**Services Task Team (STT)**

**GRA Service Specification Evaluation Worksheet (Version 1.0)**

The STT, or submitting organization, will complete the Evaluation Items outlined below prior to providing the service specification *Service Description Document* (SDD) to the GSC for review. All Conformance Targets refer to the Service Specification Guideline (SGG), Version 1.0 <insert link>.

<insert link>.

|  |  |
| --- | --- |
| Service Name |  |
| Service Version # |  |
| Reviewer |  |
| Reviewer Email |  |
| Date |  |

| **Evaluation Item** | **Pass** | **Fail** | **Comments** | **Citation** |
| --- | --- | --- | --- | --- |
| **Service Description** | | | | |
| 1. **[SSG Conformance Target]** All required sections of the Service Description MUST contain information and SHOULD contain sufficient details so that a Service Provider can use the Service Description to develop interoperable service implementations and a Service Consumer who is unfamiliar with the service can review, select and use the service. If a required section is not applicable, a N/A MUST be included in the section with an explanation for why the section is not applicable or necessary. | ☐ | ☐ |  | Section 4.1,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Description Document name MUST follow the mandatory naming convention for this document.   The Service Description Document naming convention is as follows:  [SA]\_SDD\_v\_[major].[minor].[revision]  Where SA is Service Abbreviation | ☐ | ☐ |  | Section 4.1,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. Confirm SDD readability and completeness of the Service Description. | ☐ | ☐ |  |  |
| 1. Confirm consistent use of names [e.g., the Action (Operation) and Message (Input/Output) names must be consistent in the SDD, SIDD and WSDL)]. | ☐ | ☐ |  |  |
| 1. Confirm the existence and correctness of Process Flow Diagram, Information Model listing or diagram, Action Model (Table) and Process Model (Diagram). | ☐ | ☐ |  |  |
| **Service Interface Description** | | | | |
| 1. **[SSG Conformance Target]** All required sections of the Service Interface Description MUST contain information and SHOULD contain sufficient details so that a Service Provider can use the Service Interface Description to develop interoperable service implementations and a Service Consumer who is unfamiliar with the service and its interfaces can review, select and use the service and its interfaces. If a required section is not applicable, a N/A MUST be included in the section with an explanation for why the section is not applicable or necessary. | ☐ | ☐ |  | Section 4.2,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Interface Description Document MUST reference a Service Description Document. | ☐ | ☐ |  | Section 4.2,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Interface Description MUST conform to one or more Service Interaction Profiles [GRA-SIP]. | ☐ | ☐ |  | Section 4.2,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Interface Description Document name MUST follow the mandatory naming convention for this document. The Service Interface Description Document naming convention is as follows:   [SA]\_SIDD\_[SIA]\_ v\_[major].[minor].[revision]  Where SA is Service Abbreviation and SIA is Service Interface Abbreviation | ☐ | ☐ |  | Section 4.2,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. Confirm the existence of a SIDD for each Service Interface. | ☐ | ☐ |  |  |
| 1. Confirm the accuracy of the *Service Interaction Requirements* table with reference to appropriate specifications (e.g., WS-Addressing, WS-Security) | ☐ | ☐ |  |  |
| **Service Metadata** | | | | |
| 1. **[SSG Conformance Target]** The Service Metadata file MUST conform to the provided schema | ☐ | ☐ |  | Section 4.3,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** All required elements of the Service Metadata MUST be provided and SHOULD contain sufficient information so that a Service Consumer who is unfamiliar with the service can discover the service. | ☐ | ☐ |  | Section 4.3,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Metadata MUST leverage the GRA recommended namespace <http://it.ojp.gov/gsp/services/1.0.0>. | ☐ | ☐ |  | Section 4.3,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Metadata file MUST be located in the root folder of the Service Specification Package. | ☐ | ☐ |  | Section 4.3,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. The Service Metadata file MUST be a valid Extensible Markup Language (XML) document and be named metadata.xml. | ☐ | ☐ |  | Section 4.3,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. Confirm consistency of metadata.xml with the metadata.xls file | ☐ | ☐ |  |  |
| **Service Catalog** | | | | |
| 1. **[SSG Conformance Target]** The machine readable Service Catalog file MUST be provided and located in the root folder of the Service Specification Package. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The human readable Service Catalog file MUST be provided and located in the root folder of the Service Specification Package. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The machine readable Service Catalog file MUST follow the provided template. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The human readable Service Catalog file MUST follow the provided template and SHOULD contain the required metadata and all the information from the machine readable Service Catalog file. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The machine readable Service Catalog file MUST be a valid Extensible Markup Language (XML) document and be named catalog.xml. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The human readable Service Catalog file MUST be a valid Hypertext Markup Language (HTML) file named catalog.html. | ☐ | ☐ |  | Section 4.4,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. Confirm all links in the catalog.html are working properly. | ☐ | ☐ |  |  |
| **Service Specification Change Log** | | | | |
| 1. **[SSG Conformance Target]** The Service Specification Package change log MUST be located in the artifacts folder and SHOULD follow the OPTIONAL change\_log.txt template for documenting all changes to the SSP. | ☐ | ☐ |  | Section 4.5,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The change log MUST be an American Standard Code for Information Interchange 2 (ASCII) text file. | ☐ | ☐ |  | Section 4.5,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| **Service Specification Information Model** | | | | |
| 1. **[SSG Conformance Target]** The IEPD leveraged as the information model of the service MUST be included in its entirety in the information model folder of the Service Specification Package. | ☐ | ☐ |  | Section 4.6,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The IEPD leveraged as the information model of the service SHOULD conform to the NIEM MPD[[1]](#footnote-1). | ☐ | ☐ |  | Section 4.6,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The IEPD s leveraged as the information model of the service MUST conform to NIEM as specified in NIEM-Conformance[[2]](#footnote-2) and NIEM-NDR[[3]](#footnote-3) Additionally, the conformance report demonstrating this conformance MUST be included in the information model folder of the Service Specification Package. | ☐ | ☐ |  | Section 4.6,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| **Service Specification Behavior Model** | | | | |
| 1. **[SSG Conformance Target]** The behavior model folder of the Service Specification Package MUST contain the source files for all diagrams in the Service Description Document which represent the behavior model of the service. | ☐ | ☐ |  | Section 4.7,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| **Service Specification Schemas** | | | | |
| 1. **[SSG Conformance Target]** The naming convention of the subfolders and files under the schema folder MUST follow RFC 3986[[4]](#footnote-4). Based on implementation experience GISWG recommends that space(s) and the following characters "/", "\", ":", "[", "]" MUST be avoided in subfolder and file names under the schema folder. In the schema folder a “\_” (underscore) MUST be used as a separator instead of a space. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** Where applicable the schemas included in the schema folder SHOULD leverage the GRA recommended namespace for the current version (<http://it.ojp.gov/gsp/services/1.0.0>). | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The IEPD XSD schemas which represent the information model of the service MUST be included under the information model subfolder of the schema folder. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The schemas representing the service and its interfaces MUST be included under the schemas folder. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The schemas representing the service and its interfaces MUST be conformant to one or more GRA SIPs as described in the Service Interface Description Document. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The schemas representing the service and its interfaces MUST be well formed. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** In the case of a web services implementation, the schema folder MUST contain only one definition of a namespace per service. | ☐ | ☐ |  | Section 4.8,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. Confirm XML validation of all XML schemas | ☐ | ☐ |  |  |
| 1. Confirm the WSDL matches the *Service Interaction Requirements* in the SIDD | ☐ | ☐ |  |  |
| 1. Confirm WSDL structure and consistent naming of Operations (Actions) and Messages based on names used in the SDD and SIDD. | ☐ | ☐ |  |  |
| 1. Use Apache CXF wsdlvalidator (or similar) tool to validate the WSDL. Wsdlvalidator validates whether a WSDL document is well-formed and schema conformed as noted by the following checks:  * Check the WSDL document for [XML well-formedness](http://en.wikipedia.org/wiki/XML#Well-formedness_and_error-handling). * Validate the WSDL document against its [XML schema](http://en.wikipedia.org/wiki/XML#Schemas_and_validation). * Validate the WSDL document using some of the semantic rules defined in the [WSDL specification](http://www.w3.org/TR/wsdl). * Validate the WSDL document against custom validation rules, such as those defined by the Web Services Interoperability (WS-I) organization (i.e. [WS-I Basic Profile](http://www.ws-i.org/profiles/basicprofile-1.1.html) rules). | ☐ | ☐ |  |  |
| 1. Use Apache CXF wsdl2java (or similar) tool to generate java code - Wsdl2java takes a WSDL document and generates fully annotated Java code from which to implement a service. | ☐ | ☐ |  |  |
| **Service Specification Samples** | | | | |
| 1. **[SSG Conformance Target]** Samples of the message(s) exchanged by the service MUST be included under the information model folder of the samples folder. | ☐ | ☐ |  | Section 4.9,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** Samples representing each service implementation interface (s) and action (s) MUST be included in the samples folder. | ☐ | ☐ |  | Section 4.9,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| **Service Specification Package** | | | | |
| 1. **[SSG Conformance Target]** The required folders in the Service Specification Package MUST follow the REQUIRED folder structure and naming convention described in this document. | ☐ | ☐ |  | Section 4.10,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** All mandatory folders and documents part of the Service Specification Package MUST be provided and SHOULD contain sufficient details so that a Service Provider can use the Service Specification Package to develop interoperable service implementations and a Service Consumer who is unfamiliar with the service can review, select and use the service. | ☐ | ☐ |  | Section 4.10,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Specification Package MUST contain one conformant Service Description and MUST contain at least one conformant Service Interface Description. | ☐ | ☐ |  | Section 4.10,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Specification Package MUST be included in a single compressed archive of files that represents and preserves the Service Specification Package structure. | ☐ | ☐ |  | Section 4.10,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| 1. **[SSG Conformance Target]** The Service Specification Package name MUST follow the convention defined and specified in this document.   [SA]\_SSP\_v\_[major].[minor].[revision]  Where SA is Service Abbreviation | ☐ | ☐ |  | Section 4.10,  GRA Service Specification Guidelines, v1.0.0,  <http://it.ojp.gov/docdownloader.aspx?ddid=1215> |
| **Additional Reviewer Comments:** | | | | |

1. <http://reference.niem.gov/niem/specification/model-package-description/1.0/model-package-description-1.0.pdf> [↑](#footnote-ref-1)
2. <http://reference.niem.gov/niem/specification/conformance/1.0/conformance-1.0.pdf> [↑](#footnote-ref-2)
3. <http://reference.niem.gov/niem/specification/naming-and-designrules/1.3/niem-ndr-1.3.pdf> [↑](#footnote-ref-3)
4. <http://www.ietf.org/rfc/rfc3986.txt> [↑](#footnote-ref-4)