



BJA
Bureau of Justice Assistance
U.S. Department of Justice

Global Reference Architecture

Inmate Release Information (IRI) Service Service Interface Description Document

Version 1.0.0

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Global
Information
Sharing Standard

Global Standards

The collection of Global-recommended normative standards has been developed and assembled into a unified package of composable, interoperable solutions that enable effective information exchange. This collection is known as the Global Standards Package (GSP). GSP solutions are generally focused on resolving technical interoperability challenges but also include associated guidelines and operating documents to assist implementers. The GSP includes artifacts associated with many of the Global product areas, including but not limited to:

- **Global Reference Architecture (GRA):** Offers guidance on the design, specification, and implementation of services (and related infrastructure) as part of a justice Service-Oriented Architecture (SOA).
- **Global Service Specification Packages (SSPs):** Reference services that are reusable nationwide in order to save time and money and reduce complexity when implementing particular information exchanges with external partners.
- **Global Federated Identity and Privilege Management (GFIPM):** Guidelines and standards for establishing, implementing, and governing security, identity management, and access control solutions to ensure that information can be accessed only securely and appropriately.
- **Global Privacy Technology Framework:** A framework for automating information access controls based on privacy and related policies restricting the use or dissemination of such information.

For More Information

For more information on the GSP and the Global Standards Council (GSC)—the Global group responsible for developing, maintaining, and sustaining the same—please visit <http://www.it.ojp.gov/gsc>.

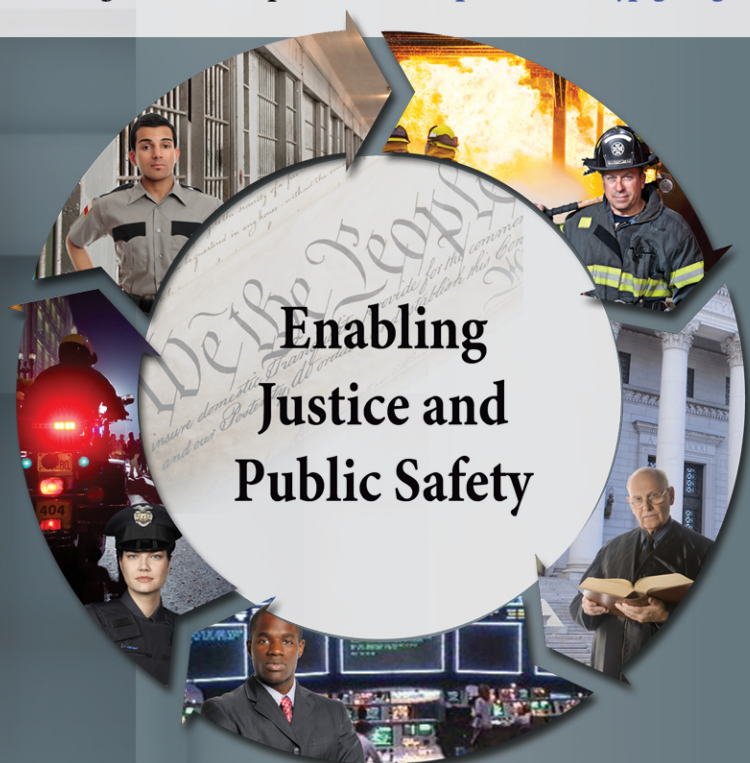


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1. Introduction

In the context of the Global Reference Architecture (GRA) and Service-Oriented Architecture [SOA] in general, a service is the means by which one partner gains access to one or more capabilities offered by another partner. Capabilities generate real-world effects that can be as simple as sharing information or can involve performing a function as part of a complex process or changing the state of other related processes. Government organizations have numerous capabilities and a multitude of partner organizations, both inside and outside of their traditional communities. There are significant benefits for these organizations to share information and have access to each other's capabilities. Achieving interoperability among these organizations requires alignment of business and technical requirements and capabilities. In addition, it is critical to have a consistent way of specifying these requirements and capabilities and sharing them across organizational boundaries. The GRA was developed to facilitate interoperability and to assist in meeting other key requirements common in a complex government information sharing environment. In order to achieve interoperability, a consistent approach must be defined to identify, describe, and package services and their interactions in many different technical environments, across multiple government lines of business, at all levels of government, and with partner organizations.

The GRA defines a service interface as “the means for interacting with a service.” It includes specific protocols, commands, and information exchange by which actions are initiated on the service. A service interface is what a system designer or implementer (programmer) uses to design or build executable software that interacts with the service. That is, the service interface represents the “how” of the interaction. Since the service interface is the physical manifestation of the service, best practices call for service interfaces which can be described in an open-standard, machine-referenceable format (that is, a format which could be automatically processed by a computer).

A Service Specification is a formal document describing the capabilities made available through the service; the service model that defines the semantics of the service by representing its behavioral model, information model, and interactions; the policies that constrain the use of the service; and the service interfaces which provide a means to interacting with the service. A Service Specification is analogous to the software documentation of an Application Programming Interface [API]. It provides stakeholders with an understanding of the structure of the service and the rules applicable to its implementation. It gives service consumers the information necessary for consuming a particular service and service providers the information necessary for implementing the service in a consistent and interoperable way.

The main components of a Service Specification are the Service Description, one or more Service Interface Descriptions, and the schemas and samples used to implement and test the service.

A Service Description contains information about all aspects of the service which are not directly tied to the physical implementation of the service; in other words, the service interface. A Service Interface Description is a description of the physical implementation; specifically, the service interface used in a specific implementation of the service.

This document is a Service Interface Description of the Inmate Release Information Service.

2. Physical Model

This service interface will implement the following actions:

- SendSummaryInformationRequest
- SendDetailedInformaitonRequest
- SendSummaryEventInformationRequest
- SendDetailedEventInformationRequest
- SubscribeSummaryEventInformation
- SubscribeDetailedEventInformation

In addition to the above service actions, the responding partner system will implement an internal process to notify the requesting agency regarding the availability of event information.

The service will comply with the GRA Reliable Secure Web Services SIP (RS WS-SIP v 1.1). The service will implement the normative requirements stated in the GRA Execution Context Document.

The service will use WS-Addressing header information to implement the “publish subscribe” pattern required for implementing event notification.

3. Service Interaction Requirements

Requirements	Mandatory (Yes/No)	Specification
Service Consumer Authentication	Yes	As described in CJIS Security Policy.
Service Consumer Authorization	Yes	As described in CJIS Security Policy.
Identity and Attribute Assertion Transmission	No	
Service Authentication	No	
Message Nonrepudiation	Yes	WS-Security, XML-Encryption, XML-Signature
Message Integrity	Yes	WS-Security, XML-Encryption, XML-Signature
Message Confidentiality	Yes	WS-Security, XML-Encryption, XML-Signature
Message Addressing	Yes	WS-Addressing
Reliability	Yes	WS-ReliableMessaging
Transaction Support	No	
Service Metadata Availability	Yes	See the metadata.xml file in this package.
Interface Description Requirements	Yes	
Service Responsiveness	Yes	To be determined by requesting agency and specific partnering corrections organizations.

Note: WS-Addressing information will be included in the header of the subscription and notification messages to implement the “publish subscribe” pattern required for event notification.

4. Interface Description Requirements

The service will comply with the GRA Reliable Secure Web Services SIP (RS WS-SIP v1.1).

5. Message Exchange Patterns

The table below provides information regarding the message exchange patterns under which each of the service actions can be implemented.

Action Name	Message Exchange Patters
SendSummaryInformationRequest	Request-Response
SendDetailedInformaitonRequest	Request-Response
SendSummaryEventInformationRequest	Request-Response part of Publish-Subscribe pattern implementation.
SendDetailedEventInformationRequest	Request-Response part of Publish-Subscribe pattern implementation.
SubscribeSummaryEventInformation	Request-Response part of Publish-Subscribe pattern implementation. WS-Addressing header information will be used to implement this pattern.
SubscribeDetailedEventInformation	Request-Response part of Publish-Subscribe pattern implementation. WS-Addressing header information will be used to implement this pattern.

The internal notification process implemented by the responding partner system could be implemented under the Request-Response or One-Way Message Exchange Pattern. WS-Addressing header information will be used to implement this process.

6. Message Definition Mechanisms

The service will comply with the message definition mechanisms identified in the GRA Web Services SIP.

7. Policies and Contracts

7.1 Policies

No automated polices have been identified at this time.

7.2 Automated Service Contracts

No automated service contracts have been identified at this time.

7.3 Nonautomated Service Contracts

No nonautomated service contracts have been identified at this time.

8. Umbrella Agreements

No umbrella agreements have been identified at this time.

9. Security

The service must comply with the CJIS Security Policy.¹

The service interaction should be secured by a minimum of 128-bit encryption with NIST or CSE certification of the cryptographic module to ensure that it meets FIPS Publication 140-2 for "Security Requirements for Cryptographic Modules" at any Security Level.²

10. Privacy

The service would also comply with the MOUs in place between the requesting agency and partnering corrections organizations.

11. Service Testing

Service Testing requirements will be identified between requesting agencies and specific partnering corrections organizations.

¹ The CJIS Security Policy document can be found in this package under Service Description/Service Interoperability Requirements/Security.

² For more information, please refer to <http://csrc.nist.gov>.

Appendix A—References

Inmate Release Information Service Description Document—[IRI_SDD_v_1.0.0.doc](#)

Global Reference Architecture Web Site—<http://www.it.ojp.gov/globalgra>

CJIS Security Policy—The CJIS Security Policy is considered to be Sensitive But Unclassified (SBU) material. This policy may not be posted to a public Web site, and discretion must be exercised in sharing the contents of the policy with individuals and entities who are not engaged in law enforcement or the administration of criminal justice. A copy may be obtained by contacting the state's CJIS systems officer (CSO).

Appendix B—Glossary

LEA	Law Enforcement Agency
APPA	American Probation and Parole Association
RS WS-SIP	Reliable Secure Web Services Service Interaction Profile

Appendix C—Document History

Date	Version	Editor	Change
02/15/2009	0.01.01	Iveta Topalova, Don Dinulos, Charles Carlton	Initial version
03/24/2009	0.01.02	Iveta Topalova	Updates to Service Specification and release of first draft
03/24/2009	0.01.02	Jim Douglas, Sam Ali	Review
03/25/2009	0.01.03	Jim Douglas, Sam Ali	Updates to Service Specification based on review
03/30/2009	0.01.04	IJIS Institute	Technical edit and formatting
03/30/2009	0.01.05	IJIS Institute	Additional technical edit
04/20/2009	0.01.06	Iveta Topalova	Second draft
04/21/2009	0.01.07	IJIS Institute	Technical edit and formatting
04/26/2009	0.01.08	Iveta Topalova	Release of service specification package 0.01.08
7/15/2009	0.01.09	Iveta Topalova	Release of service specification package 0.01.09
9/22/2009	0.01.10	Charles Carlton	Release of service specification package 0.01.10
10/15/2009	0.9.1	Iveta Topalova	Change document to align with the next version of the SSP. Change of service name and service version in preparation for final release.
11/05/2009	0.9.1	Iveta Topalova	Change document to align with the newest release of the SSP.
11/23/2009	0.9.3	Iveta Topalova	Change document to align with the final release of the SSP. Review and preparation for final release.
1/12/2010	0.9.4	Collin Evans, Don Dinulos, Iveta Topalova	Minor revisions to incorporate GISWG SIC review comments.
7/11/2011	1.0.0	Collin Evans	Changed JRA references to GRA.
6/1/2012	1.0.0	Jim Douglas	Global Standards Council/ Services Task Team completed updates.
10/1/2012	1.0.0	Global Standards Council (GSC)	Global Advisory Committee approved.

About the Global Advisory Committee

www.it.ojp.gov/global

The Global Advisory Committee (GAC) serves as a Federal Advisory Committee to the U.S. Attorney General. Through recommendations to the Bureau of Justice Assistance (BJA), the GAC supports standards-based electronic information exchanges that provide justice and public safety communities with timely, accurate, complete, and accessible information, appropriately shared in a secure and trusted environment. GAC recommendations support the mission of the U.S. Department of Justice, initiatives sponsored by BJA, and related activities sponsored by BJA's Global Justice Information Sharing Initiative (Global). BJA engages GAC-member organizations and the constituents they serve through collaborative efforts, such as Global working groups, to help address critical justice information sharing issues for the benefit of practitioners in the field.

For more information on Global and its products, including those referenced in this document, call (850) 385-0600 or visit <http://www.it.ojp.gov/GIST>.

About the Global Standards Council

www.it.ojp.gov/gsc

The Global Standards Council (GSC) serves as a Global Advisory Committee (GAC) subcommittee, supporting broadscale electronic sharing of pertinent justice- and public safety-related information by recommending to BJA (through the GAC) associated information sharing standards and guidelines. To foster community participation and reuse, the GSC reviews proposed information sharing standards submitted by Global consumers and stakeholders. Additionally, BJA emphasizes an open, participatory review-and-comment process for proposed standards; please see the Global Justice Tools Web site at www.globaljusticetools.net for more information on this opportunity. BJA-approved standards are developed, maintained, and sustained as one cohesive Global Standards Package (GSP) located at <http://www.it.ojp.gov/gsp>.