

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### LITD 27 : Internet of Things and & Digital Twin

**Scope:** To develop standards in the field of Internet of Things and Digital Twin related technologies including sensor networks.

**Liaison:** **ISO/IEC/JTC1 TC- SC-41 (O): ISO/IEC JTC 1/SC 41 ISO/IEC/JTC1 TC- SC-41 (P): Internet of Things and Digital Twin ISO/IEC/JTC1 TC- SC-41 (P): Foundational IoT Standards ISO/IEC/JTC1 TC- SC-41 (P): IoT Interoperability ISO/IEC/JTC1 TC- SC-41 (P): IoT Applications ISO/IEC/JTC1 TC- SC-41 (P): Digital Twins ISO/IEC/JTC1 TC- SC-41 (P): Maritime, underwater IoT and Digital Twin applications ISO/IEC/JTC1 TC- SC-41 (P): Maritime and Underwater IoT Effects on Environment and Ecology linked to ISO/TC 43/SC 3 ISO/IEC/JTC1 TC- SC-41 (P): Embodied IoT Systems**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 19386:2025	Internet of Things (IoT) and Digital Twin — Vocabulary		-	
2	IS 19394:2025	Digital Twin — Concepts and Terminology		-	
3	IS 19395:2025	Internet of things (IoT) — Real-time IoT framework		-	
4	IS 19398:2025	Internet of Things (IoT) — Compatibility Requirements and Model for Devices within Industrial IoT Systems		-	
5	IS 19403:2025	Internet of Things (IoT) — Trustworthiness principles		-	
6	IS 19416:2025	Internet of Things (IoT) — Digital Twin — Use Cases		-	
7	IS 19629:2026	Internet of Things (IoT) - IoT for Stress Management , Good Health and Well-Being		-	
8	IS/ISO/IEC 21823-2:2020 ISO/IEC 21823-2:2020 <span style="color: green;">ISO/IEC 21823-2:2020</span>	Internet of Things IoT - Interoperability for IoT systems - Part 2: Transport interoperability		-	Identical under single numbering
9	IS/ISO/IEC 21823-3:2021 ISO/IEC 21823-3:2021 <span style="color: green;">ISO/IEC 21823-3:2021</span>	Internet of Things IoT - Interoperability for IoT systems - Part 3: Semantic interoperability		-	Identical under single numbering
10	IS/ISO/IEC 21823-4:2022	Internet of Things IoT - Interoperability for IoT systems -		-	Identical under single numbering

	ISO/IEC 21823-4:2022 ISO/IEC 21823-4:2022	Part 4: Syntactic interoperability			
11	IS/ISO/IEC 21823-1:2019 ISO/IEC 21823-1:2019 ISO/IEC 21823-1:2019	Internet of Things IoT - Interoperability for IoT systems - Part 1: Framework		-	Identical under single numbering
12	IS/ISO/IEC/TR 22417:2017 IS/ISO/IEC TR 22417 : 2017 ISO/IEC TR 22417:2017	Information Technology Internet of Things ( IOT ) IOT Use Cases	December, 2022	-	Identical under single numbering
13	IS/ISO/IEC 30118-6:2021 ISO/IEC 30118-6:2021 ISO/IEC 30118-6:2021	Information technology Open Connectivity Foundation OCF Specification Part 6: Resource to AllJoyn interface mapping specification		-	Identical under single numbering
14	IS/ISO/IEC 30118-1:2021 ISO/IEC 30118-1:2021 ISO/IEC 30118-1:2021	Information technology Open Connectivity Foundation OCF Specification Part 1: Core specification		-	Identical under single numbering
15	IS/ISO/IEC 30118-3:2021 ISO/IEC 30118-3:2021 ISO/IEC 30118-3:2021	Information technology Open Connectivity Foundation OCF Specification Part 3: Bridging specification		-	Identical under single numbering
16	IS/ISO/IEC 30118-4:2021 ISO/IEC 30118-4:2021 ISO/IEC 30118-4:2021	Information technology Open Connectivity Foundation OCF Specification Part 4: Resource type specification		-	Identical under single numbering
17	IS/ISO/IEC 30118-7:2021 ISO/IEC 30118-7:2021 ISO/IEC 30118-7:2021	Information technology Open Connectivity Foundation OCF Specification Part 7: Wi-Fi easy setup specification		-	Identical under single numbering
18	IS/ISO/IEC 30118-8:2021 ISO/IEC 30118-8:2021 ISO/IEC 30118-8:2021	Information technology Open Connectivity Foundation OCF Specification Part 8: OCF resource to oneM2M resource mapping specification		-	Identical under single numbering
19	IS/ISO/IEC 30118-9:2021 ISO/IEC 30118-9:2021 ISO/IEC 30118-9:2021	Information technology Open Connectivity Foundation OCF Specification Part 9: Core optional specification		-	Identical under single numbering
20	IS/ISO/IEC	Information technology Open		-	Identical under single

	30118-11:2021 ISO/IEC 30118-11:2021 ISO/IEC 30118-11:2021	Connectivity Foundation OCF Specification Part 11: Device to cloud services specification			numbering
21	IS/ISO/IEC 30118-12:2021 ISO/IEC 30118-12:2021 ISO/IEC 30118-12:2021	Information technology Open Connectivity Foundation OCF Specification Part 12: Cloud security specification		-	Identical under single numbering
22	IS/ISO/IEC 30118-14:2021 ISO/IEC 30118-14:2021 ISO/IEC 30118-14:2021	Information technology Open Connectivity Foundation OCF Specification Part 14: OCF resource to BLE mapping specification		-	Identical under single numbering
23	IS/ISO/IEC 30118-15:2021 ISO/IEC 30118-15:2021 ISO/IEC 30118-15:2021	Information technology Open Connectivity Foundation OCF Specification Part 15: OCF resource to EnOcean mapping specification		-	Identical under single numbering
24	IS/ISO/IEC 30118-16:2021 ISO/IEC 30118-16:2021 ISO/IEC 30118-16:2021	Information technology Open Connectivity Foundation OCF Specification Part 16: OCF resource to UPlus mapping specification		-	Identical under single numbering
25	IS/ISO/IEC 30118-13:2021 ISO/IEC 30118-13:2021 ISO/IEC 30118-13:2021	Information technology Open Connectivity Foundation OCF Specification Part 13: Onboarding tool specification		-	Identical under single numbering
26	IS/ISO/IEC 30118-5:2021 ISO/IEC 30118-5:2021 ISO/IEC 30118-5:2021	Information technology Open Connectivity Foundation OCF Specification Part 5: OCF device specification		-	Identical under single numbering
27	IS/ISO/IEC 30118-2:2021 ISO/IEC 30118-2:2021 ISO/IEC 30118-2:2021	Information technology Open Connectivity Foundation OCF Specification Part 2: Security specification		-	Identical under single numbering
28	IS/ISO/IEC 30118-10:2021 ISO/IEC 30118-10:2021 ISO/IEC 30118-10:2021	Information technology Open Connectivity Foundation OCF Specification Part 10: Cloud API for cloud services specification		-	Identical under single numbering
29	IS/ISO/IEC 30118-17:2021 ISO/IEC 30118-17:2021 ISO/IEC 30118-17:2021	Information technology Open Connectivity Foundation OCF Specification Part 17: OCF resource to Zigbee cluster mapping specification		-	Identical under single numbering

30	IS/ISO/IEC 30118-18:2021 ISO/IEC 30118-18:2021 ISO/IEC 30118-18:2021	Information technology Open Connectivity Foundation OCF Specification Part 18: OCF resource to Z-wave mapping specification	-	Identical under single numbering
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### Standards under Development

#### Projects Approved

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

#### Preliminary Draft Standards

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

#### 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 27 (27633)	Internet of things IoT Digital twin Use cases

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	LITD 27 (13077)	INFORMATION TECHNOLOGY INTERNET OF THINGS IOT IOT USE CASES
2	LITD 27 (20029)	Information technology Open Connectivity Foundation OCF Specification Part 1 Core specification
3	LITD 27 (20031)	Information technology Open Connectivity Foundation OCF Specification Part 2 Security specification
4	LITD 27 (20032)	Information technology Open Connectivity Foundation OCF Specification Part 3 Bridging specification
5	LITD 27 (20033)	Information technology Open Connectivity Foundation OCF Specification Part 4 Resource type specification
6	LITD 27 (20034)	Information technology Open Connectivity Foundation OCF Specification Part 5 OCF device specification
7	LITD 27 (20035)	Information technology Open Connectivity Foundation OCF Specification Part 6 Resource to AllJoyn interface mapping specification
8	LITD 27 (20036)	Information technology Open Connectivity Foundation OCF Specification Part 7 Wi-Fi easy setup specification
9	LITD 27 (20037)	Information technology Open Connectivity Foundation OCF Specification Part 8 OCF resource to oneM2M resource mapping specification
10	LITD 27 (20038)	Information technology Open Connectivity Foundation OCF Specification Part 9 Core optional specification
11	LITD 27 (20039)	Information technology Open Connectivity Foundation OCF Specification Part 10 Cloud API for

		cloud services specification
12	LITD 27 (20040)	Information technology Open Connectivity Foundation OCF Specification Part 11 Device to cloud services specification
13	LITD 27 (20041)	Information technology Open Connectivity Foundation OCF Specification Part 12 Cloud security specification
14	LITD 27 (20042)	Information technology Open Connectivity Foundation OCF Specification Part 13 Onboarding tool specification
15	LITD 27 (20043)	Information technology Open Connectivity Foundation OCF Specification Part 14 OCF resource to BLE mapping specification
16	LITD 27 (20045)	Information technology Open Connectivity Foundation OCF Specification Part 15 OCF resource to EnOcean mapping specification
17	LITD 27 (20047)	Information technology Open Connectivity Foundation OCF Specification Part 16 OCF resource to UPlus mapping specification
18	LITD 27 (20048)	Information technology Open Connectivity Foundation OCF Specification Part 17 OCF resource to Zigbee cluster mapping specification
19	LITD 27 (20049)	Information technology Open Connectivity Foundation OCF Specification Part 18 OCF resource to Z-wave mapping specification
20	LITD 27 (24904)	Internet of Things IoT - Interoperability for IoT systems - Part 1 Framework
21	LITD 27 (24905)	Internet of Things IoT - Interoperability for IoT systems - Part 2 Transport interoperability
22	LITD 27 (24906)	Internet of Things IoT - Interoperability for IoT systems - Part 3 Semantic interoperability
23	LITD 27 (24907)	Internet of Things IoT - Interoperability for IoT systems - Part 4 Syntactic interoperability
24	LITD 27 (27183)	Internet of Things IoT - IoT for Stress Management Good Health and Well-Being
25	LITD 27 (27629)	Internet of Things IoT and digital twin Vocabulary
26	LITD 27 (27630)	Internet of Things IoT Trustworthiness principles
27	LITD 27 (27631)	Internet of Things IoT Compatibility requirements and model for devices within industrial IoT systems
28	LITD 27 (27632)	Internet of Things IoT Real-time IoT framework
29	LITD 27 (27634)	Digital twin Concepts and terminology
30	LITD 27 (33368)	Internet of things IoT Data exchange platform for IoT services Part 1 General requirements and architecture
31	LITD 27 (33370)	Internet of things IoT Data exchange platform for IoT services Part 2 Transport interoperability between nodal points
32	LITD 27 (33371)	Internet of Things IoT Functional architecture for resource identifier interoperability
33	LITD 27 (33372)	Internet of things IoT Autonomous IoT object identification in a connected home Requirements and framework
34	LITD 27 (33374)	Digital twin - Maturity model and guidance for a maturity assessment

**Total Published Standards:30 Total Standards Under development:35**

### Aspect Wise Report

Product : 0  
 Code of Practices : 5  
 Methods of Test : 0  
 Terminology : 0  
 Dimensions : 0  
 System Standard : 18  
 Safety Standard : 0  
 Others : 0  
 Service Specification : 0  
 Process Specification : 0  
 Unclassified : 7

### Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
<i>No Records Found</i>		

**Annexure-II :List of Indian Product Standards**

<b>Sl. No.</b>	<b>IS No. &amp; Year</b>	<b>Title</b>
<i>No Records Found</i>		