203-204-1: 2023	Information technology Radio frequency identification for item management Part 61 Parameters for air interface communications at 860MHz to 960MHz Type A
35	IS/ISO/IEC 18000-62 : 2012 ISO/IEC 18000-62:201	Information technology Radio frequency identification for item management Part 62 Parameters for air interface communications at 860MHz to 960 MHz Type B
36	IS/ISO/IEC 18000-64 : 2012 ISO/IEC 18000-64:201 ISO/TS 5111:2022	Information technology Radio frequency identification for item management Part 64 Parameters for air interface communications at 860MHz to 960 MHz Type D
37	IS/ISO/IEC 18004 : 2015 18004:2015 ISO 15069 : 2018	Information technology Automatic identification and data capture techniques QR Code bar code symbology specification
38	IS/ISO/IEC 18745-1 : 2018 ISO/IEC 18745-1:2018 IEC 61701 : 2020	Test methods for machine readable travel documents MRTD and associated devices Part 1 Physical test methods for passport books durability