

BUREAU OF INDIAN STANDARDS

Program of Work

LITD 31 : Cloud Computing, IT & Data Centres

Scope: To establish Indian standards in the field of a) Cloud Computing and Distributed Platforms including Foundational concepts and technologies, Operational issues, and Interactions among Cloud Computing systems and with other distributed systems b) Assessment methods, design practices, operation and management aspects to support resource efficiency, resilience and environmental sustainability for and by information, data centres and other facilities and infrastructure necessary for service provisioning

Liaison: **ISO/IEC/JTC1 TC- SC-38 (P): Cloud Computing Fundamentals (CCF)** **ISO/IEC/JTC1 TC- SC-38 (P): Data in cloud computing and related technologies** **ISO/IEC/JTC1 TC- SC-39 (P): Sustainability, IT and data centres** **ISO/IEC/JTC1 TC- SC-39 (P): Resource Efficient Data Centres** **ISO/IEC/JTC1 TC- SC-39 (P): Sustainable facilities and infrastructures** **ISO/IEC/JTC1 TC- SC-39 (P): Eco-design of digital services** **ISO/IEC/JTC1 TC- SC-38 (P): Cloud computing and distributed platforms**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS/ISO/IEC 17788:2014 17788 : 2014 17788 : 2014	Information technology Cloud computing Overview and vocabulary		-	Identical under single numbering
2	IS/ISO/IEC 19944-1:2020 19944 Part 1:2020 19944 Part 1:2020	Cloud computing and distributed platforms Data flow data categories and data use Part 1: Fundamentals		-	Identical under single numbering
3	IS/ISO/IEC 22123-3:2023	Information technology Cloud computing Part 3: Reference architecture		-	
4	IS/ISO/IEC 22123-1:2023 22123 Part 1:2021	Information Technology Cloud Computing Part 1: Vocabulary First Revision		-	Identical under single numbering
5	IS/ISO/IEC 22123-2:2023	Information technology Cloud computing Part 2: Concepts		-	
6	IS/ISO/IEC 22123-1:2021 22123 Part 1:2021 22123 Part 1:2021	Information technology Cloud computing Part 1: Vocabulary		-	Identical under single numbering
7	IS/ISO/IEC 22237-1:2021 ISO/IEC 22237-1:2021 ISO/IEC 22237-1:2021	Information Technology Data Centre Facilities and Infrastructures Part 1: General Concepts		-	Identical under single numbering

8	IS/ISO/IEC 22237-3:2021 ISO/IEC 22237-3:2021 ISO/IEC 22237-3:2021	Information Technology Data Centre Facilities and Infrastructures Part 3: Power Distribution		-	Identical under single numbering
9	IS/ISO/IEC 22237-4:2021 ISO/IEC 22237-4: 2021 ISO/IEC 22237-4: 2021	Information Technology Data Centre Facilities and Infrastructures Part 4: Environmental Control		-	Identical under single numbering
10	IS/ISO/IEC 30134-1:2016 ISO/IEC 30134-1 : 2016 ISO/IEC 30134-1:2016	Information Technology Data Centers Key Performance Indicators Part 1 Overview and General Requirements	March, 2023	-	Identical under single numbering
11	IS/ISO/IEC 30134-2:2016 ISO/IEC 30134-2 : 2016 ISO/IEC 30134-2 : 2016	Information Technology Data Centres Key Performance Indicators Part 2 Power Usage Effectiveness (PUE)	March, 2023	-	Identical under single numbering
12	IS/ISO/IEC 30134-3:2016 ISO/IEC 30134-3 : 2016 ISO/IEC 30134-3 : 2016	Information Technology Data Centres Key Performance Indicators Part 3 Renewable Energy Factor (REF)	March, 2023	-	Identical under single numbering
13	IS/ISO/IEC 30134-4:2017 ISO/IEC 30134-4 : 2017 ISO/IEC 30134-4 : 2017	Information Technology Data Centres Key Performance Indicators Part 4 IT Equipment Energy Efficiency for Servers (ITEEsv)	March, 2023	-	Identical under single numbering
14	IS/ISO/IEC 30134-5:2017 ISO/IEC 30134-5 : 2017 ISO/IEC 30134-5 : 2017	Information Technology Data Centres Key Performance Indicators Part 5 IT Equipment Utilization for Servers (ITEUsv)	March, 2023	-	Identical under single numbering
15	IS/ISO/IEC 30134-7:2023	Information technology — Data centres key performance indicators — Part 7: Cooling efficiency ratio (CER)		-	
16	IS/ISO/IEC 30134-6:2021 ISO/IEC 30134-6:2021 ISO/IEC 30134-6:2021	Information Technology Data Centres Key Performance Indicators Part 6: Energy Reuse Factor ERF		-	Identical under single numbering
17	IS/ISO/IEC 30134-8:2022 ISO/IEC 30134-8:2022 ISO/IEC 30134-8:2022	Information Technology Data Centres Key Performance Indicators Part 8: Carbon Usage Effectiveness CUE		-	Identical under single numbering
18	IS/ISO/IEC	Information Technology Data		-	Identical under single

	30134-9:2022 ISO/IEC 30134-9:2022 ISO/IEC 30134-9:2022	Centres Key Performance Indicators Part 9: Water Usage Effectiveness WUE			numbering
19	IS/ISO/IEC 5140:2024	Information technology Cloud computing Concepts for multi-cloud and the use of multiple cloud services		-	

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
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
1	LITD 31 (18278)	Information technology Cloud computing Overview and vocabulary
2	LITD 31 (18282)	Information technology Cloud computing Part 1 Vocabulary
3	LITD 31 (18285)	Cloud computing and distributed platforms Data flow data categories and data use Part 1 Fundamentals
4	LITD 31 (22428)	Information Technology Data Centre Facilities and Infrastructures Part 1 General Concepts
5	LITD 31 (22430)	Information Technology Data Centre Facilities and Infrastructures Part 3 Power Distribution
6	LITD 31 (22434)	Information Technology Data Centre Facilities and Infrastructures Part 4 Environmental Control
7	LITD 31 (22436)	Information Technology Data Centres Key Performance Indicators Part 6 Energy Reuse Factor ERF
8	LITD 31 (22438)	Information Technology Data Centres Key Performance Indicators Part 8 Carbon Usage Effectiveness CUE
9	LITD 31 (22439)	Information Technology Data Centres Key Performance Indicators Part 9 Water Usage Effectiveness WUE
10	LITD 31 (27451)	Information technology Cloud computing Concepts for multi-cloud and the use of multiple cloud services
11	LITD 31 (27452)	Information technology Cloud computing Part 2 Concepts
12	LITD 31 (27453)	Information technology Cloud computing Part 3 Reference architecture

13	LITD 31 (28574) Revision of: IS/ISO/IEC 22123:2021	Information Technology Cloud Computing Part 1 Vocabulary First Revision
14	LITD 31 (28575)	Information Technology- Data Centres -Key Performance Indicators Part 4 IT Equipment Energy Efficiency for Servers ITEEsv Amendment - 1
15	LITD 31 (28576)	Information Technology Data Centres Key Performance Indicators Part 5 IT Equipment Utilization for Servers ITEUsv Amendment - 1
16	LITD 31 (32893)	Cloud computing Multi-Cloud management Part 1 Overview and use cases
17	LITD 31 (32940)	Information technology Data centre facilities and infrastructures Part 2 Building construction
18	LITD 31 (32941)	Information technology Data centre facilities and infrastructuresPart 6 Security systems
19	LITD 31 (33090)	Information technology Data centres key performance indicators Part 7 Cooling efficiency ratio CER

Total Published Standards:12 Total Standards Under development:19

Aspect Wise Report

Product : 1
 Code of Practices : 1
 Methods of Test : 0
 Terminology : 1
 Dimensions : 0
 System Standard : 0
 Safety Standard : 0
 Others : 11
 Service Specification : 0
 Process Specification : 0
 Unclassified : 4

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 11713 (Part 1):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 1 layout
2	IS 11713 (Part 2):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 2 safety
3	IS 11713 (Part 3):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 3 Security considerations
4	IS 11713 (Part 4):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 4 services

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS/ISO/IEC 30134-1:2016 ISO/IEC 30134-1 : 2016 ISO/IEC 30134-1:2016	Information Technology Data Centers Key Performance Indicators Part 1 Overview and General Requirements