EXHIBIT 9

STD.IEEE 100-ENGL 1996

4805702 0549468 458

IEEE Std 100-1996

The IEE Standard
Dictionary of Electrical
and Electronics Terms

Sixth Edition



Published by the Institute of Electrical and Electronics Engineers, Inc.

STD.IEEE 100-ENGL 1996 # 4805702 0549469 394 #

IEEE Std 100-1996

The IEEE Standard Dictionary of Electrical and Electronics Terms

Sixth Edition

Standards Coordinating Committee 10, Terms and Definitions Jane Radatz, Chair

This standard is one of a number of information technology dictionaries being developed by standards organizations accredited by the American National Standards Institute. This dictionary was developed under the sponsorship of voluntary standards organizations, using a consensus-based process.

ISBN 1-55937-833-6



Copyright The Institute of Electrical and Electronics Engineers, Inc.



Case 5:18-md-02834-BLF Document 400-9 Filed 04/08/19 Page 4 of 5

STD.IEEE 100-ENGL 1996 M 4805702 0549470 006 M

Introduction

Since the first edition in 1941 of the American Standard Definitions of Electrical Terms, the work now known as IEEE Std 100, The IEEE Standard Dictionary of Electrical and Electronics Terms, has evolved into the unique compendium of terms that it is today.

The current edition includes all terms defined in approved IEEE standards through December 1996. Terms are categorized by their technical subject area. They are also associated with the standards or publications in which they currently appear. In some cases, terms from withdrawn standards are included when no current source can be found. Earlier editions of IEEE Std 100 included terms from sources other than IEEE standards, such as technical journals, books, or conference proceedings. These terms have been maintained for the sake of consistency and their sources are listed with the standards in the back of the book.

The practice of defining terms varies from standard to standard. Many working groups that write standards prefer to work with existing definitions, while others choose to write their own. Thus terms may have several similar, although not identical, definitions. Definitions have been combined wherever it has been possible to do so by making only minor editorial changes. Otherwise, they have been left as written in the original standard.

Users of IEEE Std 100 occasionally comment on the surprising omission of a particular term commonly used in an electrical or electronics field. This occurs because the terms in IEEE Std 100 represent only those defined in the existing or past body of IEEE standards. To respond to this, some working groups obtain authorization to create a glossary of terms used in their field. All existing, approved standard glossaries have been incorporated into this edition of IEEE Std 100, including the most current glossaries of terms for computers and power engineering.

IEEE working groups are encouraged to refer to IEEE Std 100 when developing new or revised standards to avoid redundancy. They are also encouraged to investigate deficiencies in standard terms and create standard glossaries to alleviate them.

The sponsoring body for this document was Standards Coordinating Committee 10 on Definitions (SCC10), which consisted of the following members:

Jane Radatz, Chair

John W. Balde
Arthur Ballato
Bruce Barrow
William Carey
Frank A. Denbrock
Jay Forster

Chris Heegard
John Horch
J. L. Koepfinger
Allen H. Meitzler
Frank D. Myers
David E. Roberts

F. A. Saal Ralph M. Showers Edward N. Skomal Kenneth L. Swinth Raymond S. Turgel Edward F. Vance



STD.IEEE 100-ENGL 1996 📰 4805702 0549726 741 📰

data abstraction 251 data bit

See also: data type; logical data; null data; numeric data; pointer data. (B) (data management) (software) Anything observed in the documentation or operation of software that deviates from expectations based on previously verified software products or reference documents. Synonym: documentation. (C) 610.12-1990, 610.5-1990

data abstraction (A) (software) The process of extracting the essential characteristics of data by defining data types and their associated functional characteristics and disregarding representation details. See also: encapsulation; information hiding. (B) (software) The result of the process in definition (A).

(C) 610.12-1990

data-access operation A processor-initiated load, store, or lock that involves a data-format copy and (for lock operations) a data-update action (such as swap or add).

(C/MM) 1596.5-1993

data access register A register that is used for arithmetic associated with random-access of data. (C) 610.10-1994

data acquisition (station control and data acquisition) (supervisory control, data acquisition, and automatic control) The collection of data.

(PE/SWG/SUB) 999-1992, C37.1-1994, C37.100-1992

data acquisition system (1) (station control and data acquisition) (supervisory control, data acquisition, and automatic control) A system that receives data from one or more locations. See also: telemetering.

(PE/SUB) C37.1-1994

(2) A centralized system that receives data from one or more remote points—a telemetering system. Data may be transported by either analog or digital telemetering.

(PE/SWG) C37.100-1992

data administrator An individual who is responsible for the definition, organization, supervision, and protection of data within some organization. See also: database administrator.
 (C) 610.5-1990

data aggregate A collection of two or more data items that are treated as a unit. Synonyms: aggregate; group item. See also: composite data element. (C) 610.5-1990

data attribute A characteristic of a unit of data.

(C) 610.5-1990

data bank (A) A collection of data libraries. *Note:* A record contains one or more items, a file contains one or more records, a library contains one or more files, and a data bank contains one or more libraries. (B) A collection of data relating to a particular subject area. *Note:* The data may or may not be machine-readable.

(C) 610.5-1990

database (1) (A) (data management) (software) A collection of logically related data stored together in one or more computerized files. Note: Each data item is identified by one or more keys. See also: database management system. (B) (data management) (software) In CODASYL, the collection of all the record occurrences, set occurrences, and areas controlled by a specific schema. (C) 610.5-1990 (2) A collection of data fundamental to a system.

(C/SE) 1074-1995

(C) 610.5-1990

(3) A collection of related data stored in one or more computerized files in a manner that can be accessed by users or computer programs via a database management system.
(C/SE) J-STD-016-1995

database access method A technique for organizing and storing a physical database in computer storage. (C) 610.5-1990

database administration (DBA) The responsibility for the definition, operation, protection, performance, and recovery of a database. (C) 610.5-1990

database administrator (DBA) An individual who is responsible for the definition, operation, protection, performance, and recovery of a database. See also: data administrator.

database command language (DBCL) A procedural data manipulation language used to access a database through a database management system. See also: database manipulation

Copyright The Institute of Electrical and Electronics Engineers. Inc.

(C) 610 5-1900

database creation The process of naming, allocating space, formatting, and defining a database. See also: database definition; database design.

(C) 610.5-1990

database definition (A) The process of translating a conceptual schema for a database into a data storage schema. See also: database creation; database design; redefinition. (B) The result of such a translation. (C) 610.5-1990

database description language See: data definition language.

database design (A) The process of developing a conceptual schema for a database that will meet a user's requirements. Synonym: implementation design. See also: database creation; database definition. (B) The result of the process in definition (A).

(C) 610.5-1990

database engine A software engine that is specially designed for database applications; performs low-level database operations such as record creation, editing, and deletion. See also: relational engine.
 (C) 610.10-1994

database extract A file, each record of which contains data items selected from a database based on a particular criterion. (C) 610.5-1990

database integrity The degree to which the data in a database are current, consistent and accurate. See also: data integrity; database security; integrity.

(C) 610.5-1990

database key A field in a database that identifies a record in that database. (C) 610.5-1990

database management system (DBMS) (1) A computer system involving hardware, software, or both that provides a systematic approach to creating, storing, retrieving and processing information stored in a database. A DBMS acts as an interface between computers' programs and data files as well as between users and the database. It may include backup/recovery, checkpoint processing, and ad-hoc query capability.

(C) 610.5-1990

(2) An integrated set of computer programs that provide the capabilities needed to establish, modify, make available, and maintain the integrity of a database.

(C/SE) J-STD-016-1995

database manipulation language See: data manipulation language.

database organization The manner in which a database is structured; for example, a hierarchical organization, a relational organization. See also: reorganization.

(C) 610.5-1990

database record (A) A collection of data elements that are stored in a database. See also: record. (B) A collection of hierarchically dependent segments (one root and all its descendants) within a hierarchical database. See also: record.

(C) 610.5-1990

database reorganization See: reorganization.

database security The degree to which a database is protected from exposure to accidental or malicious alteration or destruction. See also: data security; database integrity.

(Č) 610.5-1990

database segment See: segment.

database server On a network, a server that provides access to a database at the record level; that is, the server sends and locks only the records affected by a particular requestor. See also: disk server; file server; mail server; network server; print server; terminal server.

(C) 610.7-1995

database sublanguage See: data sublanguage.

database system A software system that supports multiple applications using a common database. (C) 610.5-1990

Database Task Group (DBTG) A task group of the CODA-SYL Programming Language Committee that established a set of standards for specification and design of network database structures. See also: CODASYL database.

(C) 610.5-1990

data bit (1) A single entity of information that is transmitted

