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Intelligence, Surveillance, and Reconnaissance (ISR)

Extension Specification

To the

Department of Defense (DoD)

Discovery Metadata Specification

(DDMS)

Version X.X

30 May 2008

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Abstract

The Intelligence, Surveillance, and Reconnaissance (ISR) Extension Specification documents the set, categories, elements, and profiles used to extend the core metadata layer defined in the Department of Defense Discovery Metadata Specification (DDMS), v.1.4.1, dated August 2007, to capture ISR-specific metadata elements. It serves as a reference for developers, architects, and engineers, and lays the foundation for implementing Enterprise Discovery Services for ISR data. The DDMS together with the ISR Extension Specification will be employed consistently across ISR disciplines, domains and data formats.

This document describes ISR-specific discovery metadata elements and their logical groupings called categories. It does not provide an interchange specification or substantive implementation guidance. The metadata elements specified in DDMS and this Extension Specification, however, provide a basis for organizations to begin planning, transitioning, and implementing metadata tagging initiatives that support the Department's goal of increased data visibility and Enterprise Discovery.[1]

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[1]*Note:* This document maps to NGA-DCGS Metadata Harmonization Team *ISR Extension Engineering & Development (E&D)* package template, draft version 0.1, dated 28 May 2008.

Revision Control

Revision #	Date	POC	Brief Description
X.X	30 May 2008	PD King	Draft NGA-DCGS Metadata Harmonization Team baseline

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1 Introduction

The *DoD Net-Centric Data Strategy* (dated 9 May 2003) articulates goals and approaches that allow users and systems to find and access a wide-range of Enterprise data assets throughout the Department of Defense (DoD) Enterprise. The *DoD Discovery Metadata Specification (DDMS), v.1.4.1* (10 August 2007), defines a small core set of metadata that will be used for all data assets that supports the Department's goals of making data visible, accessible, and understandable across the DoD Enterprise. This document, the ISR Extension Specification, extends the DDMS core set of metadata to include extensions used by the ISR Community.

1.1 Background

The DDMS is designed using a layered approach. A small, Core Layer is defined by DDMS and a domain-specific Extensible Layer, such as ISR metadata, can be defined to build a richer set of metadata for discovery. The metadata elements for both the Core and Extension Layers are designed to be platform, language, and implementation independent. Accordingly, system designers and engineers can decide how to generate and store the discovery metadata elements depicted in this document. This approach provides flexibility for system developers to generate and retain discovery metadata using any one of several implementation approaches, including using COTS products. The Core Layer is composed of four sets of element categories, each with a specific functional focus for describing a data asset. Although identified in the DDMS, the Extension Layer is left to its respective Community of Interest (COI) to define and specify. "These [Extension Layer] elements are related to the subject matter of the data asset, and are necessary for specialist consumers in a particular subject matter to locate relevant data assets."[2] The specification of the Extension Layer for ISR is the subject of this document.

1.2 Scope

This specification was developed using a combined bottoms-up and top-down approach. The bottoms-up approach used data asset analyses, logical data models, and use cases combined with a top-down structure of categories and elements that can support discovery of data across the ISR COI, including GEOINT, SIGINT, MASINT, and HUMINT data assets. Development of a common metadata framework for discovery using the DDMS and ISR Extension metadata allows data assets from different functional areas to be mapped to a common semantic structure. Once the data assets are related to each other via mapping to a common semantic structure, the resulting metadata can be cataloged and used to support discovery and retrieval of said metadata and the associated data assets.

1.2.1 ISR COI Discussion

'The term COI refers to "collaborative groups of users who must exchange information in pursuit of their shared goals, interests, missions, or business processes and who therefore must have shared vocabulary for the information they exchange."[3] OASD(NII) guidance states that the essential purpose of a COI vocabulary is to "provide a standardized framework for exposing COI

[2] OASD(NII)/DoD CIO, DoD 8320.02-G, *Guidance for Implementing Net-Centric Data Sharing*, 12 Apr 2006, p.23.
[3] *DOD Net-Centric Data Strategy*, DoD CIO memorandum, signed by John Stenbit, 9 May 2003

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data to various systems and users to perform monitoring, operations, analysis, of other activities."[4,5]

DoD publication 8320.02-G implements DoD Directive 8320.2 and provides extensive guidance on the purpose, formation, management, and responsibilities of COIs. "COIs are organizing constructs created to assist in implementing net-centric information sharing. Their members are responsible for making information visible, accessible, understandable, and promoting trust – all of which contribute to the data interoperability necessary for effective information sharing."[6] "The focus for COIs is to gain semantic and structural agreement on shared information."[7]

In certain instances, DDMS Core Layer primary categories and elements are populated with data that captures ISR concepts. These instances are identified in Section 6 as ISR Implementation Profiles.

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[4] *Approach for Defining and Validating a COI Vocabulary*, CIO/NII briefing, slide 4
[5] DRAFT NGA-DCGS Metadata Harmonization Vocabulary Guide, 26 September 2007, p. 2.
[6] *Guidance for Implementing Net-Centric Data Sharing*, DoD 8320.02-G, 12 April 2006, page 11, paragraph C2.1.1
[7] *Ibid.*, paragraph C2.1.2, page 11.

2 Approach

The process of creating a common semantic for metadata across a COI or practice is known as metadata harmonization. Harmonizing metadata is the semantic, logical, and physical analysis required to support the visibility, accessibility, and understandability of data assets. The analysis requires information constituents to arrive at a commonly agreed semantic to achieve meaningful information sharing. Each COI is responsible for harmonizing its metadata. The mechanisms employed to discover data are query services that use a standards-based metadata catalog which, in turn, is populated by harmonized metadata.

The NGA-DCGS Metadata Harmonization (MDH) Team developed initial ISR Extensions using a defined process for metadata harmonization. The Extensions were based on Subject Matter Expert (SME) judgment about metadata elements used to discover data assets which contain sought-after information -- in this case, common NGA-DCGS ISR information.

The ISR Extensions harmonization process began with a solicitation from the NGA and the DCGS Communities. Based on the nomination responses from these Communities, SMEs mapped data assets to the DDMS Core Layer. Next, the SMEs identified ISR domain-specific data elements likely to be used by consumers to search for relevant data assets. These data elements were analyzed to ascertain common themes and synthesize a set of discovery metadata extensions to be used in common for cataloging ISR metadata. The resulting set of initial metadata extensions are documented in Section 5 and contain information relative to categories, elements, and obligation, together with amplifying descriptions, comments and XML examples.

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3 ISR Extension Structure

3.1 Layers

"The Department of Defense Discovery Metadata Specification (DDMS) defines discovery metadata elements for resources posted to community and organizational shared spaces."[8] It is designed in 2 significant layers. The first layer is the Core Layer. It is defined by DDMS. The second layer is the Extension Layer. The Extension Layer allows for the extension of the Core Layer to accommodate domain-specific discovery requirements.

This specification addresses and defines the Extension Layer for the ISR domain. Figure 1 depicts the DDMS including the ISR Extension layer. In documentation, the ISR Extension Layer is identified as the "ISR Extension to DDMS" or the shorter "ISR Extension." Readers requiring additional, detailed information about the Core Layer should refer to the DDMS, v.1.4.1.[9]

The ISR Extension uses the same set/category/element structure as the DDMS Core Layer. The Extension Layer is designed to support domain-specific discovery metadata requirements.

As required by DoDD 8320.2, this document and the ISR Extension XML Schema Definitions (.xsd) will be posted to the DoD Metadata Registry.

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[8] Department of Defense Discovery Metadata Specification (DDMS) Version 1.4.1, 10 Aug 2007, Foreword.
[9] Ibid, https://metadata.dod.mil/mdr/irs/DDMS.

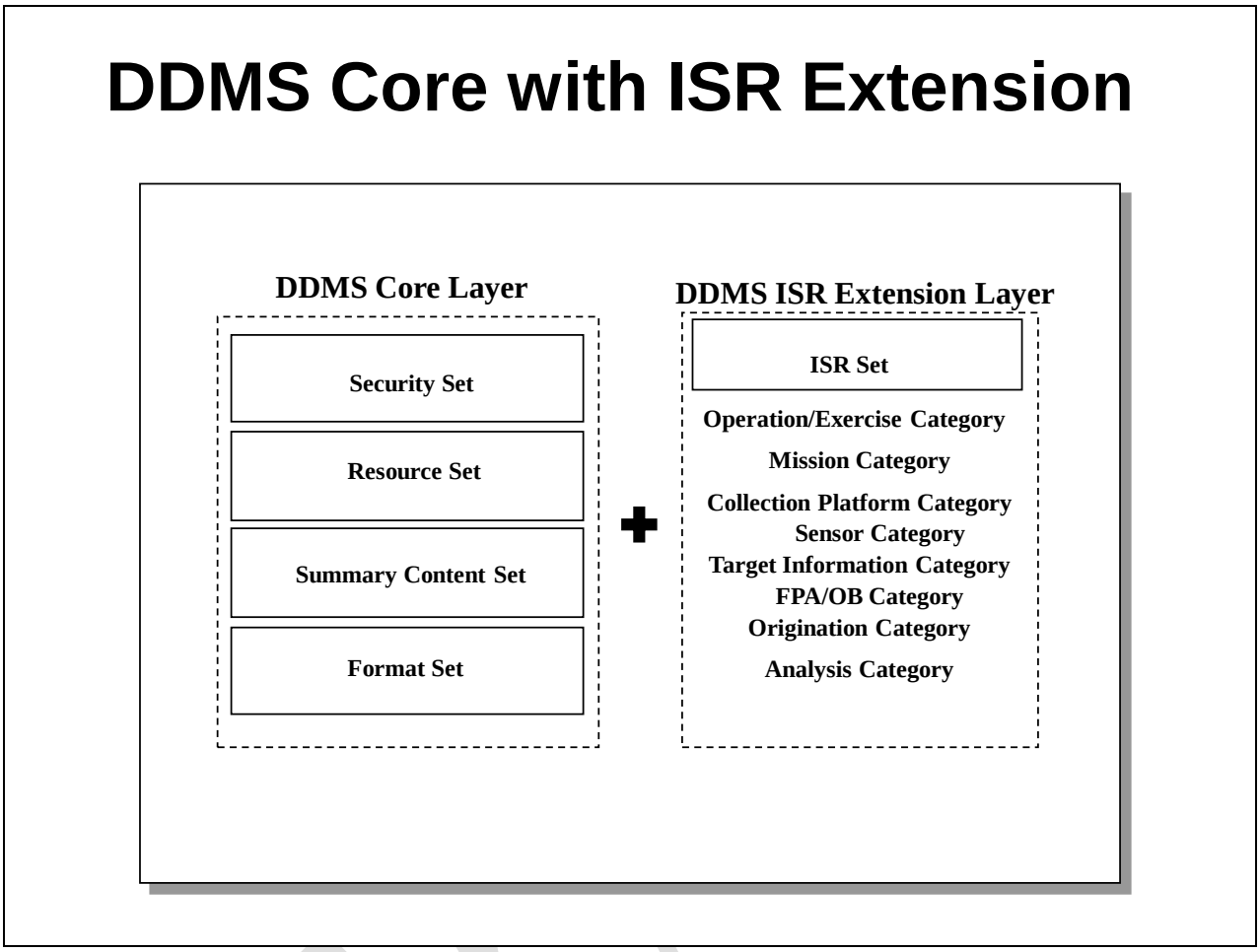

Figure 1. DDMS Logical Model with ISR Extension

3.2 ISR Extension Set, Categories, and Elements

3.2.1 ISR Set

The ISR categories have been grouped into one set called the ISR set. The ISR Set groups metadata extensions specific to the ISR COI into categories and elements. Figure 2 illustrates the categories and elements related to the ISR set.

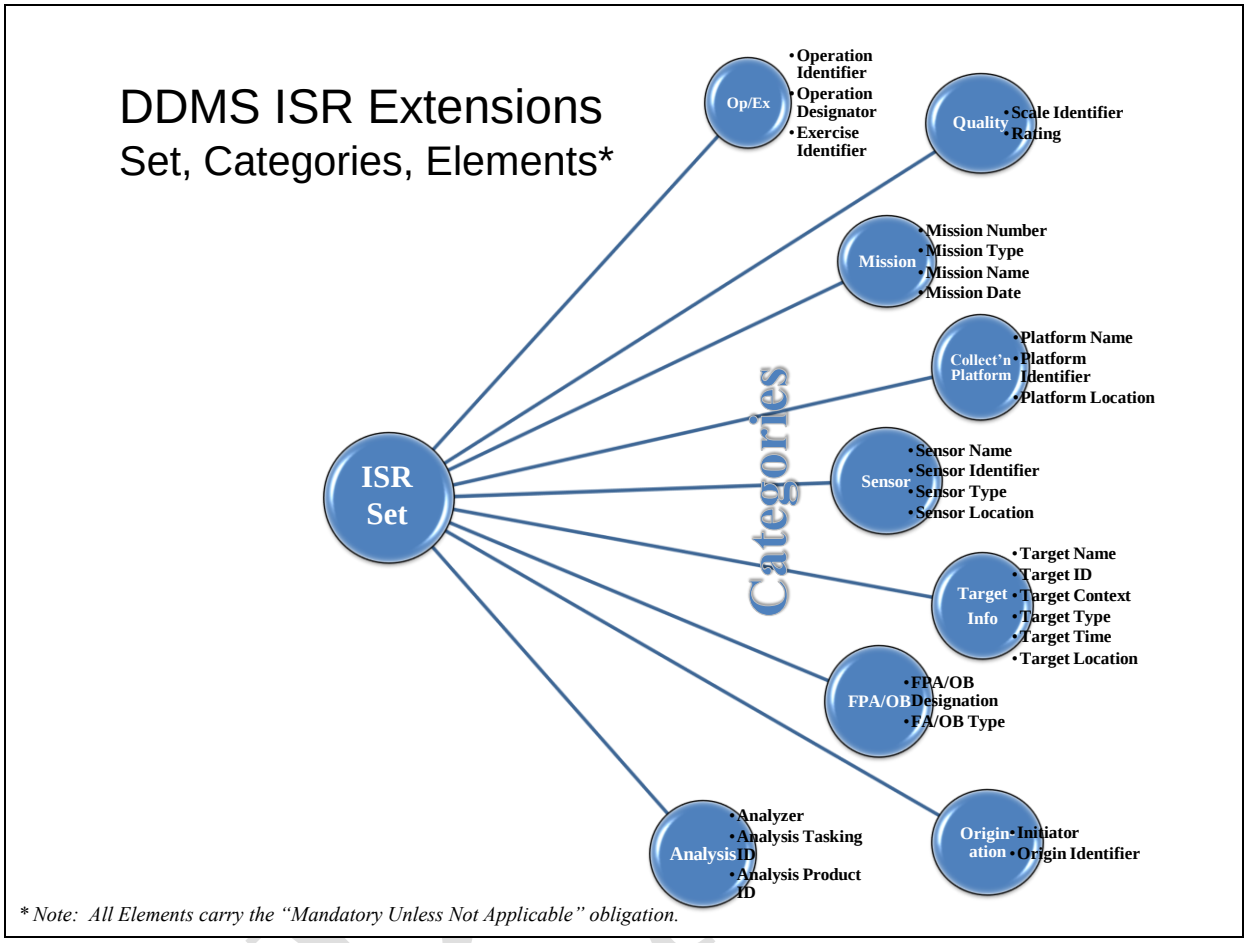

Figure 2. ISR Set, Categories and Elements

3.2.2 Categories

The ISR Set consists of categories and elements that provide a framework for capturing ISR concepts associated with data assets that are used by, or related to, the activities conducted by the ISR community. A category is a group of related, functional domain elements. The following descriptions are intended as general introductions to the category sets. More specific category set details are found in the related subsequent chapters.

- The Operation/Exercise Category provides elements to allow identification of operation and exercise information contained in a data asset.

- The Quality Category and elements provides a means to capture quality ratings that are used to characterize ISR data. Examples may include NIIRS, Signal Quality, or information source reliability.

- The Mission Category and elements identify and characterize the mission information associated with a data asset

- The Collection Platform Category and elements capture the collection platform information associated with a data asset

- The Sensor Category and elements provide key sensor identification, phenomenology and location elements to support the discovery of data assets that are associated with all types of ISR sensors.

- The Target Category and elements provide key target-related information that is associated with a particular data asset.

- The Functional Production Area/Order of Battle Category elements identify the type of civilian infrastructure (e.g., ports airfields, transportation) and/or military order of battle (e.g., EOB, MOB, GOB) that is contained in a data asset.

- The Origination Category and elements provide information that associates an ISR data asset with the person or organization that initiated the requirement for the information contained in that data asset.

- The Analysis Category and elements provide the exploitation or analysis information that is associated with an ISR data asset.

Table 1 shows a mapping for the Extension Layer Category Sets to elements together with their obligation. Like the obligations found in the Core Layer DDMS, in the Extension Layer there are four obligations to choose from: "Mandatory," "Mandatory Unless Not Applicable," "Conditional," and "Optional." In this Specification, Obligation definitions are consistent with those definitions in the DDMS v.1.4.1.

3.2.3 Elements

The NGA-DCGS MDH task team acts as an informal, cross-functional, "COI working group" that represents both the National Geospatial-Intelligence Agency (NGA) and the Distributed Common Ground/Surface System (DCGS) communities. The MDH Working Group defines common (harmonized) geospatial-intelligence metadata structures for information cataloging and discovery-related purposes. The resulting MDH vocabulary captures terms and definitions that re-use and extend (supplement) core elements of the DoD Discovery Metadata Specification (DDMS).[10]

Elements are discrete, descriptive terms that collectively form Category Sets. As such, an element is a unit of metadata. Elements contained in a category comprise the actual list of metadata the Extension Layer defines. Each element on the metadata list has an unambiguous, non-redundant definition. This metadata list becomes the controlled vocabulary for the particular COI Extension Layer. Like Categories, elements also have obligations. The obligation for elements is the same as that for Categories.

[10] (U) *DRAFT NGA-DCGS Metadata Harmonization Vocabulary Guide*, 26 Sep 2007, p. 1.

3.2.4 Obligation

"A 'Mandatory' obligation means that an element must be supplied, for a given data asset, in order to comply with the specification. A 'Mandatory Unless Not Applicable' obligation means that the element must be supplied if information exists related to the data asset. A 'Conditional' obligation means that the usage of an element is dependent upon a particular condition. An 'Optional' obligation means that an element can be supplied, but is not required to be supplied, for a given resource."[11] This specification, like DDMS, minimizes use of the "Mandatory" obligation. The "Mandatory Unless Not Applicable" is used to support the population of the largest set of metadata elements, without respect to obligation, to create a rich set of metadata to facilitate enterprise discovery. The "Mandatory Unless Not Applicable" reinforces the goal to fully populate the set of metadata elements consistent with the contents of a data asset.

Table 1. ISR Set with Extension Primary Categories and Elements

ISR Extension Primary Category	Primary Element	Obligation
Operation/Exercise	Operation Identifier	Mandatory Unless Not Applicable
	Operation Designator	Mandatory Unless Not Applicable
	Exercise Identifier	Mandatory Unless Not Applicable
Quality	Scale Identifier	Conditional: If Rating Supplied
	Rating	Mandatory Unless Not Applicable
Mission	Mission Number	Mandatory Unless Not Applicable
	Mission Type	Mandatory Unless Not Applicable
	Mission Name	Mandatory Unless Not Applicable
	Mission Date	Mandatory Unless Not Applicable
Collection Platform Category	Platform Name	Mandatory Unless Not Applicable

[11] DoD Discovery Metadata Specification (DDMS), v.1.4.1, 10 Aug 2007, p. 20.

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	Platform Identifier	**Mandatory Unless Not Applicable**
	Platform Location	**Mandatory Unless Not Applicable**
Sensor	**Sensor Name**	**Mandatory Unless Not Applicable**
	Sensor Identifier	**Mandatory Unless Not Applicable**
	Sensor Type	**Mandatory Unless Not Applicable**
	Sensor Location	**Mandatory Unless Not Applicable**
Target	**Target Name**	**Mandatory Unless Not Applicable**
	Target Identification	**Mandatory Unless Not Applicable**
	Target Context	**Mandatory Unless Not Applicable**
	Target Type	**Mandatory Unless Not Applicable**
	Target Time	**Mandatory Unless Not Applicable**
	Target Location	**Mandatory Unless Not Applicable**
Functional Production Area/ Order of Battle	**Functional Production Area/OB Designation**	**Mandatory Unless Not Applicable**
	FPA/OB Type	**Mandatory Unless Not Applicable**
Origination	**Initiator**	**Mandatory Unless Not Applicable**
	Origin Identifier	**Mandatory Unless Not Applicable**
Analysis	**Analyzer**	**Mandatory Unless Not Applicable**
	Analysis Tasking Identifier	**Mandatory Unless Not**

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		Applicable
	Analysis Product ID	**Mandatory Unless Not Applicable**

3.2.5 Qualifiers

Qualifiers are elements that specify the domain from which an element value is taken. The obligation of qualifiers is optional, dependent upon the existence of the element it amplifies.

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4 Guide to Discovery Metadata Extensions

4.1 Definitions

Each category is defined using three tables:

- The first table lists the makeup of the primary categories
- The second table lists and defines the primary elements contained within the category
- The third table provides implementation examples in different formats to aid in understanding

The formats shown in the example table are not meant to endorse a particular language implementation, but merely to demonstrate how the metadata might be stored. Additionally, there are no constraints placed upon the repetition of an element. The first table lists and defines the fields used in the category tables. The second table lists and defines the fields used in the element tables. Finally, the third table lists and defines the formats of the example tables.

Field Name	Definition
Metadata Category Definition	A plain text definition of the element.
Obligation	Specifies whether use of the element is mandatory or mandatory unless not applicable.
Date of Last Modification	Specifies the date on which the element or attribute was last modified.
Source or Related Reference	Reference to original source material used to develop or derive the element.
Comments	Specifies what the element encompasses, or any useful notes.

Table 2. Category Fields and Explanations

Field Name	Definition
Name	Specifies the formal name of the element.
Definition	A plain text definition of the element.
Obligation	Specifies whether use of the element is “Mandatory” or “Mandatory Unless Not Applicable.”
Comments	Specifies what the element encompasses, or any useful notes.

Table 3. Element Fields and Explanations

Field Name	Definition
Text	A plain text example depicting the elements in a category may be stored as comma-separated metadata.
XML	An XML example of how the elements in a category may be stored as metadata.
HTML	An HTML example of how the elements in a category may be stored as metadata.

Table 4. Example Fields and Explanations

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5 ISR Set Discovery Metadata Tables: Categories, Elements and Examples

5.1 ISR Set – Operation/Exercise Category

Table 5.1. ISR Set - Operation/Exercise Category	
Metadata Category Description	Information specific to exercises or operations
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

Table 5.1.1. ISR Set - Operation/Exercise Elements			
Name	**Definition**	**Obligation**	**Comment**
Operation Identifier	Formal Operation name, nickname, codeword, or option that appear in a data asset.	Mandatory Unless Not Applicable	
Operation Designator	Alphanumeric identifier used to identify an Operation Plan.	Mandatory Unless Not Applicable	Operation designator normally includes the name of the originating organization as well as the operation plan number.
Exercise Identifier	Formal Exercise name, nickname or additional/other identifier that appear in a data asset.	Mandatory Unless Not Applicable	A separate element is used for each different name or identifier for an Exercise.

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Table 5.1.2. ISR Set – Operation/Exercise Category Examples	
Text	Operation Identifier: DESERT SHIELD Operation Identifier: Certain Eagle Operation Identifier: BRAVE GOPHER Operation Designation: CENTCOM 216 Exercise Identifier: SOLID SHIELD 93 Exercise Identifier: UMPIRE
XML	<isr:OperationIdentifier>DESERT SHIELD</isr:OperationIdentifier> <isr:OperationIdentifier>Certain Eagle</isr:OperationIdentifier> <isr:OperationIdentifier>BRAVE GOPHER</isr:OperationIdentifier> <isr:OperationDesignation>CENTCOM 216</isr:OperationDesignation> <isr:ExerciseIdentifier>SOLID SHIELD 93</isr:ExerciseIdentifier> <isr:ExerciseIdentifier>UMPIRE</isr:ExerciseIdentifier>
HTML	<meta name="OperationIdentifier" content="DESERT SHIELD"> <meta name="OperationIdentifier" content="Certain Eagle"> <meta name="OperationIdentifier" content="BRAVE GOPHER"> <meta name="OperationDesignation" content="CENTCOM 216"> <meta name="ExerciseIdentifier" content="SOLID SHIELD 93"> <meta name="ExerciseIdentifier" content="UMPIRE">

5.2 ISR Set – Mission Category

Table 5.2. ISR Set - Mission Category	
Metadata Category Description	Data contained in a data asset that is associated with a specific mission.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

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Table 5.2.1. ISR Set - Mission Elements			
Name	**Definition**	**Obligation**	**Comment**
Mission Number	Mission number identified in a data asset.	Mandatory Unless Not Applicable	Mission number could identify strike, collection, or other missions
Mission Type Qualifier	The URI of the vocabulary that contains the value for Mission Type.	Optional	Use only for the associated Mission Type.
Mission Type	Mission type identified in a data asset.	Mandatory Unless Not Applicable	Recommend use of a controlled vocabulary.
Mission Name	Mission name identified in a data asset.	Mandatory Unless Not Applicable	
Mission Date	The date or time period of a mission identified in the data asset.	Mandatory Unless Not Applicable	

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Table 5.2.2. ISR Set – Mission Category Examples	
Text	Mission Number: 1170AF Mission Number: 0151H Mission Type qualifier: urn:mtf:mil:usmtf:2008:elemental Mission Type: SAR Mission Type qualifier: http://www.intelink.mission Mission Type: Collection Mission Type: Air Strike Mission Name: Rescue1 Mission Date Start: 2007-12-17T09:30:47.0Z Mission Date End: Not Applicable Mission Date Start: 2008-01-28 Mission Date End: 2008-02-28 Mission Date Start: 2007-09-07T12:00:00+05:00 Mission Date End: 2007-09-08T06:00:00+05:00
XML	<isr:MissionNumber>1170AF</isr:MissionNumber> <isr:MissionNumber>0151H</isr:MissionNumber> <isr:MissionType isr:qualifier="urn:mtf:mil:usmtf:2008:elemental" isr:value="SAR"/> <isr:MissionType isr:qualifier="http://www.intelink.mission" isr:value="Collection"/> <isr:MissionType isr:value="Air Strike"/> <isr:MissionName>Rescue1</isr:MissionName> <isr:MissionDate> <ddms:start>2007-12-17T09:30:47.0Z</ddms:start> <ddms:end>Not Applicable</ddms:end> </isr:MissionDate> <isr:MissionDate> <ddms:start>2008-01-28</ddms:start> <ddms:end>2008-02-28</ddms:end> </isr:MissionDate> <isr:MissionDate> <ddms:start>2007-09-07T12:00:00+05:00</ddms:start> <ddms:end>2007-09-08T06:00:00+05:00</ddms:end> </isr:MissionDate>

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HTML	<meta name="MissionType.qualifier" content="urn:mtf:mil:usmtf:2008:elemental"> <meta name="MissionType.value" content="SAR"> <meta name="MissionType.qualifier" content="http://www.intelink.mission"> <meta name="MissionType.value" content="Collection"> <meta name="MissionType.value" content= "Air Strike"> <meta name="MissionName" content= "Rescue1"> <meta name="MissionDate.start" content="2007-12-17T09:30:47.0Z"> <meta name="MissionDate.end" content= "Not Applicable"> <meta name="MissionDate.start" content="2008-01-28"> <meta name="MissionDate.end" content= "2008-02-28"> <meta name="MissionDate.start" content="2007-09-07T12:00:00+05:00"> <meta name="MissionDate.end" content= "2007-09-08T06:00:00+05:00">

5.3 ISR Set – Collection Platform Category

Table 5.3. ISR Set – Collection Platform Category	
Metadata Category Description	Sensor platform data contained in a data asset.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

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Table 5.3.1. ISR Set – Collection Platform Elements			
Name	**Definition**	**Obligation**	**Comment**
Platform Name Qualifier	The URI of the vocabulary that contains the value for Platform Name.	Optional	Use only for the associated Platform Name.
Platform Name	Platform name contained in the data asset.	Mandatory Unless Not Applicable	Recommend use of common collection platform name. E.g., Reaper, Dragon Lady, Super Hornet, Predator, Rivet Joint, etc.
Platform Identifier Qualifier	The URI of the vocabulary that contains the value or encoding scheme for Platform Identifier	Optional	Use only for the associated Platform Identifier.
Platform Identifier	The Alphanumeric identifier of the platform.	Mandatory Unless Not Applicable	Recommended best practice is to use a combination of type, model, and series number for airborne platforms. E.g., RQ-9, TR-1, U-2S, F/A-18RC, F-16R, RC-135, etc. For SIGINT use…… For NTM use ……..For MASINT use …...
Platform Location	Platform locations identified within a data asset.	Mandatory Unless Not Applicable	Platform location is specified as a DDMS point.

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Table 5.3.2. ISR Set – Collection Platform Category Examples	
Text	Platform Name qualifier: urn:nsg:ontology:platform Platform Name: Predator Platform Name qualifier: urn:mtf:mil:usmtf:2007 Platform Name: ASARS Platform Name qualifier: https://intelink/platformtaxonomy#RivetJoint Platform Name: Rivet Joint Platform Identifier qualifier: urn:nsg:ontology:platform Platform Identifier: TR-1 Platform Identifier qualifier: urn:mtf:mil:usmtf:2006 Platform Identifier: U-2 Platform Identifier: RC-135 Platform Location id: PID_1 Platform Location CRS: http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D Platform Location: 45.67 -130.3 Platform Location id: PID_2 Platform Location CRS: http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_3D Platform Location: 20.2 45.6 800

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XML	<isr:PlatformName isr:qualifier="urn:nsg:ontology:platform" isr:value="Predator"/> <isr:PlatformName isr:qualifier="urn:mtf:mil:usmtf:2007" isr:value="ASARS"/> <isr:PlatformName isr:qualifier="https://intelink/platformtaxonomy#RivetJoint" isr:value="Rivet Joint"/> <isr:PlatformIdentifier isr:qualifier="urn:nsg:ontology:platform" isr:value="TR-1"/> <isr:PlatformIdentifier isr:qualifier=" urn:mtf:mil:usmtf:2006" isr:value="U-2"/> <isr:PlatformIdentifier isr:value="RC-135"/> <isr:PlatformLocation> <gml:Point gml:id="PID_1" gml:srsName="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D"> <gml:pos>45.67 -130.3</gml:pos> </gml:Point> </isr:PlatformLocation> <isr:PlatformLocation> <gml:Point gml:id="PID_2" gml:srsName="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_3D" > <gml:pos>20.2 45.6 800</gml:pos> </gml:Point> </isr:PlatformLocation>

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HTML	<meta name="PlatformName.qualifier" content="urn:nsg:ontology:platform"> <meta name="PlatformName" content="Predator"> <meta name="PlatformName.qualifier" content=" urn:mtf:mil:usmtf:2007"> <meta name="PlatformName" content="ASARS"> <meta name="PlatformName.qualifier" content="https://intelink/platformtaxonomy#RivetJoint"> <meta name="PlatformName" content="Rivet Joint"> <meta name="PlatformIdentifier.qualifier" content="urn:nsg:ontology:platform"> <meta name="PlatformIdentifier" content="TR-1"> <meta name="PlatformIdentifier.qualifier" content=" urn:mtf:mil:usmtf:2006"> <meta name="PlatformIdentifier" content="U-2"> <meta name="PlatformIdentifier" content="RC-135"> <meta name="PlatformLocation.Point.id" content=" PID_1"> <meta name="PlatformLocation.Point.srsName" content=" http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D"> <meta name="PlatformLocation.Point.pos" content="45.67 -130.3"> <meta name="PlatformLocation.Point.id" content=" PID_2"> <meta name="PlatformLocation.Point.srsName" content=" http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_3D"> <meta name="PlatformLocation.Point.pos" content="20.2 45.6 800">

5.4 ISR Set – Sensor Category

Table 5.4. ISR Set – Sensor Category	
Metadata Category Description	Sensor data contained in a data asset.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

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Table 5.4.1. ISR Set – Sensor Elements			
Name	**Definition**	**Obligation**	**Comment**
Sensor Name Qualifier	The URI of the vocabulary that contains the value for Sensor Name.	Optional	
Sensor Name	Sensor name contained in the data asset	Mandatory Unless Not Applicable	Recommend use of common sensor name. E.g., ASARS, SYERS, TARS, MAEO, etc.
Sensor Identifier Qualifier	The URI of the vocabulary that contains the value for Sensor Identifier	Optional	Use only for the associated Sensor Identifier.
Sensor Identifier	The alphanumeric identifier of the sensor.	Mandatory Unless Not Applicable	Recommended best practice is to use a combination of model and number. e.g., CA-179, etc. .
Sensor Type Qualifier	The URI of the vocabulary that contains the value for Sensor Type	Optional	Use only for the associated Sensor Type.
Sensor Type	The type of sensor or the type of phenomenology used by the sensor.	Mandatory Unless Not Applicable	Recommended best practice is to use a type identified in a controlled vocabulary. E.g., EO, IR, SAR, LIDAR, Acoustic, Seismic, etc

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Sensor Location	Sensor location identified within a data asset.	Mandatory Unless Not Applicable	Sensor location is specified as a DDMS point.

Table 5.4.2. ISR Set – Sensor Category Examples	
Text	Sensor Name qualifier: urn:mtf:mil:usmtf:2008:elemental Sensor Name: ASARS Sensor Name qualifier: http://www.sensortaxonomy.com Sensor Name: SYERS Sensor Identifier: CA-179 Sensor Identifier qualifier: urn:mtf:mil:usmtf:2007 Sensor Identifier: AN/FPS-117 Sensor Identifier qualifier: http://jitc.fhu.disa.mil/nitf/tag_reg/acftb/actsenid.htm#sharp_tarsar Sensor Identifier: SHARP Sensor Type qualifier: urn:mtf:mil:usmtf:2008:elemental Sensor Type: SAR Sensor Type qualifier: urn:nsg:ontology:sensor Sensor Type: LIDAR Sensor Location id: SID_1 Sensor Location CRS: http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D Sensor Location: -22.5 15.008

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XML	<isr:SensorName isr:qualifier="urn:mtf:mil:usmtf:2008:elemental" isr:value="ASARS"/> <isr:SensorName isr:qualifier="http://www.sensortaxonomy.com" isr:value="SYERS"/> < isr:SensorIdentifier isr:value="CA-179"/> <isr:SensorIdentifier isr:qualifier="urn:mtf:mil:usmtf:2007" isr:value="AN/FPS-117"/> <isr:SensorIdentifier isr:qualifier="http://jitc.fhu.disa.mil/nitf/tag_reg/acftb/actsenid.htm#sharp_tarsar" isr:value="SHARP" /> <isr:SensorType isr:qualifier="urn:mtf:mil:usmtf:2008:elemental" isr:value="SAR"/> <isr:SensorType isr:qualifier="urn:nsg:ontology:sensor" isr:value="LIDAR"/> <isr:SensorLocation> <gml:Point gml:id="SID_1" gml:srsName="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D"> <gml:pos>-22.5 15.008</gml:pos> </gml:Point> </isr:SensorLocation>
HTML	<meta name="SensorName.qualifier" content="urn:mtf:mil:usmtf:2008:elemental"> <meta name="SensorName" content="ASARS"> <meta name="SensorName.qualifier" content="http://www.sensortaxonomy.com"> <meta name="SensorName" content="SYERS"> <meta name="SensorIdentifier" content="CA-179"> <meta name="SensorIdentifier.qualifier" content="urn:mtf:mil:usmtf:2007"> <meta name="SensorIdentifier" content="AN/FPS-117"> <meta name="SensorIdentifier qualifier" content=" http://jitc.fhu.disa.mil/nitf/tag_reg/acftb/actsenid.htm#sharp_tarsar"> <meta name="SensorIdentifier" content="SHARP"> <meta name="SensorType.qualifier" content="urn:mtf:mil:usmtf:2008:elemental"> <meta name="SensorType" content="SAR"> <meta name="SensorType.qualifier" content=" urn:nsg:ontology:sensor"> <meta name="SensorType" content="LIDAR"> <meta name="SensorLocation.id" content="SID_1"> <meta name="SensorLocation.srsName" content="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D"> <meta name="SensorLocation" content="-22.5 15.008">

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5.5 ISR Set – Target Information Category

Table 5.5. ISR Set – Target Information Category	
Metadata Category Description	Provides elements for target data that may be contained in a data asset.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

Table 5.5.1. ISR Set – Target Information Elements			
Name	**Definition**	**Obligation**	**Comment**
Target Name	Target name used in a data asset.	Mandatory Unless Not Applicable	Examples include Northern Army Barracks, Osama Bin Laden, Naval Vessel, etc
Target Identification	Numeric or alphanumeric used in a data asset to identify targets.	Mandatory Unless Not Applicable	BE numbers, Hultec, FIBE, Theatre Target Numbers, etc.
Target Context Qualifier	The URI of the vocabulary that contains the value for Target Type	Optional	Use only for the associated Target Type.
Target Context	Identifies the context for target designations used within a data asset.	Mandatory Unless Not Applicable	Collection (IMINT, SIGINT, MASINT, HUMINT), Strike (operations), Search & Rescue, Audience, Industry.

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Target Type Qualifier	URI of the vocabulary that contains the value for Target Type.	Optional	Use only the associated Target Type.
Target Type	Target types identified in a data asset.	Mandatory Unless Not Applicable	Target type may include Category codes, equipment type, or other "type" designations used to group items.
Target Time	The date or time period associated with a target identified within the data asset.	Mandatory Unless Not Applicable	For example; target time, time over target, time on target.
Target Location	The location of the target identified within a data asset.	Mandatory Unless Not Applicable	Target location is specified as a DDMS point or bounding box.

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Table 5.5.2. ISR Set – Target Category Examples	
Text	Target Name: OIL PLATFORM Target Name: AN-APS 43 RADAR Target Identification: 1234FA0011 Target Identification: XRBCD23450 Target Context qualifier: urn:mtf:mil:usmtf:2007 Target Context: STRIKE Target Type qualifier: urn:mtf:mil:usmtf:2007 Target Type: APC Target Type qualifier: urn:mtf:mil:usmtf:2007 Target Type: GNDHQ Target Time Start: 2008-06-30T09:30:45 Target Time End: Not Applicable Target Time Start: 2008-05-28T00:00:00Z Target Time End: 2008-05-28T24:00:00Z Target Location Geographic Bounding Box West BL: -10.2 Target Location Geographic Bounding Box East BL: 24 Target Location Geographic Bounding Box South BL: -2.04 Target Location Geographic Bounding Box North BL: 12.5867 [ALTERNATE] Target Location Point id: TID_1 Target Location Point CRS: http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D Target Location Point: 45 -125.29

5.6 ISR Set – Functional Production Area/Order of Battle (FPA/OB) Category

Table 5.6. ISR Set – FPA/OB Category	
Metadata Category Description	FPA addresses a country's Order of Battle; and its civilian facilities, infrastructure and other capabilities. FPA addresses items such as: production, transportation, lines of communication, ports, airfields, medical, fuel storage, power generation, cities and etc.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

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Table 5.6.1. ISR Set – FPA/OB Elements			
Name	**Definition**	**Obligation**	**Comment**
Functional Production Area/OB designation	Nationality associated with the Intelligence Functional Production Area or OB data.	Mandatory Unless Not Applicable	Use the appropriate country code from FIPS 10-4.
FPA/OB Type	The FPA/OB type identified in a data asset.	Mandatory Unless Not Applicable	Use Defense Intelligence Management Document, DoD-0000-151F4-97.

Table 5.6.2. ISR Set – FPA/OB Examples	
Text	Functional Production Area Order of Battle Designation: US Functional Production Area Order of Battle Type: AOB Functional Production Area Order of Battle Designation: IZ Functional Production Area Order of Battle Type: GOB
XML	<isr:FunctionalProductionAreaOrderOfBattle> <isr:FunctionalProductionAreaOrderOfBattleDesignation>US</isr:FunctionalProductionAreaOrderOfBattleDesignation> <isr:FunctionalProductionAreaOrderOfBattleType>AOB</isr:FunctionalProductionAreaOrderOfBattleType> </isr:FunctionalProductionAreaOrderOfBattle> <isr:FunctionalProductionAreaOrderOfBattle> <isr:FunctionalProductionAreaOrderOfBattleDesignation>IZ</isr:FunctionalProductionAreaOrderOfBattleDesignation> <isr:FunctionalProductionAreaOrderOfBattleType>GOB</isr:FunctionalProductionAreaOrderOfBattleType> </isr:FunctionalProductionAreaOrderOfBattle>
HTML	<meta name="FunctionalProductionAreaOrderOfBattle.Designation content="US"> <meta name="FunctionalProductionAreaOrderOfBattle.Type" content="AOB"> <meta name="FunctionalProductionAreaOrderOfBattle.Designation content="IZ"> <meta name="FunctionalProductionAreaOrderOfBattle.Type" content="GOB">

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5.7 ISR Set – Origination Category

Table 5.7. ISR Set – Origination Category	
Metadata Category Description	The association of a collection or tasking requirement with the data asset
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

Table 5.7.1. ISR Set – Origination Elements			
Name	**Definition**	**Obligation**	**Comment**
Initiator	Contains Person or Organization data for an Entity that is an Initiator.	Mandatory Unless Not Applicable	The person or organization that initiates a collection request, collection requirement, or collection task for assets that perform ISR collection activities. See DDMS, v.1.4.1, tables C5.T7 and C5.T8
Origin Identifier	The alphanumeric designation of collection request, requirement, or task identifier used in the data asset.	Mandatory Unless Not Applicable	

Table 5.7.2. ISR Set – Origination Examples	
Text	Initiator EntityType: Organization Initiator Name: U.S. Department of the Army Initiator Phone Number: 222-222-2222 Initiator Email: somecontact@army.mil Origin Identifier: REQ145

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XML	<isr:Initiator> <ddms:Organization> <ddms:name>U.S. Department of the Army</ddms:name> <ddms:phone>222-222-2222</ddms:phone> <ddms:email>somecontact@army.mil</ddms:email> </ddms:Organization> </isr:Initiator> <isr:OriginIdentifier>REQ145</isr:OriginIdentifier>
HTML	<meta name="Initiator.entityType" content="Organization"> <meta name="Initiator.name" content="U.S. Department of the Army"> <meta name="Initiator.phone" content="222-222-2222"> <meta name="Initiator.email" content="somecontact@army.mil"> <meta name="OriginIdentifier" content="REQ145">

5.8 ISR Set – Analysis Category

Table 5.8. ISR Set – Analysis Category	
Metadata Category Description	The association of exploitation and/or analysis requirements with the data asset.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	

Table 5.8.1. ISR Set – Analysis Elements			
Name	**Definition**	**Obligation**	**Comment**
Analyzer	Contains Person or Organization data for an Entity that performs analysis.	Mandatory Unless Not Applicable	The person or organization identified in a data asset that performs exploitation and/or analysis of ISR collections. If the Analysis element is used then it must contain a Person, Organization. See DDMS v.1.4.1, tables C5.T7 and C5.T8

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Analysis Tasking Identifier	The alphanumeric designation associated with exploitation and/or analysis products.	Mandatory Unless Not Applicable	
Analysis Product Identifier	The alphanumeric designation associated with exploitation and/or analysis products.	Mandatory Unless Not Applicable	

Table 5.8.2. ISR Set – Analysis Examples	
Text	Analyzer EntityType: Person Surname: Jones Name: John Q. UserID: 12345678 Affiliation: U.S. Army Phone Number: 222-222-2222 Email: jq.jones@someagency.mil Email: john.jones@alternate.gov AnalysisTaskingIdentifier: IM2008031 AnalysisProductID: Imagery Interpretation Report (IIR) AnalysisProductID: Target Report AnalysisProductID: RB0022

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XML	<isr:Analyzer> <ddms:Person> <ddms:surname>Jones</ddms:surname> <ddms:name>John Q.</ddms:name> <ddms:userID>12345678</ddms:userID> <ddms:affiliation>U.S. Army</ddms:affiliation> <ddms:phone>222-222-2222</ddms:phone> <ddms:email>jq.jones@someagency.mil</ddms:email> <ddms:email> john.jones@alternate.gov </ddms:email> </ddms:Person> </isr:Analyzer> <isr:AnalysisTaskingIdentifier>IM2008031</isr:AnalysisTaskingIdentifier> <isr:AnalysisProductID>Imagery Interpretation Report (IIR)</isr:AnalysisProductID> <isr:AnalysisProductID>Target Report</isr:AnalysisProductID>RB0022 isr:AnalysisProductID>RB0022</isr:AnalysisProductID>
HTML	<meta name="Analyzer.entityType" content="Person">\ <meta name="Analyzer.surname" content="Jones">\ <meta name="Analyzer.name" content="John Q.">\ <meta name="Analyzer.userid" content="12345678">\ <meta name="Analyzer.affiliation" content="U.S.Army">\ <meta name="Analyzer.phone" content="222-222-2222">\ <meta name="Analyzer.email" content="jq.jones@someagency.mil">\ <meta name="Analyzer.email" content="john.jones@alternate.gov">\ <meta name="AnalysisTaskingIdentifier" content="IM2008031">\ <meta name="AnalysisProductID" content="Imagery Interpretation Report (IIR)">\ <meta name="AnalysisProductID" content="Target Report">\ <meta name="AnalysisProductID" content="RB0022">\

5.9 ISR Set – Quality Category

Table 5.9. ISR Set – Quality Category	
Metadata Category Description	Provides the measurement scale and rating value used to assess the quality of a data asset.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	

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Comment	The quality category conveys an assessment of the usability, reliability, correctness, depth, thoroughness, consistency, completeness, level-of-detail, accuracy, or other similar characteristics of a data asset. The purpose of such characterizations is to assist with determining a data asset's applicability or fitness-for-use in various review, analysis, reporting, or decision-making contexts.

Table 5.9.1. ISR Set – Quality Elements

Name	Definition	Obligation	Comment
Scale Identifier	Name or designation of the rating system used to indicate the quality rating of an ISR data asset.	Conditional: if Rating is supplied.	Examples may include technical scales such as NIIRS and Ground Sampling Distance (GSD), and administrative directives for indicating data asset status. The best practice would be to use a URI to refer to this scale.
Rating	Value of the quality rating for a data asset.	Mandatory Unless Not Applicable	Specific value of the quality of a data asset in whatever measurement system/scale that is specified in the scale element; e.g., for NIIRS the value would be a number from 1-9; for data asset status, values could include draft, initial, and final.

Table 5.9.2. ISR Set – Quality Examples

Text	Quality Scale Identifier : urn:usmtf:table:niirs Quality Rating: 85 Quality Scale Identifier : urn:us:gov:ic:msp:v4 Quality Rating: Low Confidence Quality Scale Identifier : http://www.pubs.com Quality Rating: DRAFT
XML	<isr:QualityRating scaleIdentifier="urn:usmtf:table:niirs" rating="85"/> <isr:QualityRating scaleIdentifier="urn:us:gov:ic:msp:v4 " rating="Low Confidence"/> <isr:QualityRating scaleIdentifier="http://www.pubs.com" rating="DRAFT"/>

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HTML	<meta name="Quality.Scale" content="urn:usmtf:table:niirs"> <meta name="Quality.Rating" content="85"> <meta name="Quality.Scale" content="urn:us:gov:ic:msp:v4"> <meta name="Quality.Rating" content="Low Confidence"> <meta name="Quality.Scale" content="http://www.pubs.com"> <meta name="Quality.Rating" content="DRAFT">

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6 ISR Implementation Profiles for DDMS

The ISR Implementation Profiles for DDMS describe the rules employed by the NGA-DCGS Metadata Harmonization Team to use and populate elements in the Core Layer with metadata from ISR data assets. These rules provide a consistent approach to populating elements that are already identified in the core to better expose ISR data assets.

Implementation Profiles, structured using the same category/element format for Extensions, define the permissible values for populating elements (e.g., string, date, or a controlled vocabulary). Implementation Profiles are unique to specific file formats (e.g., XML, HTML, and Microsoft Word) and/or processing system[s]. Requirements unique to specific mission and business interests can be accommodated by adding data elements or prescribing business rules consistent with policy guidance for information standards governance.[12]

6.1 ISR Implementation Profile for DDMS – COCOM AOR Category

Table 6.1. ISR Set – COCOM AOR Category	
Metadata Category Description	Establishes the relationship between a data asset and a COCOM Area of Responsibility (AOR).
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	Extends the DDMS guidance for the population of the Summary Content/Geospatial Coverage/region element to capture COCOM AOR information.

Table 6.1.1. ISR Set – COCOM AOR Elements			
Name	**Definition**	**Obligation**	**Comment**
Region (core)	The COCOM Area of Responsibility (AOR) associated with a data asset. Use one of the following terms for the COCOM with the geographic responsibility: CENTCOM, NORTHCOM, SOUTHCOM, EUCOM, PACOM, or AFRICOM (after 10/08)).	Mandatory Unless Not Applicable	

[12] Drawn substantially from OFFICE OF THE DIRECTOR OF NATIONAL INTELLIGENCE, INTELLIGENCE COMMUNITY STANDARD (ICS), NUMBER 2007-500-3, signed 11 Dec 2007, p. 2.

Table 6.1.2. ISR Set – COCOM AOR Examples	
Text	Geographic Identifier Region: CENTCOM
XML	<ddms:geospatialCoverage> <ddms:GeospatialExtent> <ddms:geographicIdentifier> <ddms:region>CENTCOM</ddms:region> </ddms:geographicIdentifier> </ddms:GeospatialExtent> </ddms:geospatialCoverage>
HTML	<meta name="geospatial.identifier.region" content="CENTCOM">

6.2 ISR Implementation Profile – Intelligence Content Type Category

Table 6.2. ISR Set – Intelligence Content Type Category	
Metadata Category Description	Identifies the intelligence content type.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	Extends the DDMS guidance for the population of the Resource set/type category/type elements in the DDMS core to capture Intelligence Content type information. This category identifies intelligence community content types such as target reports, annotated imagery, threat assessments, topic reports, etc. It is in addition to the DCMITYPE (DDMS) and ICTYPE (IC) values.

Table 6.2.1. ISR Set – Intelligence Content Type Elements			
Name	**Definition**	**Obligation**	**Comment**
Type Qualifier (core)	The value that specifies the source of the type vocabulary. (core)	Conditional: if Type Value is supplied.	Specifies the domain vocabulary of which the Type Value is a member. (core) The qualifier would be a URI for a controlled vocabulary comprising the IC content types.

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Type Value (Core)	Type includes terms describing general categories, functions, genres, or aggregation levels for content. (core)	Mandatory Unless Not Applicable	The intelligence community (IC) content type. Recommended best practice is to use the names identified in a controlled vocabulary.

Table 6.2.2. ISR Set – Intelligence Content Type Examples	
Text	Type qualifier: urn:us:gov:ic:msp:v4:ICTYPE Type: image
XML	<ddms:type ddms:qualifier="urn:us:gov:ic:msp:v4:ICTYPE" ddms:value="image"/>
HTML	<meta name="type.qualifier" content="urn:us:gov:ic:msp:v4:ICTYPE"> <meta name="type.value" content="image">

6.3 ISR Implementation Profile – Intelligence Discipline Category

Table 6.3. ISR Set – Intelligence Discipline Category	
Metadata Category Description	Identifies the intelligence discipline.
Obligation	Mandatory Unless Not Applicable
Modification Date	
Source or Related Reference	
Comment	Extends the DDMS to implement the IC guidance for the population of the Resource set/type category/type elements in the DDMS core to capture intelligence discipline of the data asset.

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Table 6.3.1. ISR Set – Intelligence Discipline Elements			
Name	**Definition**	**Obligation**	**Comment**
Type Qualifier (core)	The value that specifies the source of the type vocabulary. (core)	Conditional; if Type Value is supplied.	The qualifier would be a URI for a controlled vocabulary comprising the IC content types.
Type Value (core)	Type value includes terms describing intelligence discipline categories such as IMINT, SIGINT, MASINT, GEOINT and HUMINT (core). Reference Office of the Director of National Intelligence, Intelligence Community Standard Number 2007-3.	Mandatory Unless Not Applicable	

Table 6.3.2. ISR Set – Intelligence Discipline Examples	
Text	Type qualifier: urn:us:gov:ic:msp:v4:IntelDiscipline Type: SIGINT
XML	<ddms:type ddms:qualifier="urn:us:gov:ic:msp:v4:IntelDiscipline" ddms:value= "SIGINT"/>
HTML	<meta name="type.qualifier" content="urn:us:gov:ic:msp:v4:IntelDiscipline"> <meta name="type.value" content="SIGINT">

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Acronym List

AOR	Area of Responsibility
COCOM	Combatant Command
COI	Community of Interest
DCGS	Distributed Common Ground System
DDMS	Department of Defense Discovery Metadata Specification
FPA	Functional Production Area
GEOINT	Geospatial Intelligence
GSD	Ground Sampling Distance
HTML	Hyper Text Mark-up Language
HUMINT	Human Intelligence
IC	Intelligence Community
ISR	Intelligence, Surveillance, and Reconnaissance
MASINT	Measures and Signatures Intelligence
MDH	Metadata Harmonization
NGA	National Geospatial-Intelligence Agency
NIIRS	National Imagery Interpretability Rating Scale
OASD(NII)	Office of the Assistant Secretary of Defense (Networks & Information Integration)
OB	Order of Battle
SIGINT	Signals Intelligence
SME	Subject Matter Expert
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
XML	eXtensible Mark-up Language

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