



DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : LITD 27/T-24907

Date : 22 February 2024

TECHNICAL COMMITTEE : Internet of Things and & Digital Twin, LITD 27

To,

All concerned

Dear Madam/Sir,

The following document has been prepared by the Internet of Things and & Digital Twin Sectional Committee, LITD 27. Please [click here](#) to view the document.

Document Number : LITD 27 (24907) WC

Title of the document : Internet of Things IoT - Interoperability for IoT systems - Part 4: Syntactic interoperability

Document Type : New Indian Standard

This document has following salient features which may require specific attention for your valuable comments:

- 1) The ISO/IEC 21823 series standards address issues that relate to interoperability both between different IoT systems and within a single IoT system. ISO/IEC 21823-1 [2] describes a general framework for interoperability for IoT systems. It includes a five facet model for interoperability that includes transport, syntactic, semantic, behavioural, and policy viewpoints.*
- 2) This document first provides the principle of how to achieve syntactic interoperability based on metamodel-driven approaches. In other words, the reason why the information exchange rules based on metamodels can support syntactic interoperability among different IoT systems will be elaborated. Secondly, requirements on information models such as metamodels and models of IoT systems including IoT devices are described. Features related to IoT devices such as the identifier, device type, setup environments, and functions need to be considered to accomplish syntactic interoperability among different information models utilized in IoT systems*

Please examine the document and share your comments regarding further improvement in the document.

Last date for sharing the comments is : 22 April 2024

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at litd27@bis.gov.in to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

**Yours faithfully,
(Reena Garg)
Head (Electronics and Information Technology Department)
Email: litd27@bis.gov.in**



व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : LITD 27/T-24907

दिनांक : 22-02-2024

तकनीकी समिति : Internet of Things and & Digital Twin Sectional Committee, LITD 27

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : LITD 27 (24907) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि : 22 April 2024

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है/हैं।

धन्यवाद।

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