

Intelligence Community Metadata Standards for Information Assurance

Information Security Marking

Data Element Dictionary



Intelligence Community Metadata Working Group

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Preface

This Data Element Dictionary (DED) is part of the documentation set for the Intelligence Community (IC) Metadata Standard for Information Security Marking (ISM). The other part of the set is an Implementation Guide ([Appendix B](#), reference [3](#)).

This DED provides managers and developers formal definitions of the data elements that comprise IC ISM.

IC ISM is an implementation of the World Wide Web Consortium's specification of the Extensible Markup Language (XML). It consists of a set of XML attributes that may be used to associate security-related metadata with XML elements in documents, web-service transactions, or data streams. It is distributed as both an XML entity set and W3C XML Schema (WXS) so that the XML attributes defined in the standard can be incorporated into any XML document type definition (DTD) or schema. Made available along with the IC ISM entity set and WXS are controlled vocabularies of terms that are used as the sources for the values of the IC ISM attributes.

The primary focus of this DED is an implementation-agnostic definition of the data elements that IC ISM implements as XML attributes. In the DED, the data elements are defined in terms of the descriptors and attributes specified by International Standard ISO 11179-3. Consequently, the DED is applicable to both XML and non-XML implementations.

IC ISM is a product of the IC Metadata Working Group (MWG), an activity of the IC Chief Information Officer (CIO) with oversight by the IC CIO Executive Council. The development work that resulted in IC ISM was performed by a panel under the IC MWG.

Comments and suggestions pertaining to this DED should be sent by email to the IC MWG Secretariat listed in [Appendix A](#).

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1 Introduction

IC ISM consists of a vocabulary of agreed-upon data elements that were developed by a panel of the IC Metadata Working Group (IC MWG) to support use of the Controlled Access Program Coordination Office (CAPCO) guidelines for security markings (references [1](#) and [2](#)). Although the intent of IC ISM is for use in XML applications, this Data Element Dictionary (DED) is implementation neutral.

This guide should be used in conjunction with the IC ISM Implementation Guide, Version 2.0 (reference [3](#)).

1.1 Purpose

This DED defines the IC ISM standard data elements. The purpose is to establish the name, semantics, data type, data representation, domain value set and/or permissible values for each of the 18 IC ISM data elements. The framework for these definitions is International Standard ISO 11179-3 (reference [7](#)).

1.2 Scope

IC ISM refers to the classification and control markings defined by the CAPCO Register maintained by the Controlled Access Program Coordination Office (CAPCO). IC ISM is intended to provide a standard set of data elements for incorporating classification and controls metadata into data sets. It is not intended to address business rules associated with using classification and controls metadata, and is therefore not a replacement for CAPCO specifications. Users of IC ISM may develop specific (but separate) programming interfaces to implement their required business rules around this model.

Business rules were not incorporated into IC ISM for several reasons:

- The CAPCO business rules cannot be modeled in a simple set of data elements, except at the very highest level, such as classification.
- Business rules regarding security metadata are constantly under revision.
- Updates can be incorporated more easily in the model by omitting business rules.
- The model can support the various requirements of each organization. It will be the organization's responsibility to understand and incorporate the required business practices for security metadata within the IC.

This document provides definitions for the data elements that specify the information needed to generate information security markings—portion marks, banners, and classification authority and declassification information.

Refer to the companion Implementation Guide to see how the data elements are implemented for XML applications, and to see usage examples.

This document refers to several controlled vocabularies (also known as domain value sets). The vocabularies are defined elsewhere and are not part of this specification.

1.3 Applicability

This DED applies to intelligence documents, SOAP envelopes and payloads, or serialized data streams created in XML format for interchange within the Community via the IC System for Information Sharing (ICSIS) community, organizational, and collateral shared spaces. The intent

is to provide a common set of classification and controls XML attributes, for use throughout the Community, that may be associated with any XML data elements and used for categorization and selection as well as formatting of portion marks, security banners and classification/declassification blocks.

IC ISM is *not* intended to address business rules associated with using security metadata, and is therefore not a replacement for CAPCO requirements or the understanding of those requirements. Users of IC ISM may develop specific (but separate) programming interfaces to implement their required business rules for populating and using the IC ISM attributes.

1.4 The Target Audience

This DED is intended for use by developers and IT support personnel—not analysts and other users. The DED provides details that should be transparent to authors, editors, reviewers and dissemination personnel.

1.5 Where to Submit Questions and Comments

Points of contact for this DED, the IC MSP models, and the IC MWG are listed in [Appendix A](#).

2 Data Element Definitions

This section contains the standard definitions of the 18 IC ISM data elements.

2.1 Terminology

The data elements are described in terms of 16 properties defined by International Standard ISO 11179-3:2003. The descriptive properties are explained in [Appendix C](#). Not all properties apply to any given data element.

The following properties are common to all of the elements and are shown here:

- Registration Status: Operational
- Responsible Organization: IC MWG
- Submitting Organization: IC MWG
- Datatype Scheme Reference: W3C recommendation, *XML Schema Part 2: Datatypes* (reference [8](#))

2.2 Alphabetical Index of Data Elements

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Classification	
Name	classification
Definition	Highest level of classification applicable to an information resource or portion within the domain of classified national security information
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTclassification2004-04-30
Datatype	NMTOKEN
Representation Class	Code
Maximum Size	8
Minimum Size	1
Value Domain Name	CAPCO-defined US Classification Markings CAPCO-defined Non-US Classification Markings CAPCO-defined Joint Classification Markings
Permissible Values	U, C, S, TS, R, NU, NR, NC, NS, NS-S, NS-A, CTS, CTS-B, CTS-BALK, CTSA, NSAT, NCA
Default Value	None
Related Metadata Reference	Qualified by "ownerProducer"
Comment	This data element is always used in conjunction with the "ownerProducer" data element. Taken together, the two elements specify the classification category and the type of classification (US, non-US, or joint).

Classification Reason	
Name	classificationReason
Definition	The basis for an original classification decision
Definition Source Reference	ISOO Directive 1
Version	2004-04-30
Item Registration Authority Identifier	INTclassificationReason2004-04-30
Datatype	string
Representation Class	Text
Maximum Size	256
Minimum Size	6
Default Value	None
Comment	The attribute value may be a citation of one or more of the subparagraphs 1.4(a) through 1.4(h) of EO 12958 Amended, or other explanatory text.

Classified By	
Name	classifiedBy
Definition	The identity, by name or personal identifier, and position title of the original classification authority for a resource
Definition Source Reference	ISOO Directive 1
Version	2004-04-30
Item Registration Authority Identifier	INTclassifiedBy2004-04-30
Datatype	string
Representation Class	Text
Maximum Size	256
Minimum Size	1
Default Value	None

Date of Exempted Source	
Name	dateOfExemptedSource
Definition	The year, month and day of publication or release of a source document, or the most recent source document, that was itself marked with a declassification constraint of OADR or X1 through X8
Definition Source Reference	ISOO Directive 1
Version	2004-04-30
Item Registration Authority Identifier	INTdateOfExemptedSource2004-04-30
Datatype	date
Representation Class	Date
Maximum Size	10
Minimum Size	10
Layout of Representation	YYYY-MM-DD If DD is not indicated in a source document, "01" should be specified.
Permissible Values	A valid date in the Gregorian calendar
Default Value	None
Related Metadata Reference	Used with "typeOfExemptedSource"
Comment	"typeOfExemptedSource" and "dateOfExemptedSource" are used together to produce the "Declassify On" value in a classification/declassification block. If the value of "typeOfExemptedSource" is "OADR," the value of "dateOfExemptedSource" must not be later than 1995-10-14. If the value of "typeOfExemptedSource" is any of "X1" through "X8," the value of "dateOfExemptedSource" must not be later than 2003-09-22.

Declassification Date	
Name	declassDate
Definition	A specific year, month and day for declassification, based on the duration of the national security sensitivity of the information, upon the occurrence of which the information shall be automatically declassified
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTdeclassDate2004-04-30
Datatype	date
Representation Class	Date
Maximum Size	10
Minimum Size	10
Layout of Representation	YYYY-MM-DD
Permissible Values	A valid date in the Gregorian calendar
Default Value	None
Comment	For XML DTD implementations, the datatype is NMTOKEN.

Declassification Event	
Name	declassEvent
Definition	A description of an event for declassification, based upon the duration of the national security sensitivity of the information, upon the occurrence of which the information shall be automatically declassified
Definition Source Reference	EO 12958
Version	2004-04-30
Item Registration Authority Identifier	INTdeclassEvent2004-04-30
Datatype	string
Representation Class	Text
Maximum Size	256
Minimum Size	1
Default Value	None

Declassification Exception	
Name	declassException
Definition	One or more exceptions to the nominal 25-year point for automatic declassification
Definition Source Reference	CAPCO Implementation Manual EO 12958
Version	2004-04-30
Item Registration Authority Identifier	INTdeclassException2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	55
Minimum Size	4
Layout of Representation	Space-delimited list of one or more of the permissible values ordered in accordance with CAPCO guidelines
Value Domain Name	Automatic Declassification Exemption Codes
Permissible Values	25X1-human, 25X1, 25X2, 25X3, 25X4, 25X5, 25X6, 25X7, 25X8, 25X9
Default Value	None

Declassification Manual Review Indicator	
Name	declassManualReview
Definition	An indication of a requirement for manual review prior to declassification, over and above the usual programmatic determinations
Definition Source Reference	IC Metadata Working Group
Version	2004-04-30
Item Registration Authority Identifier	INTdeclassManualReview2004-04-30
Datatype	boolean
Representation Class	Text
Maximum Size	5
Minimum Size	1
Permissible Values	"true" or "1", "false" or "0"
Default Value	None
Comment	<p>The usual programmatic determinations of a requirement for manual review are based on the presence of (a) FGI, RD or FRD; (b) joint or non-US classifications; (c) the declassification restriction 25X1-human; (d) a document which is classified derivatively either from a source document(s) or a classification guide that contains the declassification instruction OADR or X1 thru X8; or (e) an event-triggered declassification.</p> <p>"declassManualReview" is used only to indicate a requirement for manual review over and above the usual programmatic determinations.</p> <p>In XML DTD implementations, the datatype is a name token group consisting of the tokens "true" and "false."</p>

Derived From	
Name	derivedFrom
Definition	A citation of the authoritative source or reference to multiple sources of the classification markings used in a resource
Definition Source Reference	EO 12958
Version	2004-04-30
Item Registration Authority Identifier	INTderivedFrom2004-04-30
Datatype	string
Representation Class	Text
Maximum Size	256
Minimum Size	16
Default Value	None
Comment	<p>Specify: (a) the title and date of an approved classification guide, (b) the title and date of a specific source reference, or (c) the literal string "Multiple Sources".</p> <p>This element does not apply to UNCLASSIFIED products.</p>

Dissemination Controls	
Name	disseminationControls
Definition	Controls which identify the expansion or limitation on the distribution of information
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTdisseminationControls2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	2
Layout of Representation	Space-delimited list of one or more of the permissible values ordered in accordance with CAPCO guidelines
Value Domain Name	CAPCO Register Dissemination Controls Authorized Portion Marking Abbreviations
Permissible Values	RS, FOUO, OC, IMC, SAMI, NF, PR, REL, RD, RD-CNWDI, RD-SG-1, RD-SG-2, RD-SG-3, RD-SG-4, RD-SG-5, RD-SG-6, RD-SG-7, RD-SG-8, RD-SG-9, RD-SG-10, RD-SG-11, RD-SG-12, RD-SG-13, RD-SG-14, RD-SG-15, FRD, FRD-CNWDI, FRD-SG-1, FRD-SG-2, FRD-SG-3, FRD-SG-4, FRD-SG-5, FRD-SG-6, FRD-SG-7, FRD-SG-8, FRD-SG-9, FRD-SG-10, FRD-SG-11, FRD-SG-12, FRD-SG-13, FRD-SG-14, FRD-SG-15, DCNI, ECNI, EYES, LAC, FRONTO, KEYRUT, SEABOOT, SETTEE, DSEN
Default Value	None

FGI - Open Source	
Name	FGIsourceOpen
Definition	Specification of the foreign country or countries and/or registered international organization(s) that are the disclosable owner(s) and/or producer(s) of information included in a US or joint document
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTFGIsourceOpen2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	3
Layout of Representation	(1) Space-delimited list of country trigraphs, if any, in alphabetical order followed by registered international organization tetragraphs, if any, in alphabetical order (2) "UNKNOWN"
Value Domain Name	ISO 3166-1 Country Trigraphic Codes CAPCO-defined International Organization Tetragraphic Codes
Default Value	None
Comment	CAPCO guidelines state that "any one portion of a document shall not contain FGI from more than one country". Therefore, at the portion level, this element should have only a single value.

FGI - Protected Source	
Name	FGISourceProtected
Definition	Specification of the foreign country or countries and/or registered international organization(s) that are the non-disclosable owner(s) and/or producer(s) of information included in a US or joint document
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTFGISourceProtected2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	3
Layout of Representation	Space-delimited list of country trigraphs, if any, in alphabetical order followed by registered international organization tetragraphs, if any, in alphabetical order
Value Domain Name	ISO 3166-1 Country Trigraphic Codes CAPCO-defined International Organization Tetragraphic Codes
Default Value	None
Comment	CAPCO guidelines state that "any one portion of a resource shall not contain FGI from more than one country". Therefore, at the portion level, this element should have only a single value. Since the value of this element specifies non-disclosable owners and/or producers, additional measures must be taken to exclude knowledge of them from the resource prior to dissemination.

Non-Intelligence Community Markings	
Name	nonICmarkings
Definition	Information security classification markings for classified information originating from non-intelligence components of the US Department of Defense or the US Department of Energy
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTnonICmarkings2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	33
Minimum Size	2
Layout of Representation	Space-delimited list of one or more of the permissible values ordered in accordance with CAPCO guidelines
Value Domain Name	CAPCO Register Non-Intelligence Community Authorized Portion Marking Abbreviations
Permissible Values	SC, SIOP, SINFO, DS, XD, ND, SBU, SBU-NF
Default Value	None

Owner/Producer	
Name	ownerProducer
Definition	The national government or international organization owner(s) and/or producer(s) of a resource
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTownerProducer2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	3
Layout of Representation	Space-delimited list of one or more name tokens to include country trigraphs, if any, in alphabetical order followed by registered international organization tetragraphs, if any, in alphabetical order
Value Domain Name	ISO 3166-1 Country Trigraphic Codes CAPCO-defined International Organization Tetragraphic Codes
Default Value	None
Related Metadata Reference	Qualifies "classification"
Comment	This data element is always used in conjunction with the "classification" data element. Taken together, the two elements specify the classification category and the type of classification (US, non-US, or joint).

Releasability	
Name	releasableTo
Definition	The country or countries and/or international organization(s) to which classified information may be released based on the determination of an originator in accordance with established foreign disclosure procedures
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTreleasableTo2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	7
Layout of Representation	Space-delimited list consisting of "USA" followed by applicable country trigraphs, if any, in alphabetical order followed by applicable registered international organization tetragraphs, if any, in alphabetical order
Value Domain Name	ISO 3166-1 Country Trigraphic Codes CAPCO-defined International Organization Tetragraphic Codes
Default Value	None
Related Metadata Reference	Qualifies "disseminationControls"
Comment	This data element holds the list of countries and/or international organizations used in conjunction with the "disseminationControls" values "REL" and "EYES." This element has no purpose unless "disseminationControls" has one of those values.

Special-Access-Required Program Identifier	
Name	SARIdentifier
Definition	Registered trigraphic or digraphic code(s) for defense or intelligence programs for which special access is required
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTSARIdentifier2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	6
Layout of Representation	Space-delimited list of one or more SAR program trigraphs or digraphs
Value Domain Name	Registered CIA or DoD SAR program trigraphic or digraphic codes
Default Value	None

SCI Controls	
Name	SCIcontrols
Definition	CAPCO-authorized abbreviations for sensitive compartmented information control system(s)
Definition Source Reference	CAPCO Implementation Manual
Version	2004-04-30
Item Registration Authority Identifier	INTSCIcontrols2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	256
Minimum Size	2
Layout of Representation	Space-delimited list of one or more of the permissible values ordered in accordance with CAPCO guidelines
Value Domain Name	CAPCO Register abbreviated SCI Control Program names
Permissible Values	SI, SI-G, SI-ECI-XXX, TK
Default Value	None
Comment	<p>For the "SI-ECI-XXX" permissible value, "XXX" is a placeholder for ECI program designator alphabetic trigraphs, which are classified and are therefore not included here.</p> <p>Additional classified and unpublished SCI control system abbreviations are not included here.</p>

Type of Exempted Source	
Name	typeOfExemptedSource
Definition	A declassification marking of a source document that causes the current, derivative document to be exempted from automatic declassification
Definition Source Reference	ISOO Directive 1
Version	2004-04-30
Item Registration Authority Identifier	INTtypeOfExemptedSource2004-04-30
Datatype	NMTOKENS
Representation Class	Code
Maximum Size	28
Minimum Size	2
Layout of Representation	Space-delimited list of one or more of the permissible values ordered in accordance with CAPCO guidelines
Permissible Values	OADR, X1, X2, X3, X4, X5, X6, X7, X8
Default Value	None
Related Metadata Reference	Used with "dateOfExemptedSource"
Comment	"typeOfExemptedSource" and "dateOfExemptedSource" are used together to produce the "Declassify On" value in a classification/declassification block.

Appendix A - Points of Contact

Name	Position	Contact Information
<i>Send comments and suggestions about this guide to:</i>		
Karen Stevens	Secretariat, IC MWG	+1 (703) 874-8264 stevensk@saic.com (unclassified) stevnsk@cia.ic.gov (IC E-MAIL)
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Appendix B - References

Among the following references are the sources that the IC MWG panel used as authorities for the definitions of the data elements.

1. Intelligence Community, Community Management Staff, Controlled Access Programs Coordination Office, *Authorized Classification and Control Markings Register*. (See CAPCO home page on Intelink.)
2. Intelligence Community, Community Management Staff, Controlled Access Programs Coordination Office, *Authorized Classification and Control Markings Implementation Manual*. (See CAPCO home page on Intelink.)
3. Intelligence Community, Metadata Working Group, *IC ISM Implementation Guide*, Version 2.0, 30 April 2004. Available at “<http://www.imd.ic.gov/ICML/Index.html>” on Intelink; at “<http://www.xml.saic.com/icml/>” on the Internet; and as resource “IC_ISM_ImplementationGuide” in the IC XML Registry.
4. U.S. National Archives and Records Administration, Information Security Oversight Office, *Classified National Security Information Directive No. 1*, October 30, 2003.
5. Executive Order (EO) 12958, as amended - Classified National Security Information; dated March 25, 2003
6. National Security Act of 1947, Section 105 (b) (1).
7. International Organization for Standardization, International Standard ISO/IEC 11179-3, *Information technology—Metadata registries—Part 3: Registry metamodel and basic attributes*, 15 February 2003.
8. World Wide Web Consortium Recommendation, *XML Schema Part 2: Datatypes*, 2 May 2001 (<http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>).

Appendix C - Attributes of the Data Elements

The data elements—that is, the XML attributes—defined in this document are described using terminology from International Standard ISO/IEC 11179.

A complete version of the template used for each of the data elements is shown below. The sideheads in the left-hand column are defined by ISO/IEC 11179-3, “Specification and standardization of data elements,” to be the basic attributes (or characteristics) of data elements.

Note that the terms “elements” and “attributes” in the preceding paragraph are used in the generic sense prescribed in ISO/IEC 11179. The ISO/IEC 11179 definition of a “data element” encompasses both XML elements and XML attributes (as well as RDB and other forms of elements). This DED uses the characteristics “Name”, “Definition”, *et al.*, to provide an ISO/IEC 11179-compliant definition of each of the XML attributes prescribed by the IC ISM standard.

ISO 11179 prescribes some of these characteristics to be mandatory. The mandatory characteristics are identified in the “Attributes” section, below. Additional optional and MWG-defined characteristics have been included to further describe or clarify each element’s implementation.

C.1 Attributes

For each data element, the following information is provided. An asterisk (*) denotes a mandatory field.

1. *Name: the designation of the element by which it is distinguished;
2. *Definition: a plain text description of the element, including its content and attributes, and usage considerations;
3. *Definition Source Reference: the authority (see Appendix B - References) for including the element in this specification;
4. *Version: date of last formal release of the overall model;
5. Item Registration Authority Identifier: Registry identifier assigned by the IC MWG
6. *Datatype: a descriptor specifying a representation of the attribute value. Examples of datatypes for attribute values are ‘string’, ‘date’, ‘name token’; as its vocabulary of datatypes, this document uses as its reference the W3C XML Schema Datatypes recommendation (reference [8](#));
7. *Representation Class: the functional and/or presentational category of an item;
8. Maximum Size: the maximum number of storage units (of the corresponding datatype) to represent the element’s value;
9. Minimum Size: the minimum number of storage units (of the corresponding datatype) to represent the element’s value;
10. Value Domain Name: Identification of an applicable controlled vocabulary of values
11. Layout of Representation: the layout of characters of an element’s values expressed by a character string representation;

12. Permissible Values: the set of representations of permissible instances of the element, according to the representation form, layout, datatype, and maximum and minimum size; or a reference to a Value Domain;
13. Default Value: the default value of the data element, if any;
14. Related Metadata Reference: the related element, or elements that may have a similar function but are semantically different;
15. Type of Relationship: a description of the nature of the relationship identified by the "Related Metadata Reference"
16. Comment: remark(s) concerning the application of the data element or data element's attributes.

C.2 Authority Citations

See [Appendix B](#), References.

Appendix D - Change History

Version	Date	Purpose
1.0	05 July 2002	Initial release
2.0	30 April 2004	<p>Updated to support changes to the CAPCO Register and Implementation Manual.</p> <p>Added "ownerProducer" as a required attribute for entity "SecurityAttributes" and as an optional attribute for entity "SecurityAttributesOption." Purpose is to provide a single method for specification of US, non-US, and joint classifications.</p> <p>Changed the enumerated list for the "classification" attribute to include non-US values.</p> <p>Added optional attribute "SARIdentifier" as a separate container for DoD/DoE special-access-required nicknames, codewords, or trigraph/digraph to support elevation of SAR to the same level as SCI controls.</p> <p>Added optional attributes "classifiedBy" and "classificationReason" to support generation of EO 12958 classification/declassification blocks.</p> <p>Changed the declared value of "derivedFrom" to CDATA to allow the titles and dates of source documents or classification guides to be specified.</p> <p>Replaced the single attribute "declassification" with distinct attributes for date-determined and event-determined declassification and for the 25X declassification exceptions.</p> <p>Added attributes "typeOfExemptedSource" and "dateOfExemptedSource" for use in specifying that one or more sources was marked OADR, X1 through X8.</p> <p>Added attribute "declassManualReview" for use in forcing "MR" to appear in header and footer banners (regardless of whether any caveats in the portions would necessitate manual review).</p> <p>Removed entity "DowngradeAttributes," reflecting the configuration management panel's decision to allow portion mark oriented and banner oriented attributes to be used together on any object.</p>