



NIST Special Publication 800
NIST SP 800-60r2 iwd

Guide for Mapping Types of Information and Systems to Security Categories

Initial Working Draft

Joint Task Force

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January 2024



U.S. Department of Commerce
Gina M. Raimondo, Secretary

National Institute of Standards and Technology
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Guide for Mapping Types of Information
and Systems to Security Categories

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Submit Comments

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National Institute of Standards and Technology
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100 Bureau Drive (Mail Stop 8930) Gaithersburg, MD 20899-8930

All comments are subject to release under the Freedom of Information Act (FOIA).

Abstract

NIST Special Publication (SP) 800-60 facilitates the application of appropriate levels of information security according to a range of levels of impact or consequence that may result from unauthorized disclosure, modification, or use of the information or systems. This publication provides a methodology to map types of information and systems to security categories (i.e., confidentiality, integrity, and availability) and impact levels (i.e., low, moderate, and high), a catalog of federal information types and recommended provisional impact levels.

Keywords

categorization; controlled unclassified information; cybersecurity; FISMA; information security; information taxonomy; information type; Risk Management Framework; RMF; security category; security categorization; system categorization.

Reports on Computer Systems Technology

The Information Technology Laboratory (ITL) at the National Institute of Standards and Technology (NIST) promotes the U.S. economy and public welfare by providing technical leadership for the Nation's measurement and standards infrastructure. ITL develops tests, test methods, reference data, proof of concept implementations, and technical analyses to advance the development and productive use of information technology. ITL's responsibilities include the development of management, administrative, technical, and physical standards and guidelines for the cost-effective security and privacy of other than national security-related information in federal information systems. The Special Publication 800-series reports on ITL's research, guidelines, and outreach efforts in information system security, and its collaborative activities with industry, government, and academic organizations.

Supplemental Content

A proposed update to the information types taxonomy is available for review and download at the NIST SP 800-60 Initial Working Draft Publication Details page:

<https://csrc.nist.gov/pubs/sp/800/60/r2/iwd>.

Note to Reviewers

NIST seeks to update and improve the guidance in Special Publication (SP) 800-60, *Guide for Mapping Types of Information and Information Systems to Security Categories*. Specifically, NIST seeks feedback on the current use, potential/proposed updates, and opportunities for ongoing improvement to SP 800-60.

NIST is proposing updates to the information types categorization methodology to better address privacy considerations during security categorization and align with updates in SP 800-37r2 (Revision 2), *Risk Management Framework for Information Systems and Organizations: A System Life Cycle Approach for Security and Privacy*. Additionally, NIST intends to update the information types taxonomy and provisional impact levels (Volume 2) to ensure that they are consistent with current federal information types, including the NARA CUI registry, and allow for a more user-friendly and useable experience.

We welcome any general feedback related to mapping types of information and systems to security categories, as well as responses to the following:

- How does your organization use SP 800-60?
- If applicable, how does your organization use SP 800-60 to address PII?
 - Does your organization currently use SP 800-122 to help categorize PII?
- NIST intends to incorporate relevant guidance from SP 800-122, *Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)*, into the new draft revision of SP 800-60 and withdraw SP 800-122. What guidance (or topic areas) are critical to include in an SP 800-60 update?
 - What are other privacy considerations during security categorization?
 - Are there other important relationships between privacy and information types that should be covered? If so, what should be highlighted?
- What currently works well in SP 800-60?
- What are opportunities for improvement?
- Any other feedback on:
 - Updates to the security categorization methodology
 - Preliminary analysis and taxonomy for the information types catalog
 - Proposed next steps

Following the feedback received on this pre-call for comments, NIST plans to issue an initial public draft update to SP 800-60. The methodology will be issued as a document for comment, and the information types and provisional impact levels will be issued in a spreadsheet format for comment and then via the Cybersecurity and Privacy Reference Tool when finalized.

Call for Patent Claims

This public review includes a call for information on essential patent claims (claims whose use would be required for compliance with the guidance or requirements in this Information Technology Laboratory (ITL) draft publication). Such guidance and/or requirements may be directly stated in this ITL Publication or by reference to another publication. This call also includes disclosure, where known, of the existence of pending U.S. or foreign patent applications relating to this ITL draft publication and of any relevant unexpired U.S. or foreign patents.

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Such statements should be addressed to: sec-cert@nist.gov

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1 1. Introduction

2 Identifying the information processed on a system is essential to the proper selection of
3 controls. Regardless of sector, organizations understand the impacts of confidentiality,
4 integrity, and availability on its information and systems. This publication provides a
5 methodology to map types of information and systems to security categories, a catalog of
6 federal information types, and recommended provisional impact levels.¹

7 1.1. Purpose and Applicability

8 *The revision of this section will include minor updates to the content included in [SP 800-60v1r1]*
9 *and is intentionally left out of this review cycle.*

10 1.2. Relationship to Other Documents

11 *The revision of this section will include minor updates to the content included in [SP 800-60v1r1]*
12 *and is intentionally left out of this review cycle.*

13 1.3. Document Organization

14 This document is organized as follows:

- 15 • **Section 2** provides an overview of the value of the categorization process to agency
16 missions, security and privacy programs, and overall information technology (IT)
17 management and describes the publication's role in the system development life cycle,
18 the certification and accreditation process, and the NIST Risk Management Framework
19 (RMF).
- 20 • **Section 3** provides the security objectives and corresponding security impact levels
21 identified in Federal Information Processing Standard (FIPS) 199, *Standards for Security*
22 *Categorization of Federal Information and Information Systems* [FIPS 199].
- 23 • The **References** section offers a complete list of cited works.
24 *Note: The revision of this section will include updates to reflect the latest terms used and*
25 *is intentionally left out of this review cycle.*
- 26 • **Appendix A** is the Glossary.
27 *Note: The revision of this section will include updates to reflect the latest terms used and*
28 *is intentionally left out of this review cycle.*
- 29 • **Appendix B** provides an overview of the Information Types Taxonomy and Provisional
30 Impact Levels.

¹ While this initial working draft does not include recommended provisional impact levels, it does provide an updated proposed information taxonomy of federal information types based on the [Office of Management and Budget Federal Enterprise Architecture \(FEA\) Business Reference Model \(BRM\) version 3.1](#) and the [National Archives and Records Administration \(NARA\) Controlled Unclassified Information \(CUI\) Registry Categories](#).

31 For a list of the proposed information types taxonomy in spreadsheet format, refer to
32 the SP 800-60 [Initial Working Draft Publication Details page](#).

33 This initial working draft only includes proposed updates for the information taxonomy for
34 consideration; draft provisional impact levels are intentionally not included at this stage. When
35 SP 800-60 is finalized, the information taxonomy and provisional impact levels will be published
36 and maintained as an online dataset through the [NIST Cybersecurity and Privacy Reference](#)
37 [Tool](#).

38 **2. The Fundamentals**

39 Identifying the information processed on a system is essential to the proper selection of
40 controls and ensuring the confidentiality, integrity, and availability of the system and its
41 information. National Institute of Standards and Technology (NIST) Special Publication (SP) 800-
42 60 has been developed to help Federal Government agencies categorize information and
43 systems.

44 **2.1. Role of Information Types and Security Categorization in the NIST Risk Management** 45 **Framework (RMF)**

- 46 • This document relies on tasks and outcomes from Prepare – System Level Step and
47 provides further guidance for Task C-2 of the Categorize step.
- 48 • This section will include an overview of how security categorization provides input into
49 all subsequent steps of the RMF.

50 **2.2. Security Categories and Objectives**

51 **2.2.1. Security Categories**

- 52 • This section will include an overview of Federal Information Processing Standard (FIPS)
53 199 [FIPS 199].

54 **2.2.2. Security Objectives and Types of Potential Losses**

- 55 • This section will include the definition of security objectives (confidentiality, integrity,
56 availability), definition from the Federal Information Security Modernization Act (FISMA)
57 2002 [44 U.S.C., Sec. 3542], and the corresponding [FIPS 199] definition.

58 **2.3. Security Categorization and Privacy**

59 **2.3.1. Relationship Between Security Risk and Privacy Risk**

- 60 • While security and privacy are independent and separate disciplines, their objectives
61 can overlap.
 - 62 ○ Security programs are responsible for protecting information and systems from
63 unauthorized access, use, disclosure, disruption, modification, or destruction
64 (i.e., unauthorized system activity or behavior) to provide confidentiality,
65 integrity, and availability.

- 66 ○ Privacy programs are responsible for managing the risks to individuals associated
67 with data processing throughout the information life cycle² and ensuring
68 compliance with applicable privacy requirements.
- 69 ○ Although privacy risks can also arise by means unrelated to security incidents,
70 this publication is focused on the overlap — namely, how the impact of security-
71 related privacy events (i.e., potential problems that individuals could experience
72 due to a loss of confidentiality, integrity, or availability) should be considered in
73 security categorizations.
- 74 ● Role of security objectives in protecting privacy
 - 75 ○ Security is one of the Fair Information Practice Principles (FIPPs) for privacy
76 defined by OMB.
 - 77 ○ Although security cannot fully address privacy risk, it supports other FIPPs.
- 78 ● Organizations determine how security and privacy work together to meet their specific
79 needs in context.
- 80 ● It is essential for organizations to take a coordinated approach to identifying and
81 managing security and privacy risks.

82 **2.3.2. Privacy and Information Types**

- 83 ● Many types of information may have privacy impacts, depending on the nature of data
84 processing, such as personal identity and authentication (e.g., Social Security Numbers,
85 names, dates of birth, places of birth, parents' names) and customer services (e.g.,
86 contact information, demographic information, complaints about interactions with
87 organizations).
- 88 ● Some information types may directly introduce privacy risks. Others may not introduce
89 privacy risks until combined with other information types or only under specific data
90 processing conditions.
- 91 ● An information type may be considered personally identifiable information (PII) in some
92 data processing environments and not in others.
- 93 ● These characteristics make it challenging to specify a list of information types that are
94 “always” a privacy-related information type or PII.
- 95 ● Even when an information type meets the OMB A-130 definition of PII,³ the context of
96 its use can alter the impact level.
 - 97 ○ For example, an organization may have three lists that contain the same PII data
98 fields (e.g., name, address, phone number). The potential impacts to the affected

² The information life cycle includes the creation, collection, use, processing, dissemination, storage, maintenance, disclosure, or disposal (collectively referred to as “processing”) of information.

³ “Personally identifiable information” means information that can be used to distinguish or trace an individual’s identity, either alone or when combined with other information that is linked or linkable to a specific individual.

99 individuals and the organization are significantly different for each of the three
100 lists.

- 101 1. People who subscribe to a general-interest newsletter produced by the
102 organization
- 103 2. People who have filed for retirement benefits
- 104 3. Individuals who work undercover in law enforcement

105 **2.3.3. Privacy Considerations During Security Categorization**

- 106 • Based on the relationship between cybersecurity and privacy risk described in Sec. 2.3.1,
107 categorization considers the adverse privacy impacts that relate to the loss of
108 confidentiality, integrity, or availability.
- 109 • Security categorization is informed by the privacy requirements of the system, the types
110 of information processed by the system, understanding how information is processed
111 throughout operations and the information life cycle, and how the nature of processing
112 may impact both organizations and individuals.
- 113 • Examples of some privacy considerations for each security objective (i.e., confidentiality,
114 integrity, availability)

115 **2.4. Impact Assessment**

116 **2.4.1. Impact Levels**

- 117 • Overview of FIPS 199 impact levels (i.e., Low, Moderate, and High)
- 118 • Application of FIPS to the security category of information

119 **2.4.2. Impact and the Information Life Cycle**

- 120 • Determining security and privacy impacts to organizations and individuals requires not
121 only identifying the information processed by a system but also how risk can change
122 based on the impacts of processing during each stage of the information life cycle (or
123 during “data processing”).
- 124 • Overview of the information life cycle, such as the stages through which information
125 passes (i.e., creation or collection, processing, dissemination, use, storage, and
126 disposition) to include destruction and deletion
- 127 • Example considerations for applying security impacts to the information life cycle

128 **2.5. Role in the System Development Life Cycle (SDLC)**

- 129 • When initial security categorization and subsequent updates to security categorization
130 can occur during the SDLC

131 **2.6. Uses of Categorization Information**

- 132 • This section will provide potential uses for categorization information, such as:
- 133 ○ Business impact analysis
 - 134 ○ Capital planning and investment control (CPIC) and enterprise architecture (EA)
 - 135 ○ System design
 - 136 ○ Contingency and disaster recovery planning
 - 137 ○ Information exchange agreements

138 **3. Assignment of Impact Levels and Security Categorization**

- 139 • This section provides a methodology for assigning security impact levels and security
140 categorizations for information types and systems consistent with the organization’s
141 assigned mission and business functions based on FIPS 199.

142 **3.1. Step 1: Identify Information Types**

- 143 • This section will be updated to better align with the structure and presentation of the
144 Steps and Tasks in the NIST RMF. It will identify the outcomes of each step/task,
145 potential inputs, expected outputs, relationship to the RMF (i.e., steps/tasks), primary
146 responsibilities, supporting roles, and additional discussions.
- 147 • Task 1: Identify information types that are input into, stored, processed, and/or output
148 from the system.

149 **3.2. Step 2: Determine Information Type Impact Level**

- 150 • Task 1: Select Provisional Impact Level (if applicable)
- 151 • Task 2: Tailor Provisional Impact Level or assign Preliminary Impact Level
- 152 ○ FIPS 199 Security Categorization Criteria
- 153 ○ Common Factors for the Selection of Impact Levels (i.e., confidentiality, integrity,
154 and availability)
- 155 • Task 3: Review Provisional Impact Levels and adjust/finalize Information Type Impact
156 Levels

157 **3.3. Step 3: Assign System Security Category**

- 158 • This section will include guidelines for system categorization and considerations such as
159 aggregation, critical system functionality, extenuating circumstances, and other system
160 factors (e.g., integrity of public information, catastrophic loss of system availability, large
161 supporting and interconnecting systems, critical infrastructure, and privacy
162 considerations)
- 163 • Task 1: Review considerations for system categorization
- 164 • Task 2: Assign overall system impact

165 **3.4. Step 4: Document the Security Categorization Process**

- 166 • This section will include guidelines for documenting the security categorization process,
167 including the relationship to SP 800-18 and applicability in governance, risk, and
168 compliance (GRC) tools.

169 **References**

170 *The revision of this section will include updates to reflect the latest references used and is*
171 *intentionally left out of this review cycle.*

172 **Appendix A. Glossary**

173 *The revision of this section will include updates to reflect the latest terms used and is*
174 *intentionally left out of this review cycle.*

175 **Appendix B. Information Types Taxonomy and Provisional Impact Levels**

176 Review the proposed information types taxonomy, which is available for download at the NIST
177 SP 800-60 Initial Working Draft Publication Details page.

178 This initial working draft includes a proposed update for the information
179 taxonomy based ONLY on the *Federal Enterprise Architecture (FEA)*
180 *Business Reference Model version 3.1*, Appendix H. Business Reference
181 Model Taxonomy with Definitions and the National Archives and
182 Records Administration (NARA) Controlled Unclassified Information
183 (CUI) Registry Categories.

184 When SP 800-60 is finalized, the information taxonomy, provisional
185 impact levels, and mapping to the existing information types and
186 provisional impact levels in SP 800-60 Volume II (2008) will be published
187 as an online dataset through the [NIST Cybersecurity and Privacy](#)
188 [Reference Tool](#).

189 **B.1. Business Reference Model Taxonomy Background**

190 Per the Business Reference Model (BRM) version 3.1 Taxonomy (May 15, 2013),⁴ “the BRM
191 taxonomy is structured as a three-layer hierarchy representing Executive Branch **Mission**
192 **Sectors, Business Functions** and **Services**.”

- 193 • **Mission Sector** — Identifies the 10 business areas of the Federal Government in the
194 Common Approach to Enterprise Architecture
- 195 • **Business Function** — Describes what the Federal Government does at an aggregated
196 level, leveraging the budget function classification codes provided in OMB Circular A-11
- 197 • **Service** — Further describes what the Federal Government does at a secondary or
198 component level

199 **B.2. NARA CUI Registry Background**

200 Per the NARA CUI Registry,

201 Federal agencies routinely generate, use, store, and share information
202 that, while not meeting the threshold for classification as national
203 security or atomic energy information, requires some level of protection
204 from unauthorized access and release. Protection may be required for
205 privacy, law enforcement, or other reasons pursuant to and consistent
206 with law, regulation, and/or Government-wide policy. Historically, each
207 agency developed its own practices for sensitive unclassified
208 information, resulting in a patchwork of systems across the Executive

⁴ The BRM Version 3.1 Taxonomy is available at: <https://obamawhitehouse.archives.gov/omb/e-gov/fea>

209 branch in which similar information might be defined and labeled
210 differently, or where dissimilar information might share a definition
211 and/or label, depending on the agency which originally created the
212 information.

213 The Controlled Unclassified Information (CUI) program represents an
214 unprecedented initiative to standardize practices across more than 100
215 separate departments and agencies; State, local, Tribal and, private
216 sector entities; academia; and industry, to enable timely and consistent
217 information sharing, and to increase transparency throughout the
218 Federal government and with non-Federal stakeholders. Sharing CUI is
219 authorized for any lawful government purpose, defined as any activity,
220 mission, function, operation, or endeavor that the U.S. Government
221 authorizes or recognizes within the scope of its legal authorities or the
222 legal authorities of non-executive branch entities (such as state and
223 local law enforcement).

224 Per the [CUI Program Blog](#),

225 CUI should be safeguarded at no less than the Moderate Confidentiality
226 Impact level. The CUI Program draws on [National Institute of Standards
227 and Technology Special Publication 800-53 \(NIST SP 800-53\)](#) to establish
228 the standards to safeguard CUI on Federal information systems.

229 [NIST SP 800-171](#) establishes the standards to safeguard CUI on non-
230 Federal information systems, such as those owned by contractors,
231 universities, research labs, state and tribal governments, and other
232 partners that receive or use CUI under contracts or agreements with the
233 executive branch. Additional policy guidance can be found in [32 CFR
234 2002.14 \(g\)](#).

235

236 **Appendix C. Change Log**

237 *The revision of this section will include updates to reflect the latest terms used and is*
238 *intentionally left out of this review cycle*