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<tr>
<td><strong>Document Owner</strong></td>
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<tr>
<td><strong>Document Responsibility</strong></td>
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<tr>
<td><strong>Document Version</strong></td>
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## Document Change History

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<th>Team/Group</th>
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<td>11 November 2013</td>
<td>1.0</td>
<td>Standards Working Group</td>
<td>Initial distribution of draft paper.</td>
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<tr>
<td>12 September 2014</td>
<td>1.1</td>
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<td>Second distribution of draft paper.</td>
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<td>20 November 2014</td>
<td>1.2</td>
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<tr>
<td>5 December 2014</td>
<td>1.3</td>
<td>Standards Working Group Team and IISC Membership</td>
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<td>1.4</td>
<td>IISC Membership</td>
<td>Fifth distribution of draft paper</td>
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<tr>
<td>29 December 2014</td>
<td>2.0</td>
<td>Standards Working Group Team and IISC Membership</td>
<td>Version forwarded to the SCC for operationalization</td>
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## Contributing Agencies, Departments, and Organizations

<table>
<thead>
<tr>
<th><strong>Contributors</strong></th>
</tr>
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<tbody>
<tr>
<td>Department of Homeland Security</td>
</tr>
<tr>
<td>Federal Bureau of Investigation</td>
</tr>
<tr>
<td>Department of Justice</td>
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<tr>
<td>Intelligence Communities</td>
</tr>
<tr>
<td>Program Manager – Information Sharing Environment</td>
</tr>
<tr>
<td>Department of Defense</td>
</tr>
<tr>
<td>IJIS Institute</td>
</tr>
<tr>
<td>Institute for Defense Analysis</td>
</tr>
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# Common Profile

*Profile Framework & Definitions*

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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.
• **Technical Guidance View:** A set of one or more base standards, and where applicable, the definition of chosen classes, subsets, options, and parameters of those base standards necessary for establishing the behaviors of a particular function or enterprise component. The Technical Guidance View is vendor independent and includes basic attributes, enterprise entities, implementation references, guidance, and compliance information.

• **Implementation Instance View:** Portrays a specific instance of an implementation and defines discrete configurations and parameters for the given instance. It includes basic attributes, enterprise entities, compliance information, and specific methods and techniques. The Implementation Instance View may or may not be vendor independent. This is the most detailed and specific view of a profile.

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

**Figure 1 - Profile Structure**
1.1 Objectives (adapted from ISO TR10000.1)

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

<table>
<thead>
<tr>
<th>Standards Alignment</th>
<th>Relationship to Common Profile</th>
</tr>
</thead>
</table>
| Alignment to an Enterprise Component Business / Mission Needs through Use of Common Taxonomy to Establish Semantic Consistency | 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 | 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 | 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
Common Profile
Profile Framework & Definitions

2 Profile Attributes

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

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

Descriptive and contextual attributes including:
- A concise definition of the scope of the function for which the profile is defined and the user requirements it satisfies
- An illustration of the scenario within which the profile is applicable, giving, where possible, a diagram of the IT systems, applications and interfaces which are relevant

Base Set of Standards Attributes – List of the applicable enterprise standards required by the component being profiled, including:
- Normative (prescriptive) reference to a single set of base standards, including precise identification
- Normative (prescriptive) inclusion of the actual text of the base standards, noting that conformance to the standard is identified as potentially having an impact on achieving interoperability or portability using the profile

Conformance Attributes – Describes any high-level conformance criteria, enterprise guidance, or constraints affecting the enterprise component, including:
- Specifications of the application of each referenced base standard or related profile stating the choice of classes or conforming subsets and the selection of options; ranges of parameter values and references to registered objects; a statement defining the requirements to be observed by IT systems claiming conformance to the profile
- If available, a reference to the specification of conformance tests for the profile
- Informative reference to any amendments or technical corrigenda to the base standards referenced in the profile, which have been determined to be not applicable to the profile, and to any other relevant source documents

2.1 Reference View Attributes

These attributes correspond to a specific profile instance. This view includes basic information which applies to all profile types which are essential for indexing and managing sets of profiles. Each profile must identify these essential information attributes. Reference View information also includes the foundational setting in common enterprise and technical services taxonomies.
and a basic pattern for the profiled entity in context to an enterprise framework or architecture.

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

<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall Description Security Marking</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Profile Title</strong></td>
<td>The descriptive name of the enterprise component, service, capability that are depicted in the profile.</td>
</tr>
<tr>
<td><strong>General description</strong></td>
<td>A brief text description of the profiled component. This field is primarily intended to be an abstract to assist in general search and discovery.</td>
</tr>
<tr>
<td><strong>Detailed Description</strong></td>
<td>A detailed text description of the profiled component. This description should be based on the enterprise and technical services referenced below.</td>
</tr>
<tr>
<td><strong>Key Stakeholders</strong></td>
<td>A listing of the key stakeholders along with their exchange partners, their roles and contact information</td>
</tr>
<tr>
<td><strong>Adoption Date</strong></td>
<td>The date of the profile is to be effective, for versioned instance.</td>
</tr>
<tr>
<td><strong>Sunset Date (or Event)</strong></td>
<td>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).</td>
</tr>
<tr>
<td><strong>Profile Type</strong></td>
<td>An indicator used to differentiate between technical (IT) profiles and business (mission) profiles.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifecycle Status</td>
<td>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.</td>
</tr>
<tr>
<td>Scope</td>
<td>Identification of the functional areas affected by the profile (e.g., Application Frameworks).</td>
</tr>
<tr>
<td>Business/ Mission Expected Outcomes</td>
<td>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.</td>
</tr>
<tr>
<td>Business/ Mission Output Metrics</td>
<td>Identification of the required measures of effectiveness and/or performance of the expected outcome. Output metrics should be identified for specific use cases.</td>
</tr>
</tbody>
</table>

**Table 2 - Reference Descriptive Attributes**

**Architectural Alignment Attributes** – architectural elements to be included in the Reference View, these enable a cross reference from the profile to the architecture components

<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Services Supported</td>
<td>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.</td>
</tr>
<tr>
<td>Interoperability Reference</td>
<td>Describes any relevant interoperability needs that may substantiate the output metrics and supply interoperability context.</td>
</tr>
</tbody>
</table>
Common Profile
Profile Framework & Definitions

<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below is the minimum set of artifacts to document interoperability using the OMB Common Approach <a href="http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf">http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf</a>:</td>
<td></td>
</tr>
<tr>
<td>- Application Interface Diagram (A1)</td>
<td></td>
</tr>
<tr>
<td>- Application Communication Diagram (A2)</td>
<td></td>
</tr>
<tr>
<td>- Application Data Exchange Matrix (A4)</td>
<td></td>
</tr>
<tr>
<td>Describes any relevant business needs that are documented in the following reference architecture artifacts. Below is the minimum set of artifacts for the reference view using the OMB Common Approach <a href="http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf">http://www.whitehouse.gov/sites/default/files/omb/assets/egov_docs/common_approach_to_federal_ea.pdf</a>:</td>
<td></td>
</tr>
<tr>
<td>- Business Operating Plan (B2)</td>
<td></td>
</tr>
<tr>
<td>- Business Service Catalog (B3)</td>
<td></td>
</tr>
<tr>
<td>- Business Process Diagram (B1)</td>
<td></td>
</tr>
<tr>
<td>- Logical Data Model (D1)</td>
<td></td>
</tr>
<tr>
<td>- Technical Standards Profile (I3)</td>
<td></td>
</tr>
<tr>
<td>- Technology Forecast (I-4)</td>
<td></td>
</tr>
<tr>
<td>- Application Interface Diagram (A1)</td>
<td></td>
</tr>
<tr>
<td>- Application Communication Diagram (A2)</td>
<td></td>
</tr>
<tr>
<td>- Application Data Exchange Matrix (A4)</td>
<td></td>
</tr>
<tr>
<td>- Security Controls Catalog (Core) (SP-1)</td>
<td></td>
</tr>
<tr>
<td>- Certification and Accreditation Documentation (SP-3)</td>
<td></td>
</tr>
<tr>
<td>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).</td>
<td></td>
</tr>
<tr>
<td>References to supporting profiles that are “nested” within the Component’s profile (upstream or downstream relationship between profiles).</td>
<td></td>
</tr>
</tbody>
</table>
**Contextual Attributes** – The relationship of the Common Profile to other profiles, or the relationship to governing/consuming organizations.

<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Context**                  | 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.  

*Below is the minimum set of artifacts to show the context of the profile using the OMB Common Approach:*  
- 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. |
## Common Profile

*Profile Framework & Definitions*

<table>
<thead>
<tr>
<th>Reference View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developing Organization</td>
<td>The agency or organization responsible for developing the profile.</td>
</tr>
<tr>
<td>Accountable/ Steward</td>
<td>The agency or organization responsible for managing the profile.</td>
</tr>
<tr>
<td>Executive Agent</td>
<td></td>
</tr>
<tr>
<td>Mission/ Market Space</td>
<td>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.</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Submitter</td>
<td>The name of the person/ alias submitting the profile / Organization / Office of primary responsibility</td>
</tr>
<tr>
<td>Notification Email</td>
<td>E-mail address for the person/ group responsible for maintaining the profile.</td>
</tr>
<tr>
<td>Keywords</td>
<td>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 ...</td>
</tr>
<tr>
<td>Comments</td>
<td>Used to provide additional information that is not previously in a reference view attribute.</td>
</tr>
<tr>
<td>Profile Discussion</td>
<td>URL for profile discussion which could be a wiki, discussion thread, blog, or other means.</td>
</tr>
</tbody>
</table>

*Table 4 - Reference Contextual Attributes*
2.2 **Technical Guidance View Attributes**

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

### Contextual Attributes

<table>
<thead>
<tr>
<th>Technical Guidance View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Specification</td>
<td>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.</td>
</tr>
<tr>
<td>Technical Working Group</td>
<td>The working group or organizational body that has primary interest in and ownership of the profile throughout its lifecycle.</td>
</tr>
<tr>
<td>Technical Services Required</td>
<td>List of the technical services required by the profile.</td>
</tr>
</tbody>
</table>

**Table 5 - Technical Contextual Attributes**

### Base Standards Attributes

<table>
<thead>
<tr>
<th>Technical Guidance View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandated Standards</td>
<td>Standards required for the management, development, and acquisition of the profiled capability in the specified domain.</td>
</tr>
<tr>
<td>Recommended Standards</td>
<td>Standards which are optional, but which will enhance the functionality of the profile’s capability.</td>
</tr>
<tr>
<td>Supported Standards</td>
<td>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.</td>
</tr>
</tbody>
</table>
## Common Profile

*Profile Framework & Definitions*

<table>
<thead>
<tr>
<th>Technical Guidance View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prohibited Standards</strong></td>
<td>Use of these standards is expressly forbidden for the management, development, and acquisition of the profiled capability in the specified domain.</td>
</tr>
</tbody>
</table>

### Table 6 - Technical Base Standards Attributes

<table>
<thead>
<tr>
<th>Technical Guidance View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domain Guidance</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Guidance Dependencies</strong></td>
<td>Identifies temporal and other implementation dependencies, if known. May include guidance references, approvals, policies, and/or agency directed policies.</td>
</tr>
<tr>
<td><strong>Guidance Policies</strong></td>
<td>Identifies any enterprise policies applicable to the profiled component, which may include standard references as they apply to policies.</td>
</tr>
<tr>
<td><strong>Customers and Stakeholders</strong></td>
<td>Identifies primary (and secondary) customers, along with stakeholders, these may be users or other profiled components.</td>
</tr>
<tr>
<td><strong>Benefits to Consumer</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Applicable Agreements</strong></td>
<td>References to existing or developing Measures of Expectations (MOEs), Memoranda of Understanding (MOUs) or Service Level Agreements (SLAs) involving the profiled component.</td>
</tr>
</tbody>
</table>
## Common Profile

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<table>
<thead>
<tr>
<th>Technical Guidance View Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance Mechanisms</td>
<td>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.</td>
</tr>
<tr>
<td>Compliance Standards</td>
<td>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.</td>
</tr>
<tr>
<td>Supporting Documents</td>
<td>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.</td>
</tr>
<tr>
<td>Use Cases</td>
<td>Illustrations of scenarios which the profile is applicable (possible diagrammatic representation).</td>
</tr>
<tr>
<td>User Requirements</td>
<td>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.</td>
</tr>
</tbody>
</table>

*Table 7 - Technical Conformance/Compliance Attributes*
## Technical Guidance View

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Keywords</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Document Relationships</strong></td>
<td>Free form text words which reference the documents that provides guidance on how the standards will be implemented and adhered to.</td>
</tr>
</tbody>
</table>

*Table 8 - Technical Contextual Attributes*
2.3 Implementation Instance View Attributes

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

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

<table>
<thead>
<tr>
<th>Implementation Instance View Attribute Name</th>
<th>Description</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Platform</td>
<td>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.</td>
<td>Providing the appropriate settings to configure the application platform.</td>
</tr>
<tr>
<td>Application Program Interface (API)</td>
<td>The interface between application software and application platform, across which all services are provided that exposes specific software</td>
<td>Providing the appropriate settings to configure the API.</td>
</tr>
</tbody>
</table>
## Common Profile

*Profile Framework & Definitions*

<table>
<thead>
<tr>
<th>Implementation Instance View Attribute Name</th>
<th>Description</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>funcionality while protecting the rest of the application.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 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 amplification 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. |
### Common Profile

*Profile Framework & Definitions*

<table>
<thead>
<tr>
<th>Implementation Instance View Attribute Name</th>
<th>Description</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terms defined in ITU-T Rec. X.902 or <a href="https://www.iso.org/standard/34629.html">ISO/IEC 10746-2</a> (Information technology - Open Distributed Processing - Reference Model: Foundations)</td>
<td>The following terms are defined in ITU-T Rec. X.902</td>
<td>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.</td>
</tr>
<tr>
<td>Interchange Reference Point</td>
<td>A reference point at which an external physical storage medium can be introduced into the IT system.</td>
<td></td>
</tr>
<tr>
<td>Interworking Reference Point</td>
<td>A reference point at which an interface can be established to allow communications between two or more systems.</td>
<td></td>
</tr>
<tr>
<td>Perceptual Reference Point</td>
<td>A reference point at which there is some interaction between the system and the physical world.</td>
<td></td>
</tr>
<tr>
<td>Programmatic Reference Point</td>
<td>A reference point at which a programmatic interface can be established to allow access to a function.</td>
<td></td>
</tr>
<tr>
<td>Operational Technique</td>
<td>Detailed descriptions of specific methods and techniques used in implementation of the profiled program.</td>
<td></td>
</tr>
</tbody>
</table>

**Table 9 - Implementation Instance Data Attributes**
3 Template

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

[ADD FORMAL NAME OF TEMPLATE HERE]

3.1 Reference Section

3.1.1 Overall Description Security Marking

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

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

3.1.2 Profile Title

- **EXAMPLE**: [TITLE PAGE, NO SPECIFIC GUIDANCE]

3.1.3 General Description

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

3.1.4 Detailed Description

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

  THE QUESTIONS THAT NEED TO BE ANSWERED IN THE SERVICE OVERVIEW SUBSECTION ARE:
  
  - WHAT IS THE SCOPE OF THE SERVICE AND ITS CAPABILITIES?
  - WHAT ARE ITS REAL-WORLD EFFECTS?
  - WHAT ARE THE CONDITIONS UNDER WHICH THIS SERVICE IS APPLICABLE?
3.1.5 Key Stakeholders

- **EXAMPLE:** A listing of the key stakeholders along with their exchange partners, their roles and contact information.

3.1.6 Adoption Date

- **EXAMPLE:** The “insert name” was formally adopted on MM/DD/YYYY.

3.1.7 Sunset Date (or Event)

- **EXAMPLE:** The “insert name” will sunset on MM/DD/YYYY.

3.1.8 Profile Type: [Title Page, no specific guidance]

- **EXAMPLE:** Reference profile used to describe the business or mission requirements.

3.1.9 Lifecycle Status

- **EXAMPLE:** 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. [This section defines the service specification package version under which this service specification is developed. Additional artifacts related to this section's content can be provided in the artifacts folder of the service package. A description of the artifact and a link to it should be provided as part of the reference.]

3.1.10 Scope

- **EXAMPLE:** [This section defines (in more detail) the conditions under which the service is relevant. It identifies potential service consumers and describes how the service is currently being used or is most likely to be used. The purpose of this subsection is to assist the service consumer in making a decision of whether to utilize this service. - The Business Scenarios section will provide additional detail.]

3.1.11 Business/Mission Expected Outcomes

- **EXAMPLE:**

  [This section will document the business/mission requirements and the expected outcomes for the service. The section should include all out-of-band requirements, not otherwise mentioned in the Service Description that are specific to and required for successful implementation of the service. This may include references to policy, contracts, and enforcement mechanisms and a description of:

  - Policy enforcement mechanisms.
  - Rules and procedures for implementing policy requirements include:
    - Security
    - Privacy
    - Service usage]
AND OTHER POLICIES

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

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

3.1.12 Business/Mission Output Metrics

- EXAMPLE: NON-AUTOMATED SERVICE POLICIES AND CONTRACTS.

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

THIS MAY INCLUDE REFERENCES TO POLICY, CONTRACTS, AND ENFORCEMENT MECHANISMS AND A
DESCRIPTION OF:
- POLICY ENFORCEMENT MECHANISMS. RULES AND PROCEDURES FOR IMPLEMENTING POLICY
  REQUIREMENTS, INCLUDING SECURITY, PRIVACY, SERVICE USAGE, AND OTHER POLICIES.
- PRICING/COSTS. DESCRIBES THE COSTS MODEL FOR THE SERVICE. THE COST MODEL COULD BE
  FREE, TRANSACTION-BASED, SUBSCRIPTION-BASED, OR ANOTHER TYPE.
- PROVISIONING MODEL AND EXECUTION CONTEXT. - THIS DESCRIBES THE RULES AND PROCEDURES
  FOR PROVIDING THE SERVICE AND ITS OPERATIONS.
- PERFORMANCE AND QUALITY OF SERVICE METRICS SUCH AS SERVICE AVAILABILITY, RESPONSE
  TIMES, AND FAULT CONDITION RESPONSE PROCESSES.
- MONITORING (AUDITING). - THIS DESCRIBES THE OBLIGATIONS FOR THE COLLECTION OF METRICS
  FOR THE QUALITY OF SERVICE (QOS) ASSESSMENT.

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

3.1.13 Enterprise Service List

- **EXAMPLE:** Not usually captured as part of the Software Design Description (SDD) or the Software Interface Description (SID), (list of services specifications).

3.1.14 Interoperability Reference

- **EXAMPLE:** This section should describe, either by detail or by reference, any relevant interoperability needs that may substantiate the output metrics and supply interoperability context. The technical implementation (physical model) of the service implemented via the described service interface (e.g., Web Services definition, schema, digital policies, and performance/quality of service metrics or other similar structures).

- The above information can be made part of this document or included by reference in this document. Additional artifacts related to this section’s content can be provided in the artifacts folder of the service package or the schema 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.

3.1.15 Reference Architecture

- **EXAMPLE:** This section should describe directly, or by reference, any relevant business needs that documented in listed reference architecture artifacts below:

  - 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)

- The above information can be made part of this document or included by reference in this document. Additional artifacts related to this section’s content can be provided in the artifacts folder of the service package or the schema 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.
3.1.16 **Dependent/Adjacent Companion Profiles**

- **Example:** [This section provides references to profiles for companion components needed or critical to the reference architecture. Companion profiles may point to other government systems or services. Dependent components should equate to interoperability references.]

3.1.17 **Nested Profiles**

- **Example:** [This section provides references to supporting profiles that are “nested” within the component’s profile (upstream or downstream relationship between profiles).]

**Contextual Attributes**

3.1.18 **Context**

- **Example:** [This section of the document provides a more detailed, but still high-level, this section presents the conceptual model for the actions supported by the service. The business scenarios section should be used to identify the typical usage of the service in a context. This defines the primary flow. Narrative description that may be supported by industry standard modeling notation where appropriate. Again, care should be taken to be as clear and precise as possible and to define real scenarios that would be relevant to a significant number of organizations. This would be similar to a high-level business use case, elaborated in technology-agnostic terms. If a business scenario has alternative flows, these should also be documented. Simple alternative flows can be documented in text within the primary flow. Complex alternative flows may need a separate section to describe their flow. It is recommended that diagrams be utilized to augment the narrative description of each business scenario. The use of BPMN, JIEM, UML work and process flow models, or similar open-standard notation to develop the diagrams are recommended. Ultimately, business scenarios will better describe the service than explanatory text, since they are illustrations of the role the service is envisioned to play. There is no need to identify and elaborate dozens of scenarios in this section. A service description could contain more than one business scenario. In this case, this document will contain more than one business scenario section.]

3.1.19 **Domain**

- **Example:** This section designates which organizational areas are affected by the profile.

3.1.20 **Domain/Element Name**

- **Example:** SDD.

  [This section documents the domain owner of the profile, Example Department of Defense USAF].
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3.1.21 Governance
- **EXAMPLE:** [This section includes information about any policies and contracts applicable to the specific implementation of the service.]

3.1.22 Change Management Process
- **EXAMPLE:** [The section provides the process (if known) by which to make changes to the profile along with the organization authorized to make changes.]

3.1.23 Developing Organization
- **EXAMPLE:** [The agency or organization responsible for developing the profile.]

3.1.24 Accountable / Steward / Executive Agent
- **EXAMPLE:** [This section states the agency or organization responsible for managing the profile.]

3.1.25 Mission/Market Space Dimensions
- **EXAMPLE:** [The service overview section contains the scope and structure of the service being described. This section will explain why the service is needed and what it is intended to do, and relates the service to its business objectives. It should be clear and concise and targeted for a nontechnical audience. The purpose of this section should be to provide a good understanding of the service and its actions for people who may have an interest in this service.]

The questions that need to be answered in the service overview subsection are:

- **What is the scope of the service and its capabilities?**
- **What are the real-world effects?**
- **What are the conditions under which this service is applicable?**

3.1.26 Submitter
- **EXAMPLE:** SDD/SIDD.

  [This section provides the name of the person/alias who is submitting the profile.]

3.1.27 Notification Email
- **EXAMPLE:** [This section provides the email address of the POC for the profile.]

3.1.28 Keywords
- **EXAMPLE:** SDO GLOSSARY.

  [This section is used to list glossary terms used in the document.]
### Table 9 – SDO Glossary

<table>
<thead>
<tr>
<th>Glossary Term or Acronym</th>
<th>Glossary Term or Acronym Description</th>
</tr>
</thead>
</table>

#### 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.]
3.2 Technical Specifications

Contextual Attributes

3.2.1 Reference Specification

- **Example**: [Reference and Technical Specifications are all contained in the Specification Package.]

3.2.2 Technical Working Group

- **Example**: [This section provides the name of the working group or organizational body that has primary interest in and ownership of the profile throughout its lifecycle.]

3.2.3 Technical Services Taxonomy (ies)

- **Example**: Three Service Interaction Requirements.

  [This section should describe directly, or reference, the technical implementation (physical model) of the service implemented, via the described service interface (e.g., Web Services definition, schema, electronic policies, and performance/quality of service metrics or other similar structures). The physical model should sufficiently describe the set of actions implemented by the service interface and the physical endpoint(s) for accessing these actions.]

  This section will also include any relevant details of the Service Interaction Profile (SIP) that will govern how the service interaction requirements (of the service) will be met. The physical model described in this document will also provide details regarding the message schema(s) for the information model of the service. The (above) information can be made part of this document or can be included (by reference) in this document. The following chart provides a simple mechanism to identify which interaction requirements are mandatory to support all actions of service and the industry specifications which can be leveraged to fulfill these requirements.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Mandatory (yes/no)</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Consumer Authentication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service Consumer Authorization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identity and Attribute Assertion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service Authentication</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Mandatory (Yes/No)</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message non-repudiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message integrity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message confidentiality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message addressing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reliability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transaction support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service metadata availability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface description requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service responsiveness</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table 10 - Technical Services Taxonomy

[Example continued...]

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.

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.]

### Interface Description Requirements

This section should contain any interface description requirements dictated by the service actions.

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.
[ADDITIONAL ARTIFACTS RELATED TO THIS SECTION'S CONTENT CAN BE PROVIDED IN THE SERVICE INTERFACE DESCRIPTION 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.]

**Base Standards Attributes**

3.2.4 **Mandated Standards**

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

3.2.5 **Recommended Standards**

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

3.2.6 **Supported Standards**

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

3.2.7 **Prohibited Standards**

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

**Conformance/Compliance Attributes**

3.2.8 **Domain Guidance**

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

3.2.9 **Guidance Dependencies**

- **EXAMPLE:** SSID SECTION 7 POLICIES AND CONTRACTS. [THIS SECTION INCLUDES INFORMATION ABOUT ANY POLICIES AND CONTRACTS APPLICABLE TO THE SPECIFIC IMPLEMENTATION OF THE SERVICE.]

3.2.10 **Guidance Policies**

- **EXAMPLE:** SSID SECTION 7 POLICIES AND CONTRACTS.
3.2.11 Customers and Stakeholders

- **Example:** [This section identifies primary and secondary customers and stakeholders, which may be discrete users or other profiled components.]

3.2.12 Benefits to Consumer

- **Example:** SSID Section 2.1 (Purpose).

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

3.2.13 Applicable Agreements

- **Example:** SSID Section 8 Umbrella Agreements.

[HIS SECTION PROVIDES CITATION TO STANDARDS 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.]

3.2.14 Compliance Mechanisms

- **Example:** SSID Section 11 Service Testing.

[HIS SECTION PROVIDES INFORMATION ABOUT ANY POLICIES AND CONTRACTS APPLICABLE TO THE SPECIFIC IMPLEMENTATION OF THE SERVICE.]
3.2.16 **Supporting Documents**

- **EXAMPLE:** [This section is used to list applicable references.]

<table>
<thead>
<tr>
<th>Reference Name and Description</th>
<th>[Fully qualified link or path to the reference information]</th>
</tr>
</thead>
</table>

**Table 11 – Supporting Documents**

3.2.17 **Use Cases**

- **EXAMPLE:** [This section of the document provides a more detailed, but high-level, narrative description which may be supported an industry standard modeling notation, where appropriate. Again, care should be taken to be as clear and precise as possible to define real scenarios that would be relevant to a significant number of organizations. This section presents the conceptual model for the actions supported by the service.]

A service description could contain more than one business scenario. In this case, this document will contain more than one business scenario section.

3.2.18 **User Requirements**

- **EXAMPLE:** [This should include specific requirements applicable to mandatory and recommended standards referenced. These should map to the scenarios in the reference view, use case, and the test of the requirements]

3.2.19 **Keywords**

- **EXAMPLE:** [This section is used to list glossary terms used in the document.]

<table>
<thead>
<tr>
<th>Glossary Term or Acronym</th>
<th>Glossary term or acronym description</th>
</tr>
</thead>
</table>

**Table 12 – Contextual Attributes**

3.2.20 **Document Relationship**

- **EXAMPLE:** [This section includes information about policies and contracts applicable to the specific implementation of the service.]
3.3 Implementation Specifications

3.3.1 Application Platform

- **EXAMPLE:** [This section provides 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, where feasible, that make the specific characteristics of the platform transparent to the application software.]

- Providing the appropriate settings to configure the application platform.

3.3.2 Application Program Interface (API)

- **EXAMPLE:** [This section provides information on the interface between application software and the application platform, across which all services are provided that exposes just the necessary software functionality while protecting the rest of the application.]

- Providing the appropriate settings to configure the API.

3.3.3 Application Software

- **EXAMPLE:** [This section provides information about the application software that is specific to the application and is composed of programs, dependent software and frameworks, data, and documentation.]

- Providing the appropriate setting for the actual software application for the environment that it was designed/built to function in.

3.3.4 Communication Services Interface (CSI)

- **EXAMPLE:** [This section provides information about the boundary across which access to services for interaction between internal application software entities and external application platform entities interact.]

- Providing the appropriate settings to configure the CSI.

3.3.5 Human / Computer Interface (HCI)

- **EXAMPLE:** [This section provides information about the boundary across which physical interaction between a human and the underlying application platform takes place.]

- Providing the appropriate settings for all application HCIs.
3.3.6 **Information Services Interface (ISI)**

- **EXAMPLE:** [This section provides information about the boundary across which external persistent storage services is provided to the application platform.]
- Providing the appropriate settings for the interface between the application platform and external storage services.

3.3.7 **Open System Environment (OSE)**

- **EXAMPLE:** [This section provides 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 amplification setting with respect to the OSE as a whole.

3.3.8 **Portability of Application Software**

- **EXAMPLE:** [This section addresses the ease with which application software and data can be transferred from one information system to another.]
- Providing constraints and/or limitations with respect to portability.

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

- **EXAMPLE:** [This section provides the terms defined in ITU-T Rec. X.902 (ISO/IEC 10746-2) that are deemed relevant and necessary.]

3.3.10 **Interchange Reference Point**

- **EXAMPLE:** [The section provides a reference point at which an external physical storage medium can be introduced into the IT system.]

3.3.11 **Interworking Reference Point**

- **EXAMPLE:** [This section provides a reference point at which an interface can be established to allow communications between two or more systems.]

3.3.12 **Perceptual Reference Point**

- **EXAMPLE:** [This section provides a reference point at which there is some interaction between the system and the physical world.]
3.3.13 Programmatic Reference Point

- **EXAMPLE:** [This section provides a reference point at which a programmatic interface can be established to allow access to a function.]

3.3.14 Operational Technique

- **EXAMPLE:** [This section provides detailed descriptions of specific methods and techniques used in implementation of the profiled program.]
Common Profile
Profile Framework & Definitions

4 References Considered

The following sources and representative examples were used to derive the set of profile attributes presented in this document:

- International Organization for Standardization ISO/IEC Technical Recommendation 10000-1
- Global Information Grid Technical Profile (GTP) template
- DoD Acquisition Guidebook, NR-KPP
- Information Sharing Environment – Information Interoperability Framework (I2F)
  (http://www.ise.gov/sites/default/files/FINAL%20-%20ISE_I2F_v0%205.pdf)
- Joint Architecture Reference Model (JARM) meta-model
- JARM 10-layer, Enterprise Service List (ESL), Technical Services Taxonomy (TST)
- NGA Business Services Template
- Microsoft Application profile
- Misc TWG author contributions

5 Terms of Reference

The following is a list of terms used in this document:

- Component – a modular unit portrayed in the Enterprise Architecture to which standards are applied.
- ER2 – also known as the “Enterprise Registry and Repository”; a web-based database application which contains Intelligence Community information and guidance pertaining to profiles and standards (IT and business).
- GTP – an acronym for the “Global Information Grid Technical Profile”; a similar profiling concept used by the DoD to characterize modular components in the DoD enterprise.
- JARM – an acronym for the “Joint Architecture Reference Model”; a structure used to characterize all the modular components contained in the Intelligence Community Enterprise.
- ICS – an acronym for the “Intelligence Community Standard,” a term frequently used to denote a policy guidance document that is intended to be used as common direction across the IC.
- Enterprise Standards Baseline and DoD Information Technology Standards Registry (DISR) -- the configuration managed IC and DoD, respectively, repositories of standards for use by those organizations.
# Common Profile

## Profile Framework & Definitions

<table>
<thead>
<tr>
<th>Field ID</th>
<th>ISO 10000-1 Link</th>
<th>IISC-SWG Reference View Attribute Name</th>
<th>IISC-SWG Definition's</th>
<th>DoD Profile Guidance - (TBD) Profile Template - Capability Description Package (CDP) Template &quot;Built off the GiG Technical Profile&quot; (FOUO) (Previously Validated By OUSD-I)</th>
<th>DOJ Profile Guidance - GRA Service Specification Guideline v1.0.0 Profile Template - GRA Service Specification Package, v1.0.0 (Validated)</th>
<th>NIEM Profile Guidance - TBD Profile Template - Model Package Description (MPD) Specification &amp; Information Exchange Package Documentation (IEPD) (Validated)</th>
<th>STIX Profile Guidance - STIX Profile Overview White Paper Profile Template - STIX Profile Template (Need to Validate)</th>
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<td>NA</td>
<td>NA</td>
<td>Technical Design Document Service Specification Package Artifacts</td>
<td>Service Description Document Service Specification Package Artifacts</td>
<td>MPD Artifacts (Model Releases, Domain Updates, Core Updates, IEPD, EIEM/BIEC)</td>
<td>STIX Profile</td>
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<td>Conformance Test Process, Suite or Tool</td>
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<td>NA</td>
<td>NA</td>
<td>Yes - Conformance Test Kits to support Program offices</td>
<td>Yes - Springboard Initiative - &quot;Open Networks&quot;</td>
<td>Yes - Springboard Initiative - &quot;Open Networks&quot;</td>
<td>NA</td>
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<td>Repository Like Structure</td>
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<td>Global Reference Architecture Website</td>
<td>National Information Exchange Model (NIEM) Web Site</td>
<td>STIX Web Site</td>
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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.

The overall classification of the profile (using CAPCO markings)

Classification / distribution markings on documents included in CDP

| Part of the IEPD - Master Document | Part of Profile Information Section - Distribution |

**Table 13 – Enterprise Standards Baseline and DoD Information Technology Standards Registry**
6 Appendix A: Analysis of Profile Approaches

6.1 Reference View Analysis