



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17143.4-1997

**Information technology. Open Systems Interconnection.
Systems Management. Part 4: Alarm reporting function
(English Translation)**

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Foreword

This Standard identically adopts ISO/IEC 10164-4.1992 Information Technology - Open Systems Interconnection - Systems Management. Alarm Reporting Function - Technical Corrigendum 2 and ISO/IEC 10164-4.1992/Cor.1.1994 Information Technology - Open Systems Interconnection - Systems Management. Alarm Reporting Function - Technical modification 1. According to ISO/IEC 10164-4.1992/Cor.1.1994, this Standard deleted the restrictions on note in 8.1.2.12.

GB/T 17143 Information technology - Open Systems Interconnection - Systems Management consists of the following 8 parts.

- Part 1 (GB/T 17143.1). Object management function;

- Part 2 (GB/T 17143.2). State management function;
- Part 3 (GB/T 17143.3). Attributes for representing relationships;
- Part 4 (GB/T 17143.4). Alarm reporting function;
- Part 5 (GB/T 17143.5). Event report management function;
- Part 6 (GB/T 17143.6). Log control function;
- Part 7 (GB/T 17143.7). Security alarm reporting function;
- Part 8 (GB/T 17143.8). Security audit trail function.

Annex A of this Standard is informative.

This Standard was proposed by Ministry of Electronics Industry of the People's Republic of China.

This Standard shall be under the jurisdiction of Ministry of Electronics Industry Standardization Research Institute.

The drafting organizations of this Standard. Ministry of Electronics Industry Standardization Research Institute.

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Information technology - Open Systems

Interconnection - Systems Management

- Part 4. Alarm reporting function

1 Scope

This Standard defines a Systems Management Function that may be used by an application process in a centralized or decentralized management environment to interact for the purpose of systems management, as defined by GB/T 9387.4. This Standard defines a function which consists of generic definitions, services and functional units. This function is positioned in the application layer of the OSI reference model (GB 9387) and is defined according to the model provided by GB/T 17176 The role of systems management functions is described by GB/T 17142. The alarm notifications defined by this function provides information that a manager may need to act

upon pertaining to a system's operational condition and quality of service.

This Standard

- establishes user requirements for the alarm reporting function;
- establishes a model that relates the service and generic definitions provided by this function to user requirements;
- defines the service provided by the function;
- defines generic notification types and parameters documented in accordance with GB/T 17175.4
- specifies the protocol that is necessary in order to provide the service;
- specifies the abstract syntax necessary to identify and negotiate the functional unit in protocol;
- defines the relationship between this service and SMI notifications;
- specifies compliance requirements placed on other standards that make use of these generic definitions;
- defines relationships with other systems management functions;
- specifies conformance requirements.

This Standard does not

- define the nature of any implementation intended to provide the Alarm Reporting function;
- specify the manner in which management is accomplished by the user of the Alarm Reporting function;
- define the nature of any interactions which result in the use of the Alarm Reporting function;
- specify the services necessary for the establishment, normal and abnormal release of a management association;
- preclude the definition of further notification types;
- define managed objects.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

GB 9387-88 Information processing systems- Open Systems

interconnection - Basic Reference Model (idt ISO 7498.1984, eqv CCITT X.200.1988)

GB/T 9387.4-1996 Information processing systems - Open Systems

interconnection - Basic Reference Model - Part 4. Management framework (idt ISO/IEC 7498-4.1989, eqv CCITT X.700.1992)

GB/T 15129-94 Information processing systems-Open Systems

Interconnection-Service conventions (idt ISO/TR 8509.1987, eqv CCITT X.210.1988)

GB/T 16262-1996 Information processing system - Open systems

interconnection - Specification of abstract syntax notation one (ASN.1) (idt ISO/IEC 8824.1990, eqv CCITT X.208.1988)

GB/T 16263-1996 Information processing systems - Open systems

interconnection - Specification of basic encoding rules for abstract syntax notation one(ASN.1) (idt ISO/IEC 8825.1990, eqv CCITT X.209.1988)

GB/T 16644-1996 Information technology - Open systems interconnection

- Common management information service definition (idt ISO/IEC 9595.1991, eqv CCITT X.710.1991)

GB/T 17142-1997 Information technology--Open Systems Interconnection-

-Systems management overview (idt ISO/IEC 10040.1992)

GB/T 17143.2-1997 Information technology - Open Systems

Interconnection - Systems Management - Part 2. State management function