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COMMON PROFILE FRAMEWORK

National Security through Responsible
Information Sharing

VERSION 2.0
JANUARY 2015

Common Profile

Profile Framework & Definitions

Document Information

Document Title	Information Sharing Environment (ISE) Common Profile Framework)
Document Owner	Office of the Program Manager, Information Sharing Environment (PM-ISE)
Document Responsibility	PM-ISE Standards Working Group
Document Version	2.0
Document Status	Working

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Document Change History

11 November 2013	1.0	Standards Working Group	Initial distribution of draft paper.
12 September 2014	1.1	Standards Working Group Team	Second distribution of draft paper.
20 November 2014	1.2	Standards Working Group Team	Third distribution of draft paper.
5 December 2014	1.3	Standards Working Group Team and IISC Membership	Fourth distribution of draft paper.
12 December 2014	1.4	IISC Membership	Fifth distribution of draft paper
29 December 2014	2.0	Standards Working Group Team and IISC Membership	Version forwarded to the SCC for operationalization

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1 Introduction

The ISE Common Profile Framework description (Common Profile) is a means to standardize the way a modular component profile or an information interoperability profile is documented. The Common Profile is an important aid that provides a template for consistently documenting the contents of a profile for inter- and intra-organization information documentation and discovery. A profile characterizes a base set of standards, for example, an exchange profile with options necessary to accomplish (a) the desired purpose of interoperability and (b) a common methodology for referencing standards across multiple component solutions. The standards themselves are often configuration managed and listed in online available registries. For example, the DoD and IC managed their standards jointly via the DoD-IC Joint Enterprise Standards Committee (JESC); and they register decisions such as mandated use in the DoD Information Technology Standards Registry (DISR). Producers of a Common Profile aim to add value to the list of standards by providing further context on standards usage to the prospective Consumers.

Additionally, the profile provides a packaging construct that links detailed reference information to an instance within the enterprise. The profile is not intended to replace or duplicate detailed information describing a standard or technical component. *Profiles may be published and maintained in a Profile Repository within an organization or a similar domain-specific repository across organizations.*

Common Profiles may be written entirely by individual acquisition programs or partially by authoritative standards bodies that will use them to guide and lighten the load for those individual programs. For example, the Geospatial Intelligence Working Group (GWG), a Technical Working group for DoD and the Intelligence Community (IC), could write the Reference and Technical Views to provide a given capability; then, an acquisition program would need to provide the details of how they physically implement their guidance in the Implementation Instance View.

The Common Profile is further defined by three views that are used to identify the characteristics of the managed components within the enterprise: a Reference View, Technical Guidance View, and Implementation Instance View. These three Common Profile views are defined as follows:

- **Reference View:** Serves as the high-level abstract example or reference for the profiled enterprise component. It includes basic attributes, enterprise entities, and guidance information. The Reference View is implementation independent, vendor independent, and sometimes technology independent. The Reference View should contain applicable mission needs statements, use cases and reference architecture.

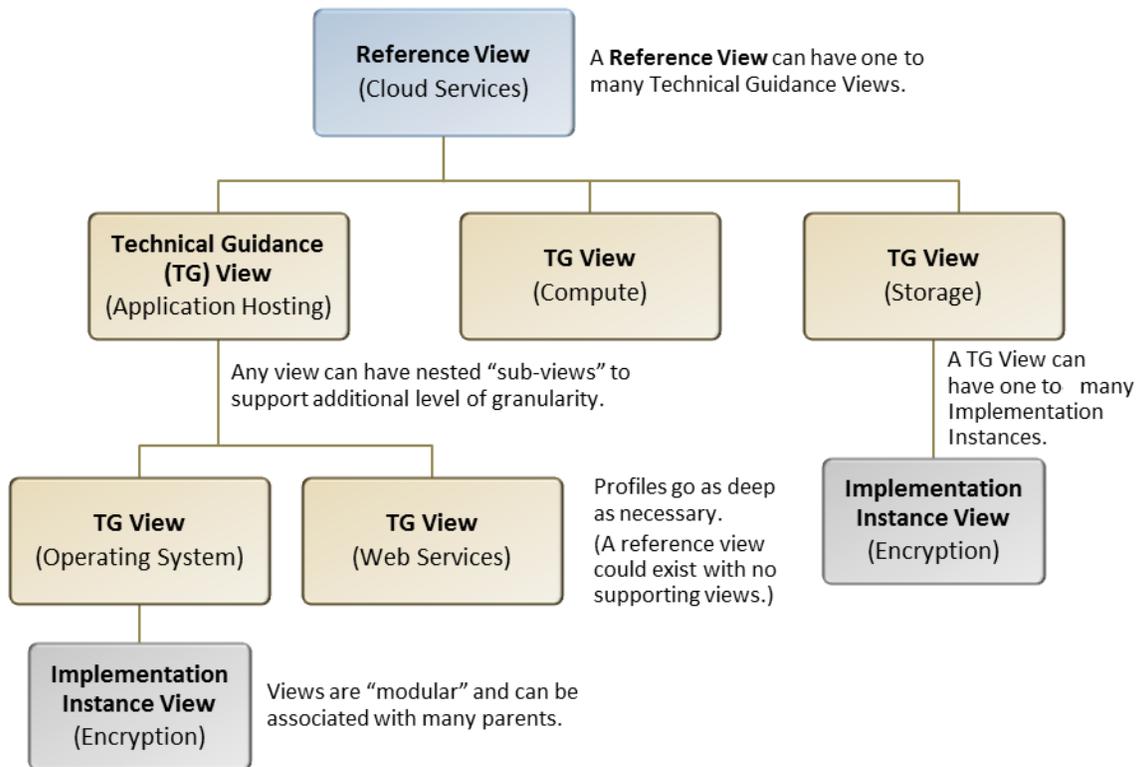
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- 35 • **Technical Guidance View:** A set of one or more base standards, and where applicable, the
36 definition of chosen classes, subsets, options, and parameters of those base standards
37 necessary for establishing the behaviors of a particular function or enterprise component.
38 The Technical Guidance View is vendor independent and includes basic attributes,
39 enterprise entities, implementation references, guidance, and compliance information.
- 40 • **Implementation Instance View:** Portrays a specific instance of an implementation and
41 defines discrete configurations and parameters for the given instance. It includes basic
42 attributes, enterprise entities, compliance information, and specific methods and
43 techniques. The Implementation Instance View may or may not be vendor independent.
44 This is the most detailed and specific view of a profile.

45 Figure 1 (below) shows a conceptual profile called “Cloud Services” which has three subordinate
46 Technical Guidance Views: Application Hosting, Compute, and Storage. The Application Hosting
47 View has subordinate (nested) Technical Guidance Views for Operating System and Web Services.
48 An Implementation Instance View for Encryption supports two different Technical Guidance
49 Views (Storage and Operating System). The example in Figure 1 highlights the flexibility of the
50 profile structure to adapt to particular needs.

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52

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Figure 1 - Profile Structure

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54 1.1 Objectives (adapted from ISO TR10000.1)

55 As stated in the International Organization of Standardization (ISO) TR10000.1, “Profiles are
 56 related to Base Standards, to Registration Mechanisms, and to Conformance Tests of the IT
 57 systems which implement them”. The practical implications of these relationships which
 58 specify requirements shall be satisfied by profiles defined in the Common Profile are described
 59 in Table 1 (below).

Standards Alignment	Relationship to Common Profile
Alignment to an Enterprise Component Business / Mission Needs through Use of Common Taxonomy to Establish Semantic Consistency	<ol style="list-style-type: none"> 1. Elements of functionality grouped together into a profile should correspond to identifiable, real world units of application or IT system design. 2. The purpose of a profile is to specify the use of sets of specifications to provide clearly defined functionality. 3. A taxonomy is a classification scheme for referencing profiles or sets of profiles unambiguously. From the taxonomy, identifiers for profiles are derived which indicate (in a codified form) the functional relationship of one profile to another.
Alignment to Base Standards	<ol style="list-style-type: none"> 1. A profile makes explicit the relationships within a set of base standards used together (relationships which can be implicit in the definitions of the base standards themselves), and may also specify particular details of each base standard being used. 2. Profiles promote integration of base standards by defining how to use a combination of base standards for a given function and environment.
Alignment to Conformance Criteria	<ol style="list-style-type: none"> 1. Profiles should provide a clear identification of the specific user requirements which are satisfied by the profiles. Occasionally, satisfaction of some of these requirements may identify functionality that is not covered by accepted base standards. This is defined as a "gap" in available standards. 2. Serve as the basis for the establishment of commonly recognized conformance test suites and test methods.

Table 1 - Common Profile Benefits

60

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61 **2 Profile Attributes**

62 The following tables represent the discrete information contained in a common profile and
63 present their appearance in the Reference, Technical Guidance, and Implementation Instance
64 Views. Information regarding changes to a specific common profile is reflected in its history.

65 In the following tables, the Profile Attribute names are listed along with their descriptions. The
66 tables (below) represent a detailed structure for the Common Profile, based upon the outline
67 and structure of International Standardization Organization ([ISO 10000.1](#)). As such, the
68 definition of a profile shall comprise of the following elements:

69 **Descriptive and contextual attributes** including:

- 70 – A concise definition of the scope of the function for which the profile is defined and the
71 user requirements it satisfies
- 72 – An illustration of the scenario within which the profile is applicable, giving, where
73 possible, a diagram of the IT systems, applications and interfaces which are relevant

74 **Base Set of Standards Attributes** – List of the applicable enterprise standards required by the
75 component being profiled, including:

- 76 – Normative (prescriptive) reference to a single set of base standards, including precise
77 identification
- 78 – Normative (prescriptive) inclusion of the actual text of the base standards, noting that
79 conformance to the standard is identified as potentially having an impact on achieving
80 interoperability or portability using the profile

81 **Conformance Attributes** – Describes any high-level conformance criteria, enterprise guidance,
82 or constraints affecting the enterprise component, including:

- 83 – Specifications of the application of each referenced base standard or related profile
84 stating the choice of classes or conforming subsets and the selection of options; ranges
85 of parameter values and references to registered objects; a statement defining the
86 requirements to be observed by IT systems claiming conformance to the profile
- 87 – If available, a reference to the specification of conformance tests for the profile
- 88 – Informative reference to any amendments or technical corrigenda to the base standards
89 referenced in the profile, which have been determined to be not applicable to the
90 profile, and to any other relevant source documents

91 **2.1 Reference View Attributes**

92 These attributes correspond to a specific profile instance. This view includes basic information
93 which applies to all profile types which are essential for indexing and managing sets of profiles.
94 Each profile must identify these essential information attributes. Reference View information
95 also includes the foundational setting in common enterprise and technical services taxonomies

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96 and a basic pattern for the profiled entity in context to an enterprise framework or
 97 architecture.

98 **Descriptive Attributes** – basic description of the component profiled to facilitate search,
 99 discovery, and reuse.

Reference View Attribute Name	Description
Overall Description Security Marking	This field documents the overall classification of the profile following for example: Controlled Access Program Coordination Office (CAPCO) procedures and handling instructions for DNI and part of DoD or other applicable Federal Government procedures that apply.
Profile Title	The descriptive name of the enterprise component, service, capability that are depicted in the profile.
General description	A brief text description of the profiled component. This field is primarily intended to be an abstract to assist in general search and discovery.
Detailed Description	A detailed text description of the profiled component. This description should be based on the enterprise and technical services referenced below.
Key Stakeholders	A listing of the key stakeholders along with their exchange partners, their roles and contact information
Adoption Date	The date of the profile is to be effective, for versioned instance.
Sunset Date (or Event)	The date on which the profile is no longer in effect. In some cases, this may be an event (e.g., on approval of follow-on profile).
Profile Type	An indicator used to differentiate between technical (IT) profiles and business (mission) profiles.

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Reference View Attribute Name	Description
Lifecycle Status	An indicator that depicts the profiled components' state of maturity in a lifecycle. This indicator equates to the standards lifecycle. - Valid values would include the draft, emerging, and mandated statuses.
Scope	Identification of the functional areas affected by the profile (e.g., Application Frameworks).
Business/ Mission Expected Outcomes	Provides a detailed description of the expectations for profiled component's output from a business/mission perspective. Output may be in physical or abstract/virtual forms.
Business/ Mission Output Metrics	Identification of the required measures of effectiveness and/or performance of the expected outcome. Output metrics should be identified for specific use cases.

Table 2 - Reference Descriptive Attributes

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102 **Architectural Alignment Attributes – architectural elements to be included in the Reference**

103 **View, these enable a cross reference from the profile to the architecture components**

Reference View Attribute Name	Description
Enterprise Services Supported	List of enterprise services which are supported by this profile. This should be defined in terms of services produced or consumed to identify interoperability requirements, and could support one (or many) enterprise services.
Interoperability Reference	Describes any relevant interoperability needs that may substantiate the output metrics and supply interoperability context.

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Reference View Attribute Name	Description
	<p><i>Below is the minimum set of artifacts to document interoperability using the OMB Common Approach</i> http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf:</p> <ul style="list-style-type: none"> - Application Interface Diagram (A1) - Application Communication Diagram (A2) - Application Data Exchange Matrix (A4)
<p>Reference Architecture Artifacts</p>	<p>Describes any relevant business needs that are documented in the following reference architecture artifacts.</p> <p><i>Below is the minimum set of artifacts for the reference view using the OMB Common Approach</i> http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf:</p> <ul style="list-style-type: none"> - Business Operating Plan (B2) - Business Service Catalog (B3) - Business Process Diagram (B1) - Logical Data Model (D1) - Technical Standards Profile (I3) - Technology Forecast (I-4) - Application Interface Diagram (A1) - Application Communication Diagram (A2) - Application Data Exchange Matrix (A4) - Security Controls Catalog (Core) (SP-1) - Certification and Accreditation Documentation (SP-3)
<p>Dependent/Adjacent Companion Profiles</p>	<p>References profiles for companion components needed or to those critical to the reference architecture. Companion profiles may point to other government systems or services. Dependent components should equate to interoperability reference (e.g., applications, systems, or services shown in architecture views).</p>
<p>Nested Profiles</p>	<p>References to supporting profiles that are “nested” within the Component’s profile (upstream or downstream relationship between profiles).</p>

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Table 3 - Reference Architectural Alignment Attributes

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108 **Contextual Attributes** – The relationship of the Common Profile to other profiles, or the
109 relationship to governing/consuming organizations.

Reference View Attribute Name	Description
Context	<p>Provides a general setting for how the profile's component is to be used and how to engage the profile's component. This may be in the form of a high-level overview, identifying the most optimal conditions for the component, example applications, and guidance on how not to apply the component.</p> <p><i>Below is the minimum set of artifacts to show the context of the profile using the OMB Common Approach:</i></p> <ul style="list-style-type: none">- Concept Overview Diagram (S1)
Domain	Identification of an organizational areas which are affected by the profile (e.g., global, IC and DoD only, IC only, etc.).
Domain/ Element Name	Specific identity of the profile's domain (e.g., DoD/ USAF).
Governance	Identifies the applicable governance and pedigree, relationship management responsibilities, roles and behaviors. Identifies applicable mandates and directives or cites policies governing the component.
Change Management Process	Provides the process by which to make changes to the profile along with the organization authorized to make changes.

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Reference View Attribute Name	Description
Developing Organization	The agency or organization responsible for developing the profile.
Accountable/ Steward /Executive Agent	The agency or organization responsible for managing the profile.
Mission/ Market Space Dimensions	Description of general mission and/or market space considerations. Describes the mission attributes and sub-domains. Dimensions should include groupings of customers, mission/ market trends, and specific application of the profile component in the community.
Submitter	The name of the person/ alias submitting the profile / Organization / Office of primary responsibility
Notification Email	E-mail address for the person/ group responsible for maintaining the profile.
Keywords	Free form text words or phrases that can be useful in searching for the profile. Examples might include: "Access Control," "Authentication," "Authorization," or other keywords as examples ...
Comments	Used to provide additional information that is not previously in a reference view attribute.
Profile Discussion	URL for profile discussion which could be a wiki, discussion thread, blog, or other means.

Table 4 - Reference Contextual Attributes

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112 2.2 Technical Guidance View Attributes

113 These provide more specific and detailed instructions on the related standards, policies, and
114 guidance mechanisms.

115 Contextual Attributes

Technical Guidance View Attribute Name	Description
Reference Specification	A short description of any attached technical specification for the profiled component. Describe how to extend or reuse without losing the semantic meaning of the content or comprising inherent interoperability requirements.
Technical Working Group	The working group or organizational body that has primary interest in and ownership of the profile throughout its lifecycle.
Technical Services Required	List of the technical services required by the profile.

116 **Table 5 - Technical Contextual Attributes**

117 Base Standards Attributes

Technical Guidance View Attribute Name	Description
Mandated Standards	Standards required for the management, development, and acquisition of the profiled capability in the specified domain.
Recommended Standards	Standards which are optional, but which will enhance the functionality of the profile's capability.
Supported Standards	Standards which are required to support one or more functions within the profiled capability, but are not directly used in the development of the profiled capability.

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Technical Guidance View Attribute Name	Description
Prohibited Standards	Use of these standards is expressly forbidden for the management, development, and acquisition of the profiled capability in the specified domain.

118

Table 6 - Technical Base Standards Attributes

119

Conformance/Compliance Attributes

Technical Guidance View Attribute Name	Description
Domain Guidance	Description of special considerations for implementation in specific domains such as the enterprise domain, DoD Tactical domain, etc. Description may include stated requirements and/or constraints.
Guidance Dependencies	Identifies temporal and other implementation dependencies, if known. May include guidance references, approvals, policies, and/or agency directed policies.
Guidance Policies	Identifies any enterprise policies applicable to the profiled component, which may include standard references as they apply to policies.
Customers and Stakeholders	Identifies primary (and secondary) customers, along with stakeholders, these may be users or other profiled components.
Benefits to Consumer	Describes aspects of the profiled component that are of specific benefit to the consumer -- not the provider. Benefits may leverage the context to articulate or exemplify abstract and intangible benefit.
Applicable Agreements	References to existing or developing Measures of Expectations (MOEs), Memoranda of Understanding (MOUs) or Service Level Agreements (SLAs) involving the profiled component.

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Technical Guidance View Attribute Name	Description
Compliance Mechanisms	References to specific mechanisms and special considerations used for assessing compliance to include test scenarios, scripts, conditional metrics, expected outcome, format, and reference criteria. Technical profiles identify specific parameters, configurations, or conditions applicable to discrete scripts or test scenarios.
Compliance Standards	Citations to standards that are needed to demonstrate compliance with specific options or reference selected parameters. Many of these parameters are dependent on the compliance mechanism and cited implementation guidance. Technical profiles identify specific options or selected parameters essential for verifying compliance.
Supporting Documents	Any supporting documents – agency or domain specific guidance, executive orders, presidential directives, or other guiding documents that are required should be hyperlinked into the Common Profile for easy access. These documents may be able to provide information related to the profile.
Use Cases	Illustrations of scenarios which the profile is applicable (possible diagrammatic representation).
User Requirements	Specific requirements applicable to mandatory and recommended standards referenced. These should map to the scenarios in the Reference View as well as use cases. Also include how these requirements are tested and applicable testing metrics.

Table 7 - Technical Conformance/Compliance Attributes

120

121

122 **Contextual Attributes**

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Technical Guidance View Attribute Name	Description
Keywords	Free form text words or phrases which can be useful in searching for the profile. Examples might include: “Compliance”, “HSPD-12”, “SAML”, or other potential technical/compliance focused terms.
Document Relationships	Free form text words which reference the documents that provides guidance on how the standards will be implemented and adhered to.

123

Table 8 - Technical Contextual Attributes

124

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125 2.3 **Implementation Instance View Attributes**

126 The Implementation Instance View provides a standards-based description of how the profiled
127 program/component interacts with its surrounding environment:

- 128 ▪ This view should also describe how the profiled program performs its function or
129 operations
- 130 ▪ Operational techniques should address process mechanisms and rules for how the program
131 should be provided or delivers the output
- 132 ▪ They may describe optional delivery modes and specification references that detail delivery
133 provisioning models, efficiency, adoption, and management techniques
- 134 ▪ They should be cited in reference to context, scope, mission/market space dimensions and
135 expected outcome
- 136 ▪ This view focuses on a specific implementation instance and defines discrete configurations
137 and parameters for the given instance
- 138 ▪ The parameters in this view include basis attributes, enterprise entities, compliance
139 information, and specific methods and techniques
- 140 ▪ This description is intended to be a standards exposition highlighting noteworthy features
141 and context of the profiled component
- 142 ▪ This description is not intended to replace the component design specification, but to
143 provide detail about the standards and design elements needed for compliance
- 144 ▪ Representational graphics, including DODAF or other architecture artifacts, may be
145 appropriate to provide context

Implementation Instance View Attribute Name	Description	Settings
Application Platform	A set of resources, including hardware and software that support the services on which application software will run. The application platform provides services at its interfaces that, where feasible, make the specific characteristics of the platform transparent to the application software	Providing the appropriate settings to configure the application platform.
Application Program Interface (API)	The interface between application software and application platform, across which all services are provided that exposes specific software	Providing the appropriate settings to configure the API.

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Implementation Instance View Attribute Name	Description	Settings
	functionality while protecting the rest of the application.	
Application Software	Software that is specific to an application and is composed of programs, data, and documentation.	Providing the appropriate settings for the software application.
Communication Services Interface (CSI)	The boundary that accesses the services for interaction between internal application software entities and application platform external entities.	Providing the appropriate settings to configure the CSI.
Human/ Computer Interface (HCI)	The boundary between the physical interaction of a human being and the application platform.	Providing the appropriate settings for all HCI.
Information Services Interface (ISI)	The boundary across which external, persistent storage service is provided.	Providing the appropriate settings for the interface between the application platform and external storage services.
Open System Environment (OSE)	A comprehensive set of interfaces, services, and supporting formats, plus user aspects for interoperability or for portability of applications, data, or people, as specified by information technology standards and profiles.	Providing additional or amplication settings with respect to the OSE as a whole.
Portability of Application Software	The ease with which application software and data can be transferred from one information system to another.	Providing constraints/limitations with respect to portability.

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Implementation Instance View Attribute Name	Description	Settings
Terms defined in ITU-T Rec. X.902 or ISO/IEC 10746-2 (Information technology - Open Distributed Processing - Reference Model: Foundations)	The following terms are defined in ITU-T Rec. X.902 ISO/IEC 10746-2, and are included here for convenience. ISO/IEC 10746 provides a coordinating framework for the standardization of open distributed processing (ODP). This supports distribution, interworking, portability, and platform and technology independence. It establishes an enterprise architecture framework for the specification of ODP systems.	
Interchange Reference Point	A reference point at which an external physical storage medium can be introduced into the IT system.	
Interworking Reference Point	A reference point at which an interface can be established to allow communications between two or more systems.	
Perceptual Reference Point	A reference point at which there is some interaction between the system and the physical world.	
Programmatic Reference Point	A reference point at which a programmatic interface can be established to allow access to a function.	
Operational Technique	Detailed descriptions of specific methods and techniques used in implementation of the profiled program.	

Table 9 - Implementation Instance Data Attributes

146

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148 3 Template

149 Below is an example which shows how a common approach would be developed to support a
150 single template that can be used across Federal, State, Local, and Tribal jurisdictions in a
151 common way. It can be used to formulate your agency's reference section. The text in this
152 template is borrowed from the Global Standards Council (GSC) of the Bureau of Justice Affairs
153 U.S Department of Justice.

154 **[ADD FORMAL NAME OF TEMPLATE HERE]**

155 3.1 Reference Section

156 Descriptive Attributes

157

158 3.1.1 Overall Description Security Marking

159 – **EXAMPLE:** SERVICE DESCRIPTION DOCUMENT (SDD) SECTION 2.7 SECURITY CLASSIFICATIONS

160

161 [THIS SECTION LISTS ANY APPLICABLE CLASSIFICATION OF THE SECURITY LEVEL OF THE INFORMATION
162 EXCHANGED BY THE SERVICE, SUCH AS SBU, SECRET, ETC. IF THERE IS NO STRICT CLASSIFICATION, THIS
163 SECTION CAN CONTAIN A BRIEF STATEMENT REGARDING THE SECURITY OF THE DATA.]

164

165 3.1.2 Profile Title

166 – **EXAMPLE:** [TITLE PAGE, NO SPECIFIC GUIDANCE]

167

168 3.1.3 General Description

169 – **EXAMPLE:** [THIS SECTION PROVIDES A SHORT TEXTUAL DESCRIPTION OF THE INTENDED PURPOSE OF THE
170 SERVICE. THIS SECTION AIDS THE CONSUMER IN QUICKLY DETERMINING WHETHER THE SERVICE BEING
171 SPECIFIED HAS APPLICABILITY TO THE CONSUMER'S NEEDS.]

172

173 3.1.4 Detailed Description

174 – **EXAMPLE:** [THE SERVICE OVERVIEW SECTION CONTAINS THE SCOPE AND STRUCTURE OF THE SERVICE
175 BEING DESCRIBED. THIS SECTION WILL EXPLAIN WHY THE SERVICE IS NEEDED AND WHAT IT IS INTENDED
176 TO DO, AND RELATES THE SERVICE TO ITS BUSINESS OBJECTIVES. IT SHOULD BE CLEAR AND CONCISE AND
177 TARGETED FOR A NONTECHNICAL AUDIENCE.]

178

179 THE QUESTIONS THAT NEED TO BE ANSWERED IN THE SERVICE OVERVIEW SUBSECTION ARE:

180

- 181 • WHAT IS THE SCOPE OF THE SERVICE AND ITS CAPABILITIES?
- 182 • WHAT ARE ITS REAL-WORLD EFFECTS?
- 183 • WHAT ARE THE CONDITIONS UNDER WHICH THIS SERVICE IS APPLICABLE?

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184 3.1.5 Key Stakeholders

- 185 – **EXAMPLE:** A LISTING OF THE KEY STAKEHOLDERS ALONG WITH THEIR EXCHANGE PARTNERS, THEIR ROLES
186 AND CONTACT INFORMATION

187 3.1.6 Adoption Date

- 188 – **EXAMPLE:** THE “INSERT NAME” WAS FORMALLY ADOPTED ON MM/DD/YYYY
189

190 3.1.7 Sunset Date (or Event)

- 191 – **EXAMPLE:** THE “INSERT NAME” WILL SUNSET ON MM/DD/YYYY
192

193 3.1.8 Profile Type: [TITLE PAGE, NO SPECIFIC GUIDANCE]

- 194 – **EXAMPLE:** REFERENCE PROFILE USED TO DESCRIBE THE BUSINESS OR MISSION REQUIREMENTS.
195

196 3.1.9 Lifecycle Status

- 197 – **EXAMPLE:** An indicator that depicts the profiled components’ state of maturity in a
198 lifecycle. This indicator equates to the standards lifecycle. - Valid values would
199 include the draft, emerging, and mandated statuses. [THIS SECTION DEFINES THE SERVICE
200 SPECIFICATION PACKAGE VERSION UNDER WHICH THIS SERVICE SPECIFICATION IS DEVELOPED.
201 ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE ARTIFACTS
202 FOLDER OF THE SERVICE PACKAGE. A DESCRIPTION OF THE ARTIFACT AND A LINK TO IT SHOULD BE
203 PROVIDED AS PART OF THE REFERENCE.]
204

205 3.1.10 Scope

- 206 – **EXAMPLE:** [THIS SECTION DEFINES (IN MORE DETAIL) THE CONDITIONS UNDER WHICH THE SERVICE IS
207 RELEVANT. IT IDENTIFIES POTENTIAL SERVICE CONSUMERS AND DESCRIBES HOW THE SERVICE IS
208 CURRENTLY BEING USED OR IS MOST LIKELY TO BE USED. THE PURPOSE OF THIS SUBSECTION IS TO ASSIST
209 THE SERVICE CONSUMER IN MAKING A DECISION OF WHETHER TO UTILIZE THIS SERVICE. - THE BUSINESS
210 SCENARIOS SECTION WILL PROVIDE ADDITIONAL DETAIL.]
211

212 3.1.11 Business/Mission Expected Outcomes

- 213 – **EXAMPLE :**

214 [THIS SECTION WILL DOCUMENT THE BUSINESS/MISSION REQUIREMENTS AND THE EXPECTED OUTCOMES
215 FOR THE SERVICE. THE SECTION SHOULD INCLUDE ALL OUT-OF-BAND REQUIREMENTS, NOT OTHERWISE
216 MENTIONED IN THE SERVICE DESCRIPTION THAT ARE SPECIFIC TO AND REQUIRED FOR SUCCESSFUL
217 IMPLEMENTATION OF THE SERVICE. THIS MAY INCLUDE REFERENCES TO POLICY, CONTRACTS, AND
218 ENFORCEMENT MECHANISMS AND A DESCRIPTION OF:

- 219 • POLICY ENFORCEMENT MECHANISMS.
- 220 • RULES AND PROCEDURES FOR IMPLEMENTING POLICY REQUIREMENTS INCLUDE:
 - 221 ○ SECURITY
 - 222 ○ PRIVACY
 - 223 ○ SERVICE USAGE

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- 224 ○ AND OTHER POLICIES
- 225 ● THE PRICING/COSTS; THIS DESCRIBES THE COSTS MODEL FOR THE SERVICE. THE COST
- 226 MODEL COULD BE FREE, TRANSACTION-BASED, SUBSCRIPTION-BASED, OR ANOTHER TYPE.
- 227 ● PROVISIONING MODEL AND EXECUTION CONTEXT. IT DESCRIBES THE RULES AND
- 228 PROCEDURES FOR PROVIDING THE SERVICE AND ITS OPERATIONS.
- 229 ● PERFORMANCE AND QUALITY OF SERVICE METRICS SUCH AS SERVICE AVAILABILITY,
- 230 RESPONSE TIMES, AND FAULT CONDITION RESPONSE PROCESSES.
- 231 ● MONITORING (AUDITING). IT DESCRIBES OBLIGATIONS FOR THE COLLECTION OF METRICS
- 232 FOR QUALITY OF SERVICE (QOS) ASSESSMENT.

233 OPERATIONAL CONSTRAINTS DESCRIBES: MAINTENANCE WINDOWS, TESTING/STAGING INFORMATION FOR
234 NEW RELEASES, NOTIFICATION PROCESSES AND EMERGENCY PROCEDURES, ETC., AND THEIR MONITORING
235 OBLIGATIONS. FUTURE VERSIONS OF THIS DOCUMENT WILL PROVIDE ADDITIONAL GUIDANCE ON
236 DOCUMENTING NON-AUTOMATED POLICIES AND CONTRACTS FOR SERVICE INTERFACES.

237

238 3.1.12 Business/Mission Output Metrics

239 – **EXAMPLE:** NON-AUTOMATED SERVICE POLICIES AND CONTRACTS.

240

241 [THIS SECTION WILL DOCUMENT THE BUSINESS/MISSION REQUIREMENTS METRICS FOR THE SERVICE. THESE
242 METRICS SHOULD INCLUDE MEASURES THAT ENABLE THE MONITORING OF QOS OBLIGATIONS. THE SECTION
243 SHOULD INCLUDE ALL OUT-OF-BAND REQUIREMENTS NOT OTHERWISE MENTIONED IN THE SERVICE
244 DESCRIPTION THAT ARE SPECIFIC TO AND REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE SERVICE.]

245

246 THIS MAY INCLUDE REFERENCES TO POLICY, CONTRACTS, AND ENFORCEMENT MECHANISMS AND A
247 DESCRIPTION OF:

- 248 ● POLICY ENFORCEMENT MECHANISMS. RULES AND PROCEDURES FOR IMPLEMENTING POLICY
- 249 REQUIREMENTS, INCLUDING SECURITY, PRIVACY, SERVICE USAGE, AND OTHER POLICIES.
- 250 ● PRICING/COSTS. DESCRIBES THE COSTS MODEL FOR THE SERVICE. THE COST MODEL COULD BE
- 251 FREE, TRANSACTION-BASED, SUBSCRIPTION-BASED, OR ANOTHER TYPE.
- 252 ● PROVISIONING MODEL AND EXECUTION CONTEXT. - THIS DESCRIBES THE RULES AND PROCEDURES
- 253 FOR PROVIDING THE SERVICE AND ITS OPERATIONS.
- 254 ● PERFORMANCE AND QUALITY OF SERVICE METRICS SUCH AS SERVICE AVAILABILITY, RESPONSE
- 255 TIMES, AND FAULT CONDITION RESPONSE PROCESSES.
- 256 ● MONITORING (AUDITING). - THIS DESCRIBES THE OBLIGATIONS FOR THE COLLECTION OF METRICS
- 257 FOR THE QUALITY OF SERVICE (QOS) ASSESSMENT.

258

259 OPERATIONAL CONSTRAINTS DESCRIBES: MAINTENANCE WINDOWS, TESTING/STAGING INFORMATION FOR
260 NEW RELEASES, NOTIFICATION PROCESSES AND EMERGENCY PROCEDURES, ETC., AND THEIR MONITORING
261 OBLIGATIONS. FUTURE VERSIONS OF THIS DOCUMENT WILL PROVIDE ADDITIONAL GUIDANCE ON
262 DOCUMENTING NON-AUTOMATED POLICIES AND CONTRACTS FOR SERVICE INTERFACES.

263

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264 **Architectural Alignment Attributes:**

265 3.1.13 **Enterprise Service List**

- 266 – **EXAMPLE:** NOT USUALLY CAPTURED AS PART OF THE SOFTWARE DESIGN DESCRIPTION (SDD) OR THE
267 SOFTWARE INTERFACE DESCRIPTION (SIDD). (LIST OF SERVICES SPECIFICATIONS).

268 269 3.1.14 **Interoperability Reference**

- 270 – **EXAMPLE:** [THIS SECTION SHOULD DESCRIBE, EITHER BY DETAIL OR BY REFERENCE, ANY RELEVANT
271 INTEROPERABILITY NEEDS THAT MAY SUBSTANTIATE THE OUTPUT METRICS AND SUPPLY
272 INTEROPERABILITY CONTEXT. THE TECHNICAL IMPLEMENTATION (PHYSICAL MODEL) OF THE SERVICE
273 IMPLEMENTED VIA THE DESCRIBED SERVICE INTERFACE (E.G., WEB SERVICES DEFINITION, SCHEMA,
274 DIGITAL POLICIES, AND PERFORMANCE/QUALITY OF SERVICE METRICS OR OTHER SIMILAR STRUCTURES).
275
- 276 – THE ABOVE INFORMATION CAN BE MADE PART OF THIS DOCUMENT OR INCLUDED BY REFERENCE IN THIS
277 DOCUMENT. ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE
278 ARTIFACTS FOLDER OF THE SERVICE PACKAGE OR THE SCHEMA FOLDER OF THE SERVICE PACKAGE. IF
279 SUCH ARTIFACTS ARE PROVIDED, THEY SHOULD BE REFERENCED IN THIS SECTION. A DESCRIPTION OF THE
280 ARTIFACT AND A LINK TO IT SHOULD BE PROVIDED AS PART OF THE REFERENCE.]

281 282 3.1.15 **Reference Architecture**

- 283 – **EXAMPLE:** [THIS SECTION SHOULD DESCRIBE DIRECTLY, OR BY REFERENCE, ANY RELEVANT BUSINESS
284 NEEDS THAT DOCUMENTED IN LISTED REFERENCE ARCHITECTURE ARTIFACTS BELOW:
285
- 286 ▪ Business Operating Plan (B2)
 - 287 ▪ Business Service Catalog (B3)
 - 288 ▪ Business Process Diagram (B1)
 - 289 ▪ Logical Data Model (D1)
 - 290 ▪ Technical Standards Profile (I3)
 - 291 ▪ Technology Forecast (I-4)
 - 292 ▪ Application Interface Diagram (A1)
 - 293 ▪ Application Communication Diagram (A2)
 - 294 ▪ Application Data Exchange Matrix (A4)
 - 295 ▪ Security Controls Catalog (Core) (SP-1)
 - 296 ▪ Certification and Accreditation Documentation (SP-3)
- 297
- 298 – THE ABOVE INFORMATION CAN BE MADE PART OF THIS DOCUMENT OR INCLUDED BY REFERENCE IN THIS
299 DOCUMENT. ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE
300 ARTIFACTS FOLDER OF THE SERVICE PACKAGE OR THE SCHEMA FOLDER OF THE SERVICE PACKAGE. IF
301 SUCH ARTIFACTS ARE PROVIDED, THEY SHOULD BE REFERENCED IN THIS SECTION. A DESCRIPTION OF THE
302 ARTIFACT AND A LINK TO IT SHOULD BE PROVIDED AS PART OF THE REFERENCE.]
- 303

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304 3.1.16 Dependent/Adjacent Companion Profiles

- 305 – **EXAMPLE:** [THIS SECTION PROVIDES REFERENCES TO PROFILES FOR COMPANION COMPONENTS NEEDED
306 OR CRITICAL TO THE REFERENCE ARCHITECTURE. COMPANION PROFILES MAY POINT TO OTHER
307 GOVERNMENT SYSTEMS OR SERVICES. DEPENDENT COMPONENTS SHOULD EQUATE TO
308 INTEROPERABILITY REFERENCES.]

310 3.1.17 Nested Profiles

- 311 – **EXAMPLE:** [THIS SECTION PROVIDES REFERENCES TO SUPPORTING PROFILES THAT ARE “NESTED”
312 WITHIN THE COMPONENT’S PROFILE (UPSTREAM OR DOWNSTREAM RELATIONSHIP BETWEEN
313 PROFILES).]

315 Contextual Attributes

316 3.1.18 Context

- 317 – **EXAMPLE:** [THIS SECTION OF THE DOCUMENT PROVIDES A MORE DETAILED, BUT STILL HIGH-LEVEL, THIS
318 SECTION PRESENTS THE CONCEPTUAL MODEL FOR THE ACTIONS SUPPORTED BY THE SERVICE. THE
319 BUSINESS SCENARIOS SECTION SHOULD BE USED TO IDENTIFY THE TYPICAL USAGE OF THE SERVICE IN A
320 CONTEXT. THIS DEFINES THE PRIMARY FLOW. NARRATIVE DESCRIPTION THAT MAY BE SUPPORTED BY
321 INDUSTRY STANDARD MODELING NOTATION WHERE APPROPRIATE. AGAIN, CARE SHOULD BE TAKEN TO
322 BE AS CLEAR AND PRECISE AS POSSIBLE AND TO DEFINE REAL SCENARIOS THAT WOULD BE RELEVANT TO A
323 SIGNIFICANT NUMBER OF ORGANIZATIONS. THIS WOULD BE SIMILAR TO A HIGH-LEVEL BUSINESS USE
324 CASE, ELABORATED IN TECHNOLOGY-AGNOSTIC TERMS. IF A BUSINESS SCENARIO HAS ALTERNATIVE
325 FLOWS, THESE SHOULD ALSO BE DOCUMENTED. SIMPLE ALTERNATIVE FLOWS CAN BE DOCUMENTED IN
326 TEXT WITHIN THE PRIMARY FLOW. COMPLEX ALTERNATIVE FLOWS MAY NEED A SEPARATE SECTION TO
327 DESCRIBE THEIR FLOW. IT IS RECOMMENDED THAT DIAGRAMS BE UTILIZED TO AUGMENT THE
328 NARRATIVE DESCRIPTION OF EACH BUSINESS SCENARIO. THE USE OF BPMN, JIEM, UML WORK AND
329 PROCESS FLOW MODELS, OR SIMILAR OPEN-STANDARD NOTATION TO DEVELOP THE DIAGRAMS ARE
330 RECOMMENDED. ULTIMATELY, BUSINESS SCENARIOS WILL BETTER DESCRIBE THE SERVICE THAN
331 EXPLANATORY TEXT, SINCE THEY ARE ILLUSTRATIONS OF THE ROLE THE SERVICE IS ENVISIONED TO PLAY.
332 THERE IS NO NEED TO IDENTIFY AND ELABORATE DOZENS OF SCENARIOS IN THIS SECTION. A SERVICE
333 DESCRIPTION COULD CONTAIN MORE THAN ONE BUSINESS SCENARIO. IN THIS CASE, THIS DOCUMENT
334 WILL CONTAIN MORE THAN ONE BUSINESS SCENARIO SECTION.]

336 3.1.19 Domain

- 337 – **EXAMPLE:** THIS SECTION DESIGNATES WHICH ORGANIZATIONAL AREAS ARE AFFECTED BY THE PROFILE.
338

339 3.1.20 Domain/Element Name

- 340 – **EXAMPLE: SDD.**

341 [THIS SECTION DOCUMENTS THE DOMAIN OWNER OF THE PROFILE, EXAMPLE DEPARTMENT OF DEFENSE
342 USAF].
343

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344 3.1.21 Governance

- 345 – **EXAMPLE:** [THIS SECTION INCLUDES INFORMATION ABOUT ANY POLICIES AND CONTRACTS APPLICABLE
346 TO THE SPECIFIC IMPLEMENTATION OF THE SERVICE.]

347

348 3.1.22 Change Management Process

- 349 – **EXAMPLE:** [THE SECTION PROVIDES THE PROCESS (IF KNOWN) BY WHICH TO MAKE CHANGES TO THE
350 PROFILE ALONG WITH THE ORGANIZATION AUTHORIZED TO MAKE CHANGES.]

351 3.1.23 Developing Organization

- 352 – **EXAMPLE:** [THE AGENCY OR ORGANIZATION RESPONSIBLE FOR DEVELOPING THE PROFILE.]

353

354 3.1.24 Accountable / Steward / Executive Agent

- 355 – **EXAMPLE:** [THIS SECTION STATES THE AGENCY OR ORGANIZATION RESPONSIBLE FOR MANAGING THE
356 PROFILE.]

357

358 3.1.25 Mission/Market Space Dimensions

- 359 – **EXAMPLE:** [THE SERVICE OVERVIEW SECTION CONTAINS THE SCOPE AND STRUCTURE OF THE SERVICE
360 BEING DESCRIBED. THIS SECTION WILL EXPLAIN WHY THE SERVICE IS NEEDED AND WHAT IT IS INTENDED
361 TO DO, AND RELATES THE SERVICE TO ITS BUSINESS OBJECTIVES. IT SHOULD BE CLEAR AND CONCISE AND
362 TARGETED FOR A NONTECHNICAL AUDIENCE. THE PURPOSE OF THIS SECTION SHOULD BE TO PROVIDE A
363 GOOD UNDERSTANDING OF THE SERVICE AND ITS ACTIONS FOR PEOPLE WHO MAY HAVE AN INTEREST IN
364 THIS SERVICE.]

365

366 THE QUESTIONS THAT NEED TO BE ANSWERED IN THE SERVICE OVERVIEW SUBSECTION ARE:

- 367 • WHAT IS THE SCOPE OF THE SERVICE AND ITS CAPABILITIES?
368 • WHAT ARE THE REAL-WORLD EFFECTS?
369 • WHAT ARE THE CONDITIONS UNDER WHICH THIS SERVICE IS APPLICABLE?

370

371 3.1.26 Submitter

- 372 – **EXAMPLE:** SDD/SIDD.

373 [THIS SECTION PROVIDES THE NAME OF THE PERSON/ALIAS WHO IS SUBMITTING THE PROFILE.]

374

375 3.1.27 Notification Email

- 376 – **EXAMPLE:** [THIS SECTION PROVIDES THE EMAIL ADDRESS OF THE POC FOR THE PROFILE.]

377

378 3.1.28 Keywords

- 379 – **EXAMPLE:** SDO GLOSSARY.

380 [THIS SECTION IS USED TO LIST GLOSSARY TERMS USED IN THE DOCUMENT.]

381

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[GLOSSARY TERM OR ACRONYM]	[GLOSSARY TERM OR ACRONYM DESCRIPTION]
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Table 9 – SDO Glossary

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3.1.29 Comments

- **EXAMPLE:** [THIS SECTION CONTAINS ANY ADDITIONAL INFORMATION PERTINENT TO THE SERVICE WHICH SHOULD BE INCLUDED IN THIS DOCUMENT BUT DOES NOT BELONG IN THE DOCUMENT SECTIONS ABOVE. THIS COULD BE INFORMATION ABOUT FUTURE CAPABILITIES THE SERVICE COULD PROVIDE, INFORMATION REGARDING SPECIFIC CONDITIONS WHICH GOVERN THE USE OF THE SERVICE, INFORMATION REGARDING SPECIFIC DOMAIN CAPABILITIES THE SERVICE FULFILLS, ETC. IF REQUIRED, SUBSECTIONS CAN BE CREATED TO FURTHER STRUCTURE THE INFORMATION PROVIDED IN THIS SECTION.]

ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE ARTIFACTS FOLDER OF THE SERVICE PACKAGE. A SERVICE ABBREVIATION [SSP SERVICE VERSION] AND ARTIFACTS, IF SUCH ARTIFACTS ARE PROVIDED, SHOULD BE REFERENCED IN THIS SECTION. A DESCRIPTION OF THE ARTIFACT, AS WELL AS A LINK TO IT SHOULD BE PROVIDED AS PART OF THE REFERENCE.

3.1.30 Profile Discussion

- **EXAMPLE: SDD.**
[THIS WOULD BE A URL OF A PROFILE DISCUSSION VIA A WIKI, DISCUSSION THREAD, BLOG, OR OTHER MEANS.]

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402 **3.2 Technical Specifications**

403 **Contextual Attributes**

404 **3.2.1 Reference Specification**

405 – **EXAMPLE:** [REFERENCE AND TECHNICAL SPECIFICATIONS ARE ALL CONTAINED IN THE SPECIFICATION
406 PACKAGE.]

407
408 **3.2.2 Technical Working Group**

409 – **EXAMPLE:** [THIS SECTION PROVIDES THE NAME OF THE WORKING GROUP OR ORGANIZATIONAL BODY
410 THAT HAS PRIMARY INTEREST IN AND OWNERSHIP OF THE PROFILE THROUGHOUT ITS LIFECYCLE.]

411
412 **3.2.3 Technical Services Taxonomy (ies)**

413 – **EXAMPLE:** THREE SERVICE INTERACTION REQUIREMENTS.

414
415 [THIS SECTION SHOULD DESCRIBE DIRECTLY, OR REFERENCE, THE TECHNICAL IMPLEMENTATION
416 (PHYSICAL MODEL) OF THE SERVICE IMPLEMENTED, VIA THE DESCRIBED SERVICE INTERFACE (E.G., WEB
417 SERVICES DEFINITION, SCHEMA, ELECTRONIC POLICIES, AND PERFORMANCE/QUALITY OF SERVICE
418 METRICS OR OTHER SIMILAR STRUCTURES). THE PHYSICAL MODEL SHOULD SUFFICIENTLY DESCRIBE THE
419 SET OF ACTIONS IMPLEMENTED BY THE SERVICE INTERFACE AND THE PHYSICAL ENDPOINT(S) FOR
420 ACCESSING THESE ACTIONS.

421
422 THIS SECTION WILL ALSO INCLUDE ANY RELEVANT DETAILS OF THE SERVICE INTERACTION PROFILE (SIP)
423 THAT WILL GOVERN HOW THE SERVICE INTERACTION REQUIREMENTS (OF THE SERVICE) WILL BE MET.
424 THE PHYSICAL MODEL DESCRIBED IN THIS DOCUMENT WILL ALSO PROVIDE DETAILS REGARDING THE
425 MESSAGE SCHEMA(S) FOR THE INFORMATION MODEL OF THE SERVICE. THE (ABOVE) INFORMATION CAN
426 BE MADE PART OF THIS DOCUMENT OR CAN BE INCLUDED (BY REFERENCE) IN THIS DOCUMENT. THE
427 FOLLOWING CHART PROVIDES A SIMPLE MECHANISM TO IDENTIFY WHICH INTERACTION REQUIREMENTS
428 ARE MANDATORY TO SUPPORT ALL ACTIONS OF SERVICE AND THE INDUSTRY SPECIFICATIONS WHICH CAN
429 BE LEVERAGED TO FULFILL THESE REQUIREMENTS.

430

REQUIREMENTS	MANDATORY (YES/NO)	SPECIFICATION
SERVICE CONSUMER AUTHENTICATION		
SERVICE CONSUMER AUTHORIZATION		
IDENTITY AND ATTRIBUTE ASSERTION TRANSMISSION		
SERVICE AUTHENTICATION		

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REQUIREMENTS	MANDATORY (YES/NO)	SPECIFICATION
MESSAGE NON-REPUDIATION		
MESSAGE INTEGRITY		
MESSAGE CONFIDENTIALITY		
MESSAGE ADDRESSING		
RELIABILITY		
TRANSACTION SUPPORT		
SERVICE METADATA AVAILABILITY		
INTERFACE DESCRIPTION REQUIREMENTS		
SERVICE RESPONSIVENESS		

Table 10 - Technical Services Taxonomy

431

432

[EXAMPLE CONTINUED...]

433

THE APPROACH TO THE IMPLEMENTATION OF THE SERVICE INTERACTION REQUIREMENTS LARGELY DEPENDS ON THE SERVICE INTERACTION PROFILE BEING IMPLEMENTED. AN EXAMPLE OF WEB SERVICES IMPLEMENTATION LEVERAGING WS-POLICY IS AVAILABLE UNDER THE SCHEMA FOLDER OF THE SERVICE PACKAGE.

434

435

436

437

ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE ARTIFACTS FOLDER OF THE SERVICE PACKAGE. [IF SUCH ARTIFACTS ARE PROVIDED, THEY SHOULD BE REFERENCED IN THIS SECTION. A DESCRIPTION OF THE ARTIFACT AND A LINK TO IT SHOULD BE PROVIDED AS PART OF THE REFERENCE.]

438

439

440

441

INTERFACE DESCRIPTION REQUIREMENTS

442

[THIS SECTION SHOULD CONTAIN ANY INTERFACE DESCRIPTION REQUIREMENTS DICTATED BY THE SERVICE ACTIONS.]

443

444

PER THE GRA, INTERFACE DESCRIPTION REQUIREMENTS DEFINE COMMON RULES OF SERVICE INTERACTION. TYPICALLY, THESE REQUIREMENTS ARE NOT DIRECTLY RELATED TO THE CAPABILITY USED BY THE SERVICE CONSUMER, NOR ARE THEY RELATED TO THE REAL-WORLD EFFECT RESULTING FROM USE OF THAT CAPABILITY. RATHER, THE REQUIREMENTS ENFORCE (OR SUPPORTING THE ENFORCEMENT) OF POLICIES OR CONTRACTS, OR OTHERWISE PROTECT THE INTERESTS OF PARTICULAR BUSINESS PARTNERS OR THE BUSINESS ORGANIZATION OVERALL.

445

446

447

448

449

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450 [ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE SERVICE INTERFACE
451 DESCRIPTION ARTIFACTS FOLDER OF THE SERVICE PACKAGE. IF SUCH ARTIFACTS ARE PROVIDED, THEY
452 SHOULD BE REFERENCED IN THIS SECTION. A DESCRIPTION OF THE ARTIFACT AND A LINK TO IT SHOULD BE
453 PROVIDED AS PART OF THE REFERENCE.]

454

455 **Base Standards Attributes**

456

457 **3.2.4 Mandated Standards**

- 458 – **EXAMPLE:** [THIS SECTION LISTS THE STANDARDS REQUIRED FOR THE MANAGEMENT, DEVELOPMENT,
459 AND ACQUISITION OF THE PROFILED CAPABILITY IN THE SPECIFIED DOMAIN.]

460

461 **3.2.5 Recommended Standards**

- 462 – **EXAMPLE:** [THIS SECTION LISTS STANDARDS WHICH ARE OPTIONAL, BUT WILL ENHANCE THE
463 FUNCTIONALITY OF THE PROFILED CAPABILITY.]

464

465 **3.2.6 Supported Standards**

- 466 – **EXAMPLE:** [THIS SECTION LISTS THOSE STANDARDS REQUIRED TO SUPPORT ONE OR MORE FUNCTIONS
467 WITHIN THE PROFILED CAPABILITY, BUT ARE NOT DIRECTLY USED IN THE DEVELOPMENT OF THE PROFILED
468 CAPABILITY.]

469

470 **3.2.7 Prohibited Standards**

- 471 – **EXAMPLE:** [THIS SECTION LISTS THE STANDARDS FOR WHICH THE USE OF IS EXPRESSLY FORBIDDEN FOR
472 MANAGEMENT, DEVELOPMENT, AND ACQUISITION OF THE PROFILED CAPABILITY IN THE SPECIFIED
473 DOMAIN.]

474

475 **Conformance/Compliance Attributes**

476 **3.2.8 Domain Guidance**

- 477 – **EXAMPLE:** [THIS SECTION PROVIDES A DESCRIPTION OF SPECIAL CONSIDERATIONS FOR
478 IMPLEMENTATION IN SPECIFIC DOMAINS SUCH AS THE ENTERPRISE DOMAIN, DOD TACTICAL DOMAIN,
479 ETC. THE DESCRIPTION MAY INCLUDE STATED REQUIREMENTS AND/OR CONSTRAINTS.]

480

481 **3.2.9 Guidance Dependencies**

- 482 – **EXAMPLE: SSID SECTION 7 POLICIES AND CONTRACTS.**

483 [THIS SECTION INCLUDES INFORMATION ABOUT ANY POLICIES AND CONTRACTS APPLICABLE TO THE
484 SPECIFIC IMPLEMENTATION OF THE SERVICE.]

485

486 **3.2.10 Guidance Policies**

- 487 – **EXAMPLE: SSID SECTION 7 POLICIES AND CONTRACTS.**

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488 [THIS SECTION INCLUDES INFORMATION ABOUT ANY POLICIES AND CONTRACTS APPLICABLE TO THE
489 SPECIFIC IMPLEMENTATION OF THE SERVICE.]

490 3.2.11 Customers and Stakeholders

491 – **EXAMPLE:** [THIS SECTION IDENTIFIES PRIMARY AND SECONDARY CUSTOMERS AND STAKEHOLDERS,
492 WHICH MAY BE DISCRETE USERS OR OTHER PROFILED COMPONENTS.]

493 494 3.2.12 Benefits to Consumer

495 – **EXAMPLE: SSID SECTION 2.1 (PURPOSE).**

496 [THIS SECTION PROVIDES A SHORT TEXTUAL DESCRIPTION OF THE INTENDED PURPOSE OF THE SERVICE.
497 THIS SECTION AIDS THE CONSUMER IN QUICKLY DETERMINING WHETHER THE SERVICE BEING SPECIFIED
498 HAS APPLICABILITY TO THE CONSUMER’S NEEDS.]

499 500 3.2.13 Applicable Agreements

501 – **EXAMPLE: SSID SECTION 8 UMBRELLA AGREEMENTS.**

502 [SOME SERVICES WILL BE GOVERNED BY HIGH-LEVEL UMBRELLA MOUs WHICH DESCRIBE HIGH-LEVEL
503 TERMS AND CONDITIONS AGREED TO BY BOTH PARTIES. THESE SERVICE INTERFACE DESCRIPTIONS
504 SHOULD REFERENCE ANY GOVERNING MOUs. ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S
505 CONTENT CAN BE PROVIDED IN THE IF SUCH ARTIFACTS ARE PROVIDED; THEY SHOULD BE REFERENCED IN
506 THIS SECTION. A DESCRIPTION OF THE ARTIFACT AND A LINK TO IT SHOULD BE PROVIDED AS PART OF THE
507 REFERENCE.]

508 509 3.2.14 Compliance Mechanisms

510 – **EXAMPLE: SSID SECTION 11 SERVICE TESTING.**

511 [SERVICE PROVIDERS MAY DEPLOY TESTING FACILITIES AND SPECIFIC TESTING ENVIRONMENTS FOR THEIR
512 SERVICES. USE OF THESE TESTING FACILITIES AND ENVIRONMENTS MAY BE REQUIRED OR OPTIONAL. AS
513 CONSUMERS IMPLEMENT SERVICE INTERFACES, THERE WILL BE A NEED TO TEST THOSE
514 IMPLEMENTATIONS. SERVICE PROVIDERS SHOULD DOCUMENT IN THIS SECTION TESTING OPTIONS,
515 TESTING PREREQUISITES, TEST ENDPOINTS, ENVIRONMENTAL REQUIREMENTS, TEST SCHEDULES, AND
516 CONTROL PROCEDURES AND SAMPLE DATA (INPUTS AND EXPECTED OUTPUTS) FOR EACH SUPPORTED
517 ACTION. ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE
518 ARTIFACTS FOLDER OF THE SERVICE PACKAGE.]

519 520 3.2.15 Compliance Standards

521 – **EXAMPLE:** [THIS SECTION PROVIDES CITATION TO STANDARDS NEEDED TO DEMONSTRATE COMPLIANCE
522 WITH SPECIFIC OPTIONS OR REFERENCE SELECTED PARAMETERS. MANY OF THESE PARAMETERS ARE
523 DEPENDENT ON THE COMPLIANCE MECHANISM AND CITED IMPLEMENTATION GUIDANCE. TECHNICAL
524 PROFILES IDENTIFY SPECIFIC OPTIONS OR SELECTED PARAMETERS ESSENTIAL FOR VERIFYING
525 COMPLIANCE.]

526

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527 3.2.16 Supporting Documents

528 – **EXAMPLE:** [THIS SECTION IS USED TO LIST APPLICABLE REFERENCES.]

529

REFERENCE NAME AND DESCRIPTION	[FULLY QUALIFIED LINK OR PATH TO THE REFERENCE INFORMATION]
---------------------------------------	---

530

Table 11 – Supporting Documents

531

532 3.2.17 Use Cases

533 – **EXAMPLE:** [THIS SECTION OF THE DOCUMENT PROVIDES A MORE DETAILED, BUT HIGH-LEVEL,
534 NARRATIVE DESCRIPTION WHICH MAY BE SUPPORTED AN INDUSTRY STANDARD MODELING NOTATION,
535 WHERE APPROPRIATE. AGAIN, CARE SHOULD BE TAKEN TO BE AS CLEAR AND PRECISE AS POSSIBLE TO
536 DEFINE REAL SCENARIOS THAT WOULD BE RELEVANT TO A SIGNIFICANT NUMBER OF ORGANIZATIONS.
537 THIS SECTION PRESENTS THE CONCEPTUAL MODEL FOR THE ACTIONS SUPPORTED BY THE SERVICE.]

538

539 A SERVICE DESCRIPTION COULD CONTAIN MORE THAN ONE BUSINESS SCENARIO. IN THIS CASE, THIS
540 DOCUMENT WILL CONTAIN MORE THAN ONE BUSINESS SCENARIO SECTION.

541

542 3.2.18 User Requirements

543 – **EXAMPLE:** [THIS SHOULD INCLUDE SPECIFIC REQUIREMENTS APPLICABLE TO MANDATORY AND
544 RECOMMENDED STANDARDS REFERENCED. THESE SHOULD MAP TO THE SCENARIOS IN THE REFERENCE
545 VIEW, USE CASE, AND THE TEST OF THE REQUIREMENTS]

546 Contextual Attributes:

547 3.2.19 Keywords

548 – **EXAMPLE:** [THIS SECTION IS USED TO LIST GLOSSARY TERMS USED IN THE DOCUMENT.]

Glossary Term or Acronym	Glossary term or acronym description
---------------------------------	--------------------------------------

549

Table 12 – Contextual Attributes

550 3.2.20 Document Relationship

551 – **EXAMPLE:** [THIS SECTION INCLUDES INFORMATION ABOUT POLICIES AND CONTRACTS APPLICABLE TO THE
552 SPECIFIC IMPLEMENTATION OF THE SERVICE.]

553

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554 3.3 Implementation Specifications

555 3.3.1 Application Platform

- 556 – **EXAMPLE:** [THIS SECTION PROVIDES A SET OF RESOURCES, INCLUDING HARDWARE AND SOFTWARE THAT
557 SUPPORT THE SERVICES ON WHICH APPLICATION SOFTWARE WILL RUN. THE APPLICATION PLATFORM
558 PROVIDES SERVICES AT ITS INTERFACES, WHERE FEASIBLE, THAT MAKE THE SPECIFIC CHARACTERISTICS OF THE
559 PLATFORM TRANSPARENT TO THE APPLICATION SOFTWARE.
- 560 – PROVIDING THE APPROPRIATE SETTINGS TO CONFIGURE THE APPLICATION PLATFORM.

561 3.3.2 Application Program Interface (API)

- 562 – **EXAMPLE:** [THIS SECTION PROVIDES INFORMATION ON THE INTERFACE BETWEEN APPLICATION SOFTWARE
563 AND THE APPLICATION PLATFORM, ACROSS WHICH ALL SERVICES ARE PROVIDED THAT EXPOSES JUST THE
564 NECESSARY SOFTWARE FUNCTIONALITY WHILE PROTECTING THE REST OF THE APPLICATION.]
- 565 – THE SOFTWARE COMPONENT SHOULD BE SPECIFIED IN TERMS OF ITS OPERATIONS, THEIR REQUIRED AND/OR
566 OPTIONAL INPUTS AND OUTPUTS ALONG WITH ROUTINES, PROTOCOLS, AND UNDERLYING TYPES. THE RESULT
567 SHOULD PROVIDE THE APPROPRIATE SETTINGS TO CONFIGURE THE API.

568 3.3.3 Application Software

- 569 – **EXAMPLE:** [THIS SECTION PROVIDES INFORMATION ABOUT THE APPLICATION SOFTWARE THAT IS SPECIFIC TO
570 THE APPLICATION AND IS COMPOSED OF PROGRAMS, DEPENDENT SOFTWARE AND FRAMEWORKS, DATA, AND
571 DOCUMENTATION.]
- 572 – PROVIDING THE APPROPRIATE SETTING FOR THE ACTUAL SOFTWARE APPLICATION FOR THE ENVIRONMENT
573 THAT IT WAS DESIGN/BUILT TO FUNCTION IN.

574 3.3.4 Communication Services Interface (CSI)

- 575 – **EXAMPLE:** [THIS SECTION PROVIDES INFORMATION ABOUT THE BOUNDARY ACROSS WHICH ACCESS TO
576 SERVICES FOR INTERACTION BETWEEN INTERNAL APPLICATION SOFTWARE ENTITIES AND EXTERNAL
577 APPLICATION PLATFORM ENTITIES INTERACT.]
- 578 – PROVIDING THE APPROPRIATE SETTINGS TO CONFIGURE THE CSI.

579 3.3.5 Human / Computer Interface (HCI)

- 580 – **EXAMPLE:** [THIS SECTION PROVIDES INFORMATION ABOUT THE BOUNDARY ACROSS WHICH PHYSICAL
581 INTERACTION BETWEEN A HUMAN AND THE UNDERLYING APPLICATION PLATFORM TAKES PLACE.]
- 582 – PROVIDING THE APPROPRIATE SETTINGS FOR ALL APPLICATION HCIS.

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583 3.3.6 Information Services Interface (ISI)

- 584 – **EXAMPLE:** [THIS SECTION PROVIDES INFORMATION ABOUT THE BOUNDARY ACROSS WHICH EXTERNAL
- 585 PERSISTENT STORAGE SERVICES IS PROVIDED TO THE APPLICATION PLATFORM.
- 586 – PROVIDING THE APPROPRIATE SETTINGS FOR THE INTERFACE BETWEEN THE APPLICATION PLATFORM AND
- 587 EXTERNAL STORAGE SERVICES.

588 3.3.7 Open System Environment (OSE)

- 589 – **EXAMPLE:** [THIS SECTION PROVIDES A COMPREHENSIVE SET OF INTERFACES, SERVICES, AND SUPPORTING
- 590 FORMATS, PLUS USER ASPECTS FOR INTEROPERABILITY OR FOR PORTABILITY OF APPLICATIONS, DATA, OR
- 591 PEOPLE, AS SPECIFIED BY INFORMATION TECHNOLOGY STANDARDS AND PROFILES.]
- 592 – PROVIDING ADDITIONAL OR AMPLICATION SETTING WITH RESPECT TO THE OSE AS A WHOLE.

593 3.3.8 Portability of Application Software

- 594 – **EXAMPLE:** [THIS SECTION ADDRESSES THE EASE WITH WHICH APPLICATION SOFTWARE AND DATA CAN BE
- 595 TRANSFERRED FROM ON INFORMATION SYSTEM TO ANOTHER].
- 596 – PROVIDING CONSTRAINTS AND/OR LIMITATIONS WITH RESPECT TO PORTABILITY.

597 3.3.9 Terms defined in ITU-T Rec. X.902 [ISO/IEC 10746-2]

- 598 – **EXAMPLE:** [THIS SECTION PROVIDES THE TERMS DEFINED IN ITU-T REC. X.902 (ISO/IEC 10746-2) THAT
- 599 ARE DEEMED RELEVANT AND NECESSARY.]

600 3.3.10 Interchange Reference Point

- 601 – **EXAMPLE:** [THE SECTION PROVIDES A REFERENCE POINT AT WHICH AN EXTERNAL PHYSICAL STORAGE
- 602 MEDIUM CAN BE INTRODUCED INTO THE IT SYSTEM.]

603 3.3.11 Interworking Reference Point

- 604 – **EXAMPLE:** [THIS SECTION PROVIDES A REFERENCE POINT AT WHICH AN INTERFACE CAN BE ESTABLISHED TO
- 605 ALLOW COMMUNICATIONS BETWEEN TWO OF MORE SYSTEMS.]

606 3.3.12 Perceptual Reference Point

- 607 – **EXAMPLE:** [THIS SECTION PROVIDES A REFERENCE POINT AT WHICH THERE IS SOME INTERACTION BETWEEN
- 608 THE SYSTEM AND THE PHYSICAL WORLD.]

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609 3.3.13 Programmatic Reference Point

- 610 – **EXAMPLE:** [THIS SECTION PROVIDES A REFERENCE POINT AT WHICH A PROGRAMMATIC INTERFACE CAN BE
611 ESTABLISHED TO ALLOW ACCESS TO A FUNCTION.]

612 3.3.14 Operational Technique

- 613 – **EXAMPLE:** [THIS SECTION PROVIDES DETAILED DESCRIPTIONS OF SPECIFIC METHODS AND TECHNIQUES USED
614 IN IMPLEMENTATION OF THE PROFILED PROGRAM.]

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615

616 **4 References Considered**

617 THE FOLLOWING SOURCES AND REPRESENTATIVE EXAMPLES WERE USED TO DERIVE THE SET OF PROFILE
618 ATTRIBUTES PRESENTED IN THIS DOCUMENT:

- 619 – INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ISO/IEC TECHNICAL RECOMMENDATION
620 10000-1 ([HTTPS://WWW.ISO.ORG/OBP/UI/#ISO:STD:ISO-IEC:TR:10000:-1:ED-4:V1:EN](https://www.iso.org/obp/ui/#iso:std:iso-iec:tr:10000:-1:ed-4:v1:en))
- 621 – GLOBAL INFORMATION GRID TECHNICAL PROFILE (GTP) TEMPLATE
- 622 – DoD ACQUISITION GUIDEBOOK, NR-KPP
- 623 – INFORMATION SHARING ENVIRONMENT – INFORMATION INTEROPERABILITY FRAMEWORK (I2F)
624 [HTTP://WWW.ISE.GOV/SITES/DEFAULT/FILES/FINAL%20-%20ISE_I2F_V0%205.PDF](http://www.ise.gov/sites/default/files/final%20-%20ise_i2f_v0%205.pdf)
- 625 – JOINT ARCHITECTURE REFERENCE MODEL (JARM) META-MODEL
- 626 – JARM 10-LAYER, ENTERPRISE SERVICE LIST (ESL), TECHNICAL SERVICES TAXONOMY (TST)
- 627 – NGA BUSINESS SERVICES TEMPLATE
- 628 – MICROSOFT APPLICATION PROFILE
- 629 – MISC TWG AUTHOR CONTRIBUTIONS

630 **5 Terms of Reference**

631 THE FOLLOWING IS A LIST OF TERMS USED IN THIS DOCUMENT:

- 632 – COMPONENT – A MODULAR UNIT PORTRAYED IN THE ENTERPRISE ARCHITECTURE TO WHICH
633 STANDARDS ARE APPLIED.
- 634 – ER2 – ALSO KNOWN AS THE “ENTERPRISE REGISTRY AND REPOSITORY; A WEB-BASED DATABASE
635 APPLICATION WHICH CONTAINS INTELLIGENCE COMMUNITY INFORMATION AND GUIDANCE
636 PERTAINING TO PROFILES AND STANDARDS (IT AND BUSINESS).
- 637 – GTP – AN ACRONYM FOR THE “GLOBAL INFORMATION GRID TECHNICAL PROFILE”; A SIMILAR
638 PROFILING CONCEPT USED BY THE DoD TO CHARACTERIZE MODULAR COMPONENTS IN THE DoD
639 ENTERPRISE.
- 640 – JARM – AN ACRONYM FOR THE “JOINT ARCHITECTURE REFERENCE MODEL”; A STRUCTURE USED TO
641 CHARACTERIZE ALL THE MODULAR COMPONENTS CONTAINED IN THE INTELLIGENCE COMMUNITY
642 ENTERPRISE.
- 643 – ICS – AN ACRONYM FOR THE “INTELLIGENCE COMMUNITY STANDARD,” A TERM FREQUENTLY USED
644 TO DENOTE A POLICY GUIDANCE DOCUMENT THAT IS INTENDED TO BE USED AS COMMON DIRECTION
645 ACROSS THE IC.
- 646 – ENTERPRISE STANDARDS BASELINE AND DoD INFORMATION TECHNOLOGY STANDARDS REGISTRY
647 (DISR) -- THE CONFIGURATION MANAGED IC AND DoD, RESPECTIVELY, REPOSITORIES OF
648 STANDARDS FOR USE BY THOSE ORGANIZATIONS.
- 649

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Field ID	ISO 10000-1 Link	IISC-SWG Reference View Attribute Name	IISC-SWG Definition's	DoD Profile Guidance - (TBD) Profile Template - Capability Description Package (CDP) Template "Built off the GiG Technical Profile" (FOUO) (Previously Validated By OUSD-I)	DOJ Profile Guidance - GRA Service Specification Guideline v1.0.0 Profile Template - GRA Service Specification Package, v1.0.0 (Validated)	NIEM Profile Guidance - TBD Profile Template - Model Package Description (MPD) Specification & Information Exchange Package Documentation (IEPD) (Validated)	STIX Profile Guidance - STIX Profile Overview White Paper Profile Template - STIX Profile Template (Need to Validate)
Key Artifacts to support Reference Model	NA	NA	NA	Technical Design Document Service Specification Package Artifacts	Service Description Document Service Specification Package Artifacts	MPD Artifacts (Model Releases, Domain Updates, Core Updates, IEPD, EIEM/BIEC)	STIX Profile
Conformance Test Process, Suite or Tool	NA	NA	NA	Yes - Conformance Test Kits to support Program offices	<u>Yes - Springboard Initiative - "Open Networks"</u>	<u>Yes - Springboard Initiative - "Open Networks"</u>	NA
Repository Like Structure	NA	NA	NA	NA	<u>Global Reference Architecture Website</u>	<u>National Information Exchange Model (NIEM) Web Site</u>	<u>STIX Web Site</u>
1	Section 8.1 (b) - ISPs shall follow the IEC/ISO Rules for the drafting and presentation of International Standards. See Annex A for relevant extracts from these rules, adapted for use in ISPs. See Annex A for relevant Extracts from these rules adapted for use in ISP.	Overall Description on Security Marking	The overall classification of the profile (using CAPCO markings)	Classification / distribution markings on documents included in CDP	NA	Part of the IEPD - Master Document	Part of Profile Information Section - Distribution

Table 13 – Enterprise Standards Baseline and DoD Information Technology Standards Registry

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6 **Appendix A: Analysis of Profile Approaches**

6.1 **Reference View Analysis**