

Standardization Data Privacy & Cyber Security – An Overview

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Bureau of Indian Standards (BIS)

“National Standards Body of India”

Promote Harmonious development of the activities of Standardization, conformity assessment and quality assurance of goods, articles, processes , systems and services and for matters connected therewith or incidental thereto



Bureau of Indian Standards (BIS)

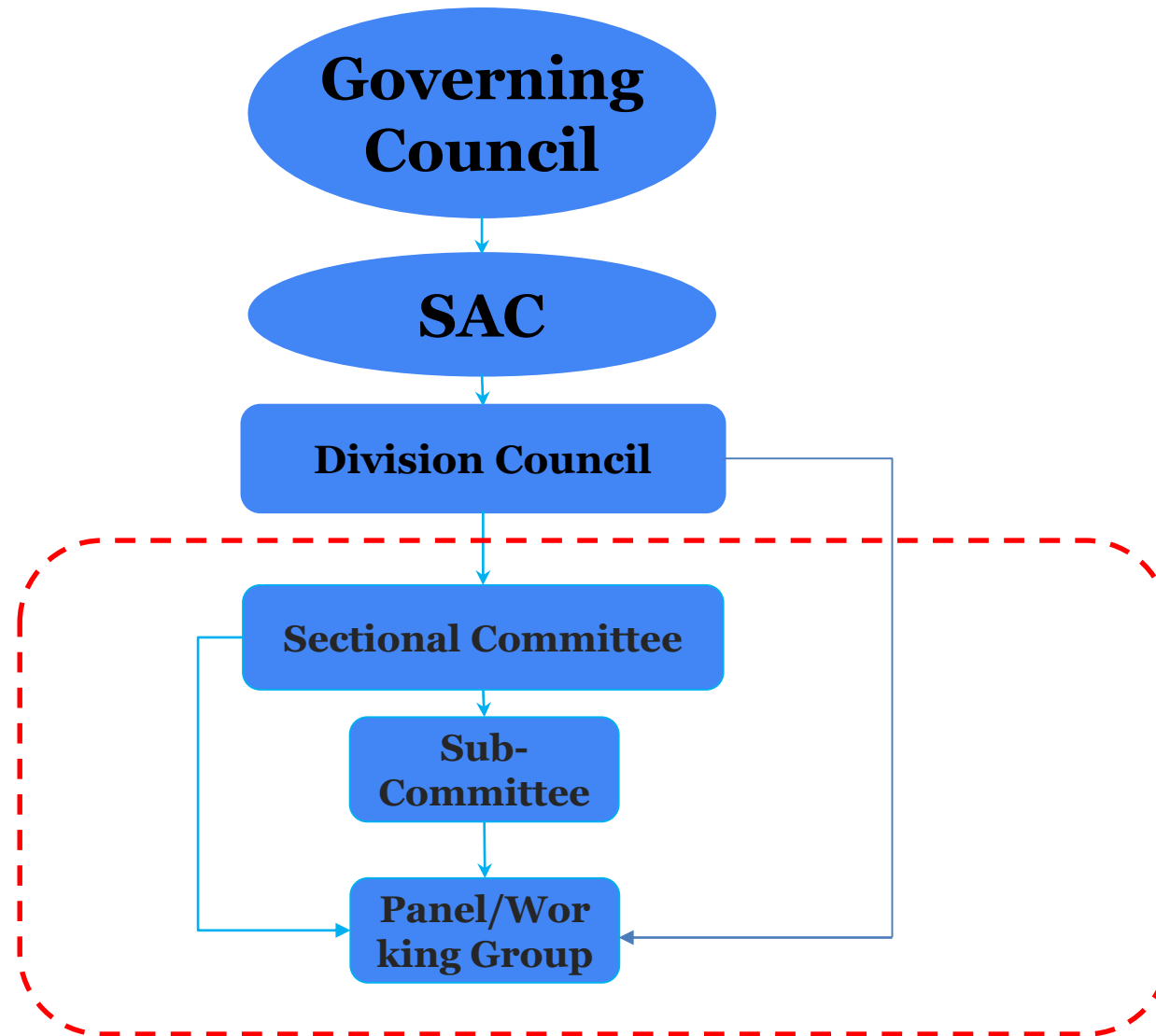
- National Standards Body of India
- Driven by **THE BUREAU OF INDIAN STANDARDS ACT, 2016**
- BIS Act CHAPTER III
- 10 (1) - The standards established by the Bureau shall be the Indian Standards
- 10 (2) The Bureau may—
establish, publish, review and promote the Indian Standard, in relation to any goods, article, process, system or service in such manner as may be prescribed;

BIS – Core activities

- **Standards Formulation**
- Conformity Assessment
 - Product certification scheme I
 - Registration scheme
 - Hallmarking
 - System Certification
- Testing
- Training

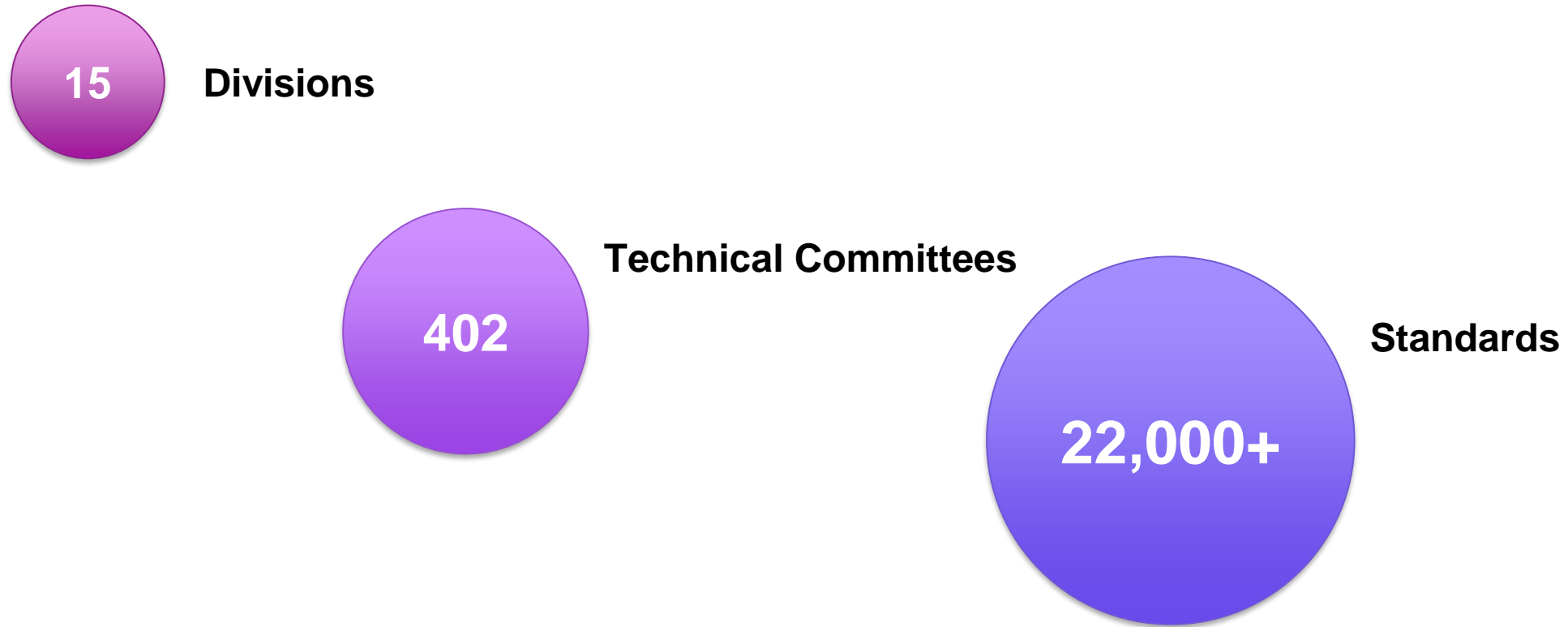


Standards Formulation Structure



SAC: Standards Advisory Committee

BIS Standards Development at a Glance



Technical Divisions in BIS

1. Civil Engineering (CED)
2. Chemical (CHD)
3. **Electro-technical (ETD)**
4. Food and Agriculture (FAD)
5. **Electronics and IT (LITD)**
6. Mechanical Engineering (MED)
7. Medical Equipment & Hospital Planning (MHD)
8. Management and Systems (MSD)
9. Metallurgical Engineering (MTD)
10. Petroleum, Coal & Related Products (PCD)
11. Production and General Engineering (PGD)
12. **Transport Engineering (TED)**
13. Textile (TXD)
14. Water Resources (WRD)
15. **Service Sector (SSD)**

Standards Formulation - Electronics & IT

- **National Standards -**

In the field of Electronics and Information Technology -
formulated by LITDC (Electronics & IT Division Council)

- **International Standards -**

- ★ ISO International Organisation for Standardisation

- ★ IEC International Electrotechnical Commission

- ★ JTC 1 Joint Technical Committee of ISO & IEC



Stakeholders

- Government
- Regulators
- Industry
- Laboratories
- Research & Developments
- Consumers
- Academia



Standards National Action Plan (SNAP) 2022-27 Areas identified in ICT Sector

- Artificial Intelligence
 - Internet of Things
 - Blockchain and DLT
 - Big Data
 - Geographic Information System
 - Metaverse
 - Smart cities ICT
 - **Data privacy**
 - **Cyber security**
-
- **Mobile security guidelines**
 - **Data maturity assessment and data governance**
 - **Trustworthiness**
 - **Digitally delivered services**
 - Natural Language Processing
 - RFID/ Geo-tagging

IT Security and Privacy – Standards

- Security & Privacy
 - Physical World – Law of Land
 - Digital World – Standards in addition to Law of Land
- Standards
 - Framework for Best Practices
 - Security Assurance and Validation

IT Security and Privacy – Standards

LITD 17 Information Systems Security and Privacy

Scope:

- To prepare Indian Standards relating to security and privacy aspects of Information Systems

National Mirror Committee for

- ISO/IEC JTC1/SC27 ‘Information Security, cyber security and privacy protection’

IT Security and Privacy – Standards

- *ETD 18 Industrial Process Measurement And Control, Sectional Committee*

National Mirror Committee for

– IEC TC 65 Industrial Process Measurement And Control'

- *SSD 3 Banking and Financial Services*

National Mirror Committee for

– ISO TC 68 - Financial Services

IT Security and Privacy – Standards

- IS/ISO/IEC 27000/27001 series “Information Security Management Systems”
- IS/ISO/IEC 27032 “Cybersecurity-Guidelines for Internet security”
- IS/ISO/IEC TR 27103 “Cybersecurity and ISO and IEC Standards”
- IS/ISO/IEC TS 27100 “Cybersecurity — Overview and concepts”

IT Security and Privacy – Standards

- IS/ISO/IEC 27033 Series “Information Technology – Security Techniques - Network Security”
- IS/ISO/IEC 27034 Series “Information technology – Security techniques - Application Security”
- IS/ISO/IEC 27035 Series “Information technology – Security techniques - Information Security incident management”
- ISO/IEC 27400 Cybersecurity – IoT security and privacy – Guidelines

IT Security and Privacy – Standards

- IS 14990 ISO/IEC 15408-1 Series “Information technology - Security techniques - Evaluation criteria for IT Security”
- IS 15671 ISO/IEC 18045 Information technology - Security techniques - Methodology for IT Security evaluation
- IS/ISO/IEC 19896 Series “Competence Requirements for Information Security Testers and Evaluators”

IT Security and Privacy – Standards

- IS/IEC 62443 Series “Security for Industrial Automation and Control Systems”
- IS 16335 Power control systems - Security requirements
- IS 17428 Series “Data Privacy Assurance”- *being revised*
- IS 17737 Series “Mobile Device Security”

IT Security and Privacy – Under Development Standards

- ISO/IEC FDIS 27402 Cybersecurity – IoT security and privacy – Device baseline requirements
- ISO/IEC DIS 27403 Cybersecurity – IoT security and privacy – Guidelines for IoT-domotics
- ISO/IEC WD 27404 Cybersecurity – IoT security and privacy – Cybersecurity labelling framework for consumer IoT

IT Security and Privacy – Under Development Standards

- ISO/IEC WD 27090 Cybersecurity — Artificial Intelligence — Guidance for addressing security threats and failures in artificial intelligence systems
- ISO/IEC WD 27091 Cybersecurity and Privacy — Artificial Intelligence — Privacy protection

IT Security and Privacy – Under Development Standards

- Indian Standard being developed for **IoT Devices** by LITD 17/Panel 5 ‘IoT Security and Privacy’
- Wide circulation and webinar for draft standard held in 23rd May 2023
- Revised draft likely to be issued again in wide circulation by January 2024
- Indian Standard to be developed for **Management of Mobile Applications’ Permissions’**

Standardization is collaborative effort, *organizations willing to contribute* in standardization are encouraged to contact Bureau of Indian Standards (BIS).

There is **no membership fee**, you are expected to provide your regular inputs.



Thank you!



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