

**Defense Installation Access Control (DIAC)
Physical Access Control
Interoperability Layer Services
Interface Control Document**

~~**FINAL**~~
VERSION 2.0.0

08/27/2012

For Official Use Only (FOUO)

**Defense Installation Access Control (DIAC)
Physical Access Control
Interoperability Layer Services
Interface Control Document**

Signatures of Approval

Rodney Rourk
Chairman, Security Equipment Integration Working Group
USMC Systems Engineering IPT
SPAWARSYSCEN Atlantic

Date

Ron Chen
IoLS Program Manager
Defense Manpower Data Center
Seaside, CA

Date

Document Revision History

Revision	Revision	Date
Ver 1.0.0	Finalize and Release to public	05/04/2011
Ver 1.0.1	Minor modification <ul style="list-style-type: none">• On security alert section, add list value of Originating System ID (COPS, CLEOC, SFMIS, NCIC, TSDB)	05/25/2011
Ver 2.0.0	<ul style="list-style-type: none">• Updated service descriptions• Changed registry interface• Added Local Population• Added Security Alerts• Moved “Revision History” to beginning of document• Formatted Data Dictionary tables to include Requirements Traceability Matrix ID number (RTM ID#)	08/27/2012

Background

In its broadest description, the Interoperability Layer Services (IoLS) has a wide scope as it encompasses several key systems and services within the Department of Defense (DoD). When fully deployed, it will allow DoD to meet Directive Type Memorandum (DTM) 09-012 Interim Policy Guidance for DoD Physical Access Control as well as the Federal implementation guidance deadline of creating and implementing an architecture that supports the FICAM Roadmap Target state that focuses on enabling logical and physical access. The systems, shown in Figure 1, determine what information is collected and shared, and impacts all users and customers of the agency (internal users, partners, citizens).

The DoD Physical Access Control Interoperability Layer Services Interface Control Document (DoD PAC IoLS ICD) is subject to certain limitations and implementation considerations. As a result, this document represents a logical progression and will be updated incrementally to encompass the desired end-state or capability projected in the DIAC Notional Architecture shown in Figure 1. As stakeholders and mission owners define additional requirements, they will be incorporated into future releases. The technical detail, audiences addressed, and scope of subject matter will also be subject to further maturation and expansion through the iterative process of spiral development and demonstrations.

Review and Update Process

The IoLS ICD Version 1.0 was developed by a multi-disciplinary team of people including a lead architect, the lead architect's support staff, and representatives from Military Services, DISA, and OSD (NII)/CIO and Component delegates. These representatives form a collaborative team known as the Defense Installation Access Control (DIAC) Working Group (WG) that support an Identity Management Enterprise Services Architecture and spirally develop, test, and demonstrate capabilities to improve physical security for installation access, as defined in the DIAC WG Charter. The initial Version 1.0 culminated in a successful demonstration of the capabilities in FY11. Version 2.0 expands IoLS to include Security Alerts and Local populations including, but not limited to, PIV, PIV-I, TWIC and those persons with non-federated credentials (i.e., Local PACS Credentials).

Table of Contents

1	Introduction	1
2	IoLS Components.....	2
2.1	Functional Architecture Overview.....	2
2.2	Registration Service	3
2.2.1	Interface Requirements	4
2.2.2	Registration Services for DoD Credentials	5
2.2.3	Registration Services for Local Access Populations.....	6
2.3	Local Population Service	8
2.4	Update Service	10
2.4.1	Interface Requirements	11
2.4.2	Credential Revocations.....	11
2.4.3	Security Alerts.....	11
2.5	Security Alert Service	12
3	Demonstration Increments and Supported Functionality	13
4	Connectivity and Security	14
5	Attributes Provided in the IoLS Request and Response	15
5.1	Registration Service	16
5.1.1	Registration by Token Interface	17
5.1.2	Deregistration Interface.....	24
5.2	Local Population Service	26
5.2.1	Inquire by Identity Interface.....	26
5.2.2	Add Local Population Identity Interface	32
5.2.3	Manage Local Population Identity Interface.....	36
5.2.4	Add Local Population Credential Interface.....	40
5.2.5	Terminate Local Population Credential Interface	41
5.3	Update Service	43
5.3.1	Retrieve Ticket Interface.....	43
5.3.2	Retrieve Response Interface.....	44
5.3.3	Retrieve Result Response	44
5.4	Security Alert Service	48
5.4.1	Add Security Alert Interface.....	48
5.4.2	Manage Security Alert Interface	49
6	Interfacing with IoLS.....	51
6.1	Exception Processing.....	51
6.2	Parsing	51
7	IoLS Messages	52
7.1	Sample Request and Response Messages	52
7.2	Error Messages	52
7.3	Handling General Errors.....	52
Appendix A: IoLS SOAP Response Status Descriptions.....		A-1
Appendix B: Data Dictionary.....		B-1
Appendix C: Glossary.....		C-1
Appendix D: References.....		D-1

List of Figures

Figure 1:	IoLS Notional Architecture	2
Figure 2:	Registration Service Flow for DoD Credential Holders	5
Figure 3:	Registration Service Flow with Federated Credentials	6
Figure 4:	Registry Flow for Persons issued a Local PACS Credential.....	8
Figure 5:	Updates to Registered Persons	10

List of Tables

Table 1: Standard Web Services Communications Process	14
Table 2: Registration by Token Request Elements	17
Table 3: Registration by Token Response	17
Table 4: De-registration Request Elements	24
Table 5: De-Registration Response Elements	25
Table 6: Inquire by Identity Request	26
Table 7: Local Population Inquiry by Identity Response Elements	27
Table 8: Local Population Add Identity Request Elements	32
Table 9: Add Local Population Identity Response Elements	36
Table 10: Local Population Manage Identity Request Elements	36
Table 11: Local Population Manage Identity Response Elements	39
Table 12: Add Local Population Credential Request Elements	40
Table 13: Add Local Population Credential Response Elements	41
Table 14: Terminate Local Population Credential Request	41
Table 15: Terminate Local Population Credential Response Elements	43
Table 16: IoLS Update Retrieve Ticket Request Elements	43
Table 17: IoLS Update Retrieve Ticket Response Elements	43
Table 18: IoLS Update Retrieve Result Request Elements	44
Table 19: IoLS Update Retrieve Result Response Body Elements	44
Table 20: Add Security Alert Request Elements	48
Table 21: Add Security Alert Response Elements	49
Table 22: Manage Security Alert Request Elements	49
Table 23: Manage Security Alert Response Elements	50
Table 24: General Errors	52
Table 25: Common Status	A-1
Table 26: Inquiry Service Status	A-1
Table 27: Registration Service Status	A-1
Table 28: Local Population Service Status	A-1
Table 29: Update Service Status	A-2
Table 30: Security Alert Service Status	A-2
Table 31: Data Dictionary	B-1

1 Introduction

Given the large, heterogeneous environment in which service Physical Access Control Systems (PACS) operate, the scope of Interoperability Layer Services (IoLS) is focused on identity and identity-related services to support operations at the Service Regional PACS Server Level, as opposed to the installation level PACS. However, procedures for PACS Servers installed at the installation level should not differ substantially from the Service Regional PACS Server Level, so longer term Enterprise Services (e.g., Local Population Enrollment) could support installation level (e.g., visitor center) functionality. This document is meant to show the full functionality planned for IoLS. These functions will be delivered incrementally, as defined in Section 3.0, based on the following criteria:

- The capability of the Source Services (Continuous Information Management, Enterprise Data Services and Federated Credential Service) to provide the information
- The capability of the PACS Servers to consume the information being provided
- The order specified by the Defense Installation Access Control (DIAC) working group

2 IoLS Components

2.1 Functional Architecture Overview

The following notional architecture represents the components of IoLS:

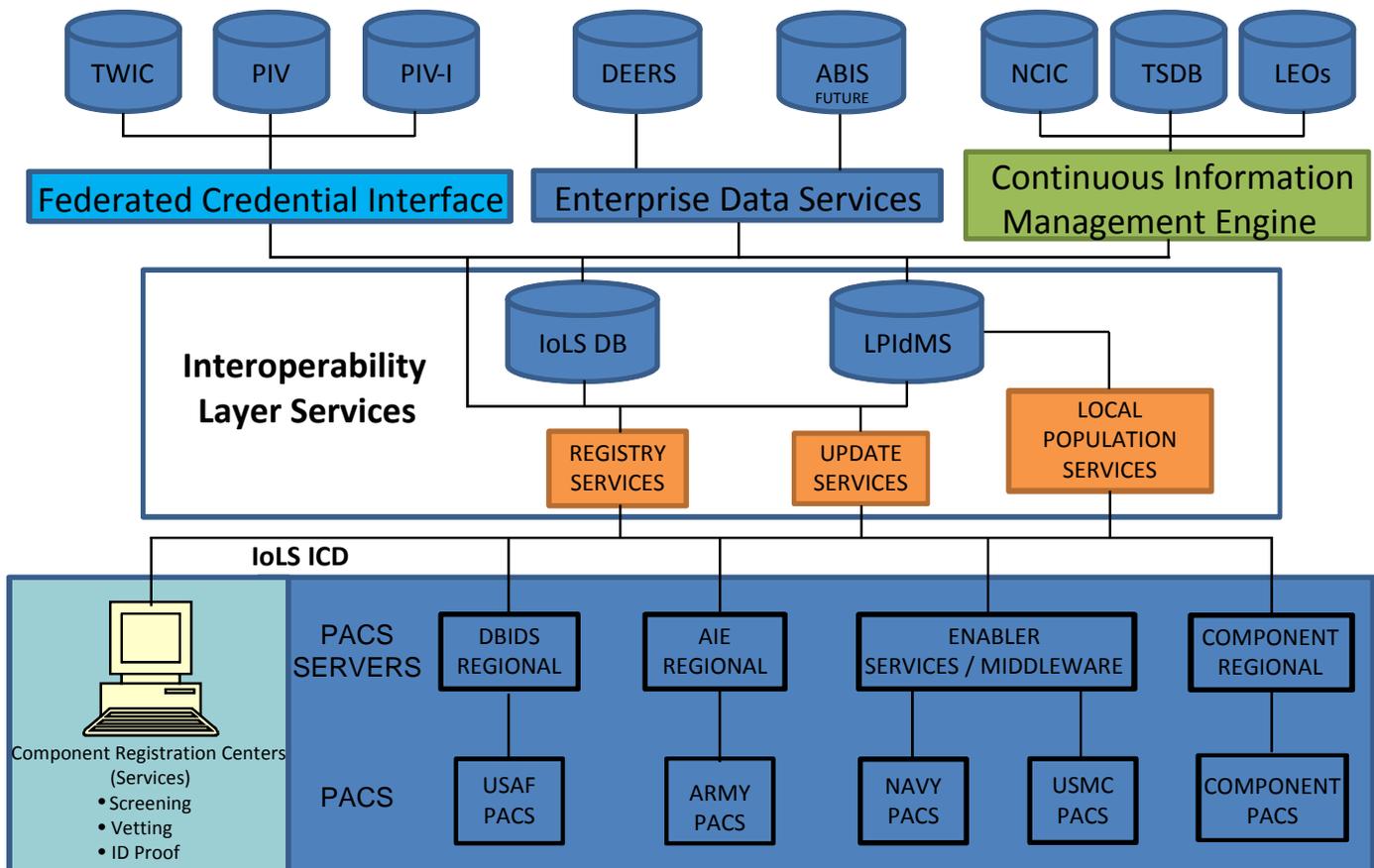


Figure 1: IoLS Notional Architecture

The key functions of IoLS are to:

- Obtain information from the Source Services (e.g., Federated Credential Interface, Enterprise Data Services, and Continuous Information Management Engine)
- Provide the information to its Customers, the PACS Servers, where and when it is needed

In order to perform this function, four basic services are provided to its PACS Server customers (refer to section 5.0 for further details):

- **Registration Service** – This service will provide credential verification, registry data and any prior security alerts that have been obtained from the Continuous Information Management Engine (CIME).
- **Update Service** – This service will provide updates to information affecting registry like credential revocations and security alerts.
- **Local Population Service** – This service will provide credential and identity management interface for Local Population (LP). Additionally, it provides the capability to add local population access persons, otherwise known as “Locals”, within the DoD, to a central store so they too can be included in the update service.

- **Security Alert Service** – This service will allow Local PACS Servers and CIME to inject Security Alerts into IoLS. Additionally will provide the capability to manage these alerts.

These services are supported by IoLS data store which provides the following functionalities:

- Tracking where persons and their credentials are registered
- Storing credential revocations and Security alerts received from source services (i.e., Enterprise Data Services, Continuous Information Management Engine) for distribution and to make prior security alerts available to new registration requests

The Local Population Identity Management System (LPIIdMS) shown in Figure 1, tracks local populations and local population credentials (barcode and PIV/PIV-I) similar to DoD's Defense Enrollment Eligibility Reporting System (DEERS). Locals are defined as persons that fall under any of the following two categories:

- Does not have a digital identity in DoD-wide DEERS
- Does not have a current DoD ID card (i.e., CAC or Teslin)

Locals include those non-DoD persons with credentials that can be federated to the DoD (e.g., Transportation Worker Identification Credential (TWIC™), Personal Identity Verification (PIV) credentials from other Federal agencies, and Personal Identification Verification-Interoperability (PIV-I) credentials issued by certified commercial organizations) and also those local access personnel who have not been issued a federated credential, but are issued a local PACS credential. The LPIIdMS assigns a unique identifier, referred to as the LPEDIPI, which will be used as IoLS System Identifier for that person.

A PACS visitor/registration station is commonly used to capture and enroll biographics and biometrics for the purpose of issuing local PACS credentials and is required to publish Local Population Registration data to the LPIIdMS.

The LPIIdMS will provide biometric exceptions for individuals who meet the following criteria:

- Physical impairment that prohibits the capture of biometric information (i.e. bandaged or missing fingers)
- Host Nation PII protection policy
- Diplomatic Immunity

2.2 Registration Service

The Registration Services will support:

- Rapid electronic authentication of DoD credentials, Local PACS credentials, and Federated credentials
- Returning data necessary to register a subject in a PACS Server
- Registration of all persons seeking access to DoD facilities that are supported by PACS Servers and the PACS Servers are interested in receiving credential and Security Alert updates
- Deregistration of a person so the PACS Servers will no longer receive Credential and Security Alert updates

2.2.1 Interface Requirements

- IoLS Registration Service will accept barcode, FASC-N, or GUID from the following credentials:
 - DoD - barcode or FASC-N
 - Local PACS - barcode
 - Federal PIV - FASC-N (from contactless)
 - Commercial PIV-I - GUID (from Contactless)
- The person and credential used will be recorded under the Facilities Identifier of the PACS Server. IoLS associates registered credentials with Facilities Identifier of any/all PACS Server(s) where the credential is registered for use. The Facilities Identifier is centrally controlled by DMDC and assigned by IoLS when a new PACS Server is added (see Section 4.0). This information is captured so that any changes to that person's credential or security status can be directed to the PACS Servers.
- The registrant is automatically stored as registered for the PACS Server in IoLS if the person is found with a valid credential and data are returned to the PACS Server by IoLS
- If the Installation PACS Registrar decides they do not want the person registered in IoLS at the time of registration, or if in the future the Installation PACS Registrar decides the person is no longer of interest, they must send a Deregistration to the Registration Data Service (see Section 5.3). This will ensure IoLS updates will not be sent to that PACS server in the future for that registrant.
- In order to support Revocations, Updates and Security Alerts the PACS Server is required to store the person's IoLS System Identifier and System Identifier Type Code. Updates will be sent by IoLS using the IoLS System Identifier.

2.2.2 Registration Services for DoD Credentials

Registry Service Flow for DOD Credentials

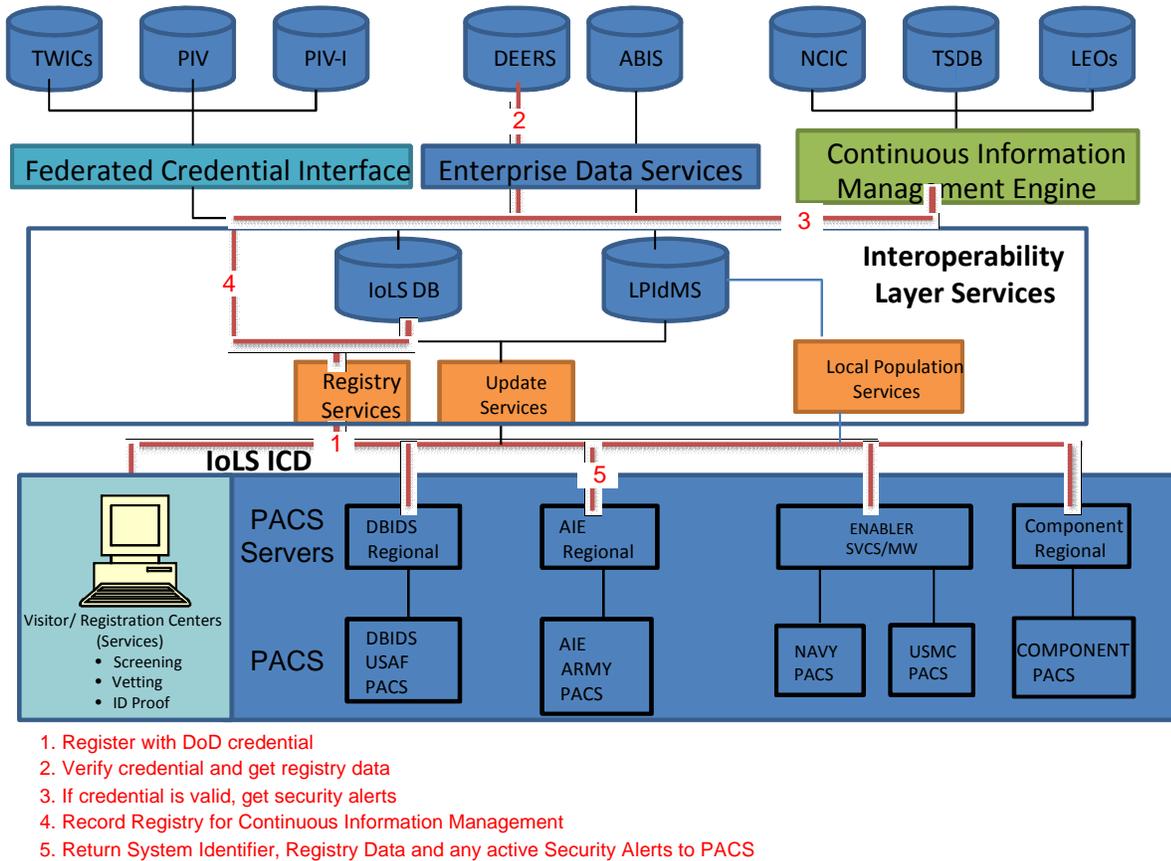
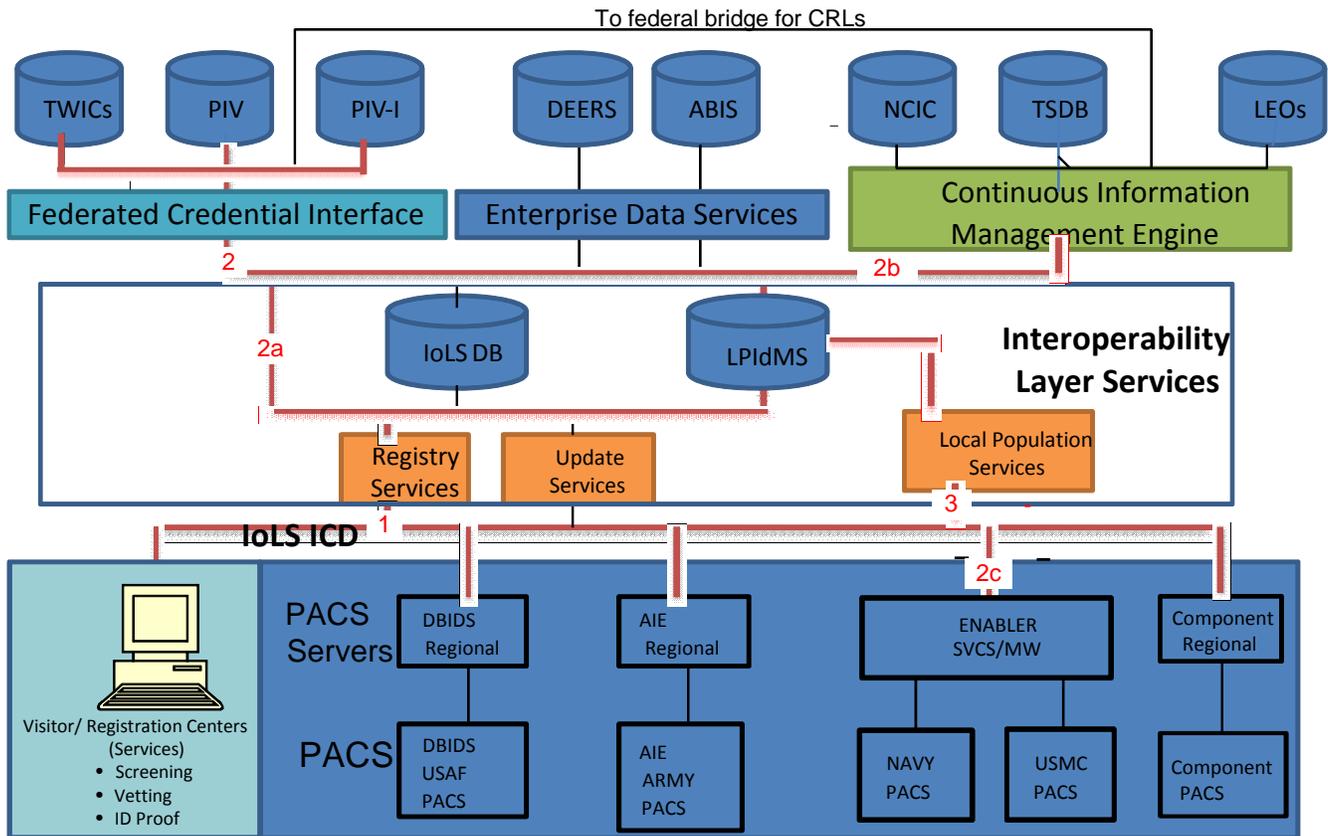


Figure 2: Registration Service Flow for DoD Credential Holders

The Registration interface accepts a DoD credential token (Barcode or FASC-N) and passes a request to the Enterprise Data Service which returns data necessary to register an identity and associated credential in a PACS. If the credential is valid, the person will be added to the population tracked in IoLS and associated with the Facilities Identifier of the PACS Server where the credential is registered for use. A status will be returned identifying the state of the credential if it is not valid (e.g. lost, stolen, expired, terminated, etc.)

2.2.3 Registration Services for Local Access Populations

Registry Service Flow with Federated Credentials



1. Register with Federated Credential
2. If certificate is valid (not revoked), check LPIdMS token store and if found:
 2a. Record Registry for Continuous Information Management
 2b. Get Security Alerts
- 2c. Return System Identifier, Registry Data, Token Status and any active Security Alerts to PACS
3. If token not found in LPIdMS, request for local population person and token add

Figure 3: Registration Service Flow with Federated Credentials

This registration process will require the use of the Federated Credential Interface pictured above for access to the other Federal PIV and the TWIC and commercial PIV-I issuers.

2.2.3.1 Registration Data - future

As of the date of the Version 2.0 release of this ICD, the Federated Credential Interface, depicted in Figure 3, is the Back-end Attribute Exchange (BAE)) for the PIV and PIV-I. After the BAE is fully defined by the Federal Identity, Credential, and Access Management (FICAM), the DoD BAE Gateway will exist at DMDC and will provide registration information to the PACS Servers directly from the credential issuer. The PIV and PIV-I holders identity information (e.g., SSN, Name) will then be added to the LPIdMS in order to continuously look for security alerts.

However, the extent of the identity information to be provided by the Federated Credential Interface (i.e. BAE) remains to be determined. If identity data are not available from the Federated Credential Interface then IoLS will require that these data be captured by the PACS Servers and be provided to IoLS for addition to the LPIdMS.

2.2.3.2 Registration Data - today

As of the date of the Version 2.0 release of this ICD, the Federated Credential Interface, depicted in Figure 3, can only be used to verify the certificate through the Federal Bridge. If the token from the PIV or PIV-I is not yet in the LPIDMS and the identity does not exist, then the Identity, the issued Credential, and the PIV/PIV-I Certificate will need to be added to the LPIDMS. If the identity already exists, only the issued Credential and PIV/PIV-I Certificate will need to be added to the LPIDMS.

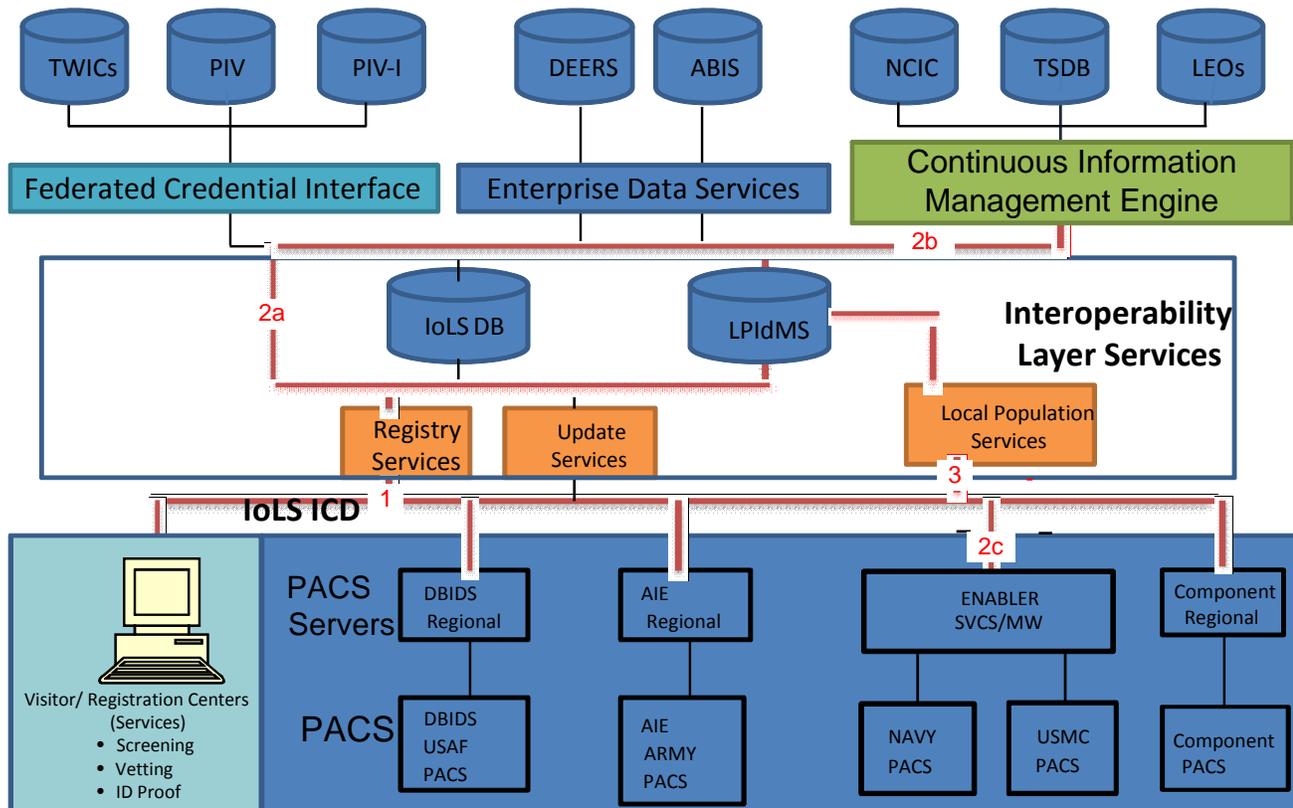
2.2.3.3 Credential Verification

Verification for PIV and PIV-I can be done using their Authentication Certificate against the published Certificate Revocation List (CRL) from the Federal PKI bridge. TWICS CRL will be addressed in a future spiral. The population is continuously vetted by checking the PIV Authentication Certificate against CRLs. A revocation of a Federal certificate will be sent as a credential revocation.

In alignment with FICAM Guidance, the PACS Server should verify the credentials PKI certificate, at Registration using PIV Authentication, against published CRLs. Assuming the certificates are exposed and accessible, the Local PACS publishes the certificate to IoLS for verification centrally. IoLS/CIME performs continuous vetting against CRL and IoLS reports revocations to the PACS Server using the IoLS System Identifier. The PACS Server may optionally store the certificate locally. IoLS will give the PIV authentication certificate to the CIME so that the CRLs can be monitored continuously and revocation can be reported for these PIV and PIV-I certificates to IoLS; these revocations will then be reported to the PACS Server respectively in the form of credential revocations.

Performing this CRL check for PIV and PIV-I in IoLS will provide DoD with a single point of contact for all PACS Servers to the Federated Credential Interface, thus mitigating redundancy.

Registry Service Flow for Persons issued a Local PACS Credential



1. Register for/with Local PACS Credential
2. Verify if credential already exists in LPIdMS and if found
 - 2a. Record Registry for Continuous Information Management
 - 2b. Get security alerts
 - 2c. Return System Identifier, Registry Data, Credential Status and any active Security Alerts to PACS
3. If not found in LPIdMS, request Add Local Population and Credential add

Figure 4: Registry Flow for Persons issued a Local PACS Credential

The Registration interface accepts Local PACS credential tokens and passes a request to the LPIdMS.

- If the token exists and is valid, the LPIdMS will return data necessary to register a subject in a PACS.
- If the token exists and is invalid, a status will be returned identifying the state of the credential (e.g. lost, stolen, expired, terminated, etc.).
- If the token does not exist, a request to inquiry for the local person by identity traits must be done. If the person is not found, an addition of that person to the LPIdMS is required. Once the Identity is established, the credential should be added to the LPIdMS.

PACS Servers are responsible for maintaining the state of their Local PACS credentials.

2.3 Local Population Service

The Local Population Services will support:

- Addition of Local PACS and Federated credential holder identities
- Addition of Local PACS and Federated credentials
- Addition of Federated Credential Certificates to support Credentials being used for access
- Management of Local PACS and Federated credential holder identities
- Management of Local PACS credentials (terminate, revoke, etc.)

- Generation and assignment of LPEDIPI to allow global tracking without relying on PII data

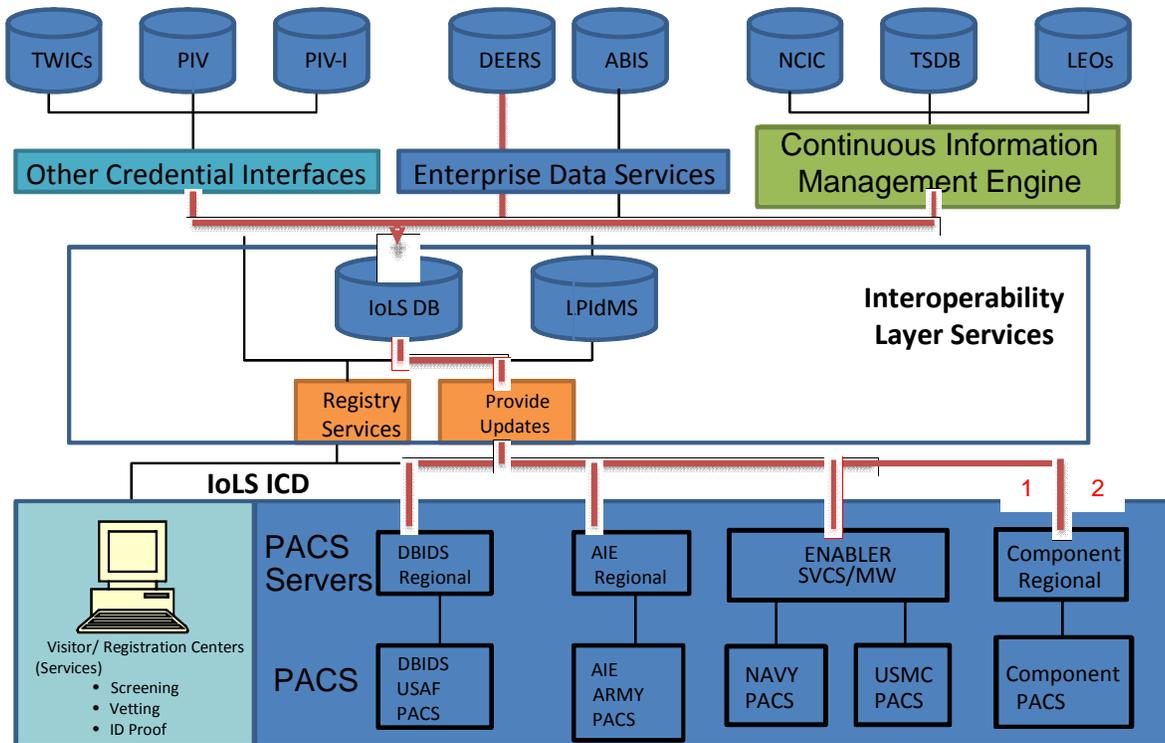
The LPIIdMS is used to store and manage the identity and credential (Local PACS and Federated credentials) of non-DoD persons. Successful additions to the LPIIdMS will return a LPEDIPI for the Local Population Identity. The Local PACS will be required to store the LPEDIPI that is returned from the LPIIdMS upon addition. The identity is used by CIME for continuous vetting and to provide Security Alert updates. All CIME security alerts and Local PACS credential updates will be associated with the LPEDIPI. The Federated Credential Certificate is used by CIME for continuous vetting against the CRLs and to provide certificate revocation updates.

The Local PACS Server is responsible for managing the Local PACS and Federated credential holder's identity in the LPIIdMS. The LPIIdMS will be responsible for guaranteeing identity uniqueness within the Local Population.

The Local PACS credential issuer is responsible for adding and terminating the credentials that they issue. The credential data will be stored in the LPIIdMS and will be sent through IoLS to PACS Servers interested in credential updates. Local PACS credentials can only be modified by the original issuer.

2.4 Update Service

Updates to Registered Persons



1. PAC Server request all Security Alerts and Credential/Token revocations for it's facility ID since its last inquiry
2. PACS Server receives lists of credential revocations and Security Alerts by registered identity

Notes:

- IoLS DB stores all Security Alerts and Revocations
- Enterprise Data Services provides DOD Identity and Credential / Token revocations to IoLS
- Other Credential Interfaces supports Non-DOD Federated Identity and Credential / Token to LPIdMS
- CIME provides new or changed Security Alerts to IoLS and provides Non-DOD Federated Credential / Token revocations to IoLS

Figure 5: Updates to Registered Persons

The Update Services will support:

- Credential revocations for PACS Server registered DoD credentials, federated credentials (e.g., PIV, PIV-I, and TWIC card holders) and Local PACS credentials
- Security Alerts that are directly associated with persons stored by the IoLS registration that are detected by the CIME; such as suspended, Be on the Lookout(BOLOs), Debarments, and other specific alerts reported by Criminal Justice Information Systems (CJ) such as National Crime Information Center (NCIC), Terrorist Screening Data Base (TSDB) or the service's CJ (i.e. CLEOC, SFMIS, COPS)

These updates are accumulated from the CIME and Enterprise Data Services as they are made available, and stored in IoLS where they are marked for the PACS Servers that have these persons\credentials registered.

In order to ensure readiness to receive the updates:

- The PACS server will periodically request their accumulated updates (under their PACS Repository Identifier and the date and time stamp of their last request) to be sent to them.

- The PACS server will receive a “Retrieval Number” from the update service to use in “Polling” the service while the updates are accumulated.
- The Update Service will compile all updates accumulated since the last request from the PACS Server.
- The Update Service will return all the updates compiled, in step 3, to the PACS Server.

2.4.1 Interface Requirements

- The PACS Servers will be sent updates and/or security alerts associated by the IoLS System Identifier for registered credentials.
- The PACS Servers will be sent credential revocations for Barcode 39 and FASC-N.
- PACS Servers will continue to receive updates on a person until a de-registration request is sent to the Registration Data Service.

2.4.2 Credential Revocations

A revocation is defined as termination of a credential before its published expiration date. Revocation alerts include terminations (e.g. loss of DoD affiliation), lost and stolen cards and re-issuances (i.e. a second or subsequent issuance of a card to the same person/affiliation). The Registration Service will report lost, stolen, and terminated cards if there is an attempt to register with such card.

Revocations will be available for up to 60 days past the printed expiration date.

Credential revocations are made available via Enterprise Data Services, the Federated Credential Interface, and Local PACS credential issuer. The CIME uses CRLs for Federated Credential revocations. All revocations are directed to IoLS which are disseminated to the PACS Servers via the Update Service. These revocations include:

- DoD Credential Terminations (including lost or stolen notices)
- PIV, PIV-I, and TWICs terminations including terminations resulting from Authentication Certificate Revocations
- Local PACS credential revocations:
 - The Local PACS credential issuer maintains the responsibility for card terminations
 - A PACS Server cannot terminate a credential issued by another PACS Server
 - Revocations based on PIV\PIV-I or TWICs Authentication Certificate revocations¹

2.4.3 Security Alerts

IoLS records all registered persons and their registered credential and associates them with the Facilities Identifier of the PACS Server(s) where the credential is registered for use. IoLS directs the security alerts to the correct PACS Servers. These alerts include:

- Service’s Criminal Justice (CJ) / Law Enforcement alerts such as Suspended, Be on the Lookout (BOLOs), and Debarments
- Service’s PACS alerts such as Suspended, Be on the Lookout (BOLOs), and Debarments

¹The use of DoD PIV Certificates will precede the use of other federal government PIV (e.g. TWIC) and PIV-I certificates for the purpose of vetting a PACS Credential. PIV Certificates will be associated with a PACS Credential in the Add Credential Interface.

- NCIC alert (a simple flag/alert) that directs the local authority to check NCIC for detailed Criminal History Record Information (CHRI). No CHRI will be published or stored by IoLS, CIME or the Local PACS
- TSDB alert (a simple flag/alert) that directs the local authority to contact the DoD Terrorist Screening Center (TSC) to obtain Terrorist watch list information or to obtain guidance on further adjudication of the potential person of interest

These are known collectively as security alerts and are not only sent to the PACS Servers but also saved in IoLS for reporting to PACS Servers for instances where persons attempt to register at a later/future date.

When service/component CJ systems are not available, the service/component PACS may be used to source security alerts to IoLS.

2.5 Security Alert Service

The Security Alert Service will support:

- Addition of LP Security Alerts
- Management of LP Security Alerts

Security Alerts can only be modified by the Originating Source. The Source Account ID must be generated by the Originating System and will be stored in IoLS. This ID will be used to manage Security Alert Updates.

In cases where Local PACS generate security alerts, the Originating Source ID must be acquired from the Services' CJ System and manually entered in the PACS.

3 Demonstration Increments and Supported Functionality

The delivery of the functions in IoLS as designed has been and will continue to be incremental based on DIAC requirements. The following chronology is current as of the date of this document:

- **Increment 1** - Delivery of Common Registration Data: Completed June 2010. PACS Servers (e.g., Enabler, AIE) now come directly to the DMDC Web Service called the Token Verification Service (TVS) for registration data.
- **Increment 2** - Deliver Credential Revocations: Completed January 2011. This replaced TVS with the IoLS Registration Service. Although the payload was almost identical to TVS this replacement was done so that IoLS could not only provide registration data but also record registration (which TVS does not support). The added value of this recording of registration was that IoLS could now deliver DoD ID card revocations to PACS Servers who had those persons and credentials registered for access.
- **Increment 3** - Demonstrate simulated CIME capability across PACS Servers. Completed August, 2011. There was a focus on the data exchange between IoLS and PACS Servers, specifically pointing out the Registration Service for DoD ID card holders and the update service with credential revocations and security alerts.
 - In a test environment, the PACS Servers demonstrated:
 - Calls to the IoLS Registration Service using the credential inquiry (barcode or contactless) for DoD ID card holders as defined in this ICD
 - Reception of the attributes returned in the format defined in the ICD
 - Inclusion of IoLS System Identifier in PACS person data stores
 - Calls to the Update Service in the way defined in this ICD
 - Received and processed credential revocations (in the form of terminated or lost/stolen cards) and security Alert (for example Debarments and re-instatement after debarment)
 - Both the revocations and security alters were utilized by the PACS Servers to send immediate access decisions to access points on their PACS to allow or restrict access. These messages have been termed green light (Access), and red light (no access) based on the current method the PACS consume access privileges.
- **Increment 4** The following services will be added in support of JCTD 1Q 2013:
 - IoLS will be put into production use
 - LPIdMS into production
 - Demonstration of Local Population functionality to support Debarment and suspension alerts
 - Certificate registration and vetting will not be performed.

4 Connectivity and Security

The interface to IoLS uses point-to-point connections with Hypertext Transfer Protocol (HTTP). The connection will be secured by a Secure Socket Layer (SSL) connection.

During the integration process and initial setup, connectivity to IoLS is confirmed by working through your IoLS Project Officer and your local network operations personnel to open a Transmission Control Protocol/Internet Protocol (TCP/IP) socket or Uniform Resource Identifier (URL) connection. IoLS Project Officer's will assign a PACS Repository Identifier that is required for all transactions between a PACS Server and IoLS.

The customer must create a client application that can connect to the IoLS service, make a request, and receive a response. The table below provides an overview of the communications process:

Table 1: Standard Web Services Communications Process

Step	Process
1	Open an SSL connection to IoLS
2	Create a SOAP/XML Request message
3	Send the Request to IoLS via the connection opened in Step 1.
4	Receive the SOAP/XML response via the connection.
5	Parse the SOAP/XML response to retrieve data.
6	Identify and handle response codes and error conditions.

5 Attributes Provided in the IoLS Request and Response

The following table defines the PACS services:

Services

Service	Transactions
Registration	Register by token
	De-Registration
Local Populations	Inquiry by Identity
	Add Identity
	Manage Identity
	Add local population Credential
	Terminate local population Credential
Update	Retrieve Ticket
	Retrieve Response
Security Alert	Add Security Alert
	Manage Security Alert

The following tables define cases and transactions involved for the services above:

Registration Service

Use Case	Pre-condition (all require valid Facility Identifier)	Input	Output	Alternate Outcome
Register with a token Using CAC	Swipe barcode or contactless	Register by token request	Register by token response	Token not valid
Register with a token Using PIV, PIV-I TWICs	Swipe barcode or contactless	Register by token request	Register by token response	Token not found in LPIdMS (go to local pop identity inquiry)
Register with a token Using Local Issued Token	Swipe barcode or contactless	Register by token request	Register by token response	Token not valid Token not found in LPIdMS (go to local pop inquiry by identity)
De-Registration	valid PN_SYS_ID	De-register request	De-Registration response	PN_SYS_ID not found

Local Population Services

Use Case	Pre-condition (all require valid Facility Identifier)	Input	Output	Alternate Outcome
Inquiry By Identity	Identity traits	Inquiry by Identity request	Inquiry by Identity response	Identity not found (go to add interface) Person found to be a DoD ID card holder.

Use Case	Pre-condition (all require valid Facility Identifier)	Input	Output	Alternate Outcome
Add Identity	Identity traits	Add Identity request	Add Identity response (returning assigned PN_SYS_ID)	Identity already exists Add not accepted (reason based on error code) Person found to be a DoD ID card holder.
Manage Identity	Did inquiry and want to update returned information	Manage Identity request (full image with changes)	Manage Identity Response	Update not accepted (reason based on error code) Modification results in duplicate Identity
Add local pop credential	Did Identity Inquiry, now have PN_SYS_ID and token to add (may add Auth certificate for use in revoke check at this time)	Add credential	Credential Add Response	PN_SYS_ID not found Certificate expired Certificate revoked
Terminate local pop credential	Added credential and have PN_SYS_ID and token ID	Terminate credential	Terminate Credential Response	Credential or person not found

Update Service

Use Case	Pre-condition (all require valid Facility Identifier)	Input	Output	Alternate Outcome
Retrieve Ticket	Valid Start date	Retrieve Ticket Request	Retrieve Ticket Response	
Retrieve Result	Valid ticket number from Retrieve Ticket	Retrieve Result Request	Retrieve Result Response	System is still processing the request. Invalid ticket number

Security Alert Service

Use Case	Pre-condition	Input	Output	Alternate Outcome
Add Security Alert	Valid Security Service Identifier	Add Security Alert Request	Add Security Alert Response	No Account ID code provided.
Manage Security Alert	Valid Security Service Identifier	Manage Security Alert Request	Manage Security Alert Response	Account ID not found Originating source ID does not match

The following sections provide the interface elements supported by IoLS.

5.1 Registration Service

The following are the Interfaces that can be consumed for Registration Service:

- Registration by Token Interface – called to register a person (DoD or LP) to a PACS Server in the IoLS System. PACS Servers will henceforth receive Updates for those who are successfully registered

- De-registration Interface – called to de-register a person (DoD or LP) from a PACS in the IoLS System. PACS Servers will henceforth no longer receive Updates for those who are successfully de-registered

5.1.1 Registration by Token Interface

5.1.1.1 Registration by Token Request Elements (DoD and LP)

Table 2: Registration by Token Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.1.1.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.1.1.1.2	Token Identifier (1:N)	CRDL_TYP_CD	Credential Type Code Type - Valid values 1 – PIV (other federal) 2 – DoD ID Card (CAC and Teslin) 3 – PIV-I (other non-federal) 4 – TWIC 5 – DBIDS Local PACS 6 – AIE Local PACS 7 – NACMS Local PACS 8 – USMC Local PACS 9 – Component PACS	String: 1	Required
5.1.1.1.2.1		TKN_TYP_CD	Type of Token 02 – Bar Code (DoD, PACS, and FiXs PIV-I) 04 – FASC-N (DoD and PIV) 20 – GUID (PIV-I)	String: 2	Required
5.1.1.1.2.2		TKN_ID	Token Identifier	String: 50	Required

5.1.1.2 Registration by Token Response Elements (DoD and LP)

Table 3: Registration by Token Response

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.1	Status(1:1)	Code	Registration Status: (See Appendix A for status codes and descriptions)	Int	DoD, LP
5.1.1.2.1.1		Message	Description of status if error occurs.	String	DoD, LP
5.1.1.2.1.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	DoD, LP
5.1.1.2.2	System Identifier(1:1)	PN_SYS_ID	Person System Identifier	String: 10	DoD, LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.2.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Population EDI PI	String: 1	DoD, LP
5.1.1.2.3	Person (1:1)	PN_ID	Person Identifier	String: 9	DoD, LP
5.1.1.2.3.1		PN_ID_TYP_CD	Person Identifier Type Code S- SSN Social Security Number F - Special 9-digit DoD Code created for Foreign and military nationals I - Tax Identification Number	String: 1	DoD, LP
5.1.1.2.3.2		FN_ASSGN_ID	Foreign Nation Assigned ID	String: 20	LP
5.1.1.2.3.3		FN_ASSGN_ID_CTRY_CD	Represents the country that issued the person identifier and is required ²	String: 2	LP
5.1.1.2.3.4		PN_LST_NM	Person Last Name	String: 26	DoD, LP
5.1.1.2.3.5		PN_1ST_NM	Person First Name	String: 20	DoD, LP
5.1.1.2.3.6		PN_MID_NM	Person Middle Name	String: 20	DoD, LP
5.1.1.2.3.7		PN_CDNCY_NM	Person Cadency Roman Numerals up to 3 numerals Alpha—Jr, Sr	String: 3	DoD, LP
5.1.1.2.3.8		PN_SEX_CD	Person Sex Code F - Female M - Male Z - Unknown	String: 1	DoD, LP
5.1.1.2.3.9		PN_BRTH_DT	Person Birth Date	Date: YYYYMMDD	DoD, LP
5.1.1.2.3.10		RACE_CD	Person Race Code (See Appendix B)	String: 1	DoD, LP
5.1.1.2.3.11		PN_DTH_CD	Person Death Code Y – Yes N – No	String: 1	DoD, LP
5.1.1.2.3.12		PN_DTH_DT	Person Death Date	Date: YYYYMMDD	DoD, LP

² Note – Country codes are defined and managed by DMDC for life-cycle and are to be issued to each service to be populated within Local PACS pre-defined pick list See Appendix B

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.3.13		US_CTZP_STAT_CD	US citizenship indicator N - No Y - Yes Z - Unknown	String: 1	DoD, LP
5.1.1.2.3.14		CTZP_CTRY_CD	If not US then country of citizenship (ISO) (See Appendix B)	String: 2	DoD
5.1.1.2.4	Secondary Person Identifier (0:N)	SEC_PN_ID:	Secondary Person Identifier	String: 20	LP
5.1.1.2.4.1		SEC_PN_ID_TYP_CD	Secondary Person Identifier Type Code (See Appendix B)	CHAR: 1	LP
5.1.1.2.4.2		SEC_ID_ISS_DT	Secondary Person Identifier Issue Date	Date: YYYYMM DD	LP
5.1.1.2.4.3		SEC_ID_EXP_DT	Secondary Person Identifier Expiration Date	Date: YYYYMM DD	LP
5.1.1.2.4.4		SEC_ID_ST_CD	Secondary Identifier State Code	String: 2	LP
5.1.1.2.4.5		SEC_ID_CTRY_CD	Secondary Identifier Country Code	String: 2	LP
5.1.1.2.5	Contact (1:1)	MA_LN1_TX	Mail Address Line 1	String: 40	DoD, LP
5.1.1.2.5.1		MA_LN2_TX	Mailing Address Line 2	String: 40	DoD, LP
5.1.1.2.5.2		MA_CITY_NM	Mailing Address City Name	String: 20	DoD, LP
5.1.1.2.5.3		MA_ST_CD	Mailing Address State Code	String: 2	DoD, LP
5.1.1.2.5.4		MA_CTRY_CD	Mailing Address Country Code (See Appendix B)	String: 2	DoD, LP
5.1.1.2.5.5		MA_PR_ZIP_CD	Mailing Address Postal Region ZIP Code	String: 5	DoD, LP
5.1.1.2.5.6		MA_PR_ZIPX_CD	Mailing Address Postal Region Zip extension	String: 4	DoD, LP
5.1.1.2.5.7		HM_TNUM_CD	Home Telephone Number	String: 20	DoD, LP
5.1.1.2.5.8		WK_TNUM_CD	Work Telephone Number	String: 20	DoD, LP
5.1.1.2.6	Physical (1:1)	HGT_DM	Height Dimension (inches)	Int: 2	DoD, LP
5.1.1.2.6.1		PN_WGHT_QY	Person Weight Quantity (pounds)	Int: 3	DoD, LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.6.2		EYE_CLR_CD	Eye Color Code 1 – Brown (BR) 2 – Green (GR) 3 – Blue (BL) 4 – Hazel (HZ) 5 – Black (BK) 6 – Gray (GY) 7 – Violet (VI) 8 - Unknown	String: 1	DoD, LP
5.1.1.2.6.3		PN_HAIR_CLR_CD	Person Hair Color Code A – Blond (BN) B – Brown (BR) C – Black (BK) D – Gray (GY) E – Red (RD) F – White (WH) G – Silver (SL) H – Auburn (AU) W – Not applicable (i.e., the person is bald)	String: 1	DoD, LP
5.1.1.2.7	Photo (1:1)	PHT_IMG	Photograph image JPEG	hexBinary	DoD, LP
5.1.1.2.8	Finger (0:10) ³	FNGR_IMG	The fingerprint image	hexBinary	DoD, LP
5.1.1.2.8.1		FNGR_CPTR_DT	Fingerprint Capture Date	Date: YYYYMM DD	DoD, LP

³ *Biometric Fingerprint Exceptions: To address the use case for registration of Local Population individuals who meet any of the following exception and are unable to provide biometric fingerprint information, the IoLS data dictionary shall provide an indicator variable that when set stipulates the exception for the lack of fingerprint enrollment data in individual's record: Physical impairment that prohibits the capture of biometric information (i.e. bandaged or missing fingers), Host Nation PII protection policy, Diplomatic Immunity*

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.8.2		FNGR_CMPSN_TYP_CD	A - Cogent WSQ A - Cogent WSQ 15:1 compression with bytes flipped upside down B - Cogent WSQ 15:1 compression without bytes flipped C - Identix WSQ 15:1 compression D - NIST NBIS WSQ 15:1 compression E - WSQ, Image from IDProTECT F - Aware WSQ1000 G – EBTS (latest version to be specified)	String: 1	DoD, LP
5.1.1.2.8.3		FNGR_CPTR_CD	The digit captured (See Appendix B)	String: 2	DoD, LP
5.1.1.2.8.4		FNGR_MTA_IMG	The persons fingerprint minutia (M1 Template)	hexBinary	DoD, LP
5.1.1.2.8.5		FNGR_MTA_VNDR_CD	Fingerprint Minutia Vendor Code (See Appendix B)	String: 1	DoD, LP
5.1.1.2.8.6		FNGR_MTA_TYP_CD	Fingerprint Minutia Type Code (See Appendix B)	CHAR:2	DoD, LP
5.1.1.2.8.7		FNGR_MTA_DS_TX	Fingerprint Minutia Digital Signature Text	VARCHAR 2:3500	DoD, LP
5.1.1.2.9	Hand Geom (1:N)	HAND_TPL	Hand template	hexBinary	LP
5.1.1.2.9.1		HAND_TPL_LEN	Hand template length	Int:	LP
5.1.1.2.10	Credential (1:1)	CRDL_TYP_CD	Credential Type Code Type - Valid values 1 – PIV (other federal) 2 – DoD ID Card (CAC and Teslin) 3 – PIV-I (other non-federal, contactless only) 4 – TWIC 5 – DBIDS Local PACS 6 – AIE Local PACS 7 – NACMS Local PACS 8 – USMC Local PACS 9 – Component PACS	String: 1	DoD, LP
5.1.1.2.10.1		CRD_EXP_DT	Date of Expiration	Date: YYYYMM DD	DoD, LP
5.1.1.2.10.2		PACS_CRD_ISSR_ID	Identity of credential issuer	String: 5	LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.10.3		NAC_STAT_CD	NAC Status Code (interim, final, NA) (See Appendix B)	String: 1	DoD
5.1.1.2.10.4		NAC_LST_DT	NAC Last update Date	Date: YYYYMMDD	DoD
5.1.1.2.10.5		TAMP_STAT_CD	Transitional Status Code	CHAR:1 (Y/N)	DoD
5.1.1.2.10.6	Token (1:N)	TKN_TYP_CD	Type of Token 02 – Bar Code (DoD, PACS, and FiXs PIV-I) 04 – FASC-N (DoD and PIV) 20 – GUID (PIV-I)	String: 2	DoD, LP
5.1.1.2.10.6.1		TKN_ID	Token Identifier	String: 50	DoD, LP
5.1.1.2.10.6.2		TKN_ISS_DT ⁴	Token Issue Date	Date: YYYYMMDD	DoD, LP
5.1.1.2.10.6.3		TKN_END_DT ⁵	Token End Date	Date: YYYYMMDD	DoD, LP
5.1.1.2.12	DoD-Association	PNL_CAT_CD	DoD Personnel Category Code (See Appendix B)	String: 1	DoD
5.1.1.2.12.1		SVC_CD	DoD Service branch	String: 1	DoD
5.1.1.2.12.2		USGVT_AGCY_CD	US Government Agency Code (See Appendix B)	String: 4	DoD
5.1.1.2.12.3		CIV_OCONUS_STAT_CD	Civilian or contractor on overseas assignment	String: 1	DoD
5.1.1.2.12.4		EE_CIV_STAT_CD	Emergency Essential Civilian Servant	String: 1	DoD
5.1.1.2.12.5		RSV_STAT_CD	Active guard/reserve	String: 1	DoD
5.1.1.2.12.6		PAY_PLN_CD	Personnel Pay Plan code	String: 5	DoD
5.1.1.2.12.7		PG_CD	Personnel Pay Grade Code	String: 2	DoD
5.1.1.2.12.8		RANK_CD	Personnel Rank Code	String: 6	DoD
5.1.1.2.13	DoDFamily-Association (1:1)	SPN_DOD EDI_PN_ID	Sponsor's DoD EDI_PN_ID (same as above if sponsor)	String: 10	DoD

⁴ For each Credential, all Token Issue Dates will be the same.

⁵ The TKN_END_DT will always be equal to CRD_EXP_DT.

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.13.1		PNA_RSN_CD	Persons association to sponsor (this will be self if person is sponsor)	String: 2	DoD
5.1.1.2.14	Local-Association (1:1)	LCL_CAT_CD	Local Facility Category Code (See Appendix B)	String: 1	LP
5.1.1.2.15	Security Alert (1:N) with Person	Originating System ID	Identifies Source of Security Alert data: 01 – COPS (Army CJ) 02 – CLEOC (Navy/MC CJ) 03 – SFMIS (AF CJ) 04 – NCIC (Federal CJ) 05 – TSDB (Federal CJ) 06 – Navy PACS 07 – Air Force PACS 08 – Army PACS 09 – Marine Corps PACS 10 – Component PACS	String: 2	DoD, LP
5.1.1.2.15.1		Source Account ID	Created by CIME – Originating Source ID specific	String: 25	DoD, LP
5.1.1.2.15.2		Source Person ID	CJ only COI-Specific	String: 25	DoD, LP
5.1.1.2.15.3		Alert Type	BA = Debarment RE = Revocation SU = Suspended WA = Wants and Warrants BL = Be On Lookout	String: 2	DoD, LP
5.1.1.2.15.4		Alert Effective Date	Date Alert started	Date: YYYYMM DD	DoD, LP
5.1.1.2.15.5		Alert End Date	Date Alert Scheduled to End	Date: YYYYMM DD	DoD, LP
5.1.1.2.15.6		Alert Reinstatement\ Termination Date	Date access re-instated on a BA or terminated on an Alert like BL ⁶	Date: YYYYMM DD	DoD, LP
5.1.1.2.15.7		Installation/Base	Base name where alert was originated	String: 75	DoD, LP
5.1.1.2.15.8		Case Number	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String: 50	DoD, LP

⁶ Additionally, for CJ sourced security alerts that are properly adjudicated and found to be incorrect or false, this field is used as an override to enter the date that access was re-instated.

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.1.2.15.9		Case Related to Points	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String: 1	DoD, LP
5.1.1.2.15.10		FBI Location Number (ORI)	String Only applies to alerts sourced by CJ via CIME	String: 9	DoD, LP
5.1.1.2.15.11		Alert Remarks	Free Form text field that provides additional information about Alert	String: 100	DoD, LP

5.1.2 Deregistration Interface

5.1.2.1 De-registration Request Elements

Table 4: De-registration Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.1.2.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.1.2.1.2	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	Required
5.1.2.1.2.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Person EDI PI	String: 1	Required

5.1.2.2 De-Registration Response Elements

Table 5: De-Registration Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.1.2.2.1	Status(1:1)	Code	Status of De-Registration: (See Appendix A for status codes and descriptions)	Int	DoD, LP
5.1.2.2.1.1		Message	Description of status if error occurs.	String	DoD, LP
5.1.2.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	DoD, LP
5.1.2.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	DoD, LP
5.1.2.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Person EDI PI	String: 1	DoD, LP

5.2 Local Population Service

The following are the Interfaces that can be consumed for Local Population Service:

- Inquiry by Identity Interface – called to inquire about the existence of the Local Person within LPIdMS. If the Local Person does not exist, the PACS will need to call the “Add” Interface. If the Local Person exists, the PACS can call “Manage” Interface to update the information about the person.
- Add Identity Interface – called to add the Local Person and local person’s credential into LPIdMS
- Add LP Credential Interface – called to add the Local Person’s credential into LPIdMS
- Manage Identity Interface – called to update the Local Person’s identity information within LPIdMS
- Terminate LP Credential Interface – called to update the Local Person’s credential within LPIdMS.

5.2.1 Inquire by Identity Interface

5.2.1.1 Inquire by Identity Request Elements

Table 6: Inquire by Identity Request

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.1.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.2.1.1.2	Person (1:1)	PN_ID	Person Identifier	String: 9	Required
5.2.1.1.2.1		PN_ID_TYP_CD	Person Identifier Type Code S- SSN Social Security Number F – special 9-digit DoD code created for Foreign and military national I - Tax Identification Number	String: 1	Required
5.2.1.1.2.2		FN_ASSGN_ID	Foreign Nation Assigned ID	String: 20	Required (if Foreign National)
5.2.1.1.2.3		FN_ASSGN_ID_CTRY_CD	Represents the country that issued the person identifier and is required ⁷	String: 2	Required (if Foreign National)
5.2.1.1.2.4		PN_LST_NM	Person Last Name	String: 26	Required
5.2.1.1.2.5		PN_1ST_NM	Person First Name	String: 20	Required

⁷ Note – Country codes are defined and managed by DMDC for life-cycle and are to be issued to each service to be populated within Local PACS pre-defined pick list See Appendix B

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.1.1.2.6		PN_SEX_CD	Person Sex Code F – Female M – Male Z – Unknown	String: 1	Required
5.2.1.1.2.7		RACE_CD	Person Race Code (See Appendix B)	String: 1	Optional
5.2.1.1.2.8		PN_BRTH_DT	Person Birth Date	Date: YYYYMMDD	Required

5.2.1.2 Inquire by Identity Response Elements

Table 7: Local Population Inquiry by Identity Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.1.2.1	Status (1:1)	Code	Status of Inquiry Request: (See Appendix A for status codes and descriptions)	Int	DoD, LP
5.2.1.2.1.1		Message	Description of status if error occurs.	String	DoD, LP
5.2.1.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	DoD, LP
5.2.1.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	DoD, LP
5.2.1.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Population EDI PI	String: 1	DoD, LP
5.2.1.2.4	Person (1:1)	PN_ID	Person Identifier	String: 9	DoD, LP
5.2.1.2.4.1		PN_ID_TYP_CD	Person Identifier Type Code S- SSN Social Security Number F – special 9-digit DoD code created for Foreign and military nationals I -Tax Identification Number	String: 1	DoD, LP
5.2.1.2.4.2		FN_ASSGN_ID	Foreign Nation Assigned ID	String: 20	LP
5.2.1.2.4.3		FN_ASSGN_ID_CTRY_CD	Represents the country that issued the person identifier and is required ⁸	String: 2	LP

⁸ Note – Country codes are defined and managed by DMDC for life-cycle and are to be issued to each service to be populated within Local PACS pre-defined pick list. See Appendix B

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.1.2.4.4		PN_LST_NM	Person Last Name	String: 26	DoD, LP
5.2.1.2.4.5		PN_1ST_NM	Person First Name	String: 20	DoD, LP
5.2.1.2.4.6		PN_MID_NM	Person Middle Name	String: 20	DoD, LP
5.2.1.2.4.7		PN_CDNCY_NM	Person Cadency Roman Numerals up to 3 numerals Alpha—Jr, Sr	String: 3	DoD, LP
5.2.1.2.4.8		PN_SEX_CD	Person Sex Code F - Female M - Male Z - Unknown	String: 1	DoD, LP
5.2.1.2.4.9		RACE_CD	Person Race Code (See Appendix B)	String: 1	DoD, LP
5.2.1.2.4.10		PN_BRTH_DT	Person Birth Date	Date: YYYYMMDD	DoD, LP
5.2.1.2.4.11		PN_DTH_CD	Person Death Code Y - Yes N - No	String: 1	DoD, LP
5.2.1.2.4.12		PN_DTH_DT	Person Death Date	Date: YYYYMMDD	DoD, LP
5.2.1.2.4.13		US_CTZP_STAT_CD	US citizenship indicator N - No Y - Yes Z - Unknown	String: 1	DoD, LP
5.2.1.2.4.14		CTZP_CTRY_CD	If not US then country of citizenship (ISO) See Appendix B	String: 2	DoD, LP
5.2.1.2.5	Secondary Person Identifier (0:N)	SEC_PN_ID:	Secondary Person Identifier	String: 20	LP
5.2.1.2.5.1		SEC_PN_ID_TYP_CD	Secondary Person Identifier Type Code (See Appendix B)	CHAR: 1	LP
5.2.1.2.5.2		SEC_ID_ISS_DT	Secondary Person Identifier Issue Date	Date: YYYYMMDD	LP
5.2.1.2.5.3		SEC_ID_EXP_DT	Secondary Person Identifier Expiration Date	Date: YYYYMMDD	LP
5.2.1.2.5.4		SEC_ID_ST_CD	Secondary Identifier State Code	String: 2	LP
5.2.1.2.5.5		SEC_ID_CTRY_CD	Secondary Identifier Country Code	String: 2	LP
5.2.1.2.6	Contact (1:1)	MA_LN1_TX	Mail Address Line 1	String: 40	DoD, LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.1.2.6.1		MA_LN2_TX	Mailing Address Line 2	String: 40	DoD, LP
5.2.1.2.6.2		MA_CITY_NM	Mailing Address City Name	String: 20	DoD, LP
5.2.1.2.6.3		MA_ST_CD	Mailing Address State Code	String: 2	DoD, LP
5.2.1.2.6.4		MA_CTRY_CD	Mailing Address Country Code (See Appendix B)	String: 2	DoD, LP
5.2.1.2.6.5		MA_PR_ZIP_CD	Mailing Address Postal Region ZIP Code	String: 5	DoD, LP
5.2.1.2.6.6		MA_PR_ZIPX_CD	Mailing Address Postal Region Zip extension	String: 4	DoD, LP
5.2.1.2.6.7		HM_TNUM_CD	Home Telephone Number	String: 20	DoD, LP
5.2.1.2.6.8		WK_TNUM_CD	Work Telephone Number	String: 20	DoD, LP
5.2.1.2.7	Physical (1:1)	HGT_DM	Height Dimension (inches)	Int: 2	DoD, LP
5.2.1.2.7.1		PN_WGHT_QY	Person Weight Quantity (pounds)	Int: 3	DoD, LP
5.2.1.2.7.2		EYE_CLR_CD	Eye Color Code 1 – Brown (BR) 2 – Green (GR) 3 – Blue (BL) 4 – Hazel (HZ) 5 – Black (BK) 6 – Gray (GY) 7 – Violet (VI) 8 - Unknown	String: 1	DoD, LP
5.2.1.2.7.3		PN_HAIR_CLR_CD	Person Hair Color Code A – Blond (BN) B – Brown (BR) C – Black (BK) D – Gray (GY) E – Red (RD) F – White (WH) G – Silver (SL) H – Auburn (AU) W – Not applicable (i.e., the person is bald)	String: 1	DoD, LP
5.2.1.2.8	Photo (1:1)	PHT_IMG	Photograph image JPEG	hexBinary	DoD, LP
5.2.1.2.9	Finger (0:10) ⁹	FNGR_IMG	The fingerprint image	hexBinary	DoD, LP

⁹ *Biometric Fingerprint Exceptions: To address the use case for registration of Local Population individuals who meet any of the following exception and are unable to provide biometric fingerprint information, the*

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.1.2.9.1		FNGR_CPTR_DT	Fingerprint Capture Date	Date: YYYYMMDD	DoD, LP
5.2.1.2.9.2		FNGR_CMPSN_TY P_CD	A - Cogent WSQ A - Cogent WSQ 15:1 compression with bytes flipped upside down B - Cogent WSQ 15:1 compression without bytes flipped C - Identix WSQ 15:1 compression D - NIST NBIS WSQ 15:1 compression E - WSQ, Image from IDProTECT F - Aware WSQ1000	String: 1	DoD, LP
5.2.1.2.9.3		FNGR_CPTR_CD	The digit captured (See Appendix B)	String: 2	DoD, LP
5.2.1.2.9.4		FNGR_MTA_IMG	The persons fingerprint minutia image	hexBinary	DoD, LP
5.2.1.2.9.5		FNGR_MTA_VNDR_CD	Fingerprint Minutia Vendor Code (See Appendix B)	String: 1	DoD, LP
5.2.1.2.9.6		FNGR_MTA_TYP_CD	Fingerprint Minutia Type Code (See Appendix B)	CHAR:2	DoD, LP
5.2.1.2.9.7		FNGR_MTA_DS_TX	Fingerprint Minutia Digital Signature Text	VARCHAR2:3500	DoD, LP
5.2.1.2.10	Security Alert (1:N) with Person	Originating System ID	Identifies Source of Security Alert data: 01 – COPS (Army CJ) 02 – CLEOC (Navy/MC CJ) 03 – SFMIS (AF CJ) 04 – NCIC (Federal CJ) 05 – TSDB (Federal CJ) 06 – Navy PACS 07 – Air Force PACS 08 – Army PACS 09 – Marine Corps PACS 10 – Component PACS	String: 2	DoD, LP
5.2.1.2.10.1		Source Account ID	Created by CIME – Originating Source ID specific	String: 25	DoD, LP

IoLS data dictionary shall provide an indicator variable that when set stipulates the exception for the lack of fingerprint enrollment data in individual's record: Physical impairment that prohibits the capture of biometric information (i.e. bandaged or missing fingers), Host Nation PII protection policy, Diplomatic Immunity

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.1.2.10.2		Source Person ID	CJ only COI-Specific Only applies to alerts sourced by CJ via CIME	String: 25	DoD, LP
5.2.1.2.10.3		Alert Type	BA = Debarment RE = Revocation SU = Suspended WA = Wants and Warrants BL = Be On Lookout	String: 2	DoD, LP
5.2.1.2.10.4		Alert Effective Date	Date Alert started	Date: YYYYMMDD	DoD, LP
5.2.1.2.10.5		Alert End Date	Date Alert Scheduled to End	Date: YYYYMMDD	DoD, LP
5.2.1.2.10.6		Alert Reinstatement\ Termination Date	Date access re-instated on a BA or terminated on an Alert like BL	Date: YYYYMMDD	DoD, LP
5.2.1.2.10.7		Installation/Base	Base name where alert originated	String: 75	DoD, LP
5.2.1.2.10.8		Case Number	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String: 50	DoD, LP
5.2.1.2.10.9		Case Related to Points	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String: 1	DoD, LP
5.2.1.2.10.10		FBI Location Number (ORI)	String Only applies to alerts sourced by CJ via CIME	String: 9	DoD, LP
5.2.1.2.10.11		Alert Remarks	Free Form text field that provides additional information about Alert	String: 100	DoD, LP

5.2.2 Add Local Population Identity Interface

5.2.2.1 Add Local Population Identity Request Elements

Table 8: Local Population Add Identity Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.2.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.2.2.1.2	Person (1:1)	PN_ID	Person Identifier	String: 9	Required
5.2.2.1.2.1		PN_ID_TYP_CD	Person Identifier Type Code S- SSN Social Security Number F – special 9-digit DoD code created for Foreign and military nationals I - Tax Identification Number	String: 1	Required
5.2.2.1.2.2		FN_ASSGN_ID	Foreign Nation Assigned ID	String: 20	Required (if Foreign National)
5.2.2.1.2.3		FN_ASSGN_ID_CTRY_CD	Represents the country that issued the person identifier and is required ¹⁰	String: 2	Required (if Foreign National)
5.2.2.1.2.4		PN_LST_NM	Person Last Name	String: 26	Required
5.2.2.1.2.5		PN_1ST_NM	Person First Name	String: 20	Required
5.2.2.1.2.6		PN_MID_NM	Person Middle Name	String: 20	Optional
5.2.2.1.2.7		PN_CDNCY_NM	Person Cadency Roman Numerals up to 3 numerals Alpha—Jr, Sr	String: 3	Optional
5.2.2.1.2.8		PN_SEX_CD	Person Sex Code F - Female M - Male Z - Unknown	String: 1	Required
5.2.2.1.2.9		RACE_CD	Person Race Code (See Appendix B)	String: 1	Optional
5.2.2.1.2.10		PN_BRTH_DT	Person Birth Date	Date: YYYYMM MDD	Required
5.2.2.1.2.11		US_CTZP_STAT_CD	US citizenship indicator N - No Y - Yes Z - Unknown	String: 1	Optional

¹⁰ Note – Country codes are defined and managed by DMDC for life-cycle and are to be issued to each service to be populated within Local PACS pre-defined pick list. See Appendix B

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.2.1.2.12		CTZP_CTRY_CD	If not US then country of citizenship (ISO) (See Appendix B)	String: 2	Optional
5.2.2.1.3	Secondary Person Identifier (0:N)	SEC_PN_ID:	Secondary Person Identifier	String: 20	Optional
5.2.2.1.3.1		SEC_PN_ID_TYP_CD	Secondary Person Identifier Type Code (See Appendix B)	CHAR: 1	Optional
5.2.2.1.3.2		SEC_ID_ISS_DT	Secondary Person Identifier Issue Date	Date: YYYYMM MDD	Optional
5.2.2.1.3.3		SEC_ID_EXP_DT	Secondary Person Identifier Expiration Date	Date: YYYYMM MDD	Optional
5.2.2.1.3.4		SEC_ID_ST_CD	Secondary Identifier State Code	String: 2	Optional
5.2.2.1.3.5		SEC_ID_CTRY_CD	Secondary Identifier Country Code	String: 2	Optional
5.2.2.1.4	Contact (1:1)	MA_LN1_TX	Mail Address Line 1	String: 40	Required
5.2.2.1.4.1		MA_LN2_TX	Mailing Address Line 2	String: 40	Optional
5.2.2.1.4.2		MA_CITY_NM	Mailing Address City Name	String: 20	Required
5.2.2.1.4.3		MA_ST_CD	Mailing Address State Code	String: 2	Required
5.2.2.1.4.4		MA_CTRY_CD	Mailing Address Country Code (See Appendix B)	String: 2	Required
5.2.2.1.4.5		MA_PR_ZIP_CD	Mailing Address Postal Region ZIP Code	String: 5	Required
5.2.2.1.4.6		MA_PR_ZIPX_CD	Mailing Address Postal Region Zip extension	String: 4	Optional
5.2.2.1.4.7		HM_TNUM_CD	Home Telephone Number	String: 20	Optional
5.2.2.1.4.8		WK_TNUM_CD	Work Telephone Number	String: 20	Optional
5.2.2.1.5	Physical (1:1)	HGT_DM	Height Dimension (inches)	Int: 2	Optional
5.2.2.1.5.1		PN_WGHT_QY	Person Weight Quantity (pounds)	Int: 3	Optional

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.2.1.5.2		EYE_CLR_CD	Eye Color Code 1 – Brown (BR) 2 – Green (GR) 3 – Blue (BL) 4 – Hazel (HZ) 5 – Black (BK) 6 – Gray (GY) 7 – Violet (VI) 8 - Unknown	String: 1	Optional
5.2.2.1.5.3		PN_HAIR_CLR_CD	Person Hair Color Code A – Blond (BN) B – Brown (BR) C – Black (BK) D – Gray (GY) E – Red (RD) F – White (WH) G – Silver (SL) H – Auburn (AU) W – Not applicable (i.e., the person is bald)	String: 1	Optional
5.2.2.1.6	Photo (1:1)	PHT_IMG	Photograph image JPEG	hexBinary	Required
5.2.2.1.7	Finger (0:10) ¹¹	FNGR_IMG	The fingerprint image	hexBinary	Required
5.2.2.1.7.1		FNGR_CPTR_DT	Fingerprint Capture Date	Date: YYYYM MDD	Required

¹¹ *Biometric Fingerprint Exceptions: To address the use case for registration of Local Population individuals who meet any of the following exception and are unable to provide biometric fingerprint information, the IoLS data dictionary shall provide an indicator variable that when set stipulates the exception for the lack of fingerprint enrollment data in individual's record: Physical impairment that prohibits the capture of biometric information (i.e. bandaged or missing fingers), Host Nation PII protection policy, Diplomatic Immunity*

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.2.1.7.2		FNGR_CMPSN_TYP_CD	A - Cogent WSQ A - Cogent WSQ 15:1 compression with bytes flipped upside down B - Cogent WSQ 15:1 compression without bytes flipped C - Identix WSQ 15:1 compression D - NIST NBIS WSQ 15:1 compression E - WSQ, Image from IDProTECT F - Aware WSQ1000	String: 1	Required
5.2.2.1.7.3		FNGR_CPTR_CD	The digit captured (See Appendix B)	String: 2	Required
5.2.2.1.7.4		FNGR_MTA_IMG	The persons fingerprint minutia image	hexBinary	Required
5.2.2.1.7.5		FNGR_MTA_VNDR_CD	Fingerprint Minutia Vendor Code (See Appendix B)	String: 1	Optional
5.2.2.1.7.6		FNGR_MTA_TYP_CD	Fingerprint Minutia Type Code (See Appendix B)	CHAR:2	Required
5.2.2.1.7.7		FNGR_MTA_DS_TX	Fingerprint Minutia Digital Signature Text	VARCHAR2:3500	Optional

5.2.2.2 Add Local Population Identity Response Elements

Table 9: Add Local Population Identity Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD/LP)
5.2.2.2.1	Status (1:1)	Code	Status of Add Request: (See Appendix A for status codes and descriptions)	Int	LP
5.2.2.2.1.1		Message	Description of status if error occurs.	String	LP
5.2.2.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	LP
5.2.2.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	LP
5.2.2.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	LP

5.2.3 Manage Local Population Identity Interface

5.2.3.1 Manage Local Population Identity Request Elements

Table 10: Local Population Manage Identity Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.3.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.2.3.1.2	System Identifier	PN_SYS_ID	Person System Identifier	String: 10	Required
5.2.3.1.2.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	Required
5.2.3.1.3	Person (1:1)	PN_ID	Person Identifier	String: 9	Required
5.2.3.1.3.1		PN_ID_TYP_CD	Person Identifier Type Code S- SSN Social Security Number F – special 9-digit DoD code created for Foreign and military nationals I - Tax Identification Number	String: 1	Required
5.2.3.1.3.2		FN_ASSGN_ID	Foreign Nation Assigned ID	String: 20	Required (if Foreign National)

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.3.1.3.3		FN_ASSGN_ID_CTRY_CD	Represents the country that issued the person identifier and is required ¹²	String: 2	Required (if Foreign National)
5.2.3.1.3.4		PN_LST_NM	Person Last Name	String: 26	Required
5.2.3.1.3.5		PN_1ST_NM	Person First Name	String: 20	Required
5.2.3.1.3.6		PN_MID_NM	Person Middle Name	String: 20	Optional
5.2.3.1.3.7		PN_CDNCY_NM	Person Cadency Roman Numerals up to 3 numerals Alpha—Jr, Sr	String: 3	Optional
5.2.3.1.3.8		PN_SEX_CD	Person Sex Code F - Female M - Male Z - Unknown	String: 1	Required
5.2.3.1.3.9		RACE_CD	Person Race Code (See Appendix B)	String: 1	Optional
5.2.3.1.3.10		PN_BRTH_DT	Person Birth Date	Date: YYYYMMDD	Required
5.2.3.1.3.11		PN_DTH_CD	Person Death Code Y – Yes N – No	String: 1	Optional
5.2.3.1.3.12		PN_DTH_DT	Person Death Date	Date: YYYYMMDD	Optional
5.2.3.1.3.13		US_CTZP_STAT_CD	US citizenship indicator N - No Y - Yes Z - Unknown	String: 1	Optional
5.2.3.1.3.14		CTZP_CTRY_CD	If not US then country of citizenship (ISO) (See Appendix B)	String: 2	Optional
5.2.3.1.4	Secondary Person Identifier (0:N)	SEC_PN_ID:	Secondary Person Identifier	String: 20	Optional
5.2.3.1.4.1		SEC_PN_ID_TYP_CD	Secondary Person Identifier Type Code (See Appendix B)	CHAR: 1	Optional
5.2.3.1.4.2		SEC_ID_ISS_DT	Secondary Person Identifier Issue Date	Date: YYYYMMDD	Optional
5.2.3.1.4.3		SEC_ID_EXP_DT	Secondary Person Identifier Expiration Date	Date: YYYYMMDD	Optional

¹² Note – Country codes are defined and managed by DMDC for life-cycle and are to be issued to each service to be populated within Local PACS pre-defined pick list. See Appendix B

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.3.1.4.4		SEC_ID_ST_CD	Secondary Identifier State Code	String: 2	Optional
5.2.3.1.4.5		SEC_ID_CTRY_CD	Secondary Identifier Country Code	String: 2	Optional
5.2.3.1.5	Contact (1:1)	MA_LN1_TX	Mail Address Line 1	String: 40	Required
5.2.3.1.5.1		MA_LN2_TX	Mailing Address Line 2	String: 40	Optional
5.2.3.1.5.2		MA_CITY_NM	Mailing Address City Name	String: 20	Required
5.2.3.1.5.3		MA_ST_CD	Mailing Address State Code	String: 2	Required
5.2.3.1.5.4		MA_CTRY_CD	Mailing Address Country Code (See Appendix B)	String: 2	Required
5.2.3.1.5.5		MA_PR_ZIP_CD	Mailing Address Postal Region ZIP Code	String: 5	Required
5.2.3.1.5.6		MA_PR_ZIPX_CD	Mailing Address Postal Region Zip extension	String: 4	Optional
5.2.3.1.5.7		HM_TNUM_CD	Home Telephone Number	String: 20	Optional
5.2.3.1.5.8		WK_TNUM_CD	Work Telephone Number	String: 20	Optional
5.2.3.1.6	Physical (1:1)	HGT_DM	Height Dimension (inches)	Int: 2	Optional
5.2.3.1.6.1		PN_WGHT_QY	Person Weight Quantity (pounds)	Int: 3	Optional
5.2.3.1.6.2		EYE_CLR_CD	Eye Color Code 1 – Brown (BR) 2 – Green (GR) 3 – Blue (BL) 4 – Hazel (HZ) 5 – Black (BK) 6 – Gray (GY) 7 – Violet (VI) 8 - Unknown	String: 1	Optional
5.2.3.1.6.3		PN_HAIR_CLR_CD	Person Hair Color Code A – Blond (BN) B – Brown (BR) C – Black (BK) D – Gray (GY) E – Red (RD) F – White (WH) G – Silver (SL) H – Auburn (AU) W – Not applicable (i.e., the person is bald)	String: 1	Optional
5.2.3.1.7	Photo (1:1)	PHT_IMG	Photograph image JPEG	hexBinary	Required

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.3.1.8	Finger (0:10) ¹³	FNGR_IMG	The fingerprint image	hexBinary	Required
5.2.3.1.8.1		FNGR_CPTR_DT	Fingerprint Capture Date	Date: YYYYMMDD	Required
5.2.3.1.8.2		FNGR_CMPSN_TYP_CD	A - Cogent WSQ A - Cogent WSQ 15:1 compression with bytes flipped upside down B - Cogent WSQ 15:1 compression without bytes flipped C - Identix WSQ 15:1 compression D - NIST NBIS WSQ 15:1 compression E - WSQ, Image from IDProTECT F - Aware WSQ1000	String: 1	Required
5.2.3.1.8.3		FNGR_CPTR_CD	The digit captured (See Appendix B)	String: 2	Required
5.2.3.1.8.4		FNGR_MTA_IMG	The persons fingerprint minutia template	hexBinary	Required
5.2.3.1.8.5		FNGR_MTA_VNDR_CD	Fingerprint Minutia Vendor Code (See Appendix B)	String: 1	Optional
5.2.3.1.8.6		FNGR_MTA_TYP_CD	Fingerprint Minutia Type Code (See Appendix B)	CHAR:2	Required
5.2.3.1.8.7		FNGR_MTA_DS_TX	Fingerprint Minutia Digital Signature Text	VARCHAR2: 3500	Optional

5.2.3.2 Manage Local Population Identity Response Elements

Table 11: Local Population Manage Identity Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.3.2.1	Status(1:1)	Code	Status of Manage Request: (See Appendix A for status codes and descriptions)	Int	LP
5.2.3.2.1.1		Message	Description of status if error occurs.	String	LP

¹³ *Biometric Fingerprint Exceptions: To address the use case for registration of Local Population individuals who meet any of the following exception and are unable to provide biometric fingerprint information, the IoLS data dictionary shall provide an indicator variable that when set stipulates the exception for the lack of fingerprint enrollment data in individual's record: Physical impairment that prohibits the capture of biometric information (i.e. bandaged or missing fingers), Host Nation PII protection policy, Diplomatic Immunity*

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.3.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	
5.2.3.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	LP
5.2.3.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	LP

5.2.4 Add Local Population Credential Interface

5.2.4.1 Add Local Population Credential Request Elements

Table 12: Add Local Population Credential Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.4.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.2.4.1.2	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	Required
5.2.4.1.2.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	Required
5.2.4.1.3	Credential (1:1)	CRDL_TYP_CD	Credential Type Code - Valid values ¹⁴ 5 – DBIDS Local PACS 6 – AIE Local PACS 7 – NACMS Local PACS 8 – USMC Local PACS	String: 1	Required
5.2.4.1.3.1		CRD_EXP_DT	Date of Expiration	Date: YYYYMMDD	Required
5.2.4.1.3.2		PACS_CRD_ISSR_ID	Identity of credential issuer	String: 5	Required
5.2.4.1.3.3	PIV/PIV-I/TWICs (0:1)	AUTH_CERT_ID	PIV/PIV-I/TWICs Authentication Certificate – Certificate Authority ID and Certificate Serial Number	String: 50	send if PIV, PIV-I or TWICs auth cert was used to validate - will use to check CRLs
5.2.4.1.3.3.1		AUTH_CERT_EXP_DT	Expiration Date of Authentication Cert	Date	Optional

¹⁴ Card Types 1-5 are Not Applicable to PACS in this context (See appendix B for a full description of CRDL_TYP_CD.)

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.4.1.3.4	Token (1:N)	TKN_TYP_CD	Type of Token 02 – Bar Code (DoD, PACS, and FiXs PIV-I) 04 – FASC-N (DoD and PIV) 20 – GUID (PIV-I)	String: 2	Required
5.2.4.1.3.4.1		TKN_ID	Token Identifier	String: 50	Required
5.2.4.1.3.4.2		TKN_ISS_DT ¹⁵	Token Issue Date	Date: YYYYMMDD	Required
5.2.4.1.3.4.3		TKN_END_DT ¹⁶	Token End Date	Date: YYYYMMDD	Optional
5.2.4.1.5	Local Association (0:1)	LOCAL_CAT_CD	Local Facility Category Code (See Appendix B)	String: 1	Optional

5.2.4.2 Add Local Population Credential Response Elements

Table 13: Add Local Population Credential Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.2.4.2.1	Status(1:1)	Code	Status of Add Local Population Credential: (See Appendix A for status codes and descriptions)	Int	LP
5.2.4.2.1.1		Message	Description of status if error occurs.	String	LP
5.2.4.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	
5.2.4.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	LP
5.2.4.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	LP

5.2.5 Terminate Local Population Credential Interface

5.2.5.1 Terminate Local Population Credential Request Elements

Table 14: Terminate Local Population Credential Request

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
---------	---------	-------------	-------------	---------------	-------------------

¹⁵ For each Credential, all Token Issue Dates must be equal.

¹⁶ If populated the TKN_END_DT must be equal to CRD_EXP_DT

5.2.5.1.1	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.2.5.1.2	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	Required
5.2.5.1.2.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	Required
5.2.5.1.3	Credential (1:1)	CRDL_TYP_CD	Credential Type Code - Valid values ¹⁷ 5 – DBIDS Local PACS 6 – AIE Local PACS 7 – NACMS Local PACS 8 – USMC Local PACS	String: 1	Required
5.2.5.1.3.1		CRD_RVK_DT	Identification Card Revocation Calendar Date	Date: YYYYMMDD	Required
5.2.5.1.3.2		CRD_RVK_CD	Identification Card Revocation Reason Code L – Lost\Stolen, T – Terminated	String: 1	Required
5.2.5.1.3.3		PACS_CRD_ISSR_ID	Identity of credential issuer	String: 5	Required
5.2.5.1.3.4	Token (1:N)	TKN_TYP_CD	Type of Token 02 – Bar Code (DoD, PACS, and FiXs PIV-I) 04 – FASC-N (DoD and PIV) 20 – GUID (PIV-I)	String: 2	Required
5.2.5.1.3.4.1		TKN_ID	Token Identifier	String: 50	Required
5.2.5.1.5	Local Association	LCL_CAT_CD	Local Facility Category Code (See Appendix B)	String: 1	Optional

¹⁷ Card Types 1-5 are Not Applicable to PACS in this context (See appendix B for a full description of CRDL_TYP_CD.)

5.2.5.2 Terminate Local Population Credential Response Elements

Table 15: Terminate Local Population Credential Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.2.5.2.1	Status(1:1)	Code	Status of Terminate Local Population Credential: (See Appendix A for status codes and descriptions)	Int	LP
5.2.5.2.1.1		Message	Description of status if error occurs.	String	LP
5.2.5.2.2	(1:1)	Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	LP
5.2.5.2.3	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	LP
5.2.5.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code L – Local Person EDI PI	String: 1	LP

5.3 Update Service

The following are the Interfaces that can be consumed for Update Service:

- Retrieve Ticket Interface – called to obtain an Update ticket from IoLS
- Retrieve Result – called to obtain the Update result from IoLS

5.3.1 Retrieve Ticket Interface

5.3.1.1 Retrieve Ticket Request (all attributes mandatory)

Table 16: IoLS Update Retrieve Ticket Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.3.1.1.1		Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.3.1.1.2		Start Request Date Time	Request Start Date and Time	Date: YYYYMMDD HHMMSS	Required

5.3.1.2 Retrieve Ticket Response

Table 17: IoLS Update Retrieve Ticket Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.3.1.2.1		Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	DoD, LP
5.3.1.2.2		Retrieval Number	Update Retrieval Number	String: 14	DoD, LP

5.3.2 Retrieve Response Interface

5.3.2.1 Retrieve Result Request

Table 18: IoLS Update Retrieve Result Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.3.2.1.1		Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	Required
5.3.2.2.2		Retrieval Number	Update Retrieval Number	String: 14	Required

5.3.3 Retrieve Result Response

Table 19: IoLS Update Retrieve Result Response Body Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
	Status(1:1)	Code	Status of Retrieve Result: (See Appendix A for status codes and descriptions)	Int	DoD, LP
		Message	Description of status if error occurs.	String	DoD, LP
5.3.2.2.1	Inquiry Period	Start Request Date Time	Request Start Date and Time	Date: YYYYMMDD HHMMSS	DoD, LP
5.3.2.2.1.1		Next Request Date Time	Next Retrieval Date and Time	Date: YYYYMMDD HHMMSS	DoD, LP
5.3.2.2.2	Summary	Total Count	Total Count of Records Returned	Int: 3	DoD, LP
5.3.2.2.2.1		Facility Identifier	Facility Identifier - PACS Central Registration Servers assigned by IoLS	String: 5	DoD, LP
5.3.2.2.3	Person (1:N)	PN_SYS_ID	Person System Identifier	String: 10	DoD, LP
5.3.2.2.3.1		PN_SYS_ID_TYP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Person EDI PI	String: 1	DoD, LP
5.3.2.2.4	Credential Revocations (1:N)				DoD, LP
5.3.2.2.5	Local Association	LCL_CAT_CD	Local Facility Category Code (See Appendix B)	String: 1	LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.3.2.2.6	DoD Assoc (for each credential revocation/re-issue)	PNL_CAT_CD	DoD Personnel Category Code	String: 1	DoD
5.3.2.2.6.1		ORG_CD	Organization code	String: 2	DoD
5.3.2.2.7	Credential Revocation	CRDL_TYP_CD	Credential Type Code Type - Valid values 1 – PIV (other federal) 2 – DoD ID Card (CAC and Teslin) 3 – PIV-I (other non-federal) 4 – TWIC 5 – DBIDS Local PACS 6 – AIE Local PACS 7 – NACMS Local PACS 8 – USMC Local PACS 9 – Component PACS	String: 1	DoD, LP
5.3.2.2.7.1		CRD_RVK_DT	Identification Card Revocation Calendar Date	Date: YYYYMMDD	DoD, LP
5.3.2.2.7.2		CRD_RVK_CD	Identification Card Revocation Reason Code L – Lost/Stolen, T – Terminated	String: 1	DoD, LP
5.3.2.2.7.3		CRD_EXP_DT	Identification Card Expiration Calendar Date	Date: YYYYMMDD	DoD, LP
5.3.2.2.7.4		PACS_CRD_ISSR_ID	Identity of credential issuer	String: 5	LP
5.3.2.2.7.5		CRD_EFF_DT	Identification Card Effective Calendar Date	Date: YYYYMMDD	DoD, LP
5.3.2.2.7.6	Token (1:N) (for each revoked credential)	TKN_TYP_CD	Type of Token 02 – Bar Code (DoD, PACS, and FiXs PIV-I) 04 – FASC-N (DoD and PIV) 20 – GUID (PIV-I)	String: 2	DoD, LP
5.3.2.2.7.6.1		TKN_ID	Token Identifier	String: 50	DoD, LP
5.3.2.2.8	Credential Reissued (after revocation)	CRD_EXP_DT	Identification Card Expiration Calendar Date	Date: YYYYMMDD	DoD, LP
5.3.2.2.8.1		CRD_EFF_DT	Identification Card Effective Calendar Date	Date: YYYYMMDD	DoD, LP
5.3.2.2.8.2		PACS_CRD_ISSR_ID	Identity of credential issuer	String: 5	LP

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.3.2.2.8.3	Token (1:N) (for each reissued credential)	TKN_TYP_CD	Token Type Code 02 – Bar Code (DoD and PACS) 04 – FASC-N(DoD, PIV) 20 – GUID (PIV-I)	String: 2	DoD, LP
5.3.2.2.8.3.1		TKN_ID	Token Identifier	String: 50	DoD, LP
5.3.2.2.11	Security Alert (1:N)				DoD, LP
5.3.2.2.11.1		Originating System ID	Identifies data source: 01 – COPS (Army CJ) 02 – CLEOC (Navy/MC CJ) 03 – SFMIS (Air Force CJ) 04 – NCIC (Federal CJ) 05 – TSDB (Federal CJ) 06 – Navy PACS 07 – Air Force PACS 08 – Army PACS 09 – Marine Corps PACS 10 – Component PACS	String: 2	DoD, LP
5.3.2.2.11.2		Source Account ID	Created by CIME – Originating Source ID specific	String: 25	DoD, LP
5.3.2.2.11.3		Source Person ID	CJ only COI-Specific	String: 25	DoD, LP
5.3.2.2.11.4		Alert Type	BA = Debarment RE = Revocation SU = Suspended WA = Wants & Warrants BL = Be On Lookout NC = NCIC TS = TSDB	String: 2	DoD, LP
5.3.2.2.11.5		Alert Effective Date	Date Alert Started	Date: YYYYMMDD	DoD, LP
5.3.2.2.11.6		Alert End Date	Date Alert Scheduled to End	Date: YYYYMMDD	DoD, LP
5.3.2.2.11.7		Alert Reinstatement/ Termination Date	Date access re-instated on a BA or terminated on an Alert like BL ¹⁸	Date: YYYYMMDD	DoD, LP
5.3.2.2.11.8		Installation/Base	Base name where alert was originated	String: 75	DoD, LP
5.3.2.2.11.9		Case Number	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String:50	DoD, LP

¹⁸ Additionally, for CJ sourced security alerts that are properly adjudicated and found to be incorrect or false, this field is used as an override to enter the date that access was re-instated.

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.3.2.2.11.1 0		Case Related to Points	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String: 1	DoD, LP
5.3.2.2.11.1 1		FBI Location Number (ORI)	String Only applies to alerts sourced by CJ via CIME	String: 9	DoD, LP
5.3.2.2.11.1 2		Alert Remarks	Free Form text field that provides additional information about Alert	String: 100	DoD, LP

5.4 Security Alert Service

The following are the Interfaces that can be consumed for Security Alert Service:

- Add Security Alert – called to add a Security Alert
- Manage Security Alert – called to manage a Security Alert

5.4.1 Add Security Alert Interface

5.4.1.1 Add Security Alert Request Elements

Table 20: Add Security Alert Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.4.1.1.1	(1:1)	Facility Identifier	PACS Central Facility Identifier assigned by IoLS	String: 5	Required
5.4.1.1.2	System Identifier (1:1)	PN_SYS_ID	Person System Identifier	String: 10	Required
5.4.1.1.2.1		PN_SYS_ID_T YP_CD	Person system Identifier Type Code D – DoD EDI PI L – Local Person EDI PI	String: 1	Required
5.4.1.1.3	Security Alert (1:N)	Originating System ID	Identifies data source ¹⁹ : 06 – Navy PACS 07 – Air Force PACS 08 – Army PACS 09 – Marine Corps PACS 10 – Component PACS	String: 2	Required
5.4.1.1.3.1		Source Account ID	Created by Originating system – Originating Source ID specific ²⁰	String: 25	Required
5.4.1.1.3.2		Source Person ID	CJ only COI-Specific	String: 25	Optional
5.4.1.1.3.3		Alert Type	BA = Debarment RE = Revocation SU = Suspended WA = Wants & Warrants BL = Be On Lookout	String: 2	Required
5.4.1.1.3.4		Alert Effective Date	Date Alert Started	Date: YYYYMMDD	Required
5.4.1.1.3.5		Alert End Date	Date Alert Scheduled to End	Date: YYYYMMDD	Optional
5.4.1.1.3.6		Alert Reinstatement\ Termination Date	Date access re-instated on a BA or terminated on an Alert like BL ²¹	Date: YYYYMMDD	Optional

¹⁹ Originating System IDs 1-5 are CIME specific and Not Applicable to PACS in this context.

²⁰ In cases where Local PACS generate security alerts, the Originating Source ID must be acquired from the Services' CJ System and manually entered in the PACS.

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.4.1.1.3.7		Installation/Base	Base name where alert was originated	String: 75	Optional
5.4.1.1.3.8		Case Number	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String:50	Optional
5.4.1.1.3.9		Case Related to Points	COI-Specific (SRB for CJ) Only applies to alerts sourced by CJ via CIME	String:1	Optional
5.4.1.1.3.10		FBI Location Number (ORI)	String Only applies to alerts sourced by CJ via CIME	String: 9	Optional
5.4.1.1.3.11		Alert Remarks	Free Form text field that provides additional information about Alert	String: 100	Optional

5.4.1.2 Add Security Alert Response Elements

Table 21: Add Security Alert Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.4.1.2.1	Status(1:1)	Code	Status of Security Alert: (See Appendix A for status codes and descriptions)	Int	LP
5.4.1.2.1.1		Message	Description of status if error occurs.	String	LP
5.4.1.2.2	(1:1)	Facility Identifier	PACS Central Facility Identifier assigned by IoLS	String: 5	LP

5.4.2 Manage Security Alert Interface

5.4.2.1 Manage Security Alert Request Elements

Table 22: Manage Security Alert Request Elements

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.4.2.1.1	(1:1)	Facility Identifier	PACS Central Facility Identifier assigned by IoLS	String: 5	Required
5.4.2.1.2	Security Alert (1:1)	Originating System ID	Identifies data source ²² : 06 – Navy PACS 07 – Air Force PACS 08 – Army PACS 09 – Marine Corps PACS 10 – Component PACS	String: 2	Required

²¹ Additionally, for CJ sourced security alerts that are properly adjudicated and found to be incorrect or false, this field is used as an override to enter the date that access was re-instated.

²² Originating System IDs 1-5 are CIME specific and Not Applicable to PACS in this context.

RTM ID#	Section	System Name	Description	XML Data Type	Required/Optional
5.4.2.1.2.1		Source Account ID	Created by CIME – Originating Source ID specific ²³	String: 25	Required
5.4.2.1.2.2		Alert End Date	Date Alert Scheduled to End	Date: YYYYMMDD	Optional
5.4.2.1.2.3		Alert Reinstatement\ Termination Date	Date access re-instated on a BA or terminated on an Alert like BL ²⁴	Date: YYYYMMDD	Optional
5.4.2.1.2.4		Alert Remarks	Free Form text field that provides additional information about Alert	String: 100	Optional

5.4.2.2 Manage Security Alert Response Elements

Table 23: Manage Security Alert Response Elements

RTM ID#	Section	System Name	Description	XML Data Type	Applicability (DoD, LP)
5.4.2.2.1	Status(1:1)	Code	Status of Security Alert: Appendix A for status codes and descriptions	Int	LP
5.4.2.2.1.1		Message	Description of status if error occurs.	String	LP
5.4.2.2.2	(1:1)	Facility Identifier	PACS Central Facility Identifier assigned by IoLS	String: 5	LP

²³ In cases where Local PACS generate security alerts, the Originating Source ID must be acquired from the Services' CJ System and manually entered in the PACS.

²⁴ Additionally, for CJ sourced security alerts that are properly adjudicated and found to be incorrect or false, this field is used as an override to enter the date that access was re-instated.

6 Interfacing with IoLS

IoLS is intended for real-time request for Registration data and periodic credential revocation and security alert request for incremental updates. IoLS requests may be made as often as needed, within the limits of the Memorandum of Understanding.

6.1 Exception Processing

The client application must be designed to include an error-handling strategy. In addition to ensuring a successful connection, request, and response, the return codes in the SOAP/XML response must be validated. In most instances, the code element and message in the response message indicates what action the client application should take. Error conditions which prevent IoLS from completing standard processing are handled as indicated in Appendix A: IoLS Response Error Descriptions.

6.2 Parsing

The SOAP/XML Response message must be processed by the customer to consume the data. DMDC suggests generating a WSDL based client for this purpose.

7 IoLS Messages

7.1 Sample Request and Response Messages

See reference document *IoLS WSDL Technical Documentation*.

Please use a Point Of Contact(s) below to obtain the *IoLS WSDL Technical Document*:

Ron Chen

ron.chen@osd.pentagon.mil

831-583-2400 ext: 4050

Project Manager, IoLS, Identity Services

Defense Manpower Data Center

400 Gigling Road, Seaside CA, 93955

OR

Jonathan Arana

jonathan.arana.ctr@osd.pentagon.mil

831-583-2400 ext: 4464

Software Engineer, IoLS, Identity Services

Defense Manpower Data Center

400 Gigling Road, Seaside CA, 93955

7.2 Error Messages

See Appendix A.

7.3 Handling General Errors

Table 24: General Errors

Problem	Possible Cause	Action/Resolution
No response from Web service	Network is down	For Test, ping the server: Webct.dmdc.osd.mil For Production, ping the server: www.dmdc.osd.mil If there is no response, the network is down. Check your local network then contact Production Support.
	Web listener is down	Check the servlet URL using a Web browser. If “HTTP 400 - Bad Request” or “HTTP 405 – Resource not allowed” is returned, then the Web container is up and running. If “HTTP 404 - File not found” is returned, the Web container is down. Contact Production Support.
	Database is down	Contact Production Support.
File Not Found when sending request or response java.io.FileNotFoundException: ≤Request/Response URL Shown Here≥ java.io.InputStream sun.net.www.protocol.http.HttpURLConnection.getInputStream()	Client couldn't connect to the URL supplied	Check the servlet URL using a Web browser. If you encounter a “HTTP 400 - Bad Request” or “HTTP 405 – Resource not allowed”, the Web container is up and running. If you encounter a “HTTP 404 - File not found”, the Web container is down. Contact Production Support.

Appendix A: IoLS SOAP Response Status Descriptions

The following tables describe the actual error encountered while processing in IoLS including the corresponding Error Message we send to the customer:

Table 25: Common Status

Status	Status Code To Send to Customer	Status Description
Success	0	
General Error	1000	IoLS Service System: General Error.
Internal Service General Error	1001	IoLS Service System: Internal Service Error
No Facility Found	1002	IoLS Service System: Facility Identifier Not Found
Person Not Found	1003	IoLS Service System: Person Not Found from Internal System
Person Not Found	1003	IoLS Service System: System Identifier for this person is not found in IoLS
Invalid Parameter	1004	IoLS Service System: The length of the parameter submitted is invalid
Invalid Parameter	1004	IoLS Service System: The parameter type is invalid
Invalid Parameter	1004	IoLS Service System: The parameter has unrecognized value
Invalid Parameter	1004	IoLS Service System: The Type Code submitted is invalid

Table 26: Inquiry Service Status

Status	Status Code To Send to Customer	Status Description
Terminated Token	2000	Inquiry Service System: Token submitted is terminated
Lost or Stolen Token	2001	Inquiry Service System: The token submitted is lost or stolen
Invalid Token	2002	Inquiry Service System: The token submitted is not valid
Expired Token	2003	Inquiry Service System: The token submitted is expired

Table 27: Registration Service Status

Status	Status Code To Send to Customer	Status Description
Token Not Found in LPIIdMS	3000	Registration Service System: The Local Population token submitted is not found in LPIIdMS
Person Recorded as Dead	3001	Registration Service System: The status for this person is "dead" in IoLS

Table 28: Local Population Service Status

Status	Status Code To Send to Customer	Status Description
Current DoD Credential Exists	4000	Local Population Service System: Submitted identity exists with current DoD credential, inquire with current DoD token
Card Already Exists	4001	Local Population Service System: Card already exists in LPIIdMS
Current Card Already Exists	4002	Local Population Service System: A current card already exists for the submitted identity
Card Not Found	4003	Local Population Service System: The card being updated does not exist

Card Termination is Denied	4004	Local Population Service System: The card terminated is not allowed
Modifications Results in a Duplicate Identity	4005	Local Population Manage Service System: Modification will create duplicate identity.
Identity Does Not Exist	4006	Local Population Service System: Identity not found in the LPIdMS
Identity Exists	4007	Local Population Service System: Identity already exists in LPIdMS or IoLS
Duplicate Token	4008	Local Population Service System: The token submitted is a duplicate token in LPIdMS

Table 29: Update Service Status

Status	Status Code To Send to Customer	Status Description
No Data Found	5000	Update Service System: No data is found based on date given or job number.
Still Processing	5001	Update Service System: Result is not ready. Still Processing. Wait and try again.

Table 30: Security Alert Service Status

Status	Status Code To Send to Customer	Status Description
No Source Account ID Provided	6000	Security Alert Service System: The Source Account ID is not provided
Security Alert Already Exists	6001	Security Alert Service System: The Security Alert already exists
Security Alert Not Found	6002	Security Alert Service System: The Security Alert to be updated does not exist
Invalid Security Alert	6003	Security Alert Service System: Invalid Security Alert
Alert May Only be Modified by the Originating Source	6004	Security Alert Service System: Security Alert may only be modified by the Originating Source
Originating System ID Does Not match	6005	Security Alert Service System: The Originating System ID does not match

Appendix B: Data Dictionary

Table 31: Data Dictionary

System Name	Valid Values
CTRY_CD	AA Aruba -- Added April 1986; formerly part of Netherlands Antilles (NA). AC Antigua and Barbuda -- Formerly Antigua (AC). AE United Arab Emirates AF Afghanistan AG Algeria AJ Azerbaijan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR). AL Albania AM Armenia -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR). AN Andorra AO Angola AQ American Samoa AR Argentina AS Australia -- Included Coral Sea Islands (CR) prior to June 1974. Included Ashmore and Cartier Islands (AT) and Coral Sea Islands (CR) between March 1977 and May 1983. AT Ashmore and Cartier Islands -- Deleted March 1977; re-added May 1983; see Australia (AS). AU Austria AV Anguilla -- Added June 1974; formerly part of St. Christopher-Nevis-Anguilla (SC). AY Antarctica BA Bahrain BB Barbados BC Botswana BD Bermuda BE Belgium (NATO member) BF Bahamas, The BG Bangladesh -- Added June 1974; formerly part of Pakistan (PK). BH Belize -- Formerly British Honduras (BH). BK Bosnia and Herzegovina -- Formerly Bosnia and Hercegovina (BK). Added August 1992; formerly part of Yugoslavia (YO). BL Bolivia BM Burma BN Benin -- Added May 1983; formerly Benin (DM). BO Belarus -- Formerly Byelarus (BO). Added January 1992; formerly part of Union of Soviet Socialist Republics (UR). BP Solomon Islands -- Formerly British Solomon Islands (BP). BQ Navassa Island -- Prior to June 1974 part of US

		Miscellaneous Caribbean Islands (BQ).
	BR	Brazil
	BS	Bassas da India -- Added May 1983; formerly part of Reunion (RE).
	BT	Bhutan
	BU	Bulgaria
	BV	Bouvet Island -- Formerly Bouvetoya (BV).
	BX	Brunei
	BY	Burundi
	CA	Canada (NATO member)
	CB	Cambodia -- Formerly Kampuchea (CB) and Khmer Republic (CB).
	CD	Chad
	CE	Sri Lanka -- Formerly Ceylon (CE).
	CF	Congo -- Formerly Congo (Brazzaville) (CF).
	CG	Congo (Democratic Republic of the) -- Formerly Zaire.
	CH	China -- Formerly China, Peoples Republic of (CH) and China, Communist (CH).
	CI	Chile
	CJ	Cayman Islands
	CK	Cocos (Keeling) Islands
	CM	Cameroon
	CN	Comoros
	CO	Colombia -- As of June 1974 includes part of US Miscellaneous Caribbean Islands (BQ).
	CQ	Northern Mariana Islands -- Added April 1989; formerly part of Trust Territory of the Pacific Islands (TQ).
	CR	Coral Sea Islands -- Added June 1974; deleted March 1977; re-added May 1983; see Australia (AS).
	CS	Costa Rica
	CT	Central African Republic -- Formerly Central African Empire (CT).
	CU	Cuba
	CV	Cape Verde -- Formerly Cape Verde, Republic of (CV).
	CW	Cook Islands
	CY	Cyprus
	CZ	Czechoslovakia (obsolete value)
	DA	Denmark (NATO member)
	DJ	Djibouti -- Added July 1977; formerly French Territory of the Afars and Issas (FT).
	DO	Dominica
	DQ	Jarvis Island -- Added May 1983; formerly part of US Miscellaneous Pacific Islands (IQ).
	DR	Dominican Republic
	EC	Ecuador
	EG	Egypt -- Formerly United Arab Republic (EG).
	EI	Ireland

EK	Equatorial Guinea
EN	Estonia -- Added September 1991; formerly part of Union of Soviet Socialist Republics (UR).
ER	Eritrea -- Added May 1993; formerly part of Ethiopia (ET).
ES	El Salvador
ET	Ethiopia -- Included Eritrea (ER) prior to May 1993.
EU	Europa Island -- Added May 1983; formerly part of Reunion (RE).
EZ	Czech Republic -- Added February 1993; formerly part of Czechoslovakia (CZ). (NATO member)
FG	French Guiana
FI	Finland
FJ	Fiji
FK	Falkland Islands (Islas Malvinas) -- Added January 1991; formerly part of Falkland Islands (Islas Malvinas) (FA).
FM	Federated States of Micronesia -- Added February 1987; formerly part of Trust Territory of the Pacific Islands (NQ).
FO	Faroe Islands -- Formerly Faeroe Islands (FO).
FP	French Polynesia -- Included Clipperton Island (IP) prior to May 1983.
FQ	Baker Island -- Added May 1983; formerly part of US Miscellaneous Pacific Islands (IQ).
FR	France -- Included Mayotte (MF) prior to May 1983. (NATO member)
FS	French Southern and Antarctic Lands
GA	Gambia, The -- Formerly Gambia (GA).
GB	Gabon
GG	Georgia -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
GH	Ghana
GI	Gibraltar
GJ	Grenada
GK	Guernsey -- Added May 1983; formerly part of United Kingdom (UK).
GL	Greenland
GM	Germany -- Added October 1990; formerly Germany, Berlin (BZ), German Democratic Republic (GC), and Germany, Federal Republic of (GE). (NATO member)
GO	Glorioso Islands -- Added May 1983; formerly part of Reunion (RE).
GP	Guadeloupe
GQ	Guam
GR	Greece (NATO member)
GT	Guatemala
GV	Guinea
GY	Guyana
GZ	Gaza Strip
HA	Haiti

HK	Hong Kong
HM	Heard Island and McDonald Islands
HO	Honduras -- As of June 1974 includes former Swan Islands (SQ).
HQ	Howland Island -- Added May 1983; formerly part of US Miscellaneous Pacific Islands (IQ).
HR	Croatia -- Added August 1992; formerly part of Yugoslavia (YO).
HU	Hungary (NATO member)
IC	Iceland (NATO member)
ID	Indonesia
IM	Man, Isle of -- Added May 1983; formerly part of United Kingdom (UK).
IN	India -- As of April 1975 includes former Sikkim (SK).
IO	British Indian Ocean Territory
IP	Clipperton Island -- Added May 1983; formerly part of French Polynesia (FP).
IR	Iran
IS	Israel -- As of March 1977 includes former Israel-Syria Demilitarized Zone (IU) and Israel-Jordan Demilitarized Zone (IW).
IT	Italy (NATO member)
IV	Cote D'Ivoire -- Formerly Ivory Coast (IV).
IZ	Iraq
JA	Japan -- As of June 1974 includes former Ryukyu Islands (YQ).
JE	Jersey -- Added May 1983; formerly part of United Kingdom (UK).
JM	Jamaica
JN	Jan Mayen -- Deleted March 1977; re-added May 1983; see Svalbard and Jan Mayer (JS).
JO	Jordan
JQ	Johnston Atoll
JU	Juan de Nova Island -- Added May 1983; formerly part of Reunion (RE).
KE	Kenya
KG	Kyrgyzstan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
KN	Korea, Democratic People's Republic of -- Formerly Korea, North (KN).
KQ	Kingman Reef -- Added May 1983; formerly part of US Miscellaneous Pacific Islands (IQ).
KR	Kiribati -- Added November 1979; formerly Canton and Enderbury Islands (EQ) and Gilbert Islands (GS).
KS	Korea, Republic of
KT	Christmas Island
KU	Kuwait
KV	Kosovo

KZ	Kazakhstan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
LA	Laos
LE	Lebanon
LG	Latvia -- Added September 1991; formerly part of Union of Soviet Socialist Republics (UR).
LH	Lithuania -- Added September 1991; formerly part of Union of Soviet Socialist Republics (UR).
LI	Liberia
LO	Slovakia -- Added February 1993; formerly part of Czechoslovakia (CZ).
LQ	Palmyra Atoll -- Added May 1983; formerly part of US Miscellaneous Pacific Islands (IQ).
LS	Liechtenstein
LT	Lesotho
LU	Luxembourg (NATO member)
LY	Libya
MA	Madagascar
MB	Martinique
MC	Macau -- Formerly Macao (MC).
MD	Moldova -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
MF	Mayotte -- Added May 1983; formerly part of France (FR).
MG	Mongolia
MH	Montserrat
MI	Malawi
MK	Macedonia -- Added August 1992; formerly part of Yugoslavia (YO).
ML	Mali
MN	Monaco
MO	Morocco
MP	Mauritius
MQ	Midway Islands
MR	Mauritania
MT	Malta
MU	Oman -- Formerly Muscat and Oman (MU).
MV	Maldives
MW	Montenegro -- Added August 1992; formerly part of Yugoslavia (YO).
MX	Mexico
MY	Malaysia
MZ	Mozambique
NC	New Caledonia
NE	Niue
NF	Norfolk Island
NG	Niger
NH	Vanuatu -- Formerly New Hebrides (NH).

NI	Nigeria
NL	Netherlands (NATO member)
NO	Norway (NATO member)
NP	Nepal
NR	Nauru
NS	Suriname -- Formerly Surinam (NS).
NT	Netherlands Antilles -- Added January 1991; formerly Netherlands Antilles (NA).
NU	Nicaragua
NZ	New Zealand
PA	Paraguay
PC	Pitcairn Islands -- Formerly Pitcairn (PC).
PE	Peru
PF	Paracel Islands
PG	Spratly Islands
PK	Pakistan -- Included Bangladesh (BG) prior to June 1974.
PL	Poland (NATO member)
PM	Panama -- Added June 1980; formerly Panama (PN) and Canal Zone (PQ).
PO	Portugal (NATO member)
PP	Papua New Guinea -- Formerly Papua and New Guinea (PP).
PS	Palau
PU	Guinea-Bissau -- Formerly Portuguese Guinea (PU).
QA	Qatar
RE	Reunion -- Included Bassas da India (BS), Europa Island (EU), Glorioso Islands (GO), Juan de Nova Island (JU), and Tromelin Island (TE) prior to May 1983.
RM	Marshall Islands -- Added February 1987; formerly part of Trust Territory of the Pacific Islands (NQ).
RO	Romania
RP	Philippines
RQ	Puerto Rico
RS	Russia -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
RW	Rwanda
SA	Saudi Arabia
SB	St. Pierre and Miquelon
SC	St. Kitts and Nevis -- Included Anguilla (AV) prior to June 1974. Formerly St. Christopher and Nevis (SC) and St. Christopher-Nevis-Anguilla (SC).
SE	Seychelles
SF	South Africa
SG	Senegal
SH	St. Helena
SI	Slovenia -- Added August 1992; formerly part of Yugoslavia (YO).

SL	Sierra Leone
SM	San Marino
SN	Singapore
SO	Somalia
SP	Spain -- As of March 1977 includes former Spanish North Africa (ME). (NATO member)
SR	Serbia -- Added August 1992; formerly part of Yugoslavia (YO).
ST	St. Lucia
SU	Sudan
SV	Svalbard -- Deleted March 1977; re-added May 1983; see Svalbard and Jan Mayer (JS).
SW	Sweden
SX	South Georgia and the South Sandwich Islands -- Added January 1991; formerly part of Falkland Islands (Islas Malvinas) (FA).
SY	Syria
SZ	Switzerland
TC	Obsolete value for "United Arab Emirates." Replaced by "AE" in Dec 1998. Defined as "Tracheal States" prior to June 1974.
TD	Trinidad and Tobago
TE	Tromelin Island -- Added May 1983; formerly part of Reunion (RE).
TH	Thailand
TI	Tajikistan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
TK	Turks and Caicos Islands
TL	Tokelau
TN	Tonga
TO	Togo
TP	Sao Tome and Principe
TS	Tunisia
TT	East Timor
TU	Turkey (NATO member)
TV	Tuvalu -- Added April 1976; formerly part of Gilbert and Ellice Islands (GN).
TW	Taiwan -- Formerly China (Taiwan) (TW) and China, Republic of (TW).
TX	Turkmenistan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
TZ	Tanzania, United Republic of -- Formerly Tanzania (TZ).
UG	Uganda
UK	United Kingdom -- Included Guernsey (GK), Isle of Man (IM), and Jersey (JE) prior to May 1983. (NATO member)
UP	Ukraine -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
UR	Union of Soviet Socialist Republics (obsolete value)

	US	United States (NATO member)
	UV	Burkina Faso-- Formerly Upper Volta (UV).
	UY	Uruguay
	UZ	Uzbekistan -- Added January 1992; formerly part of Union of Soviet Socialist Republics (UR).
	VC	St. Vincent and the Grenadines -- Formerly St. Vincent (VC).
	VE	Venezuela
	VI	British Virgin Islands
	VM	Vietnam -- Added August 1976; formerly Viet-nam, North (VN) and Vietnam, Republic of (VS).
	VQ	Virgin Islands
	VT	Vatican City
	WA	Namibia -- Formerly South-West Africa (WA).
	WE	West Bank
	WF	Wallis and Futuna
	WI	Western Sahara -- Added March 1977; formerly Spanish Sahara (SS).
	WQ	Wake Island
	WS	Samoa - formerly Western Samoa
	WZ	Swaziland
	YM	Yemen -- Added October 1990; formerly Yemen (Sanaa) (YE) and Yemen (Aden) (YS).
	YO	Yugoslavia (obsolete value)
	ZA	Zambia
	ZI	Zimbabwe -- Added May 1980; formerly Southern Rhodesia (RH).
	ZZ	Unknown
CTZP_CTRY_CD	<i>Please see CTRY_CD</i>	
FNGR_CPTR_CD	00	Unknown finger
	01	Right thumb
	02	Right index finger
	03	Right middle finger
	04	Right ring finger
	05	Right little finger
	06	Left thumb
	07	Left index finger
	08	Left middle finger
	09	Left ring finger
	10	Left little finger
	11	Plain right thumb
	12	Plain left thumb
	13	Plain right four fingers
	14	Plain left four fingers
	15	Physical Impairment)
	16	Diplomatic Immunity

	17	Host Nation Protection
	18	Local CO Override
FNGR_MTA_TYP_CD	02	ANSI/INCITS 378-2004
FNGR_MTA_VNDR_CD	A	Identicator, may be generated from a 340 or 500 dpi source image
	B	Bio Engine 3.2, may be generated from a 340 or 500 dpi source image.
	C	Bio Engine 3.2, guaranteed to be generated from a 340 dpi image
	D	Bio Engine, failed conversion from a 340 to 500 dpi image
	E	RAPIDS 7.0 reserved
	F	RAPIDS 7 Bio Engine 3
	G	RAPIDS 6.5 "Best Practices"
	H	RAPIDS 7.2 Bio Engine 6, INCITS
	I	RAPIDS 7.2 Bioengine6 Bioengine3
	J	RAPIDS 7.5 Aware XM, INCITS
LCL_CAT_CD	Code	Description
	1	Facilities Service
	2	Maintenance
	3	Volunteer
	4	Conveyance
	5	Personal Delivery
	6	Personal Services
	7	Facility Use
	8	Visitor
	9	Other
	A	Emerg Esntl Civilian
	B	US Gov Civilian
	C	US Gov Contractor
	D	Foreign Military
	E	Foreign Gov Civ
	F	Foreign Gov Contr
	G	Foreign Mil Retiree
	H	Foreign Mil Depndnt
	I	Foreign Civ Visitor
	J	Privatized Housing
	K	Long Term Visitor
	W	Not Applicable
MA_CTRY_CD	<i>Please see CTRY_CD</i>	
NAC_STAT_CD	C	NACI is required for card, JPAS supports category, NACI completed.
	D	NACI is required for card, JPAS supports category, data is not sufficient for decision
	E	NACI is required for card, JPAS supports category, NACI not started
	F	NACI is required for card, JPAS supports category, NACI has been initiated & the FBI National Criminal History Check has been completed
	I	NACI is required for card, JPAS supports category, NACI has been initiated
	M	NACI is required for card, JPAS supports category, JPAS

		<p>interface not available</p> <p>N Not Applicable - NAC/NACI not required for card type</p> <p>O NACI is required for card, JPAS supports category, Investigation completed but older than what should be recognized</p> <p>P NACI is required for card, JPAS supports category, Person not found in JPAS</p> <p>R Required - NAC/NACI is required for this card, RAPIDS to initialize all CACs to this value at issuance</p> <p>S NACI required for card, JPAS does not support category. Former definition: Started/In Progress</p> <p>* Only applies to DoD RAPIDS registration applications; Not applicable to Local PACS registration applications</p>
PNL_CAT_CD		<p>A Active duty member</p> <p>B Presidential Appointees of all Federal Government agencies</p> <p>C DoD and Uniformed Service civil service employee, except Presidential appointee</p> <p>D Disabled American veteran</p> <p>E DoD and Uniformed Service contract employee</p> <p>F Former member (Reserve service, discharged from RR or SR following notification of retirement eligibility)</p> <p>H Medal of Honor recipient</p> <p>I Non-DoD civil service employee, except Presidential appointee</p> <p>J Academy student</p> <p>K Non-appropriated fund DoD and Uniformed Service employee (NAF)</p> <p>L Lighthouse service</p> <p>M Non-federal Agency civilian associates</p> <p>N National Guard member</p> <p>O Non-DoD contract employee</p> <p>Q Reserve retiree not yet eligible for retired pay (“Gray Area Retiree”)</p> <p>R Retired military member eligible for retired pay</p> <p>T Foreign Affiliate</p> <p>U DoD OCONUS Hires</p> <p>V Reserve member</p> <p>W DoD Beneficiary, a person who receives benefits from the DoD based on prior association, condition or authorization, an example is a former spouse</p> <p>Y Civilian Retirees</p>
PN_ID_TYP_CD		<p>S Social Security Number</p> <p>F Special 9-digit DoD code created for foreign military and nationals</p> <p>I Tax Identification Number</p>
RACE_CD		<p>C White</p> <p>M Asian or Pacific Islander</p> <p>N Black</p> <p>R American Indian or Alaskan native</p>

	X	Other
	Z	Unknown
SEC_PN_ID_TYP_CD	D	Driver License
	P	Passport
USGVT_AGCY_CD	AF00	Department of the Air Force
	AF01	Air Force Management Engineering Agency
	AF02	Air Force Inspection and Safety Center
	AF03	Air Force Operational Test and Evaluation Center
	AF04	Air Force Communications Agency
	AF05	Air Force Intelligence Service
	AF06	Air Force Audit Agency
	AF07	Air Force Office of Special Investigations
	AF08	Air Force Office of Security Police
	AF09	Air Force Personnel Center
	AF0B	U.S. Air Force Academy
	AF0D	U.S. Air Forces, Europe
	AF0I	Air Reserve Personnel Center
	AF0J	Air Training Command
	AF0K	Air University
	AF0M	Headquarters, Air Force Reserve
	AF0N	Immediate Office, Headquarters, USAF
	AF0R	Pacific Air Forces
	AF0U	HQ Air Intelligence Agency
	AF0V	Air Force Special Operations
	AF0Y	Air Force Communications Command
	AF10	Air Force Center for Quality and Management Innovation
	AF11	Air Force Manpower Agency
	AF1A	Air Force C2 and Intelligence, Surveillance and Reconnaissance
	AF1C	Air Combat Command
	AF1G	Air Force Logistics Management Agency
	AF1L	Air Mobility Command
	AF1M	Air Force Materiel Command
	AF1P	Air Force Real Property Agency
	AF1Q	HQ AF Flight Standards Agency
	AF1S	Space Command
	AF1W	Air Force Engineering and Services Center
	AF1Y	Air Force Civilian Career Training
	AF21	Air Force Nuclear Weapons Agency
	AF24	HQ USAF Direct Support Elements
	AF25	Air Force-wide Support Elements
	AF27	Air Force Agency for Modeling and Simulation
	AF28	Air Force Communication and Information Center
	AF29	Air Force National Security Emergency Preparedness
	AF2A	Air Force Cost Center

AF2B	Air Force Doctrine Center
AF2C	Air Force Civilian Personnel Management Center
AF2D	Air Force Personnel Operations Agency
AF2E	Air Force Legal Services Center
AF2F	Air Force Medical Services Center
AF2G	Air Force Service Information and News Center
AF2H	Air Force Combat Operations Staff
AF2I	Air National Guard Support Center
AF2K	U.S. Air Force Historical Research Center
AF2L	Air Force Technical Applications Center
AF2M	Air Force Review Board Office
AF2N	Air Force Center for Studies and Analyses
AF2P	Air Force Center for International Programs
AF2Q	Air Weather Service
AF2R	Air Force Program Executive Office
AF2S	HQ NORAD
AF2T	Air Force Supply Center
AF2U	Air Force Morale, Welfare and Recreation Center
AF2V	Air Force Disposal Agency
AF2W	Air Force 11th Wing
AF2X	Air Force Real Estate Agency
AF2Y	Air Force Pentagon Communications Agency
AF2Z	HQ Air Force Medical Operations Agency
AF34	Air National Guard Units (Mobilization) (Title 5)
AF3C	Air Force Elements, U.S. Central Command
AF3D	Air Force Elements, U.S. Special Operations Command
AF3G	Air Force Elements, Europe
AF3I	Reservist, Centrally Managed
AF3K	Headquarters, U.S. European Command
AF3L	Center for Air Force History
AF3M	Air Force Elements, U.S. Southern Command
AF3N	Air Force Elements, U.S. Atlantic Command
AF3O	Air Force Elements, U.S. Pacific Command
AF3Q	Air Force Elements, U.S. Strategic Command
AF3R	Air Force Elements, U.S. Readiness Command
AF3S	Headquarters, U.S. Space Command and NORAD
AF3T	Air Force Elements, U.S. Transportation Command
AF3V	Air Force Elements, Other than Europe
AF3W	Air Force Center for Environmental Excellence
AF3Y	Air Force Frequency Management Center
AF3Z	Joint Services Survival, Evasion, Resistance and Escape Agency
AF4D	AFELM U.S. NorthCom
AF4W	Air Force District of Washington
AF5J	Air Force Financial Services

AF5K	Air Force Petroleum Agency
AFNG	Air National Guard Units (Title 32)
AFZG	U.S. Special Operations Command (ANG, Title 32)
AFZS	U.S. Special Operations Command (Air Force)
AG00	Department of Agriculture
AM00	Agency for International Development
AR00	Department of the Army
AR3A	U.S. Army Central
AR5A	U.S. Army North
ARAC	U.S. Army Contracting Agency
ARAE	Acquisition Executive Support Agency
ARAS	U.S. Army Intelligence and Security Command
ARAT	U.S. Army Test and Evaluation Command
ARAU	U.S. Army Audit Agency
ARBA	U.S. Army Installation Management Agency
ARCB	U.S. Army Criminal Investigation Command
ARCD	U.S. Army Corps of Engineers (civil program financing only). Organization does not make submissions to the CPDF.
ARCE	U.S. Army Corps of Engineers (except civil program financing)
ARCS	Immediate Office of the Chief of Staff of the Army
ARCZ	U.S. Army Information Systems Command
ARE0	59th Ordnance Brigade
ARE1	Immediate Office of the CINC, USAEUR and Seventh Army
ARE2	21st Theater Army Area Command
ARE3	U.S. Army Southern European Task Force
ARE5	U.S. Army V Corps
AREB	1st Personnel Command
ARED	U.S. Military Community Activity, Heidelberg
AREN	Seventh Army Training Command
ARFC	U.S. Army Forces Command
ARFL	U.S. Army South Command
ARG6	U.S. Army Network Enterprise Technology Command/9th Army Signal Command
ARGB	Office of the Chief of the National Guard Bureau
ARHR	U.S. Army Reserve Command
ARHS	U.S. Army Health Services Command
ARJ1	U.S. Army Element SHAPE
ARJA	Joint Activities
ARMA	U.S. Military Academy
ARMC	U.S. Army Medical Command
ARMD	Surgeon General
ARMP	U.S. Army Human Resources Command
ARMT	Military Surface Deployment and Distribution Command

ARMW	U.S. Army Military District of Washington
ARNG	Army National Guard Units (Title 32)
ARP1	U.S. Army, Pacific
ARP8	Eighth U.S. Army
ARPC	Military Entrance Processing Command (OBSOLETE, now ARTM)
ARRC	U.S. Army Recruiting Command
ARSA	Office of the Secretary of the Army
ARSB	Field Operating Offices of the Office of the Secretary of the Army
ARSC	U.S. Army Space and Strategic Defense Command
ARSE	Field Operating Agencies of the Army Staff Resourced Through DA-22
ARSF	Field Operating Agencies of the Army Staff
ARSJ	Joint Services & Activities Supported by the Office of the Secretary of the Army
ARSO	U.S. Army South
ARSP	U.S. Special Operations Command (Army)
ARSS	Staff Support Agencies of the Chief of Staff, Army
ARSU	U.S. Army Southern Command
ARTA	U.S. Army Accessions Command
ARTC	U.S. Army Training and Doctrine Command
ARTM	U.S. Military Entrance Processing Command
ARTW	U.S. Army War College
ARX2	Headquarters, AMC
ARX3	Headquarters, Staff Support Activities, AMC
ARX4	Training Activities, AMC
ARX5	U.S. Army Materiel Command, All Others
ARX6	U.S. Army Aviation and Missile Command
ARX7	U.S. Army Tank-Automotive and Armament Command (TACOM)
ARX8	U.S. Army Communications Electronics Command
ARX9	U.S. Army Simulation, Training and Instrumentation Command
ARXA	U.S. Army Chemical and Biological Defense Command
ARXB	U.S. Army Chemical Materials Agency
ARXC	U.S. Army Soldiers System Command (SSC)
ARXD	U.S. Army Research Laboratory Command
ARXK	Materiel Acquisition Activities
ARXL	Materiel Acquisition Project Managers
ARXP	U.S. Army Security Assistance Command
ARXQ	U.S. Army Industrial Operations Command (IOC)
ARXR	U.S. Army Research Development and Engineering Command
ARXT	U.S. Army Test, Measurement, and Diagnostic Equipment Activity
ARXW	U.S. Army Depot Systems Command (expired 12-31-2005)

ARXX	Materiel Readiness Activities
BO00	Office of Management and Budget
CE00	Council of Economic Advisers
CM00	Department of Commerce
CM54	National Oceanic and Atmospheric Administration (NOAA)
DC00	Office of Policy Development
DD00	Department of Defense
DD01	Immediate Office of the Secretary of Defense
DD02	Organization of the Joint Chiefs of Staff
DD04	Defense Information Systems Agency
DD05	For Official Use Only
DD06	Defense Security Cooperation Agency
DD07	Defense Logistics Agency
DD08	U.S. Court of Appeals for the Armed Forces
DD09	American Forces Information Service
DD10	Defense Contract Audit Agency
DD12	Defense Security Service
DD13	Defense Advanced Research Projects Agency
DD15	Uniformed Services University of the Health Sciences
DD16	Department of Defense Education Activity
DD17	TRICARE Support Office
DD21	Washington Headquarters Services
DD23	Office of Economic Adjustment
DD25	Defense Legal Services Agency
DD26	Office of Inspector General
DD27	Missile Defense Agency
DD28	For Official Use Only
DD29	Defense Technology Security Administration
DD34	Defense Commissary Agency
DD35	Defense Finance and Accounting Service
DD36	Army/Air Force Exchange Service. Organization does not make submissions to the CPDF.
DD48	Defense Human Resources Activity
DD50	USD(A&T) Defense Support Activity
DD58	Defense POW/Missing Personnel Office
DD59	Consolidated Metropolitan Technical Personnel Center. Organization does not make submissions to the CPDF.
DD60	TRICARE Management Activity
DD61	Defense Threat Reduction Agency
DD62	Defense Career Management and Support Agency. Organization does not make submissions to the CPDF.
DD63	Defense Contract Management Agency
DD64	Eastern Regional Support Center
DD65	Pentagon Force Protection Agency
DD67	Unified Combatant Command Headquarters
DD68	DoD Test Resource Management Center

DD69	National Defense University
DD72	Pentagon Renovation Office
DD73	Virginia Contracting Agency
DD74	Defense Technical Information Center
DD75	Civilian Personnel Management Service
DD76	U.S. Transportation Command
DD77	Business Transformation Agency
DD80	Defense Media Activity
DJ00	Department of Justice
DJ02	For Official Use Only
DL00	Department of Labor
DN00	Department of Energy
EC00	Office of Administration
ED00	Department of Education
EQ00	Council on Environmental Quality/Office of Environmental Quality
GS00	General Services Administration
HE00	Department of Health and Human Services
HE31	Office of the Assistant Secretary of Health
HE32	Substance Abuse and Mental Health Services Administration
HE33	Agency for Health Care Policy and Research
HE34	Health Resources and Services Administration
HE35	Agency for Toxic Substances and Disease Registry
HE36	Food and Drug Administration
HE37	Indian Health Service
HE38	National Institutes of Health
HE39	Centers for Disease Control and Prevention
HED1	Public Health Service
HS00	Department of Homeland Security
HS99	Coast Guard Exchange Services
HSAC	U.S. Coast Guard
HU00	Department of Housing And Urban Development
IN00	Department of the Interior
JL01	Supreme Court of the United States
LD00	Congressional Budget Office
LG00	U.S. Government Accountability Office
LL01	Senate. Organization does not make submissions to the CPDF.
LL02	House of Representatives. Organization does submit to the CPDF
LP00	Government Printing Office
NN00	National Aeronautics and Space Administration
NQ00	National Archives and Records Administration
NS00	National Security Council
NV00	Department of the Navy

NV08	Immediate Office of the Secretary of the Navy
NV09	Navy Staff Offices
NV10	Navy Field Offices
NV11	Immediate Office of the Chief of Naval Operations
NV12	Assistant for Administration, Undersecretary of the Navy
NV14	Office of Naval Research
NV15	Naval Intelligence Command
NV18	Naval Medical Command
NV19	Naval Air Systems Command
NV22	Bureau of Naval Personnel
NV23	Naval Supply Systems Command
NV24	Naval Sea Systems Command
NV25	Naval Facilities Engineering Command
NV27	U.S. Marine Corps
NV30	Strategic Systems Programs Office
NV33	Military Sealift Command
NV39	Space and Naval Warfare Systems Command
NV41	Naval Systems Management Command
NV52	Commander, Navy Installations
NV60	U.S. Atlantic Fleet, Commander in Chief
NV61	U.S. Naval Forces, Europe
NV62	Chief of Naval Education and Training
NV63	Naval Air Systems Command
NV65	Naval Meteorology and Oceanography Command
NV69	Naval Security Group Command
NV70	U.S. Pacific Fleet, Commander in Chief
NV72	Navy Reserve Force
NV74	Naval Special Warfare Command
NV76	Naval Education and Training Command
NVD1	Navy Exchange Command
NVD2	U.S. Marine Corps Morale, Welfare and Recreation (MWR) - Exchange Only
NVZS	U.S. Special Operations Command (Navy)
OM00	Office of Personnel Management
OV00	Office of the Vice President
PO00	US Postal Service
QQ00	Office of National Drug Control Policy
SB00	Small Business Administration
ST00	Department of State
TD00	Department of Transportation
TD02	U.S. Coast Guard (OBSOLETE, now HSAC)
TN00	Office of the U.S. Trade Representative
TR00	Department of the Treasury
TS00	Office of Science and Technology Policy
VA00	Department of Veteran Affairs

	WH00	White House
	WH01	White House Office
	WH03	Office of the President
	ZZ98	Other Non DoD Federal Agencies
	ZZ99	OBSOLETE, changed to DD00

Appendix C: Glossary

AIE: US Army Automated Installation Entry System (US Army PACS)

BOLO: Be On the Lookout

CHRI: Criminal History Record Information

CIME: The Continuous Information Management Engine (CIME) is the engine provided by IBM that stores the Security Alerts for the person.

CJ: Criminal Justice Information Systems including but not limited to CLEOC, SFMIS, COPS, etc.

CLEOC: US Navy and Marine Corps Criminal Justice Information System

COPS: US Army Criminal Justice Information System

CRL: Certificate Revocation List

DIAC WG: Defense Installation Access Control Working Group.

DISA: Defense Information System Agency

DMDC: Defense Manpower Data Center

DoD: Department of Defense

EDIPI: Department of Defense Electronic Data Interchange Person Identifier is a numeric or alphanumeric string that provides consistency of identity across an enterprise of systems (e.g., DoD) and allows for unambiguous representation of a person between systems.

Facility ID: an identification number, unique to each PACS Server; IoLS uses this to identify each PACS Server and associates registered credentials with unique Facility ID of any/all PACS Server(s) where the credential is registered for use.

FASC-N: Federal Agency Smart Credential-Number

FICAM: Federal Identity, Credential, and Access Management

GUID: Global Unique Identifier

HTTP: Hyper Text Transaction protocol

ICD: Interface Control Document

IoLS: DoD Interoperability Layer Web Service, an enterprise level application supporting physical access control systems, providing population alerts and facilitating population credential tracking.

JCTD: Joint Capability Technology Demonstration

JAX-WS: Java API for XML Web Services (JAX-WS) is a Java programming language API for creating web services.

Locals: see Local Population.

Local Population (LP): A population of individuals established by a PACS that may have an affiliation with the PACS (i.e. delivery driver), but not with the DoD.

Local Population ID: A unique identifier assigned to non-DoD individuals that have an entry in the Local Population database (see LPEDIPI).

LPEDIPI: Local Population Electronic Data Interchange Person Identifier (LPEDIPI) is a numeric or alphanumeric string that provides consistency of identity across the IoLS system and allows for unambiguous representation of a person between systems.

LPIDMS: Local Population Identity Management System

NCIC: National Crime Information Center

Non-DoD: Individuals not associated with DoD that may be part of one or more local populations, which include other federal PIV card holders, see Local Population.

OSD: Office of the Secretary of Defense

PACS: A Physical Access Control System (PACS) system is a system that determines who is allowed to enter or exit, where they are allowed to enter or exit, and when they are allowed to enter or exit.

PACS Server: The back end system of a PACS that will be communicating with IoLS.

PII: Personally Identifiable Information (PII) is information that can be used to uniquely identify, contact, or locate a single person or can be used with other sources to uniquely identify a single individual.

PIV: Personal Identity Verification; a United States federal government standard that specifies Personal Identity Verification (PIV) requirements for Federal employees and contractors

PIV-I: Personal Identity Verification – Interoperable; a non-federal credential that adheres to PIV technical specifications and can be used for level 4 assurance and multi-factor authentication

PKI: Public Key Infrastructure (PKI) is a set of hardware, software, people, policies, and procedures needed to create, manage, distribute, use, store, and revoke digital certificates.

RTM ID#: Requirements Traceability Matrix Identifying Number. Used to establish traceability to a DoD Joint Services IoLS requirements matrix

SEIWG: Security Equipment Integration Working Group. The SEIWG is a working group of the Physical Security Enterprise & Analysis Group (PSEAG) tasked to coordinate and influence system architecture, technical design, and systems integration to foster interoperability of all physical security equipment to be used within the DoD. This includes developing interoperability standards to guide the military services and their industry partners in the development of such equipment. These standards largely focus on the communications protocols and message formats used to convey relevant data between various equipment and systems.

SFMIS: US Air Force Criminal Justice Information System

SOAP: Simple Object Access Protocol

SSL: Secure Sockets Layer (SSL) Security is a cryptographic protocol that provides communication security over the Internet.

TCP/IP: Transmission Control Protocol / Internet Protocol

TSC: DoD Terrorist Screening Center

TSDB: Terrorist Screening Data Base

TVS: Token Verification Service. A DMDC web service used to exchange registry data

TWIC®: Transportation Worker Identification Credential

URL: Uniform Resource Locator

Appendix D: References

1. IoLS WSDL Technical Document Version 2.0.

Please use a Point Of Contact(s) below to obtain the *IoLS WSDL Technical Document*:

Ron Chen
ron.chen@osd.pentagon.mil
831-583-2400 ext: 4050
Project Manager, IoLS, Identity Services
Defense Manpower Data Center
400 Gigling Road, Seaside CA, 93955

OR

Jonathan Arana
jonathan.arana.ctr@osd.pentagon.mil
831-583-2400 ext: 4464
Software Engineer, IoLS, Identity Services
Defense Manpower Data Center
400 Gigling Road, Seaside CA, 93955