

# American National Standard

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468

.A8 A3  
#156

for information systems –

information resource dictionary system  
(IRDS)

Approved July 2, 1991

Secretariat: Computer and Business Equipment  
Manufacturers Association

Page 1 of 9 pages

## Amendments to ANSI X3.138-1988

*On the third page* of the foreword, add "Dana Marks" to list of Technical Committee X3H4 members.

*On page 1-vii,* line 16 from top, delete entry for 10.3.9. NOTE: See 1-375 below.

*On page 1-23,* delete line 23 from top.

*On page 1-27,* line 15 from bottom replace "... for an entity can defined..." with "... for an entity can be defined ..."

*On page 1-29,* line 1 from top, replace "(i) The entity's assigned-access-name ..." with "(i) The entity's access-name ..."

*On page 1-35,* after line 13 from bottom, insert "I date-time-literal 4.2"

*On page 1-48,* line 3 from top, replace "... See General Rule (7)." with "... See General Rule (6).";

delete lines 4 and 5 from top.

*On page 1-54,* line 9 from top, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED";

line 7 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"

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- On page 1-58,* line 2 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-60,* line 12 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-61,* line 2 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-63,* line 5 from top, replace "(3) Meta-entity-assigned-access-name..." with "(3) Existing-meta-entity-assigned-access-name ...";  
line 8 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-65,* line 3 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED";  
line 2 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-68,* line 11 from bottom, replace "... specified in meta-entity-list shall be" with "... specified in meta-entity-name-list shall be"
- On page 1-71,* line 8 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-85,* delete lines 13 and 14 from bottom;  
line 12 from bottom, replace "(3) ..." with "(2) ...";  
line 11 from bottom, replace "(4) ..." with "(3) ...";  
line 9 from bottom, replace "(5) ..." with "(4) ...";  
line 8 from bottom, replace "(6) ..." with "(5) ...";  
line 5 from bottom, replace "(7) ..." with "(6) ...";  
line 2 from bottom, replace "(8) ..." with "(7) ...";
- On page 1-86,* line 1 from top, replace "(9) ..." with "(8) ...";  
line 4 from top, replace "(10) ..." with "(9) ..."
- On page 1-99,* line 14 from bottom, replace "... General Rule (5) has been violated." with "... Syntax Rule (2) or General Rule (5) has been violated."
- On page 1-100,* lines 8, 9, and 10 from bottom, replace "If specified, using IRD-views-clause shall restrict the selection of entities which shall be included in the entity-list. No entity within the list shall be selected unless it is visible in at least one of the specified IRD-Views." with "If specified, using IRD-views-clause shall restrict the selection of entities. No entity shall be selected unless it is visible in at least one of the specified IRD-Views."
- On page 1-101,* replace first paragraph of Action (2) with "Entities shall be selected. If sort-clause is specified, any additional IRD information used to sort the entities shall also be obtained."
- On page 1-123,* delete line 16 from top, lines 1, 2, and 3 from bottom.
- On page 1-124,* line 1 from top, replace "(c)" with "(b)";  
line 4 from top, replace "(d)" with "(c)"

On page 1-136, after line 12 from top, add the following:

- (12) Error E01217: Attribute-group-type specified more than once in command. General Rule (1) of this command has been violated.

On page 1-137, after line 12 from top, add the following:

- (3) If the positional form of line-number-defaults is used, then start shall be less than the maximum number of lines for a text attribute.
- (4) If the positional form of line-number-defaults is used, then increment shall not exceed the implementation-defined maximum number of lines of text for a text attribute.
- (5) Increment shall not be zero;

line 17 from top, insert at end "If line-number-defaults is specified, and start and/or increment are null, then start and/or increment will be assigned implementation-dependent default values."

On page 1-138, after line 16 from top, add the following:

- (9) Error E01159: Invalid line number. Line number is not an integer or exceeds maximum allowed value. Syntax Rule (3) of this command-clause has been violated.
- (10) Error E01160: Invalid increment value. Increment value is not an unsigned integer, exceeds maximum value, or is zero. Syntax Rule (4) or (5) of this command-clause has been violated.

On page 1-150, after line 8 from bottom, add the following:

- (5) If the positional form of line-number-defaults is used, then start shall be less than the maximum number of lines for a text attribute.
- (6) If the positional form of line-number-defaults is used, then increment shall not exceed the implementation-defined maximum number of lines of text for a text attribute.
- (7) Increment shall not be zero.

On page 1-152, after last line, add the following:

- (11) Error E01159: Invalid line number. Line number is not an integer or exceeds maximum allowed value. Syntax Rule (5) of this command-clause has been violated.
- (12) Error E01160: Invalid increment value. Increment value is not an unsigned integer, exceeds maximum value, or is zero. Syntax Rule (6) or (7) of this command-clause has been violated.

On page 1-186, delete line 19 from top;

line 1 from bottom, replace "E(s) is an entity specified in the command-clause or in the specified list." with "E(s) is an entity specified in the command-clause."

On page 1-219, line 6 from bottom, replace "[ new-..." with "[ , new-..."

On page 1-220, line 7 from bottom, replace "[ modified-..." with "[ , modified-..."

On page 1-226, after line 5 from top, add the following:

- (3) If the positional form of line-number-defaults is used, then start shall be less than the maximum number of lines for a text attribute.
- (4) If the positional form of line-number-defaults is used, then increment shall not exceed the implementation-defined maximum number of lines of text for a text attribute.

- (5) Increment shall not be zero;

line 10 from top, insert at end "If line-number-defaults is specified, and start and/or increment are null, then start and/or increment will be assigned implementation-dependent default values."

*On page 1-227,* after line 10 from top, add the following:

- (8) Error E01159: Invalid line number. Line number is not an integer or exceeds maximum allowed value. Syntax Rule (3) of this command-clause has been violated.
- (9) Error E01160: Invalid increment value. Increment value is not an unsigned integer, exceeds maximum value, or is zero. Syntax Rule (4) or (5) of this command-clause has been violated.

*On page 1-235,* after line 17 from top, add the following:

- (5) If the positional form of line-number-defaults is used, then start shall be less than the maximum number of lines for a text attribute.
- (6) If the positional form of line-number-defaults is used, then increment shall not exceed the implementation-defined maximum number of lines of text for a text attribute.
- (7) Increment shall not be zero.

*On page 1-237,* After line 11 from bottom, add the following:

- (12) Error E01159: Invalid line number. Line number is not an integer or exceeds maximum allowed value. Syntax Rule (5) of this command-clause has been violated.
- (13) Error E01160: Invalid increment value. Increment value is not an unsigned integer, exceeds maximum value, or is zero. Syntax Rule (6) or (7) of this command-clause has been violated.

*On page 1-244,* line 4 from top, replace "can" with "are"

*On page 1-265,* line 11 from bottom, replace

6.19 6.21  
with  
6.7 6.11 6.19 6.21 6.109 6.112;

line 9 from bottom, replace  
6.20

with  
6.7 6.11 6.20 6.109 6.112

*On page 1-268,* line 5 from bottom, replace

6.5 6.9  
with  
6.5 6.6 6.9

*On page 1-301,* line 3 from bottom, replace "A list of variation-names for the entity-type being added" with "A list of variation-names for entities of the entity-type being added."

*On page 1-326,* replace current text of (7) with

- (7) Format. Each meta-attribute-type shall have one of five possible formats: integer (I), string (S), text (TE), date (D), or time (TI). Integer meta-attribute-types have valid values which can be specified as unsigned integers. String meta-attribute-types have values which can be either irds-names or short-string-literals. Text meta-attribute-types

are composed of one to an implementation-dependent maximum number of lines of text. Each line of text has a unique line-number. Date meta-attribute-types have values represented by the mask CCYY-MDD. Time meta-attribute-types have values represented by the mask HHMMSS.

NOTE: This correction ensures the consistency of the format of meta-attribute-type descriptions with the **FORMAT** meta-attribute-type itself;

line 4 from bottom, replace "... if the format is numeric or string." with "if the format is not text.";

line 2 from bottom, replace "... the format is numeric or string." with "the format is not text."

*On page 1-328,* line 8 from bottom, replace "T N/A ..." with "TE N/A ..."

*On page 1-329,* last line, replace "N 1 ..." with "I 1 ..."

*On page 1-330,* line 16 from top, replace "Identifies those meta-entities which ..." with "Identifies those meta-entities and meta-relationships which ...";

line 19 from bottom, replace "... allowed for numeric attribute-types." with "... allowed for integer attribute-types.";

line 12 from bottom, replace "N 5 ..." with "I 5 ...";

line 8 from bottom, replace "N 5 ..." with "I 5 ..."

*On page 1-332,* line 3 from top, replace "N 2 ..." with "I 2 ...";

line 14 from bottom, replace "N 1 ..." with "I 1 ...";

last line, replace "N 1 ..." with "I 1 ..."

*On page 1-333,* line 12 from top, replace "N 2 ..." with "I 2 ...";

line 23 from top, replace "N 2 ..." with "I 2 ...";

line 9 from bottom, replace "N 2 ..." with "I 2 ..."

*On page 1-334,* line 4 from top, replace "N 2 ..." with "I 2 ...";

line 15 from top, replace "N 2 ..." with "I 2 ...";

line 17 from bottom, replace "N 2 ..." with "I 2 ...";

line 5 from bottom, replace "N 2 ..." with "I 2 ..."

*On page 1-335,* line 8 from top, replace "N 1 ..." with "I 1 ...";

line 19 from top, replace "N 1 ..." with "I 1 ...";

line 14 from bottom, replace "N 3 ..." with "I 3 ..."

*On page 1-336,* line 12 from top, replace "N 1 ..." with "I 1 ...";

line 25 from top, replace "N 1 ..." with "I 1 ...";

line 7 from bottom, replace "N 1 ..." with "I 1 ..."

*On page 1-337,* line 7 from top, replace "N 1 ..." with "I 1 ...";

line 19 from top, replace "N 1 ..." with "I 1 ...";

line 7 from bottom, replace "N 1 ..." with "I 1 ..."

*On page 1-338,* line 6 from top, replace "N 1 ..." with "I 1 ..."

- On page 1-339,* line 19 from bottom, replace "N 1 ..." with "I 1 ...";  
line 8 from bottom, replace "T N/A ..." with "TE N/A ..."
- On page 1-342,* line 13 from top, replace "N 1 ..." with "I 1 ..."
- On page 1-343,* line 19 from bottom, replace "N 2 ..." with "I 2 ...";  
line 3 from bottom, replace "S 8 ..." with "D 8 ..."
- On page 1-345,* last line, replace "S 6 ..." with "TI 6 ..."
- On page 1-347,* line 5 from top, replace "N 1 ..." with "I 1 ..."
- On page 1-351,* line 4 from top, replace "Meta-Entity Type" with "Meta-Relationship Type"
- On page 1-353,* line 2 from top, replace "... Meta-Attribute-Type ..." with "... Meta-Attribute-Group ...";  
delete the last line.
- On page 1-354,* line 2 from top, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"
- On page 1-364,* line 2 from bottom, end line with close-quotation-mark.
- On page 1-365,* before line 16 from bottom, add the following:
- COMMON-TO-ENTITY-TYPES
- On page 1-366,* lines 17-19 from top, replace
- |  |                |     |
|--|----------------|-----|
|  | Implementation |     |
|  | Lock           | ... |
|  | OFF            |     |
- with
- |              |                |     |
|--------------|----------------|-----|
| Common To    | Implementation |     |
| Entity-types | Lock           | ... |
| YES          | OFF            |     |
- lines 10-12 from bottom, replace
- |  |                |     |
|--|----------------|-----|
|  | Implementation |     |
|  | Lock           | ... |
|  | OFF            |     |
- with
- |              |                |     |
|--------------|----------------|-----|
| Common To    | Implementation |     |
| Entity-types | Lock           | ... |
| YES          | OFF            |     |
- On page 1-367,* line 13 from bottom, replace "Valication-Type value" with "Validation-Type value"
- On page 1-373,* line 5 from bottom, replace "..., where the meta-entity of type..." with "..., where the meta-attribute of type..."
- On page 1-375,* delete section 10.3.9. NOTE: Section 10.3.9 is a duplicate of the correctly located section 11.2 on p. 1-376.
- On page 1-390,* column 2, after line 15 from top, add the following:
- date-time-literal
- On page 2-8,* line 15 from top, delete " , DOC-CON-IN-DOC";  
line 15 from bottom, delete " , ELE-CON-IN-DOC";  
line 2 from bottom, delete " , REC-CON-IN-DOC"



- On page 2-9,* line 12 from top, delete " , DOC-PRD-DOC";  
line 20 from bottom, delete " , FIL-PRD-DOC";  
line 13 from bottom, replace "Document-derived-from-record" with "Document  
Derived From Record";  
line 7 from bottom, delete " , REC-PRD-DOC"
- On page 2-10,* line 7 from top, delete " , ELE-CON-IN-ELE";  
line 20 from top, delete " , DOC-PRD-ELE";  
line 12 from bottom, delete " , ELE-PRD-ELE"
- On page 2-11,* line 2 from top, delete " , FIL-PRD-ELE";  
line 15 from top, delete " , REC-PRD-ELE";  
line 17 from bottom, delete " , ELE-ST-OF-ELE";  
line 4 from bottom, delete " , DOC-CON-IN-FIL"
- On page 2-12,* line 10 from top, delete " , ELE-CON-IN-FIL";  
line 20 from bottom, delete " , FIL-CON-IN-FIL";  
line 7 from bottom, delete " , REC-CON-IN-FIL"
- On page 2-13,* line 7 from top, delete " , DOC-PRD-FIL";  
line 20 from top, delete " , FIL-PRD-FIL";  
line 12 from bottom, delete " , ELE-A-K-OF-FIL"
- On page 2-14,* line 2 from top, delete " , ELE-S-K-OF-FIL";  
line 15 from top, delete " , MDL-CLD-BY-MDL";  
line 17 from bottom, delete " , MDL-CON-IN-MDL";  
line 4 from bottom, delete " , MDL-FR-MDL"
- On page 2-15,* line 10 from top, delete " , DOC-PR-BY-MDL";  
line 20 from bottom, delete " , ELE-PR-BY-MDL";  
line 7 from bottom, delete " , FIL-PR-BY-MDL"
- On page 2-16,* line 7 from top, delete " , REC-PR-BY-MDL";  
line 20 from top, delete " , MDL-CLD-BY-PGM";  
line 12 from bottom, delete " , PGM-CLD-BY-PGM"
- On page 2-17,* line 2 from top, delete " , MDL-CON-IN-PGM";  
line 15 from top, delete " , PGM-CON-IN-PGM";  
line 17 from bottom, delete " , PGM-FR-PGM";  
line 4 from bottom, delete " , DOC-PR-BY-PGM"
- On page 2-18,* line 10 from top, delete " , ELE-PR-BY-PGM";  
line 23 from top, delete " , FIL-PR-BY-PGM";  
line 7 from bottom, delete " , REC-PR-BY-PGM"
- On page 2-19,* line 7 from top, delete " , ELE-CON-IN-REC";

- line 20 from top, delete " , REC-CON-IN-REC";  
line 12 from bottom, delete " , DOC-PRD-REC"
- On page 2-20,* line 2 from top, delete " , FIL-PRD-REC";  
line 15 from top, delete " , REC-PRD-REC";  
line 17 from bottom, delete " , MDL-CON-IN-SYS";  
line 4 from bottom, delete " , PGM-CON-IN-SYS"
- On page 2-21,* line 10 from top, delete " , SYS-CON-IN-SYS";  
line 20 from bottom, delete " , SYS-FR-SYS";  
line 7 from bottom, delete " , DOC-PR-BY-SYS"
- On page 2-22,* line 7 from top, delete " , ELE-PR-BY-SYS";  
line 20 from top, delete " , FIL-PR-BY-SYS";  
line 12 from bottom, delete " , REC-PR-BY-SYS"
- On page 2-23,* line 2 from top, delete " , DOC-PR-BY-USR";  
line 15 from top, delete " , ELE-PR-BY-USR";  
line 17 from bottom, delete " , FIL-PR-BY-USR";  
line 4 from bottom, delete " , REC-PR-BY-USR"
- On page 2-24,* line 10 from top, delete " , DOC-R-OF-USR";  
line 20 from bottom, delete " , ELE-R-OF-USR";  
line 7 from bottom, delete " , FIL-R-OF-USR"
- On page 2-25,* line 7 from top, delete " , MDL-R-OF-USR";  
line 20 from top, delete " , PGM-R-OF-USR";  
line 12 from bottom, delete " , REC-R-OF-USR"
- On page 2-26,* line 2 from top, delete " , SYS-R-OF-USR";  
line 15 from top, delete " , MDL-RUN-BY-USR";  
line 17 from bottom, delete " , PGM-RUN-BY-USR";  
line 4 from bottom, delete " , SYS-RUN-BY-USR"
- On page 2-27,* line 4 from bottom, delete " , CLD-BY"
- On page 2-28,* line 10 from top, delete " , CON-IN";  
line 20 from bottom, delete " , PRD";  
line 7 from bottom, delete " , FR"
- On page 2-29,* line 7 from top, delete " , PR-BY";  
line 20 from top, delete " , R-OF";
- On page 2-31,* line 18 from bottom, replace "YES STRING ..." with "NO STRING ...";  
line 4 from bottom, replace "YES STRING ..." with "NO STRING ..."
- On page 2-39,* before line 4 from bottom, insert

#### COMMON-TO-ENTITY-TYPES



On page 2-40, lines 14-16 from top, replace

	Implementation	
	Lock	...
	OFF	

with

Common To	Implementation	
Entity-Types	Lock	...
YES	OFF	

lines 14-16 from bottom, replace

	Implementation	
	Lock	...
	OFF	

with

Common To	Implementation	
Entity-Types	Lock	...
YES	OFF	

lines 1-3 from bottom, replace

	Implementation	
	Lock	...
	OFF	

with

Common To	Implementation	
Entity-Types	Lock	...
YES	OFF	

On page 4-22, first line, replace "MODIFIED-BY" with "LAST-MODIFIED-BY";  
line 3 from top, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"

On page 4-35, line 21 from top, replace "MODIFIED-BY" with "LAST-MODIFIED-BY";  
line 12 from bottom, replace "DATE-TIME-MODIFIED" with "DATE-TIME-LAST-MODIFIED"

On page 5-36, delete line 5 from bottom.



## FIPS PUBLICATION CHANGE NOTICE

PUBLICATION TITLE

FIPS PUB 156, Information Resource Dictionary System (IRDS).

THIS OFFICE HAS A RECORD OF YOUR INTEREST IN RECEIVING CHANGES TO THE ABOVE FIPS PUBLICATION. THE CHANGE(S) INDICATED BELOW HAVE BEEN PROVIDED BY THE MAINTENANCE AGENCY FOR THIS PUBLICATION AND WILL BE INCLUDED IN THE NEXT PUBLISHED REVISION TO THIS FIPS PUBLICATION. QUESTIONS OR REQUESTS FOR ADDITIONAL INFORMATION SHOULD BE ADDRESSED TO THE MAINTENANCE AGENCY:

Department of Commerce  
National Institute of Standards and Technology  
Computer Systems Laboratory  
Gaithersburg, MD 20899

CHANGE ITEM(S)

Attached is a copy of American National Standard X3.138A-1991 which contains amendments to American National Standard X3.138-1988, Information Resource Dictionary System (IRDS). These amendments correct editorial errors and inconsistencies in X3.138-1988. X3.138A-1991 becomes an integral part of FIPS PUB 156, and, as such, is considered to be included whenever reference is made to FIPS PUB 156.

This change notice should be filed with FIPS PUB 156.

Attachment

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Copies of FIPS PUBS are available from:

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# Federal Register

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Monday  
October 25, 1993

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## Part IV

## Department of Commerce

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### Semiannual Regulatory Agenda

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This Federal Register notice provides information on the status of planned, proposed, and completed Federal Information Processing Standards (FIPS) that are developed by the National Institute of Standards and Technology (NIST).

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## DEPARTMENT OF COMMERCE (DOC)

## DEPARTMENT OF COMMERCE

## Office of the Secretary

## 13 CFR Ch. III

## 15 CFR Subtitle A; Subtitle B, Chs. I, II, III, VII, VIII, IX, XI, XII

## 19 CFR Ch. III

## 37 CFR Chs. I, IV, and V

## 48 CFR Ch. 13

## 50 CFR Chs. II, III, and VI

## Semiannual Agenda of Regulations

AGENCY: Office of the Secretary, Commerce.

ACTION: October 1993 regulatory agenda.

**SUMMARY:** In compliance with Executive Order (E.O.) 12291 entitled "Federal Regulation" and the Regulatory Flexibility Act (Pub. L. 96-354), the Department of Commerce, in April and October of each year, publishes in the Federal Register an agenda of the rulemaking actions covered by section 1 of E.O. 12291 that the Department plans to conduct or review over the next 12 months. Rulemaking actions are grouped according to prerulemaking, proposed rules, final rules, and rulemaking actions completed since the April 1993 agenda. The purpose of the agenda is to provide information to the public on regulations currently under review, being proposed, or issued by the Department. The agenda is intended to facilitate comments and views by interested members of the public.

The Department's October 1993 regulatory agenda includes regulatory activities that are expected to be conducted during the period October 1, 1993, through September 30, 1994.

**FOR FURTHER INFORMATION CONTACT:**

**Specific:** For additional information about specific regulatory actions listed in the agenda, contact the individual identified as the contact person.

**General:** Comments or inquiries of a general nature about the agenda should be directed to Michael A. Levitt, Assistant General Counsel for

Legislation and Regulation, U.S. Department of Commerce, Washington, DC 20230; telephone: 202-482-0846.

**SUPPLEMENTARY INFORMATION:** E.O. 12291 requires all executive agencies to publish semiannually an agenda of those regulations that are under consideration pursuant to this order. By memorandum of June 14, 1993, the Office of Management and Budget (OMB) issued guidelines and procedures for the preparation and publication of the October 1993 Unified Agenda of Federal Regulations. The Regulatory Flexibility Act, 5 U.S.C. 602(a), requires agencies to publish, in April and October of each year, a regulatory flexibility agenda which contains a brief description of the subject area of any rule which is likely to have a significant economic impact on a substantial number of small entities.

**Explanation of Information Contained in the Agenda**

Within the Department, the Office of the Secretary and various operating units may issue regulations. Operating units, such as the Economic Development Administration, the Bureau of Export Administration, the International Trade Administration, the National Institute of Standards and Technology (NIST), the National Oceanic and Atmospheric Administration (NOAA), and the Patent and Trademark Office, issue the greatest share of the Department's regulations.

A large number of regulatory actions reported in the agenda are proposed or final Federal Information Processing Standards (FIPS) issued by NIST under Public Law 100-235. FIPS consist of standards and guidelines to improve Federal Government use and management of computers and information technology. The standards, while often of great use to industry and the public, apply only to the Federal Government. In developing the standards and guidelines and in providing technical guidance and coordination to Federal agencies, NIST works closely with private industry standard-setting organizations.

Another large number of regulatory actions reported in the agenda deal with

fishery management programs of NOAA's National Marine Fisheries Service (NMFS). To avoid repetition of programs and definitions, as well as to provide some understanding of the technical and institutional elements of the NMFS programs, a section on "Explanation of Information Contained in NMFS Regulatory Entries" is provided below.

**Explanation of Information Contained in NMFS Regulatory Entries**

The Magnuson Fishery Conservation and Management Act of 1976 (16 U.S.C. 1801 *et seq.*) (Act) governs the management of fisheries within the Exclusive Economic Zone (EEZ). The EEZ refers to those waters from the outer edge of the State boundaries, generally 3 nautical miles, to a distance of 200 nautical miles. Fishery Management Plans (FMPs) are to be prepared for fisheries which require conservation and management measures. Regulations implementing these FMPs regulate domestic fishing and foreign fishing where permitted. Foreign fishing can be conducted in a fishery for which there is no FMP only if a preliminary fishery management plan has been issued to govern that foreign fishing. Under the Act, eight Regional Fishery Management Councils (Councils) prepare FMPs or amendments to FMPs for fisheries within their respective areas. In the development of such plans or amendments and their implementing regulations, the Councils are required by law to conduct public hearings on the draft plans and to consider the use of alternative means of regulating.

The Council process for developing FMPs and amendments makes it difficult for NMFS to determine the significance and timing of some regulatory actions under consideration by the Councils at the time the semiannual regulatory agenda is published.

The DOC October 1993 regulatory agenda follows.

Dated: August 25, 1993/

Carol C. Darr,  
Acting General Counsel.

DOC

## National Institute of Standards &amp; Technology—Proposed Rule Stage

Sequence Number	Title	Regulation Identifier Number
509	FIPS for POSIX System Administration .....	0693-AA71
510	FIPS for IRDS Export/Import File Format .....	0693-AA76
511	Proposed Revision of FIPS 71, Advanced Data Communication Control Procedures (ADCCP) .....	0693-AA98
512	Proposed FIPS for ODA Raster DAP .....	0693-AB12
513	Revision of FIPS 177, Initial Graphics Exchange Specification (IGES) .....	0693-AB13
514	Proposed FIPS for Administration Standards for the Telecommunications Infrastructure of Federal Buildings .....	0693-AB14

DOC

## National Institute of Standards &amp; Technology—Proposed Rule Stage (Continued)

Sequence Number	Title	Regulation Identifier Number
515	National Voluntary Laboratory Accreditation Program .....	0693-AB15
516	National Voluntary Conformity Assessment Systems Evaluation .....	0693-AB17
517	Proposed Revision of FIPS 173, Spatial Data Transfer Standard (SDTS) .....	0693-AB18
518	FIPS for Open Document Architecture (ODA), Interchange Format, Language, and Associated Profiles .....	0693-AB21

## National Institute of Standards &amp; Technology—Final Rule Stage

Sequence Number	Title	Regulation Identifier Number
519	Revision of FIPS 140, General Security Requirements for Equipment Using the Data Encryption Standard .....	0693-AA68
520	FIPS for POSIX Shell and Utility Application Interface for Computer Operating Systems Environments .....	0693-AA70
521	FIPS for Digital Signature Standard .....	0693-AA86
522	Fastener Quality .....	0693-AA90
523	FIPS for Automated Password Generator .....	0693-AA94
524	Proposed FIPS for ISDN .....	0693-AA96
525	Proposed FIPS for Standard Security Label Format for GOSIP .....	0693-AA99
526	Procedures for Registering Computer Security Objects .....	0693-AB02
527	FIPS for Standard Page Description Language .....	0693-AB03
528	FIPS for Integration Definition for Function Modeling (IDEF0) and Integration Definition for Information Modeling (IDEF1X) .....	0693-AB07
529	Proposed Reaffirmation of FIPS 46-1, Data Encryption Standard (DES) .....	0693-AB09
530	Proposed Revision of FIPS 158, the User Interface Component of the Applications Portability Profile .....	0693-AB10
531	Advanced Technology Program .....	0693-AB16
532	A Proposed FIPS for an Escrowed Encryption Standard (EES) .....	0693-AB19
533	Withdrawal of FIPS 30 and FIPS 53 Which Provided Standard Forms for Describing Computer Programs and Computer Magnetic Tape .....	0693-AB20

## National Institute of Standards &amp; Technology—Completed Actions

Sequence Number	Title	Regulation Identifier Number
534	FIPS 128-1, Computer Graphics Metafile (CGM) .....	0693-AA93
535	FIPS 180, Secure Hash Standard (SHS) .....	0693-AA97
536	FIPS 125-1, MUMPS (Massachusetts General Hospital Utility Multi-Programming System) .....	0693-AB00
537	FIPS 151-2, Portable Operating System Interface (POSIX)—System Application Program Interface (C Language) ..	0693-AB01
538	FIPS 127-2, Database Language SQL .....	0693-AB05

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**DEPARTMENT OF COMMERCE (DOC)**  
**National Institute of Standards & Technology (NIST)****Proposed Rule Stage**

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**509. FIPS FOR POSIX SYSTEM  
ADMINISTRATION****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None

**Abstract:** This standard will adopt a set of specifications on an interim basis to provide functional system administration requirements for POSIX operating system implementations. Actual utility names and options for system administration will be specified in a future revision to this FIPS. This standard will facilitate the interchange of computer programs among different vendor systems and architectures.

**Timetable:** Next Action Undetermined**Small Entities Affected:** None**Government Levels Affected:** Federal**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack,  
Computer Specialist, Department of  
Commerce, National Institute of  
Standards & Technology, B151  
Technology, Gaithersburg, MD 20899,  
301 975-2833

**RIN:** 0693-AA71

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**510. FIPS FOR IRDS EXPORT/IMPORT  
FILE FORMAT****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None

**Abstract:** This standard will adopt an American National Standard being developed by Standards Committee X3H4. The standard will specify the precise format of files used to exchange

information between IRDSs. The specification will complete the IRD-IRD Interface, the functionality of which is specified in FIPS PUB 156.

**Timetable:** Next Action Undetermined**Small Entities Affected:** None**Government Levels Affected:** Federal**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack,  
Computer Specialist, Department of  
Commerce, National Institute of  
Standards & Technology, B151  
Technology, Gaithersburg, MD 20899,  
301 975-2833

**RIN:** 0693-AA76



## DOC-NIST

## Proposed Rule Stage

**511. PROPOSED REVISION OF FIPS 71, ADVANCED DATA COMMUNICATION CONTROL PROCEDURES (ADCCP)**

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This revision will adopt revised international standards for data communications control procedures. This revision will facilitate the transfer and control of information across telecommunications links and improve interoperability between different equipment and systems.

**Timetable:**

Action	Date	FR Cite
NPRM	10/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA98

**512. PROPOSED FIPS FOR ODA RASTER DAP**

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This standard will specify an interchange format suitable for the transfer of raster images between systems designed for raster graphics applications. The standard will enable users to transfer documents between different equipment designed for raster processing.

**Timetable:**

Action	Date	FR Cite
NPRM	12/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151

Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB12

**513. REVISION OF FIPS 177, INITIAL GRAPHICS EXCHANGE SPECIFICATION (IGES)**

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This revision will update FIPS 177 by adopting revised voluntary industry specifications for IGES. The revision will enable the Federal Government to maintain compatibility with industry practices for the representation and exchange of product definition data used in computer-aided design and computer-aided manufacturing systems.

**Timetable:**

Action	Date	FR Cite
NPRM	12/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB13

**514. PROPOSED FIPS FOR ADMINISTRATION STANDARDS FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF FEDERAL BUILDINGS**

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This standard will adopt ANSI/TIA/EIA-606-1992, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings. The standard will provide the administrative requirements for the telecommunications equipment spaces, cable pathways, grounding, wiring, and termination hardware that support the distribution of information within a new, existing, or renovated office building or campus.

**Timetable:**

Action	Date	FR Cite
NPRM	12/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB14

**515. NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM**

Legal Authority: 15 USC 271 et seq

CFR Citation: 15 CFR 7; 15 CFR 285

Legal Deadline: None

**Abstract:** The NVLAP procedures will be redesignated as part 285 of title 15 of the Code of Federal Regulations and revised to: expand the procedures to include accreditation of calibration laboratories; update the procedures for compatibility with conformity assurance and assessment concepts; assure consistency with relevant International Organization for Standardization (ISO) documents (e.g., ISO guides 25, 38, 43, 58, and 9000); and facilitate and promote acceptance of calibration and test results between countries to avoid barriers to trade. Provisions in this regard will facilitate cooperation between laboratories and other bodies to assist in the exchange of information and experience, harmonize standards and procedures, and establish the basis for bilateral and multilateral agreements.

**Timetable:**

Action	Date	FR Cite
NPRM	07/27/93	58 FR 40087
NPRM Comment	10/12/93	58 FR 40087
Period End		
Final Action	12/00/93	

Small Entities Affected: Undetermined

Government Levels Affected: None

Sectors Affected: Multiple

**Agency Contact:** Albert Tholen, Chief, NVLAP, Department of Commerce, National Institute of Standards &

## DOC—NIST

## Proposed Rule Stage

Technology, TRF Bldg., Room A162,  
Gaithersburg, MD 20899, 301 975-4017  
RIN: 0693-AB15

#### 516. NATIONAL VOLUNTARY CONFORMITY ASSESSMENT SYSTEMS EVALUATION

**Legal Authority:** 15 USC 271 et seq

**CFR Citation:** 15 CFR 286

**Legal Deadline:** None

**Abstract:** The National Institute of Standards and Technology (NIST) will propose to establish the National Voluntary Conformity Assessment System Evaluation (NVCASE) Program. The program will enable the Department of Commerce, acting through NIST, to evaluate and recognize competently conducted conformity assessment activities. The results of NIST evaluations will provide a basis for the U.S. Government to assure foreign governments that qualified conformity assessment bodies are competent to satisfy their regulatory requirements. The program is complementary to those of other Federal agencies and is intended, together with those programs, to provide the basis for U.S. Government negotiations with foreign governments to gain their recognition of U.S.-based conformity assessment bodies as providing results acceptable for regulatory purposes. The program is intended to cover organizations engaged in product sample testing, product certification, and quality system registration and, most especially, their accreditors. NIST will offer its evaluations, based on publicly developed requirements, on a fee-for-service basis and will provide those meeting the requirements (cont)

#### Timetable:

Action	Date	FR Cite
NPRM	07/23/93	58 FR 39486
NPRM Comment Period End	10/06/93	58 FR 39486
Final Action	12/00/93	

**Small Entities Affected:** Undetermined  
**Government Levels Affected:** None  
**Sectors Affected:** Multiple

**Additional Information:** ABSTRACT CONT: with a certificate of recognition. NIST will maintain lists of all recognized organizations and, in the case of recognized accreditation bodies, lists of conformity assessment bodies accredited by them.

**Agency Contact:** Stanley Warshaw, Director, Office of Standards Services, Department of Commerce, National Institute of Standards & Technology, Administration Building, Room A603, Gaithersburg, MD 20899, 301 975-4000  
RIN: 0693-AB17

#### 517. • PROPOSED REVISION OF FIPS 173, SPATIAL DATA TRANSFER STANDARD (SDTS)

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This proposed revision to FIPS 173, Spatial Data Transfer Standard (SDTS), adds a Topological Vector Profile (TVP). The TVP is a limited subset of SDTS specifications for the transfer of vector data. FIPS 173 currently consists of three parts and provides specifications for the organization and structure of digital spatial data transfer, definition of spatial features and attributes, and data transfer encoding. The purpose of this standard is to promote and facilitate the transfer of digital spatial data between dissimilar computer systems. This proposed revision will supersede FIPS PUB 173 in its entirety.

#### Timetable:

Action	Date	FR Cite
NPRM	07/26/93	58 FR 38792
NPRM Comment Period End	10/25/93	58 FR 38792
Final Action	12/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal  
**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB18

#### 518. • FIPS FOR OPEN DOCUMENT ARCHITECTURE (ODA), INTERCHANGE FORMAT, LANGUAGE, AND ASSOCIATED PROFILES

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This FIPS will adopt International Organization for Standardization (ISO) 8613-1988 and the Stable On-going Implementation Agreements for Open Systems Interconnection Protocols developed by the NIST Workshop for Implementors of Open System Environments (OSE). This standard will promote the interchange of electronic documents between different document and text processing systems.

#### Timetable:

Action	Date	FR Cite
NPRM	10/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal

**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB21

### DEPARTMENT OF COMMERCE (DOC)

#### National Institute of Standards & Technology (NIST)

### Final Rule Stage

#### 519. REVISION OF FIPS 140, GENERAL SECURITY REQUIREMENTS FOR EQUIPMENT USING THE DATA ENCRYPTION STANDARD

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This revision will bring the standard up to date to cover new encryption applications and new

policies for testing for conformance to the standard.



## DOC—NIST

## Final Rule Stage

## Timetable:

Action	Date	FR Cite
NPRM	12/09/88	53 FR 49722
NPRM Comment Period End	03/09/89	53 FR 49722
NPRM	01/08/91	56 FR 681
NPRM Comment Period End	04/08/91	56 FR 681
Final Action	10/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA68

## 520. FIPS FOR POSIX SHELL AND UTILITY APPLICATION INTERFACE FOR COMPUTER OPERATING SYSTEMS ENVIRONMENTS

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This standard will adopt, on an interim basis, Draft 9 of the Institute of Electrical and Electronics Engineers (IEEE) Standard for Shell and Application Utility Interface for Computer Operating Systems Environments (IEEE 1003.2/POSIX Shell and Tools). This standard will extend the functionality of the POSIX standard by providing an interactive interface for users to control processing.

## Timetable:

Action	Date	FR Cite
NPRM	06/07/89	54 FR 24375
NPRM Comment Period End	09/05/89	54 FR 24375
Repeated NPRM	06/13/90	55 FR 23959
NPRM Comment Period End	09/11/90	

Next Action Undetermined

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151

Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA70

## 521. FIPS FOR DIGITAL SIGNATURE STANDARD

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This standard will specify a Digital Signature algorithm appropriate for digital signature applications. The standard will enable users to verify the integrity of the data and the origin of messages sent between computers and to verify the integrity of data and programs that are stored in computers.

## Timetable:

Action	Date	FR Cite
NPRM	06/30/91	56 FR 42980
NPRM Comment Period End	02/28/92	56 FR 61231
Final Action	12/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA86

## 522. FASTENER QUALITY

Significance: Regulatory Program

Legal Authority: PL 101-592

CFR Citation: 15 CFR 280

Legal Deadline: NPRM, Statutory, May 15, 1991.

**Abstract:** This rule will implement the Fastener Quality Act. In 1990, Congress enacted the Fastener Quality Act (the Act) to protect public safety, deter introduction of nonconforming fasteners into commerce, improve traceability of fasteners used in critical applications, and provide customers with greater assurance that fasteners meet stated specifications. The Act requires that certain fasteners sold in commerce conform to the specifications to which they are represented to be manufactured; provides for accreditation of laboratories engaged in fastener testing; and requires the

inspection, testing, and certification (in accordance with standardized methods) of fasteners used in critical applications.

## Timetable:

Action	Date	FR Cite
NPRM	08/17/92	57 FR 37032
NPRM Comment Period End	11/02/92	57 FR 37032
Final Action	10/00/93	

Small Entities Affected: Businesses

Government Levels Affected: None

Agency Contact: Stanley Warshaw, FQA Program Manager, Office of Standards Services, Department of Commerce, National Institute of Standards & Technology, Room A603 Administration, Gaithersburg, MD 20899, 301 975-4000

RIN: 0693-AA90

## 523. FIPS FOR AUTOMATED PASSWORD GENERATOR

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This standard will provide an algorithm that will be implemented in software systems. The algorithm will generate pronounceable passwords for authenticating users of an ADP system, or for authorizing access to system resources.

## Timetable:

Action	Date	FR Cite
NPRM	09/08/92	57 FR 40894
NPRM Comment Period End	12/07/92	
Final Action	10-05-93	58 FR 51802
Effective Date	03-09-94	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA94

## 524. PROPOSED FIPS FOR ISDN

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

## DOC—NIST

## Final Rule Stage

**Abstract:** This standard will define the generic protocols necessary to establish transparent Integrated Services Digital Network (ISDN) connections among Government networks and between Government and conformant common carrier networks. This standard will facilitate the interconnection of Federal telecommunications systems to standard ISDN services.

**Timetable:**

Action	Date	FR Cite
NPRM	01/13/92	57 FR 1255
NPRM Comment	04/13/92	57 FR 1255

Period End 10-05-93 58FR51804

Final Action 04-15-94  
Small Entities Affected: None

**Government Levels Affected:** Federal

**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA96

## 525. PROPOSED FIPS FOR STANDARD SECURITY LABEL FORMAT FOR GOSIP

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This standard will specify the format for security labels to be used with the Government Open Systems Interconnection Profile (GOSIP). Security labels will facilitate the institution of controls to prevent accidental or intentional disclosure, modification, or destruction of data.

**Timetable:**

Action	Date	FR Cite
NPRM	08/21/92	57 FR 37948
NPRM Comment	11/19/92	
Period End		
Final Action	12/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal

**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151

Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AA99

## 526. PROCEDURES FOR REGISTERING COMPUTER SECURITY OBJECTS

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This register will specify names that uniquely identify Computer Security Objects (CSOs), which will be used to support secure communication of data between systems. The unique names will be used to reference objects during the negotiation of security services for a transaction or application. The register will also be a repository of parameters associated with the registered object.

**Timetable:**

Action	Date	FR Cite
NPRM	08/11/92	57 FR 35787
NPRM Comment	11/09/92	
Period End		
Final Action	12/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal

**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB02

## 527. FIPS FOR STANDARD PAGE DESCRIPTION LANGUAGE

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** This standard will adopt the International Standards Organization International Electrotechnical Commission Standard Page Description Language (SPDL), ISO/IEC/DIS 10180, which defines a device-independent format for representing documents in their final fully formatted form, to printers or other presentation processes. It combines the image description technology of modern page description languages with a document structure which enables efficient processing and page image management.

**Timetable:**

Action	Date	FR Cite
NPRM	05/04/92	57 FR 19111
NPRM Comment	08/03/92	57 FR 19111
Period End		
Final Action	12/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal

**Sectors Affected:** 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB03

## 528. FIPS FOR INTEGRATION DEFINITION FOR FUNCTION MODELING (IDEFO) AND INTEGRATION DEFINITION FOR INFORMATION MODELING (IDEFIX)

**Legal Authority:** PL 100-235

**CFR Citation:** None

**Legal Deadline:** None

**Abstract:** Two FIPS will adopt nonproprietary IDEF modeling techniques developed by Government and industry for use in the analysis and development of information systems. The first FIPS will adopt the IDEF0 modeling methodology which produces a structured representation of the processes and functions carried out by an information system. The second FIPS will adopt the IDEF1X modeling methodology which produces an information model of the structure and semantics of the information used by a system.

**Timetable:**

Action	Date	FR Cite
NPRM	12/14/92	57 FR 59081
Correction Notice	12/29/92	57 FR 61967
NPRM Comment	03/15/93	57 FR 59081
Period End		
Final Action	10/00/93	

**Small Entities Affected:** None

**Government Levels Affected:** Federal

**Additional Information:** The December 14, 1992, Federal Register notice incorrectly listed RIN 0693-AB11 as the RIN for this action.

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of



## DOC—NIST

## Final Rule Stage

Standards & Technology, B151  
Technology, Gaithersburg, MD 20899,  
301 975-2333.

RIN: 0693-AB07

### 529. PROPOSED REAFFIRMATION OF FIPS 46-1, DATA ENCRYPTION STANDARD (DES)

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** A review will be conducted of Federal Information Processing Standard 46, Data Encryption Standard, which provides an algorithm to be implemented in electronic hardware devices and used for the cryptographic protection of computer data. The standard, which was issued in 1977 and reviewed in 1983 and 1987, will be reviewed again to assess the continued adequacy of the standard to protect computer data.

#### Timetable:

Action	Date	FR Cite
NPRM	09/11/92	57 FR 41727
NPRM Comment	12/10/92	
Period End		
Final Action	10/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2333

RIN: 0693-AB09

### FIPS 158-1 530. PROPOSED REVISION OF FIPS 158 THE USER INTERFACE COMPONENT OF THE APPLICATIONS PORTABILITY PROFILE

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This revision will adopt the X Protocol, Xlib Interface, X11 Intrinsics and Bitmap Distribution Format Specifications of the X-Window System, Version 11, Release 5 (X Window System is a trademark of the Massachusetts Institute of Technology (MIT)). This standard will assist computing professionals involved in

system and application software development and implementation.

#### Timetable:

Action	Date	FR Cite
NPRM	10/20/92	57 FR 47839
NPRM Comment	01/19/93	57 FR 47839
Period End	10-08-93	58FR52475
Final Action	05-02-93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2333

RIN: 0693-AB10

### 531. ADVANCED TECHNOLOGY PROGRAM

Legal Authority: 15 USC 278n

CFR Citation: 15 CFR 295

Legal Deadline: None

**Abstract:** The American Technology Prescience Act of 1992 (Public Law 102-245), made changes in the legal authority for the Advanced Technology Program that must be incorporated into the ATP program procedures. Changes address: (1) participation by foreign companies in ATP; (2) the establishment of a patent policy different from the governmentwide policy set out by the Bayh-Dole Act; and (3) a new requirement that "joint research and development ventures" be industry-led. Further, requirements for royalty-sharing by ATP recipients with the Federal Government for inventions funded under ATP have been repealed by the Act and are thus to be removed from the regulations. Similarly, ATP authority to provide direct funding to independent research organizations has been repealed, and appropriate revisions to the regulations are needed. Also, changes not required by the Act will be proposed, including changes to simplify and clarify the selection criteria and to streamline the internal operations of ATP, including the selection process.

#### Timetable:

Action	Date	FR Cite
NPRM	08/02/93	58 FR 41069
NPRM Comment	09/01/93	58 FR 41069
Period End		

Action	Date	FR Cite
NPRM Comment	09/03/93	58 FR 46919
Period Extended		
NPRM Comment	09/16/93	58 FR 46919
Period End		
Final Action	12/00/93	

Small Entities Affected: Undetermined

Government Levels Affected: None

Sectors Affected: Multiple

**Agency Contact:** George Uriano, Director, Advanced Technology Program, Department of Commerce, National Institute of Standards & Technology, Administration Bldg., Room A403, Gaithersburg, MD 20899, 301 975-5187

RIN: 0693-AB16

### 532. • A PROPOSED FIPS FOR AN ESCROWED ENCRYPTION STANDARD (EES)

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This FIPS will adopt specifications for a symmetric key encryption (and decryption) algorithm and a Law Enforcement Access Field (LEAF) method to be implemented in electronic devices. The standard will provide encryption protection for sensitive unclassified telecommunications data and allow for decryption of encrypted telecommunications when interception of the telecommunications is lawfully authorized.

#### Timetable:

Action	Date	FR Cite
NPRM	07/30/93	58 FR 40791
NPRM Comment	09/28/93	58 FR 40791
Period End		
Final Action	12/00/93	

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2333

RIN: 0693-AB19

## DOC—NIST

## Final Rule Stage

**533. ●WITHDRAWAL OF FIPS 30 AND FIPS 53 WHICH PROVIDED STANDARD FORMS FOR DESCRIBING COMPUTER PROGRAMS AND COMPUTER MAGNETIC TAPE****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None**Abstract:** FIPS 30, Software Summary for Describing Computer Programs, and FIPS 53, Transmittal Form for

Describing Computer Magnetic Tape File Properties, provided standard forms for describing computer programs and computer magnetic tape. These FIPS are being withdrawn because the standard forms are obsolete and no longer stocked by the General Services Administration.

**Timetable:**

Action	Date	FR Cite
Final Action	10/00/93	

**Small Entities Affected:** None**Government Levels Affected:** Federal**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833**RIN:** 0693-AB20**DEPARTMENT OF COMMERCE (DOC)****Completed Actions****National Institute of Standards & Technology (NIST)****534. FIPS 128-1, COMPUTER GRAPHICS METAFILE (CGM)****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None**Abstract:** This revised FIPS adopts the redesignated version of the CGM standard, known as ANSI/ISO 8632-1-4:1992, and adds a requirement for the use of profiles. A profile defines the options, elements, and parameters of ANSI/ISO 8632 necessary to accomplish a particular function and to maximize the probability of interchange between systems implementing the profile. The revised FIPS adopts MIL-D-28003A, Computer-Aided Acquisition and Logistics Support (CALS), as the first CGM Application Profile.**Timetable:**

Action	Date	FR Cite
NPRM	11/26/91	56 FR 59928
NPRM Comment Period End	02/24/92	56 FR 59928
Second NPRM	05/28/92	57 FR 21961
Second NPRM Comment Period End	07/10/92	57 FR 21961
Final Action	05/11/93	58 FR 27710
Final Action Effective	10/15/93	58 FR 27710

**Small Entities Affected:** None**Government Levels Affected:** Federal**Sectors Affected:** 357 Computer and Office Equipment**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833**RIN:** 0693-AA93**535. FIPS 180, SECURE HASH STANDARD (SHS)****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None**Abstract:** This standard adopts an algorithm which provides a formula for producing a numeric value (called a "message digest") of a message (or any digital information). This standard is used whenever a secure hash algorithm is needed to provide a mechanism to check the integrity of data.**Timetable:**

Action	Date	FR Cite
NPRM	01/31/92	57 FR 3747
NPRM Comment Period End	04/30/92	57 FR 3747
Final Action	05/11/93	58 FR 27712
Final Action Effective	10/15/93	58 FR 27712

**Small Entities Affected:** None**Government Levels Affected:** Federal**Sectors Affected:** 357 Computer and Office Equipment**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833**RIN:** 0693-AA97**536. FIPS 125-1, MUMPS (MASSACHUSETTS GENERAL HOSPITAL UTILITY MULTI-PROGRAMMING SYSTEM)****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None**Abstract:** This revision adopts American National Standard for MUMPS, ANSI/MDC X11.1-1990. This revision facilitates the interchange of application programs among different computer systems and improves the productivity of computer programmers.**Timetable:**

Action	Date	FR Cite
NPRM	05/28/92	57 FR 21963
NPRM Comment Period End	08/24/92	57 FR 21963
Final Action	06/10/93	58 FR 32518
Final Action Effective	12/10/93	58 FR 32518

**Small Entities Affected:** None**Government Levels Affected:** Federal**Sectors Affected:** 357 Computer and Office Equipment**Agency Contact:** Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833**RIN:** 0693-AB00**537. FIPS 151-2, PORTABLE OPERATING SYSTEM INTERFACE (POSIX)—SYSTEM APPLICATION PROGRAM INTERFACE (C LANGUAGE)****Legal Authority:** PL 100-235**CFR Citation:** None**Legal Deadline:** None**Abstract:** This revision adopts International Standard ISO/IEC 9945-1: 1990, Information Technology - Portable Operating System Interface (POSIX) - Part 1: System Application Program Interface (API) (C Language), which defines a C programming

## DOC-NIST

## Completed Actions

language source interface to an operating system environment. This standard facilitates the portability of application programs among different computer systems.

## Timetable:

Action	Date	FR Cite
NPRM	06/29/92	57 FR 28829
NPRM Comment Period End	09/28/92	57 FR 28829
Final Action	05/12/93	58 FR 27995
Final Action Effective	10/15/93	58 FR 27995

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of

Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB01

### 538. FIPS 127-2, DATABASE LANGUAGE SQL

Legal Authority: PL 100-235

CFR Citation: None

Legal Deadline: None

**Abstract:** This revision to FIPS 127-1, Database Language SQL, adopts the American National Standard: Database Language SQL (X3.135-1992). This revision to FIPS 127-1 provides a substantial, upward-compatible enhancement of Database Language SQL.

## Timetable:

Action	Date	FR Cite
NPRM	10/09/92	57 FR 44126
NPRM Comment Period End	12/08/92	57 FR 44126
Final Action	06/02/93	58 FR 31364
Final Action Effective	12/03/93	58 FR 31364

Small Entities Affected: None

Government Levels Affected: Federal

Sectors Affected: 357 Computer and Office Equipment

Agency Contact: Shirley Radack, Computer Specialist, Department of Commerce, National Institute of Standards & Technology, B151 Technology, Gaithersburg, MD 20899, 301 975-2833

RIN: 0693-AB05



CHICAGO, ILLINOIS

TABLE I		TABLE II	
Year	Value	Year	Value
1910	100	1910	100
1911	105	1911	105
1912	110	1912	110
1913	115	1913	115
1914	120	1914	120
1915	125	1915	125
1916	130	1916	130
1917	135	1917	135
1918	140	1918	140
1919	145	1919	145
1920	150	1920	150
1921	155	1921	155
1922	160	1922	160
1923	165	1923	165
1924	170	1924	170
1925	175	1925	175
1926	180	1926	180
1927	185	1927	185
1928	190	1928	190
1929	195	1929	195
1930	200	1930	200
1931	205	1931	205
1932	210	1932	210
1933	215	1933	215
1934	220	1934	220
1935	225	1935	225
1936	230	1936	230
1937	235	1937	235
1938	240	1938	240
1939	245	1939	245
1940	250	1940	250
1941	255	1941	255
1942	260	1942	260
1943	265	1943	265
1944	270	1944	270
1945	275	1945	275
1946	280	1946	280
1947	285	1947	285
1948	290	1948	290
1949	295	1949	295
1950	300	1950	300
1951	305	1951	305
1952	310	1952	310
1953	315	1953	315
1954	320	1954	320
1955	325	1955	325
1956	330	1956	330
1957	335	1957	335
1958	340	1958	340
1959	345	1959	345
1960	350	1960	350
1961	355	1961	355
1962	360	1962	360
1963	365	1963	365
1964	370	1964	370
1965	375	1965	375
1966	380	1966	380
1967	385	1967	385
1968	390	1968	390
1969	395	1969	395
1970	400	1970	400
1971	405	1971	405
1972	410	1972	410
1973	415	1973	415
1974	420	1974	420
1975	425	1975	425
1976	430	1976	430
1977	435	1977	435
1978	440	1978	440
1979	445	1979	445
1980	450	1980	450
1981	455	1981	455
1982	460	1982	460
1983	465	1983	465
1984	470	1984	470
1985	475	1985	475
1986	480	1986	480
1987	485	1987	485
1988	490	1988	490
1989	495	1989	495
1990	500	1990	500
1991	505	1991	505
1992	510	1992	510
1993	515	1993	515
1994	520	1994	520
1995	525	1995	525
1996	530	1996	530
1997	535	1997	535
1998	540	1998	540
1999	545	1999	545
2000	550	2000	550
2001	555	2001	555
2002	560	2002	560
2003	565	2003	565
2004	570	2004	570
2005	575	2005	575
2006	580	2006	580
2007	585	2007	585
2008	590	2008	590
2009	595	2009	595
2010	600	2010	600
2011	605	2011	605
2012	610	2012	610
2013	615	2013	615
2014	620	2014	620
2015	625	2015	625
2016	630	2016	630
2017	635	2017	635
2018	640	2018	640
2019	645	2019	645
2020	650	2020	650
2021	655	2021	655
2022	660	2022	660
2023	665	2023	665
2024	670	2024	670
2025	675	2025	675
2026	680	2026	680
2027	685	2027	685
2028	690	2028	690
2029	695	2029	695
2030	700	2030	700
2031	705	2031	705
2032	710	2032	710
2033	715	2033	715
2034	720	2034	720
2035	725	2035	725
2036	730	2036	730
2037	735	2037	735
2038	740	2038	740
2039	745	2039	745
2040	750	2040	750
2041	755	2041	755
2042	760	2042	760
2043	765	2043	765
2044	770	2044	770
2045	775	2045	775
2046	780	2046	780
2047	785	2047	785
2048	790	2048	790
2049	795	2049	795
2050	800	2050	800
2051	805	2051	805
2052	810	2052	810
2053	815	2053	815
2054	820	2054	820
2055	825	2055	825
2056	830	2056	830
2057	835	2057	835
2058	840	2058	840
2059	845	2059	845
2060	850	2060	850
2061	855	2061	855
2062	860	2062	860
2063	865	2063	865
2064	870	2064	870
2065	875	2065	875
2066	880	2066	880
2067	885	2067	885
2068	890	2068	890
2069	895	2069	895
2070	900	2070	900
2071	905	2071	905
2072	910	2072	910
2073	915	2073	915
2074	920	2074	920
2075	925	2075	925
2076	930	2076	930
2077	935	2077	935
2078	940	2078	940
2079	945	2079	945
2080	950	2080	950
2081	955	2081	955
2082	960	2082	960
2083	965	2083	965
2084	970	2084	970
2085	975	2085	975
2086	980	2086	980
2087	985	2087	985
2088	990	2088	990
2089	995	2089	995
2090	1000	2090	1000
2091	1005	2091	1005
2092	1010	2092	1010
2093	1015	2093	1015
2094	1020	2094	1020
2095	1025	2095	1025
2096	1030	2096	1030
2097	1035	2097	1035
2098	1040	2098	1040
2099	1045	2099	1045
2100	1050	2100	1050

The following text is a continuation of the data presented in the tables above, detailing the values for each year from 1910 to 2100. The values are presented in a columnar format, with the year on the left and the value on the right. The values increase linearly from 100 in 1910 to 1050 in 2100, with an increment of 5 for each year.

1910 100  
1911 105  
1912 110  
1913 115  
1914 120  
1915 125  
1916 130  
1917 135  
1918 140  
1919 145  
1920 150  
1921 155  
1922 160  
1923 165  
1924 170  
1925 175  
1926 180  
1927 185  
1928 190  
1929 195  
1930 200  
1931 205  
1932 210  
1933 215  
1934 220  
1935 225  
1936 230  
1937 235  
1938 240  
1939 245  
1940 250  
1941 255  
1942 260  
1943 265  
1944 270  
1945 275  
1946 280  
1947 285  
1948 290  
1949 295  
1950 300  
1951 305  
1952 310  
1953 315  
1954 320  
1955 325  
1956 330  
1957 335  
1958 340  
1959 345  
1960 350  
1961 355  
1962 360  
1963 365  
1964 370  
1965 375  
1966 380  
1967 385  
1968 390  
1969 395  
1970 400  
1971 405  
1972 410  
1973 415  
1974 420  
1975 425  
1976 430  
1977 435  
1978 440  
1979 445  
1980 450  
1981 455  
1982 460  
1983 465  
1984 470  
1985 475  
1986 480  
1987 485  
1988 490  
1989 495  
1990 500  
1991 505  
1992 510  
1993 515  
1994 520  
1995 525  
1996 530  
1997 535  
1998 540  
1999 545  
2000 550  
2001 555  
2002 560  
2003 565  
2004 570  
2005 575  
2006 580  
2007 585  
2008 590  
2009 595  
2010 600  
2011 605  
2012 610  
2013 615  
2014 620  
2015 625  
2016 630  
2017 635  
2018 640  
2019 645  
2020 650  
2021 655  
2022 660  
2023 665  
2024 670  
2025 675  
2026 680  
2027 685  
2028 690  
2029 695  
2030 700  
2031 705  
2032 710  
2033 715  
2034 720  
2035 725  
2036 730  
2037 735  
2038 740  
2039 745  
2040 750  
2041 755  
2042 760  
2043 765  
2044 770  
2045 775  
2046 780  
2047 785  
2048 790  
2049 795  
2050 800  
2051 805  
2052 810  
2053 815  
2054 820  
2055 825  
2056 830  
2057 835  
2058 840  
2059 845  
2060 850  
2061 855  
2062 860  
2063 865  
2064 870  
2065 875  
2066 880  
2067 885  
2068 890  
2069 895  
2070 900  
2071 905  
2072 910  
2073 915  
2074 920  
2075 925  
2076 930  
2077 935  
2078 940  
2079 945  
2080 950  
2081 955  
2082 960  
2083 965  
2084 970  
2085 975  
2086 980  
2087 985  
2088 990  
2089 995  
2090 1000  
2091 1005  
2092 1010  
2093 1015  
2094 1020  
2095 1025  
2096 1030  
2097 1035  
2098 1040  
2099 1045  
2100 1050