

Oracle® Identity Manager

API Usage Guide

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Preface

This guide provides information about using the Oracle Identity Manager application programming interfaces (APIs) and the changes in the APIs for this release.

Note: This is a transitional release following Oracle's acquisition of Thor Technologies. Some parts of the product and documentation still refer to the original Thor company name and Xellerate product name and will be rebranded in future releases.

Audience

The *Oracle Identity Manager API Usage Guide* is intended for system administrators and IT personnel who are responsible for upgrading, migrating, and maintaining Oracle Identity Manager.

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Related Documents

For more detailed information on the Java APIs included in the Oracle Identity Manager, see the following Java API reference documents:

- *Java API Base Class Reference*
- *Java API Exceptions Reference*
- *Java API Operations Reference*
- *Java API Value Object Reference*

For changes and updates in Oracle Identity Manager, refer to the *Oracle Identity Manager Release Notes*.

Documentation Updates

Oracle is committed to delivering the best and most recent information available. For information about updates to the Oracle Identity Manager 9.0 documentation set, visit Oracle Technology Network at the following URL:

<http://www.oracle.com/technology/documentation/index.html>

Conventions

The following table lists the text conventions used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Using the Oracle Identity Manager API

Oracle provides a network-aware, Java-based application programming interface (API) that exposes commonly used functionality within Oracle Identity Manager. This API is beneficial for building clients for Oracle Identity Manager and for integrating third party products with the Oracle Identity Manager platform.

This chapter discusses the following topics:

- [Requirements of the Oracle Identity Manager API](#)
- [Factory Class](#)
- [Utility Classes](#)
- [Result Set Interface](#)
- [API Usage](#)
- [Code Samples](#)
- [Using the Custom API ZIP File](#)

Requirements of the Oracle Identity Manager API

The following table lists the primary API features.

Requirement	Solution
Common, easy to understand language	Java
Network-aware	Built around the Java 2 Platform, Enterprise Edition (J2EE) distributed computing
Easy to use	The task of session initialization and maintenance is hidden from the API user. The underlying work necessary for the creation of utility classes is hidden through the use of the Oracle Identity Manager API. A uniform approach to the creation and use of the utility classes is provided.

Factory Class

The `Thor.API.tcUtilityFactory` class supports a uniform approach for creating and using utility classes. This class minimizes and hides complexity when using Oracle Identity Manager functionality exposed through the APIs. It does this by doing the following:

- Providing uniform functionality for APIs that are called from any source, including Web clients, adapters, and custom code.

- Creating and maintaining session information on instantiation.
This information is used to manage resources obtained through the Utility Factory.
- Identifying when the API is working in the context of an existing session.
This enables utility methods to be used for retrieving utility classes, for example, using static methods if a database connection exists.

The following are scenarios for the use of this class:

- A session and database connection already exists.
In this case, the class can be employed as a utility class through the use of static methods, for example, adapters that are created through the Adapter Factory.
- A session and database connection has not been created.
In this case, the class can be instantiated and provided with the necessary information to connect to the database. When connecting to the database, it creates and manages session and database objects. This scenario arises only when the API is instantiated on the client side, typically by third parties that use the API to integrate with Oracle Identity Manager.

For a list of the methods available in this class, see the Java API Reference provided for the APIs. For an explanation on how to use the class, refer to ["API Usage"](#).

Utility Classes

The Oracle Identity Manager API exposes commonly used Oracle Identity Manager functionality through the utility classes and interfaces defined in the `Thor.API.Operations` package. These classes and interfaces group methods by functional area.

[Table 1–1](#) provides a partial listing of the interfaces available in the API.

Table 1–1 Partial Listing of Utility Interfaces Available in the API

Interfaces	Description
<code>tcUserOperationsIntf</code>	Exposes common user operations, such as searching for users, creating users, and disabling and enabling users.
<code>tcGroupOperationsIntf</code>	Exposes common group operations. For example, searching for groups, creating groups, and adding and removing users from groups.
<code>tcRequestOperationsIntf</code>	Exposes common request operations. For example, creating a request and adding comments to a request.

See Also: For a full listing of the classes and interfaces, including an explanation of all the methods available in them, see the API JavaDoc documentation.

All classes in the `Thor.API.Operations` package extend the base utility class, `Thor.API.Base.tcBaseUtility`, and implement the `Thor.API.Base.tcUtilityOperationsIntf` interface.

The base utility class provides basic functionality common to all utility classes. It is an abstract class that provides common functionality inherited by all other utility classes. The inherited functionality focuses mainly on the interaction between the factory class and the utility classes. All utility classes implement the interface `tcUtilityOperationsIntf` that labels the class as a utility class.

Result Set Interface

The `Thor.API.tcResultSet` interface is a data structure that stores records retrieved from the database. Methods in the Oracle Identity Manager API that need to return a set of data use a result set. This is a two-dimensional data structure in which the columns correspond to the attributes and rows correspond to the entities. For example, a result set that is returned by the method that searches for users, each row would represent data pertaining to one user, and each column in the row would be an attribute for that user.

You can scroll through the result set and retrieve individual entries corresponding to particular attributes using the various methods provided. To locate a particular row in the result set, use the `goToRow()` method with the row number as a parameter. To retrieve the values for the columns from a row use appropriate accessor methods, such as `getStringValue()`. To obtain the value from a specific column, pass the column name as a parameter to the accessor method. The column name is the descriptive code defined in the Oracle Identity Manager Meta-Data system.

The following table shows some sample metadata values. This mapping is based on lookup codes and can be looked up in the Administrative and User Console using the Lookup Definition Form.

Column Code	Explanation
<code>Users.First Name</code>	The first name of the user.
<code>Groups.Group Name</code>	The name of a group.

Note: Keep track of the result set objects that are retrieved, because they will be required when updating an existing record.

API Usage

This section covers the following topics:

- [Setup and Configuration](#)
- [Initializing the Factory Class with a Digital Signature](#)
- [Obtaining an Instance of a Utility Class](#)
- [Using a Result Set Object](#)
- [Handling Oracle Identity Manager Exceptions](#)
- [Cleaning Up](#)

Setup and Configuration

To install the API:

1. Create the following directory structure:
`<Custom Client>\config\lib\ext`
2. Copy the files from the config, lib, and ext folders of a standard Oracle Identity Manager desktop client installation to the config, lib, and ext folders, respectively, of your custom client installation.
3. Copy the `basecp.bat` and `classpath.bat` files to the `<Custom Client>` directory.

For JBoss Application Server

Create a batch file with the following commands:

```
call classpath
set CLIENT_CLASS=<fully qualified name of your custom API client class>
java -Djava.security.manager -DXL.HomeDir=.
-Djava.security.policy=config\xl.policy
-Djava.security.auth.login.config=config\auth.conf
-Djava.naming.provider.url=jnp://<host_name>:<port>/<CLIENT_CLASS>
```

For WebLogic Application Server

Create a batch file with the following commands:

```
call classpath
set CLIENT_CLASS=<fully qualified name of your custom API client class>
java -Djava.security.manager -DXL.HomeDir=.
-Djava.security.policy=config\xl.policy
-Djava.security.auth.login.config=config\authwl.conf
-Djava.naming.provider.url=t3://<host_name>:<port>/<CLIENT_CLASS>
```

For WebSphere Application Server

For WebSphere Application Server, perform the following steps:

1. Install WebSphere Application Client.
2. Create an Enterprise Archive (EAR) file, XLCustomClient.ear.

The EAR file must have a Java Archive (JAR) file containing the main class of custom client. The manifest file must have an entry of the main class name.

Following is a sample Ant target to build the EAR file:

```
<target name="makeXLAPICustomClient" depends="init" description="create a jar
for the client side code">
  <jar jarfile="<dir>/xlWSCustomClient.jar">
    <fileset dir="<dir>">
      <include name="<fully qualified classes directory>" />
    </fileset>
    <fileset dir="<dir>">
      <include name="application-client.xml" />
    </fileset>
    <manifest>
      <attribute name="Main-Class" value="<fully qualified main class name>" />
    </manifest>
  </jar>
  <ear appxml="<dir>/application.xml" earfile="<dir>/XLCustomClient.ear">
    <fileset file="<dir>/xlWSCustomClient.jar" />
  </ear>
</target>
```

3. Create a batch file with the following commands:

```
call basecp.bat
set WS_HOME=c:\Websphere
"%WS_HOME%\bin\launchclient" XLCustomClient.ear -CCclasspath=%CLASSPATH%
-CCsecurityMgrPolicy=./config/xl.policy -CCDXL.HomeDir=.
-CCDjava.security.auth.login.config=./config/authws.conf
-CCDwas.home="%WS_HOME%"
```

Initializing the Factory Class with a Digital Signature

When using the APIs with your own application, for example, a Web application, a client may be unable to obtain the Oracle Identity Manager password from the user. For example, in a single sign-on environment, the authentication application may not be available to Oracle Identity Manager for checking the user ID. In situations like this, you must establish trust between Oracle Identity Manager and the entity providing only the user ID to Oracle Identity Manager.

You establish trust using digital signatures. See the `init()` method in [Example 1–2](#).

```
tcUtilityFactory moFactory = new tcUtilityFactory("development",signedMessage);
```

The `tcSignatureMessage` object contains the Oracle Identity Manager user ID, a signed version of the user ID, and an X.509 certificate that establishes the identity of the entity that is connecting to Oracle Identity Manager.

To create the object, use the static utility method `sign` in the utility class `tcCryptoUtil`, as follows:

```
tcSignatureMessage moSignature = tcCryptoUtil.sign("xelsysadm","PrivateKey");
```

The entity using the APIs must maintain security of the private key for the signature. The private key is the basis for establishing trust between the two systems.

Oracle Identity Manager must also know what certificates to trust. To trust a certificate, the signer of the certificate must be added as a trusted CA in `.xlkeystore` or in the keystore configured in the `security` section in the `xlconfig.xml` file on the server.

Obtaining an Instance of a Utility Class

After you have created an instance of the factory class, you can use this to obtain instances of utility classes by calling the `getUtility()` method. The `getUtility()` method returns instances of `tcUtilityOperationsIntf`. The return object must be cast to the particular utility class that was requested.

```
tcUserOperationsIntf moUserUtility = (tcUserOperationsIntf)
moFactory.getUtility("Thor.API.Operations.tcUserOperationsIntf");
```

Note: For a Scheduled Task, these instructions are different. For installation prior to version 9.0.2, see the *Oracle Identity Manager Installation and Upgrade Guide* for the application server that you are using.

For later versions, see the following:

- *Oracle Identity Manager Installation Guide for JBoss*
 - *Oracle Identity Manager Installation Guide for Oracle Containers for J2EE*
 - *Oracle Identity Manager Installation Guide for WebLogic*
 - *Oracle Identity Manager Installation Guide for WebSphere*
-

Using a Result Set Object

The following is an example of how to use a result set. This example obtains a result set by calling the `findAllUsers()` method. This method searches for all users matching certain criteria:

```
tcResultSet moResultSet = moUserUtility.findAllUsers(mhAttribs);
```

To check if the `findAllUsers()` method returned any records, use the `isEmpty()` method, for example:

```
boolean mbEmpty = moResultSet.isEmpty();
```

To retrieve the number of records found, use the `getRowCount()` method. If no records are found, then the method returns 0. The following is an example:

```
int mnNumRec = moResultSet.getRowCount();
```

To select a particular record in the system, use the `goToRow()` method:

```
moResultSet.goToRow(5);
```

To retrieve the values of attributes from the current row, by use the appropriate accessor method, for example:

```
String msUserLastName = moResultSet.getStringValue("Users.Last Name");
```

Handling Oracle Identity Manager Exceptions

The API methods throw Oracle-defined Java exceptions. Instead of using the `getMessage()` method on the exception object received, you can access the `isMessage` internal variable to retrieve the exception message.

Cleaning Up

The `tcUtilityFactory` class manages all resources used by a utility or factory instance and provides a means to release these resources after they are used.

If you instantiate and use `tcUtilityFactory` to obtain utility class instances, to release the resources that are associated with the utility class, call the `close(utility Object)` method on the factory class. If the session has ended, call the `close()` method on the factory instance to release all the utility classes, the session objects, and the database objects.

If you obtain a utility class directly using static calls, after the utility object is no longer needed, call the `close(object)` method on the utility object.

Code Samples

[Example 1–1](#) illustrates how to retrieve Oracle Identity Manager information. This example creates an instance of the utility factory. This instance is then employed several times to retrieve individual utility classes and use them to retrieve Oracle Identity Manager information.

Example 1–1 Retrieving Oracle Identity Manager Information

```
/** The utility factory instance. */
tcUtilityFactory ioUtilityFactory

public void init(){
    ConfigurationClient.ComplexSetting config =
        ConfigurationClient.getComplexSettingByPath("Discovery.CoreServer");
    final Hashtable env = config.getAllSettings();
    tcUtilityFactory ioUtilityFactory = new tcUtilityFactory(env, "xelsysadm",
        "xelsysadm");
```

```

}

/** Retrieves user login based on the first name. */
public List getUserLogin(String psFirstName){
    Vector mvUsers=new Vector();
    tcUserOperationsIntf moUserUtility =
(tcUserOperationsIntf)ioUtilityFactory.getUtility("Thor.API.Operations.tcUserOperationsIntf");
    Hashtable mhSearchCriteria = new Hashtable();
    mhSearchCriteria.put("Users.First Name", psFirstName);
    tcResultSet moResultSet = moUserUtility.findUsers(mhSearchCriteria);
    for (int i=0; i<moResultSet.getRowCount(); i++){
        moResultSet.goToRow(i);
        mvUsers.add(moResultSet.getStringValue("Users.User ID"));
    }
}

/** Retrieves the administrators of an organization based on the organization name. */
public List getAdministratorsOfOrganization(String psOrganizationName){
    Vector mvOrganizations=new Vector();
    tcOrganizationOperationsIntf moOrganizationUtility =
(tcOrganizationOperationsIntf)ioUtilityFactory.getUtility("Thor.API.Operations.tcOrganizationOperationsIntf");
    Hashtable mhSearchCriteria = new Hashtable();
    mhSearchCriteria.put("Organizations.Organization Name", psOrganizationName);
    tcResultSet moResultSet =
        moOrganizationUtility.findOrganizations(mhSearchCriteria);
    tcResultSet moAdmins;
    for (int i=0; i<moResultSet.getRowCount(); i++){
        moResultSet.goToRow(i);
        moAdmins=moOrganizationUtility.getAdministrators(moResultSet.getLongValue("Organizations.Key"));
    }
    mvOrganizations.add(moAdmins.getStringValue("Groups.Group Name"));
}

public void example(){
    List moList;
    // initialize resources
    init();
    // retrieve user logins with first name 'Joe'
    moList=getUserLogin("Joe");
    // retrieve user logins with first names starting with 'D'
    moList=getUserLogin("D*");
    // retrieve the administrators of an organization with name 'Example Organization'
    moList=getAdministratorsOfOrganization("Example Organization");
    // release resources
    ioUtilityFactory.close();
}

```

Example 1–2 demonstrates how to create an instance of the utility factory by using a digital signature-based method.

Example 1–2 Using the Digital Signature-Based Method

```

/** The utility factory instance. */
public void init() {
    try {
        ConfigurationClient.ComplexSetting config =

```

```

        ConfigurationClient.getComplexSettingByPath("Discovery.CoreServer");
        final Hashtable env = config.getAllSettings();
        tcSignatureMessage moSignature = tcCryptoUtil.sign("xelsysadm",
            "PrivateKey");
        tcUtilityFactory m_utilFactory = new tcUtilityFactory(env, moSignature);
    }
    catch(Exception ex) {
        ex.printStackTrace();
    }
}

```

Using the Custom API ZIP File

As of Oracle Identity Manager 8.0.2, a custom API ZIP file is installed with the Oracle Identity Manager desktop client. The purpose of this ZIP file is to ease the API development cycle. This ZIP file is located at:

XL_installation_directory/xlclient/CustomClient.zip

Configure the custom API ZIP file as follows:

1. Extract the custom API ZIP file.
2. For JBoss and WebLogic, modify and run xlCustomClient.
For WebSphere, modify and run wsCustomClient.

Information on configuring these scripts is provided in the following sections.

JBoss Configuration

Modify xlCustomClient.bat as follows:

1. Modify CLASSPATH to add JARs associated with the custom client.
2. Set the CLIENT_CLASS variable to the custom client main class name.
3. Modify the following properties:

```

-Djava.security.auth.login.config=config\auth.conf
-Djava.naming.provider.url=jnp://<machinename>:<portno>/

```

WebLogic Configuration

Modify xlCustomClient.bat as follows:

1. Modify the CLASSPATH to JARs associated with the custom client installation.
2. Set CLIENT_CLASS to the custom client main class name.
3. Modify the following properties:

```

-Djava.security.auth.login.config=config\authwl.conf
-Djava.naming.provider.url=t3://<machinename>:<portno>/

```

Modify <Custom Client>/config/xlconfig.xml as follows:

1. Modify the application server name.
2. Modify the Discovery setting for WebLogic-specific values.

```

<Discovery>
  <CoreServer>
    <java.naming.provider.url>

```

```
        t3://10.1.1.54:7001
    </java.naming.provider.url>
    <java.naming.factory.initial>
        weblogic.jndi.WLInitialContextFactory
    </java.naming.factory.initial>
</CoreServer>
</Discovery>
```

WebSphere Configuration

Modify wsCustomClient.bat as follows:

1. Modify the CLASSPATH to add JARs associated with the custom client installation.
2. Set CLIENT_CLASS to the custom client main class name.
3. Set WS_HOME to WebSphere home.

Modify <Custom Client>/config/xlconfig.xml as follows:

1. Modify the application server name.

```
<appServerName>websphere</appServerName>
```

2. Modify the Discovery setting for WebSphere-specific values.

```
<Discovery>
  <CoreServer>
    <java.naming.provider.url>
      corbaloc:iiop:host:2809
    </java.naming.provider.url>
    <java.naming.factory.initial>
      com.ibm.websphere.naming.WsnInitialContextFactory
    </java.naming.factory.initial>
  </CoreServer>
</Discovery>
```

What's New

This chapter contains the following sections:

- [New APIs in Release 9.0.2.0](#)
- [New APIs in Release 9.0.1.1](#)
- [New APIs in Release 9.0.1.0](#)
- [Modified APIs in Release 9.0.2.0](#)
- [Modified APIs in Release 9.0.1.1](#)
- [Modified APIs in Release 9.0.1.0](#)

New APIs in Release 9.0.2.0

[Table 2–1](#) lists the new application programming interfaces (APIs) that were added in Release 9.0.2.0.

Table 2–1 *New APIs in Release 9.0.2.0*

Operation	API
User	<code>public tcResultSet findAllUsersFiltered(Map phAttributeList, String[] pasFieldList) throws tcAPIException</code>
User	<code>public tcResultSet getSelfProfileFiltered(String []pasFieldList) throws tcAPIException</code>

New APIs in Release 9.0.1.1

[Table 2–2](#) lists the new application programming interfaces (APIs) that were added in Release 9.0.1.1.

Table 2–2 *New APIs in Release 9.0.1.1*

Operation	API
Group	<code>public tcResultSet getAllMemberUsersAndGroups(long groupKey) throws tcGroupNotFoundException, tcAPIException</code>
Audit	<code>public String[] getUsersWithNoSnapshots() throws tcAPIException</code>

New APIs in Release 9.0.1.0

[Table 2–3](#) lists the new application programming interfaces (APIs) that were added in Release 9.0.1.0.

Table 2–3 *New APIs in Release 9.0.1.0*

Operations	APIs
ITResource Instance	<code>public HashMap getITResourceInstances(String psITResourceType) throws tcAPIException</code>
Provisioning	<code>public Date getProvisioingProcessOfflinedDate(long processInstanceKey) throws tcAPIException</code>
Reconciliation	<code>public long addDirectMultiAttributeData(long plReconciliationEventKey, String psFieldName, Map poData, String psDateFormat) throws tcAPIException, tcEventNotFoundException, tcEventDataReceivedException</code> <code>public long addDirectMultiAttributeData(long plReconciliationEventKey, long plReconciliationAttributeKey, String psFieldName, Map poData, String psDateFormat) throws tcAPIException, tcEventNotFoundException, tcAttributeNotFoundException, tcEventDataReceivedException, tcInvalidAttributeException</code> <code>public long addDirectMultiAttributeData(long plReconciliationEventKey, long plReconciliationAttributeKey, String psFieldName, Map poData) throws tcAPIException, tcEventNotFoundException, tcAttributeNotFoundException, tcEventDataReceivedException, tcInvalidAttributeException</code> <code>public long addDirectMultiAttributeData(long plReconciliationEventKey, String psFieldName, Map poData) throws tcAPIException, tcEventNotFoundException, tcEventDataReceivedException</code>
Audit	<code>public void reIssueAuditMessageByIdentifier(String auditor, String identifier) throws tcAPIException</code> <code>public void reIssueAuditMessage(int audJmsKey) throws tcAPIException</code>

Modified APIs in Release 9.0.2.0

[Table 2–4](#) lists the form definition operation operation APIs that were modified in Release 9.0.2.0.

Table 2–4 *Modified Form Definition Operation APIs in Release 9.0.2.0*

API	Changes
<code>tcDataSetData getFormFieldsData(long plFormKey, int plVersion) throws tcAPIException, tcFormNotFoundException</code>	When a form field specifies a value for a lookup code, a new <code>LookupCode</code> column is returned in the result set along with its corresponding value.

[Table 2–5](#) lists the lookup operation APIs that were modified in Release 9.0.2.0.

Table 2–5 Modified Lookup Operation APIs in Release 9.0.2.0

API	Changes
<code>public tcResultSet getLookupValues(String psLookupCode, Map poFilters) throws tcAPIException, tcInvalidLookupException</code>	Along with the lookup values, the returned result set also contains the lookup code that was originally passed to the API.
<code>public String getLookupCodeForColumn(String psColumnName) throws tcAPIException, tcInvalidColumnNameException, tcNoLookupException</code>	The API now returns lookup codes in user-defined fields or columns from the database and also determines whether the column is defined in the XML files. If no lookup codes are found for a user-defined column, the API also determines whether the lookup exists in the <code>sdp_property_name</code> column. Some error-level logger statements have also been converted to debug level statements.

Table 2–6 lists the import operation APIs that were modified in Release 9.0.2.0.

Table 2–6 Modified Import Operation APIs in Release 9.0.2.0

API	Changes
<code>public void addSubstitution(RootObject robj, String name) throws DDMException, SQLException</code>	When <code>SubstitutionFailedException</code> is thrown, it now gives the error code and the object name/type related to the error along with a message.
<code>public Collection findITResourceTypeParams(RootObject obj) throws SQLException, DDMException</code>	An additional check now returns IT Resource parameters only when the passed object is in the <code>DBC_CREATE</code> state (present in the target database).
<code>public FilePreview getFilePreview(String filename, String content) throws DDMException, TransformationException</code>	Parses the contents of the passed file in UTF-8 encoding instead of the default system encoding.

Table 2–7 lists the email operation APIs that were modified in Release 9.0.2.0.

Table 2–7 Modified Email Operation APIs in Release 9.0.2.0

API	Changes
<code>public tcResultSet findEmailDefinition(Map phAttributeList) throws tcAPIException</code>	Email definition language and country are now returned in the result set.

Table 2–8 lists the object operation APIs that were modified in Release 9.0.2.0.

Table 2–8 Modified Object Operation APIs in Release 9.0.2.0

API	Changes
<code>public tcResultSet getAssociatedOrganizations(long objectKey, Map attributeMap) throws tcObjectNotFoundException, tcAPIException</code>	Fixed a bug where duplicate rows were returned in certain cases. Also modified to allow single quotes in object names.

Table 2–8 (Continued) Modified Object Operation APIs in Release 9.0.2.0

API	Changes
public tcResultSet getAssociatedUsers(long objectKey, Map attributeMap) throws tcObjectNotFoundException, tcAPIException	Fixed a bug where duplicate rows were returned in certain cases. Also modified to allow single quotes in object names.
public tcResultSet findObjects(Map phAttributeList) throws tcAPIException	Modified to allow single quotes in object names.
public tcResultSet findProvisionableObjects(Map moAttributeMap) throws tcAPIException {	Modified to allow single quotes in object names.

Table 2–9 lists the provisioning operation APIs that were modified in Release 9.0.2.0.

Table 2–9 Modified Provisioning Operation APIs in Release 9.0.2.0

API	Changes
public tcResultSet getProvisioningTaskDetails(long taskInstanceKey) throws tcAPIException	Enhanced to return the process name along with existing information
public tcResultSet getProvisioningTasksAssignedToManagedUser s(long userKey, Map attributeList, String[] statuses) throws tcAPIException, tcUserNotFoundException, tcAttributeNotFoundException {	Modified to allow single quotes in the attributeList parameter.

Table 2–10 lists the request operation APIs that were modified in Release 9.0.2.0.

Table 2–10 Modified Request Operation APIs in Release 9.0.2.0

API	Changes
public String createProfileModifyRequest(Map attrs) throws tcRequiredDataMissingException, tcAPIException, tcOrganizationNotFoundException, tcInvalidManagerException, tcDuplicateUserException, tcDataAccessException	Now uses UTF-8 format to encrypt and decrypt the attribute values. A tcDataAccessException was also added.
public void updateRegistrationUserDetails(long pnRequestKey, Map poAttributes) throws tcRequestInvalidException, tcOrganizationNotFoundException, tcAPIException, tcInvalidManagerException, tcDuplicateUserException, tcDataAccessException	Now uses UTF-8 format to encrypt and decrypt the attribute values. A tcDataAccessException was also added.
public tcResultSet findRequests(Map phAttributeList) throws tcAPIException	Modified to allow single quotes in the phAttributeList parameter.
public tcResultSet getApprovalTasksAssigned(Map phAttributeList) throws tcAPIException, tcAttributeNotFoundException	Enhanced to improve performance and modified to allow single quotes in the phAttributeList parameter.

Table 2–10 (Continued) Modified Request Operation APIs in Release 9.0.2.0

API	Changes
public tcResultSet getApprovalTasksAssignedToManagedUsers(long userKey, Map attributeList	Modified to allow single quotes in the phAttributeList parameter.
public tcResultSet getApprovalTasksAssignedToUser(long userKey, Map phAttributeList	Modified to allow single quotes in the phAttributeList parameter.
public tcResultSet getRequestsForObject(String psObjectName, String[] pasStatus) throws tcAPIException, tcObjectNotFoundException	Modified to allow single quotes in the psObjectName parameter.

[Table 2–11](#) lists the IT resource instance operation APIs that were modified in Release 9.0.2.0.

Table 2–11 Modified IT Resource Instance Operation APIs in Release 9.0.2.0

API	Changes
public tcDataSetData findITResourceInstances(tcMapping[] paoAttributeList) throws tcAPIException	During encryption of the IT resource parameter definition to get the IT resource property name, the passed value is now encrypted using UTF-8.

[Table 2–12](#) lists the user operation APIs that were modified in Release 9.0.2.0.

Table 2–12 Modified User Operation APIs in Release 9.0.2.0

API	Changes
public long createUser(Map phMapping) throws tcAPIException, tcDuplicateUserException, tcAttributeMissingException, tcInvalidAttributeException	Modified to allow single quotes in user IDs.
public tcResultSet findAllUsers(Map phAttributeList) throws tcAPIException	Modified to allow single quotes in user IDs.
public tcResultSet findUsers(Map phAttributeList) throws tcAPIException	Modified to allow single quotes in user IDs.
public tcResultSet findUsersFiltered(Map phAttributeList, String[] pasFieldList) throws tcAPIException	Modified to allow single quotes in user IDs.
public tcResultSet findUsersFiltered(Map phAttributeList, String[] pasFieldList, int startRow, int pageSize, String[] order, boolean ascendingOrder) throws tcAPIException	Modified to allow single quotes in user IDs.
public tcDataSetData findUsers(tcMapping[] paoAttributeList, String permission, String[] status) throws tcAPIException	Modified to allow single quotes in user IDs.
public String[] getUserFromObjectInfo(String psObjName, String psColumnName, String psColumnValue) throws tcAPIException	Modified to allow single quotes in user IDs.

[Table 2–13](#) lists the group operation APIs that were modified in Release 9.0.2.0.

Table 2–13 Modified Group Operation APIs in Release 9.0.2.0

API	Changes
<code>public long createGroup(Map phAttributes) throws tcAPIException, tcDuplicateGroupException, tcInvalidAttributeException</code>	Modified to allow single quotes in group names.
<code>public tcResultSet findGroups(Map phAttributeList, String permission) throws tcAPIException</code>	Modified to allow single quotes in group names.
<code>public tcResultSet findUnAssignedGroups(Map phAttributeList, long plUserKey) throws tcAPIException</code>	Modified to allow single quotes in group names.

[Table 2–14](#) lists the organization operation APIs that were modified in Release 9.0.2.0.

Table 2–14 Modified Organization Operation APIs in Release 9.0.2.0

API	Changes
<code>public long createOrganization(Map phMapping) throws tcDuplicateOrganizationException, tcAttributeMissingException, tcInvalidAttributeException, tcInvalidNameException, tcAPIException</code>	Modified to allow single quotes in organization names.

[Table 2–15](#) lists the reconciliation operation APIs that were modified in Release 9.0.2.0.

Table 2–15 Modified Reconciliation Operation APIs in Release 9.0.2.0

API	Changes
<code>public long createReconciliationEvent(String psObjectName, Map poData, boolean pbFinishEvent, String psDateFormat) throws tcAPIException, tcObjectNotFoundException</code>	Modified to allow single quotes in the psObjectName parameter.
<code>public Set provideDeletionDetectionData(String psObjectName, Map[] paoAccountDataList) throws tcAPIException, tcIDNotFoundException, tcMultipleMatchesFoundException</code>	Modified to allow single quotes in the psObjectName parameter.
<code>public boolean ignoreEventAttributeData(String psObjectName, Map poData, String psFieldName, Map[] paoAttributeDataList, String psDateFormat) throws tcAPIException, tcObjectNotFoundException</code>	Modified to allow single quotes in the psObjectName parameter.
<code>public boolean ignoreEvent(String psObjectName, Map poData) throws tcAPIException, tcObjectNotFoundException</code>	Modified to allow single quotes in the psObjectName parameter.
<code>public boolean ignoreEvent(String psObjectName, Map poData, String psDateFormat) throws tcAPIException, tcObjectNotFoundException</code>	Modified to allow single quotes in the psObjectName parameter.

[Table 2–16](#) lists the report operation APIs that were modified in Release 9.0.2.0.

Table 2–16 Modified Report Operation APIs in Release 9.0.2.0

API	Changes
<code>public tcResultSet getPagedReportData (ReportInput reportInput) throws tcAPIException</code>	Modified to allow single quotes in parameters. The format of Date type parameters is now based on the value of the <code>Reports.InternalDateFormat</code> property.

[Table 2–17](#) lists the audit operation APIs that were modified in Release 9.0.2.0.

Table 2–17 Modified Audit Operation APIs in Release 9.0.2.0

API	Changes
<code>public void reIssueAuditMessage (int audJmsKey) throws tcAPIException</code>	Modified so the message is reissued by the user that generated it.
<code>public void reIssueAuditMessageByIdentifier (String auditor, String identifier) throws tcAPIException</code>	Modified so the message is reissued by the user that generated it.

[Table 2–18](#) lists the attestation definition operation APIs that were modified in Release 9.0.2.0.

Table 2–18 Modified Attestation Definition Operation APIs in Release 9.0.2.0

API	Changes
<code>public tcResultSet findAttestationProcesses (Map attributes)</code>	Modified to allow single quotes in parameters.

Modified APIs in Release 9.0.1.1

[Table 2–19](#) lists the group operation APIs that were modified in Release 9.0.1.1.

Table 2–19 Modified Group Operation APIs in Release 9.0.1.1

Old API	New API	Changes
<code>private tcDataSetData getAllMembersData (long plGroupKey) throws tcAPIException, tcGroupNotFoundException</code>	<code>public tcResultSet getAllMembers (long plGroupKey) throws tcGroupNotFoundException, tcAPIException</code>	Modified to prevent users from being returned by indirect inclusion in subgroups.
<code>public tcResultSet getMemberUsers (long plGroupKey) throws tcAPIException, tcGroupNotFoundException</code>	Same as old API	Modified to prevent users from being returned by indirect inclusion in subgroups.

[Table 2–20](#) lists the request operation APIs that were modified in Release 9.0.1.1.

Table 2–20 Modified Request Operation APIs in Release 9.0.1.1

API	Changes
<pre>public int getNumberOfApprovalTasksAssignedToUser(long userKey, String[] statuses) throws tcUserNotFoundException, tcAPIException</pre>	Optimized for better performance with Oracle databases.
<pre>public tcResultSet getApprovalTasksAssignedToUser(long userKey, Map attributeList) throws tcUserNotFoundException, tcAPIException, tcAttributeNotFoundException</pre>	Optimized for better performance with Oracle databases.
<pre>public tcResultSet getApprovalTasksAssignedToManagedUsers(long userKey, Map attributeList) throws tcAPIException, tcUserNotFoundException, tcAttributeNotFoundException</pre>	Optimized for better performance with Oracle databases.

[Table 2–21](#) lists the report operation APIs that were modified in Release 9.0.1.1.

Table 2–21 Modified Report Operation APIs in Release 9.0.1.1

API	Changes
<pre>public tcResultSet getOperationalReports(long userKey) throws tcUserNotFoundException, tcAPIException</pre>	Modified to prevent the return of duplicate rows for users who belong to multiple groups with the same allowed reports.
<pre>public tcResultSet getHistoricalReports(long userKey) throws tcUserNotFoundException, tcAPIException</pre>	Modified to prevent the return of duplicate rows for users who belong to multiple groups with the same allowed reports.
<pre>public tcResultSet getPageReportData(ReportInput reportInput) throws tcAPIException</pre>	Modified to retrieve the date format from system properties.

[Table 2–22](#) lists the audit operation APIs that were modified in Release 9.0.1.1.

Table 2–22 Modified Audit Operation APIs in Release 9.0.1.1

API	Changes
<pre>public void reIssueAuditMessage(int audJmsKey) throws tcAPIException</pre>	Modified to allow the reissuing of failed audit messages.
<pre>public void reIssueAuditMessageByIdentifier(String auditor, String identifier) throws tcAPIException</pre>	Modified to allow the reissuing of failed audit messages.

[Table 2–23](#) lists the attestation definition operation APIs that were modified in Release 9.0.1.1.

Table 2–23 Modified Attestation Definition Operation APIs in Release 9.0.1.1

API	Changes
<pre>public long createAttestationDefinition(AttestationPr ocessDefinition definition)throws DuplicateAttestationProcessException, tcAPIException</pre>	Enhanced to allow users to specify whether to include users in the sub organizations to be attested when the attestation scope is Organization Users
<pre>public void updateAttestationDefinition(long processDefKey, AttestationProcessDefinition definition) throws DuplicateAttestationProcessException, tcInvalidPermissionsException, tcAPIException, AttestationProcessNotFoundException</pre>	Enhanced to allow users to specify whether to include users in the sub organizations to be attested when the attestation scope is Organization Users
<pre>public AttestationProcessDefinition getAttestationProcessDefinition(long processDefKey) throws tcAPIException, AttestationProcessNotFoundException</pre>	Enhanced to allow users to specify whether to include users in the sub organizations to be attested when the attestation scope is Organization Users

Modified APIs in Release 9.0.1.0

[Table 2–24](#) lists the user operation APIs that were modified in Release 9.0.1.0.

Note: OIU_OFFLINED_DATE, sch_offlined and XL.OfflineApprovals are reserved for internal use only.

Table 2–24 Modified User Operation APIs in Release 9.0.1.0

API	Comments
<pre>private tcDataSetData getObjectsData(long plUserKey) throws tcAPIException, tcUserNotFoundException</pre>	Modified the API to return an extra column OIU_OFFLINED_DATE. If this column value is not null, then the provisioned instance is off-lined at the date returned in that column and message is not yet processed by the JMS message handler and the off-lined message is still in the JMS queue.
<pre>public long setProxyForUser(long userKey, long proxyUserKey, Date startDate, Date endDate) throws tcAPIException, tcUserNotFoundException, tcRecursiveProxyException</pre>	Enhanced the API to return error codes along with tcAPIException, if there are any errors in creating a proxy.
<pre>public void updateProxyForUser(long pxdKey, Map attribute) throws tcAPIException, tcUserNotFoundException, tcRecursiveProxyException</pre>	Enhanced the API to return error codes along with tcAPIException, if there are any errors in updating a proxy.

[Table 2–25](#) lists the form instance operation APIs that were modified in Release 9.0.1.0.

Table 2–25 Modified Form Instance Operation APIs in Release 9.0.1.0

API	Comments
<pre>private void setProcessFormData(long plProcessInstanceKey, tcMapping[] phAttributeList) throws tcAPIException, tcInvalidValueException, tcNotAtomicProcessException, tcFormNotFoundException, tcRequiredDataMissingException, tcProcessNotFoundException</pre>	<p>If a message submitted for provisioning process offline and message is still in queue, then calling process form save sets off-lined date value to null so that message handler ignores the message as saving form would have already started provisioning process instantiation.</p>

[Table 2–26](#) lists the provisioning operation APIs in this release that were modified in Release 9.0.1.0.

Table 2–26 Modified Provisioning Operation APIs in Release 9.0.1.0

API	Comments
<pre>private tcDataSetData getProcessDetailData(long plProcessInstanceKey) throws tcAPIException, tcNotAtomicProcessException</pre>	<p>A new column value, <code>sch_offlined</code>, is returned along with all other task information. If the task approval is off-lined and a JMS message is in queue for this task, a positive integer is returned indicating that the message is submitted but not yet processed by the JMS handler.</p>
<pre>public void updateTask(long plTaskInstanceKey, Map phAttributeList) throws tcTaskNotFoundException, tcAPIException, tcAwaitingObjectDataCompletionException, tcAwaitingApprovalDataCompletionException</pre>	<p>If the API is called to set the task status or a response code, then the API checks if the <code>XL.OfflineApprovals</code> property is true or not. If it is set to true, then the task status/response code setting is off-lined so that the perceived performance seen by a user is enhanced when acting on the task.</p>
<pre>public tcResultSet getAssignedProvisioningTasks(long userKey, Map attributeList, String[] statuses) throws tcAPIException, tcUserNotFoundException, tcAttributeNotFoundException</pre>	<p>A new column value, <code>sch_offlined</code>, is returned along with all other task information. If the task approval is off-lined and a JMS message is in queue for this task, a positive integer is returned indicating that the message is submitted but not yet processed by the JMS handler.</p>
<pre>public tcResultSet getProvisioningTasksAssignedToManagedUsers(long userKey, Map attributeList, String[] statuses) throws tcAPIException, tcUserNotFoundException, tcAttributeNotFoundException</pre>	<p>A new column value, <code>sch_offlined</code>, is returned along with all other task information. If the task approval is off-lined and a JMS message is in queue for this task, then a positive integer is returned indicating that the message is submitted and is yet to be processed by the JMS handler.</p>

[Table 2–27](#) lists the reconciliation operation APIs that were modified in Release 9.0.1.0

Table 2–27 Modified Reconciliation Operation APIs in Release 9.0.1.0

API	Comments
<pre>public boolean ignoreEvent(String psObjName, Map poData) throws tcAPIException, tcObjectNotFoundException</pre>	Modified API so that the reconciliation attribute passed to the map need not be case-sensitive.
<pre>public Boolean ignoreEventAttributeData(String psObjName, Map poData,String psFieldName, Map[] paoAttributeDataList) throws tcAPIException, tcObjectNotFoundException</pre>	Modified API so that the reconciliation attribute passed to the map need not be case-sensitive.
<pre>public boolean ignoreEvent(String psObjName, Map poData, String psDateFormat) throws tcAPIException, tcObjectNotFoundException</pre>	Modified the API so that the reconciliation attribute passed to the map need not be case-sensitive.
<pre>public Boolean ignoreEventAttributeData(String psObjName, Map poData, String psFieldName, Map[] paoAttributeDataList, String psDateFormat) throws tcAPIException, tcObjectNotFoundException</pre>	Modified the API so that the reconciliation attribute passed to the map need not be case-sensitive.
<pre>public void linkEventToResourceInstanceForUser(long plReconciliationEventKey, long objectInstanceForUserKey) throws tcAPIException, tcEventNotFoundException</pre>	Fixed an issue so that when reconciliation event is manually linked to a process by calling this API, process form data is updated.

[Table 2–28](#) lists the request operation APIs in this release that were modified in Release 9.0.1.0.

Table 2–28 Modified Request Operation APIs in Release 9.0.1.0

API	Comments
<pre>public void setRequestResponse(long plRequestKey, long plUserKey, String psResponse) throws tcAPIException, tcInvalidResponseException, tcAwaitingObjectDataCompletionException, tcAwaitingApprovalDataCompletionException</pre>	API checks if the <code>XL.OfflineApprovals</code> property is true. If it is set to true, the task is off-lined so that the perceived performance seen by a user is enhanced when acting on tasks.
<pre>public void setResourceResponse(long plUserKey, long plObjectInstanceKey, String psResponse) throws tcAPIException, tcInvalidResponseException</pre>	API checks if the <code>XL.OfflineApprovals</code> property is true or not. If it is set to true, the task is off-lined so that the perceived performance seen by a user is enhanced when acting on tasks.
<pre>public tcResultSet getApprovalTasksAssignedToUser(long userKey, Map attributeList) throws tcUserNotFoundException, tcAPIException, tcAttributeNotFoundException</pre>	A new column value, <code>sch_offlined</code> , is returned along with all other task information. If the task approval is off-lined and a JMS message is in queue for this task, a positive integer is returned indicating that the message is submitted but not yet processed by the JMS handler.
<pre>public tcResultSet getApprovalTasksAssigned(Map attributeList) throws tcUserNotFoundException, tcAPIException, tcAttributeNotFoundException</pre>	A new column value, <code>sch_offlined</code> , is returned along with other task information. If the task approval is off-lined and a JMS message is in queue for this task, a positive integer is returned indicating that the message is submitted but not yet processed by the JMS handler.
<pre>public tcResultSet getApprovalTasksAssignedToManagedUsers(long userKey, Map attributeList) throws tcAPIException, tcUserNotFoundException, tcAttributeNotFoundException</pre>	A new column value, <code>sch_offlined</code> , is returned along with other task information. If the task approval is off-lined and a JMS message is in the queue for this task, a positive integer is returned indicating that the message is submitted but not yet processed by the JMS handler.
<pre>public tcResultSet getProvisioningDetail(long requestID) throws tcAPIException</pre>	Modified the API to return an extra column <code>OIU_OFFLINED_DATE</code> . If this column value is not null, it indicates that the provisioned instance is off-lined at the date returned in that column. It is not yet processed by the JMS message handler. The off-lined message is still in the JMS queue.

Table 2–29 lists the workflow operation APIs in this release that were modified in Release 9.0.1.0.

Table 2–29 Modified Workflow Operation APIs in Release 9.0.1.0

API	Comments
<code>public WorkflowDefinition getWorkflowDefinition(long workflowDefKey) throws tcAPIException</code>	The API was modified so that task assignment rules are returned correctly.

[Table 2–30](#) lists the report operation APIs in this release that were modified in Release 9.0.1.0.

Table 2–30 Modified Report Operation APIs in Release 9.0.1.0

API	Comments
<code>public tcResultSet getPagedReportData(ReportInput reportInput) throws tcAPIException</code>	Added support to handle special input characters. If special characters are provided, a <code>tcAPIException</code> is thrown. Characters that are not allowed as input are: ; # / % = + , \ " < >

[Table 2–31](#) lists the audit operation APIs in this release that were modified in Release 9.0.1.0.

Table 2–31 Modified Audit Operation APIs in Release 9.0.1.0

API	Comment
<code>public tcResultSet getUserProfile(long upa) throws tcAPIException</code>	Modified the API so that it does not return a user updated date.

Metadata Column Codes

Metadata Column Codes are used during interactions with the Oracle Identity Manager APIs to provide information. These are used to get relevant values for the columns of the `tcResultSet` object returned by many APIs.

The Metadata Column Code used by the APIs is the same physical column name for all user defined fields in the System Form, for example, `UD_EXCH_USERID`, and all fields in the User Defined Forms created using the Form Designer.

See "[Mapping Information for the Metadata Column Code](#)" on page A-2 for mappings between physical column names and the Metadata Column Codes.

Extracting the Metadata Column Code

To extract the latest Metadata Column Codes, use the following query statement:

```
SELECT lku_field, lku_type_string_key FROM lku WHERE lku_type='f' ORDER BY
lku_field;
```

You can expect output similar to the following extract:

```
LKU_FIELD
-----
LKU_TYPE_STRING_KEY
-----
AAD_CREATE
Organizations-Groups.Creation Date

AAD_CREATEBY
Organizations-Groups.Create d By

AAD_DATA_LEVEL
Organizations-Groups.System Level

LKU_FIELD
-----
LKU_TYPE_STRING_KEY
-----
AAD_DELETE
Organizations-Groups.Delete Permission

AAD_NOTE
Organizations-Groups.Note

AAD_ROWVER
Organizations-Groups.Row Version
...
```

...

Mapping Information for the Metadata Column Code

Table A–1 displays the mapping between the physical column names and Metadata Column Codes.

Table A–1 Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
AAD_CREATE	Organizations-Groups.Creation Date
AAD_CREATEBY	Organizations-Groups.Create d By
AAD_DATA_LEVEL	Organizations-Groups.System Level
AAD_DELETE	Organizations-Groups.Delete Permission
AAD_NOTE	Organizations-Groups.Note
AAD_ROWVER	Organizations-Groups.Row Version
AAD_UPDATE	Organizations-Groups.Update Date
AAD_UPDATEBY	Organizations-Groups.Updated By
AAD_WRITE	Organizations-Groups.Write Access
AAP_CREATE	Organizations.Field.Creation Date
AAP_CREATEBY	Organizations.Field.Created By
AAP_DATA_LEVEL	Organizations.Field.System Level
AAP_KEY	Organizations.Field.Key
AAP_NOTE	Organizations.Field.Note
AAP_ROWVER	Organizations.Field.Row Version
AAP_UPDATE	Organizations.Field.Update Date
AAP_UPDATEBY	Organizations.Field.Updated By
AAP_VALUE	Organizations.Field.Parameter Value
ACP_CREATE	Organizations-Resource Objects.Creation Date
ACP_CREATEBY	Organizations-Resource Objects.Created By
ACP_DATA_LEVEL	Organizations-Resource Objects.System Level
ACP_NOTE	Organizations-Resource Objects.Note
ACP_ROWVER	Organizations-Resource Objects.Row Version
ACP_SELF_SERVICABLE	Organizations-Resource Objects.Self Serviceable
ACP_UPDATE	Organizations-Resource Objects.Update Date
ACP_UPDATEBY	Organizations-Resource Objects.Updated By
ACTIVE_SDL_LABEL	Structure Utility.Structure Utility Version Label.Active Version Label
ACT_CREATE	Organizations.Creation Date
ACT_CREATEBY	Organizations.Created By

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ACT_CUST_TYPE	Organizations.Type
ACT_DATA_LEVEL	Organizations.System Level
ACT_DISABLED	Organizations.Disabled
ACT_KEY	Organizations.Key
ACT_NAME	Organizations.Organization Name
ACT_NOTE	Organizations.Note
ACT_PARENT	Organizations.Parent Name
ACT_ROWVER	Organizations.Row Version
ACT_STATUS	Organizations.Status
ACT_UPDATE	Organizations.Update Date
ACT_UPDATEBY	Organizations.Updated By
ADJ_PARENT_KEY	Adapter Factory.Adapter Tasks.Parent Key
ADJ_CREATE	Adapter Factory.Adapter Tasks.Creation Date
ADJ_CREATEBY	Adapter Factory.Adapter Tasks.Created By
ADJ_DATA_LEVEL	Adapter Factory.Adapter Tasks.System Level
ADJ_METHOD	Adapter Factory.Adapter Tasks.Method
ADJ_NOTE	Adapter Factory.Adapter Tasks.Note
ADJ_ROWVER	Adapter Factory.Adapter Tasks.Row Version
ADJ_API_NAME	Adapter Factory.Adapter Tasks.API Name
ADJ_CONSTRUCTOR	Adapter Factory.Adapter Tasks.Constructor
ADJ_INST_NAME	Adapter Factory.Adapter Tasks.Instant Name
ADJ_JAR_FILE	Adapter Factory.Adapter Tasks.Jar File
ADJ_METHOD_DISPLAY	Adapter Factory.Adapter Tasks.Method Display
ADJ_PERSIST	Adapter Factory.Adapter Tasks.Persist
ADJ_STATIC	Adapter Factory.Adapter Tasks.static
ADJ_UPDATE	Adapter Factory.Adapter Tasks.Update Date
ADJ_UPDATEBY	Adapter Factory.Adapter Tasks.Updated By
ADP_DATA_LEVEL	Adapter Factory.System Level
ADP_NOTE	Adapter Factory.Note
ADPROWVER	Adapter Factory.Row Version
ADP_BUILD	Adapter Factory.Build
ADP_CLASS	Adapter Factory.Adapter class
ADP_CREATE	Adapter Factory.Creation Date
ADP_CREATEBY	Adapter Factory.Created By
ADP_DISABLED	Adapter Factory.Disabled
ADP_DISCRIPTION	Adapter Factory.Discription
ADP_KEY	Adapter Factory. Key

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ADP_NAME	Adapter Factory.Name
ADP_STANDALONE	Adapter Factory.Standalone
ADP_STATUS	Adapter Factory.Status
ADP_STATUS_INFO	Adapter Factory.Status Info
ADP_TYPE	Adapter Factory.Type
ADP_UPDATE	Adapter Factory.Update Date
ADP_UPDATEBY	Adapter Factory.Updated By
ADT_CREATE	Adapter Factory.Adapter Task.Creation Date
ADT_CREATEBY	Adapter Factory.Adapter Task.Created By
ADT_DATA_LEVEL	Adapter Factory.Adapter Task.System Level
ADT_KEY	Adapter Factory.Adapter Task.Key
ADT_NOTE	Adapter Factory.Adapter Task.Note
ADT_ROWVER	Adapter Factory.Adapter Task.Row Version
ADT_UPDATE	Adapter Factory.Adapter Task.Update Date
ADT_UPDATEBY	Adapter Factory.Adapter Task.Updated By
ADT_NAME	Adapter Factory.Adapter Task.Name
ADT_PARENT_KEY	Adapter Factory.Adapter Task.Parent Key
ADT_SEQUENCE	Adapter Factory.Adapter Task.Sequence
ADT_TYPE	Adapter Factory.Adapter Task.Type
ADV_CREATE	Adapter Factory.Adapter Variables.Creation Date
ADV_CREATEBY	Adapter Factory.Adapter Variables.Created By
ADV_DATA_LEVEL	Adapter Factory.Adapter Variables.System Level
ADV_NOTE	Adapter Factory.Adapter Variables.Note
ADV_ROWVER	Adapter Factory.Adapter Variables.Row Version
ADV_UPDATE	Adapter Factory.Adapter Variables.Update Date
ADV_UPDATEBY	Adapter Factory.Adapter Variables.Updated By
ADV_DATA_TYPE	Adapter Factory.Adapter Variables.Type
ADV_DESC	Adapter Factory.Adapter Variables.Description
ADV_DISPLAY_VALUE	Adapter Factory.Adapter Variables.Display Value
ADV_FIELD_LENGTH	Adapter Factory.Adapter Variables.Field Length
ADV_FINAL	Adapter Factory.Adapter Variables.Final
ADV_KEY	Adapter Factory.Adapter Variables.Key
ADV_MAP_QUALIFIER	Adapter Factory.Adapter Variables.Map Qualifier
ADV_MAP_TO	Adapter Factory.Adapter Variables.Map To

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ADV_MAP_VALUE	Adapter Factory.Adapter Variables.Map Value
ADV_NAME	Adapter Factory.Adapter Variables.Name
AOA_CREATE	Adapter Factory.Adapter Tasks.Open Adapter.Creation Date
AOA_CREATEBY	Adapter Factory.Adapter Tasks.Open Adapter.Created By
AOA_DATA_LEVEL	Adapter Factory.Adapter Tasks.Open Adapter.System Level
AOA_NOTE	Adapter Factory.Adapter Tasks.Open Adapter.Note
AOA_ROWVER	Adapter Factory.Adapter Tasks.Open Adapter.Row Version
AOA_UPDATE	Adapter Factory.Adapter Tasks.Open Adapter.Update Date
AOA_UPDATEBY	Adapter Factory.Adapter Tasks.Open Adapter.Updated By
AOA_FILE	Adapter Factory.Adapter Tasks.Open Adapter.File
AOA_FILE_NAME	Adapter Factory.Adapter Tasks.Open Adapter.File Name
AOA_KEY	Adapter Factory.Adapter Tasks.Open Adapter.Key
ASSIGNEDTOTYPE	Process Instance.Task Information.Assigned To Type
ASSIGNEE_FIRST_NAME	Process Instance.Task Information.Assignee First Name
ASSIGNEE_LAST_NAME	Process Instance.Task Information.Assignee Last Name
ASSIGNEE_USER_KEY	Process Instance.Task Information.Assignee User Key
ASSIGNEE_USER_LOGIN	Process Instance.Task Information.Assignee User ID
Acs_default	Organizations- IT Resource.Default
Adj_key	Adapter Factory.Adapter Tasks.Key
CHILD_SDK_NAME	Structure Utility.Child Tables.Child Table
CHILD_SVR	IT Resources.Remote Manager Name
DEP_CREATE	Process Definition.Tasks. Task Dependency.Creation Date
DEP_CREATEBY	Process Definition.Tasks. Task Dependency.Created By
DEP_DATA_LEVEL	Process Definition.Tasks. Task Dependency.System Level
DEP_KEY	Process Definition.Tasks. Task Dependency.Key
DEP_NOTE	Process Definition.Tasks. Task Dependency.Note

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
DEP_ROWVER	Process Definition.Tasks. Task Dependency.Row Version
DEP_UPDATE	Process Definition.Tasks. Task Dependency.Update Date
DEP_UPDATEBY	Process Definition.Tasks. Task Dependency.Updated By
DOB_CREATE	Data Object Manager.Creation Date
DOB_CREATEBY	Data Object Manager.Created By
DOB_DATA_LEVEL	Data Object Manager.System Level
DOB_KEY	Data Object Manager.key
DOB_NAME	Data Object Manager.Data Object
DOB_NOTE	Data Object Manager.Note
DOB_ROWVER	Data Object Manager.Row Version
DOB_UPDATE	Data Object Manager.Update Date
DOB_UPDATEBY	Data Object Manager.Updated By
DVT_CREATE	Data Object Manager-Event Handler Manager.Creation Date
DVT_CREATEBY	Data Object Manager-Event Handler Manager.Created By
DVT_CRITERIA	Data Object Manager-Event handler Manager.Criteria
DVT_DATA_LEVEL	Data Object Manager-Event Handler Manager.System Level
DVT_MAP_STATUS	Data Object Manager-Event Handler Manager.Mapping Status
DVT_NOTE	Data Object Manager-Event Handler Manager.Note
DVT_POST_DELETE_SEQUENC E	Data Object Manager-Event Handler Manager.Post-Delete Seq
DVT_POST_INSERT_SEQUENC E	Data Object Manager-Event Handler Manager.Post-Insert Seq
DVT_POST_UPDATE_SEQUENC E	Data Object Manager-Event Handler Manager.Post-Update Seq
DVT_PRE_DELETE_SEQUENCE	Data Object Manager-Event Handler Manager.Pre-Delete Seq
DVT_PRE_INSERT_SEQUENCE	Data Object Manager-Event Handler Manager.Pre-Insert Seq
DVT_PRE_UPDATE_SEQUENCE	Data Object Manager-Event Handler Manager.Pre-Update Seq
DVT_ROWVER	Data Object Manager-Event Handler Manager.Row Version
DVT_UPDATE	Data Object Manager-Event Handler Manager.Update Date

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
DVT_UPDATEBY	Data Object Manager-Event Handler Manager.Updated By
EMD_BODY	Email Definition.Body
EMD_CREATE	Email Definition.Creation Date
EMD_CREATEBY	Email Definition.Created By
EMD_DATA_LEVEL	Email Definition.System Level
EMD_FROM_TYPE	Email Definition.From Type
EMD_KEY	Email Definition.Key
EMD_NAME	Email Definition.Name
EMD_NOTE	Email Definition.Note
EMD_ROWVER	Email Definition.Row Version
EMD_STATUS	Email Definition.Status
EMD_SUBJECT	Email Definition.Subject
EMD_TYPE	Email Definition.Type
EMD_UPDATE	Email Definition.Update Date
EMD_UPDATEBY	Email Definition.Updated By
ERR_ACTION	Error Message Definition.Action
ERR_CODE	Error Message Definition.Code
ERR_COUNT	Error Message Definition.Count
ERR_CREATE	Error Message Definition.Creation Date
ERR_CREATEBY	Error Message Definition.Created By
ERR_DATA_LEVEL	Error Message Definition.System Level
ERR_DESC	Error Message Definition.Description
ERR_HELP_URL	Error Message Definition.Help URL
ERR_KEY	Error Message Definition.Key
ERR_LAST_OCCURANCE	Error Message Definition.Last Occurrence
ERR_NOTE	Error Message Definition.Note
ERR_REMEDY	Error Message Definition.Remedy
ERR_ROWVER	Error Message Definition.Row Version
ERR_SEVERITY	Error Message Definition.Severity
ERR_UPDATE	Error Message Definition.Update Date
ERR_UPDATEBY	Error Message Definition.Updated By
EVT_CREATE	Event Handler Manager.Creation Date
EVT_CREATEBY	Event Handler Manager.Created By
EVT_DATA_LEVEL	Event Handler Manager.System Level
EVT_KEY	Event Handler Manager.Key
EVT_NAME	Event Handler Manager.Event Handler Name

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
EVT_NOTE	Event Handler Manager.Note
EVT_PACKAGE	Event Handler Manager.Package
EVT_POST_DELETE	Event Handler Manager.Post-Delete
EVT_POST_INSERT	Event Handler Manager.Post-Insert
EVT_POST_UPDATE	Event Handler Manager.Post-Update
EVT_PRE_DELETE	Event Handler Manager.Pre-Delete
EVT_PRE_INSERT	Event Handler Manager.Pre-Insert
EVT_PRE_UPDATE	Event Handler Manager.Pre-Update
EVT_ROWVER	Event Handler Manager.Row Version
EVT_UPDATE	Event Handler Manager.Update Date
EVT_UPDATEBY	Event Handler Manager.Updated By
FUG_CREATE	Structure Utility.Administrators.Creation Date
FUG_CREATEBY	Structure Utility.Administrators.Created By
FUG_DATA_LEVEL	Structure Utility.Administrators.System Level
FUG_DELETE	Structure Utility.Administrators.Delete
FUG_NOTE	Structure Utility.Administrators.Note
FUG_ROWVER	Structure Utility.Administrators.Row Version
FUG_UPDATE	Structure Utility.Administrators.Update Date
FUG_UPDATEBY	Structure Utility.Administrators.Updated By
FUG_WRITE	Structure Utility.Administrators.Write
GPG_CREATE	Groups-User Sub Groups.Creation Date
GPG_CREATEBY	Groups-User Sub Groups.Created By
GPG_DATA_LEVEL	Groups-User Sub Groups.System Level
GPG_NOTE	Groups-User Sub Groups.Note
GPG_PRIORITY	Groups-User Sub Groups.Priority
GPG_ROWVER	Groups-User Sub Groups.Row Version
GPG_UPDATE	Groups-User Sub Groups.Update Date
GPG_UPDATEBY	Groups-User Sub Groups.Updated By
GPP_CREATE	Groups-Group Ownership.Creation Date
GPP_CREATEBY	Groups-Group Ownership.Created By
GPP_DATA_LEVEL	Groups-Group Ownership.System Level
GPP_DELETE	Groups-Group Ownership.Delete
GPP_NOTE	Groups-Group Ownership.Note
GPP_ROWVER	Groups-Group Ownership.Row Version
GPP_UPDATE	Groups-Group Ownership.Update Date
GPP_UPDATEBY	Groups-Group Ownership.Updated By

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
GPP_WRITE	Groups-Group Ownership.Write
GPY_NOTE	System Configuration-Groups.Note
GPY_ROWVER	System Configuration-Groups.Row Version
GPY_CREATE	System Configuration-Groups.Creation Date
GPY_CREATEBY	System Configuration-Groups.Created By
GPY_DATA_LEVEL	System Configuration-Groups.System Level
GPY_UPDATE	System Configuration-Groups.Update Date
GPY_UPDATEBY	System Configuration-Groups.Updated By
LATEST_SDL_LABEL	Structure Utility.Structure Utility Version Label.Latest Version Label
LKU_CREATE	Lookup Definition.Creation Date
LKU_CREATEBY	Lookup Definition.Created By
LKU_DATA_LEVEL	Lookup Definition.System Level
LKU_FIELD	Lookup Definition.Field
LKU_KEY	Lookup Definition.Key
LKU_LOOKUP_KEY	Lookup Definition.Lookup Key
LKU_NOTE	Lookup Definition.Note
LKU_REQUIRED	Lookup Definition.Required
LKU_ROWVER	Lookup Definition.Row Version
LKU_TYPE	Lookup Definition.Type
LKU_TYPE_GROUP	Lookup Definition.Group
LKU_TYPE_STRING_KEY	Lookup Definition.Code
LKU_UPDATE	Lookup Definition.Update Date
LKU_UPDATEBY	Lookup Definition.Updated By
LKV_COUNTRY	Lookup Definition.Lookup Code Information.Country
LKV_CREATE	Lookup Definition.Lookup Code Information.Creation Date
LKV_CREATEBY	Lookup Definition.Lookup Code Information.Created By
LKV_DATA_LEVEL	Lookup Definition.Lookup Code Information.System Level
LKV_DECODED	Lookup Definition.Lookup Code Information.Decode
LKV_DISABLED	Lookup Definition.Lookup Code Information.Disabled
LKV_ENCODED	Lookup Definition.Lookup Code Information.Code Key
LKV_KEY	Lookup Definition.Lookup Code Information.Key
LKV_LANGUAGE	Lookup Definition.Lookup Code Information.Language

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
LKV_NOTE	Lookup Definition.Lookup Code Information.Note
LKV_ROWVER	Lookup Definition.Lookup Code Information.Row Version
LKV_UPDATE	Lookup Definition.Lookup Code Information.Update Date
LKV_UPDATEBY	Lookup Definition.Lookup Code Information.Updated By
LKV_VARIANT	Lookup Definition.Lookup Code Information.Variant
LOC_ADDRESS_1	Locations.Street/P.O.Box
LOC_ADDRESS_2	Locations.Address 2
LOC_CITY	Locations.City
LOC_COUNTRY	Locations.Country
LOC_CREATE	Locations.Creation Date
LOC_CREATEBY	Locations.Created By
LOC_DATA_LEVEL	Locations.System Level
LOC_INTL_STATE	Locations.Province
LOC_KEY	Locations.Key
LOC_NAME	Locations.Location Name
LOC_NOTE	Locations.Note
LOC_POSTAL_CODE	Locations.Postal Code
LOC_REGION	Locations.Region
LOC_ROWVER	Locations.Row Version
LOC_STATE	Locations.State
LOC_UPDATE	Locations.Update Date
LOC_UPDATEBY	Locations.Updated By
LOC_ZIP	Locations.Zip
LOC_ZIP4	Locations.Zip + 4 Code
MAV_CREATE	Process Definition.Tasks.Integration.Adapter Variables.Creation Date
MAV_CREATEBY	Process Definition.Tasks.Integration.Adapter Variables.Created By
MAV_DATA_LEVEL	Process Definition.Tasks.Integration.Adapter Variables.System Level
MAV_DISPLAY_VALUE	Process Definition.Tasks.Integration.Adapter Variables.Displayed Value
MAV_FIELD_LENGTH	Process Definition.Tasks.Integration.Adapter Variables.Field Length
MAV_MAP_QUALIFIER	Process Definition.Tasks.Integration.Adapter Variables.Qualifier

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
MAV_MAP_TO	Process Definition.Tasks.Integration.Adapter Variables.Map to
MAV_MAP_VALUE	Process Definition.Tasks.Integration.Adapter Variables.Mapped Value
MAV_NOTE	Process Definition.Tasks.Integration.Adapter Variables.Note
MAV_ROWVER	Process Definition.Tasks.Integration.Adapter Variables.Row Version
MAV_UPDATE	Process Definition.Tasks.Integration.Adapter Variables.Update Date
MAV_UPDATEBY	Process Definition.Tasks.Integration.Adapter Variables.Updated By
MEMBERPRIORITY	Groups.Member Priority
MIL_APP_EFFECT	Process Definition.Tasks.Task Effect
MIL_ASSIGN_TO_MANAGER	Process Definition.Tasks.Assign To User Manager
MIL_CANCEL_WHILE_PENDING	Process Definition.Tasks.Allow Cancellation While Pending
MIL_COMP_ON_REC	Process Definition.Tasks.Complete on Recovery
MIL_CONDITIONAL	Process Definition.Tasks.Conditional
MIL_CONSTANT	Process Definition.Tasks.Constant Duration
MIL_CREATE	Process Definition.Tasks.Creation Date
MIL_CREATE BY	Process Definition.Tasks.Created By
MIL_CREATE_MULTIPLE	Process Definition.Tasks.Allow Multiple Instances
MIL_DATALABEL	Process Definition.Tasks.Milestone Datalabel
MIL_DATA_LEVEL	Process Definition.Tasks.System Level
MIL_DAY	Process Definition.Tasks.Days
MIL_DELETE_FLAG	Process Definition.Tasks.Milestone Delete Flag
MIL_DEPENDENCY	Process Definition.Tasks.Milestone Dependency
MIL_DESCRIPTION	Process Definition.Tasks.Task Description
MIL_DISABLE_MANUAL_INSERT	Process Definition.Tasks.Disable Manual Insert
MIL_HOUR	Process Definition.Tasks.Hours
MIL_KEY	Process Definition.Tasks.Key
MIL_MAP_STATUS	Process Definition.Tasks.Milestone Mapping Status
MIL_MINUTE	Process Definition.Tasks.Minutes
MIL_NAME	Process Definition.Tasks.Task Name
MIL_NOTE	Process Definition.Tasks.Note

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
MIL_REQUIRED_COMPLETE	Process Definition.Tasks.Required For Completion
MIL_ROWVER	Process Definition.Tasks.Row Version
MIL_SEC	Process Definition.Tasks.Second Duration
MIL_SEQUENCE	Process Definition.Tasks.Milestone Sequence
MIL_SEQ_INTERVAL	Process Definition.Tasks.Milestone Sequence Interval
MIL_UPDATE	Process Definition.Tasks.Update Date
MIL_UPDATEBY	Process Definition.Tasks.Updated By
MSG_CREATE	Status-Groups-Milestone-Process.Creation Date
MSG_CREATEBY	Status-Groups-Milestone-Process.Created By
MSG_DATA_LEVEL	Status-Groups-Milestone-Process.System Level
MSG_NOTE	Status-Groups-Milestones-Process.Note
MSG_ROWVER	Status-Groups-Milestone-Process.Row Version
MSG_UPDATE	Status-Groups-Milestone-Process.Update Date
MSG_UPDATEBY	Status-Groups-Milestone-Process.Updated By
MST_CREATE	Status-Process Definition.Task-Object.Object Status.Creation Date
MST_CREATEBY	Status-Process Definition.Task-Object.Object Status.Created By
MST_DATA_LEVEL	Status-Process Definition.Task-Object.Object Status.System Level
MST_NOTE	Status-Process Definition.Task-Object.Object Status.Note
MST_ROWVER	Status-Process Definition.Task-Object.Object Status.Row Version
MST_UPDATEBY	Status-Process Definition.Task-Object.Object Status.Updated By
MST_UPDATE	Status-Process Definition.Task-Object.Object Status.Update Date
OBA_CREATE	Objects-Ordering Permissions.Creation Date
OBA_CREATEBY	Objects-Ordering Permissions.Created By
OBA_DATA_LEVEL	Objects-Ordering Permissions.System Level
OBA_NOTE	Objects-Ordering Permissions.Note
OBA_PRIORITY	Objects-Ordering Permissions.Priority
OBA_ROWVER	Objects-Ordering Permissions.Row Version
OBA_UPDATE	Objects-Ordering Permissions.Update Date
OBA_UPDATEBY	Objects-Ordering Permissions.Updated By
OBD_CHILD_KEY	Objects.Object Dependencies.Child Key
OBD_CREATE	Objects.Object Dependencies.Creation Date
OBD_CREATEBY	Objects.Object Dependencies.Created By

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
OBD_DATA_LEVEL	Objects.Object Dependencies.System Level
OBD_NOTE	Objects.Object Dependencies.Note
OBD_PARENT_KEY	Objects.Object Dependencies.Parent Key
OBD_ROWVER	Objects.Object Dependencies.Row Version
OBD_UPDATE	Objects.Object Dependencies.Update Date
OBD_UPDATEBY	Objects.Object Dependencies.Updated By
OBI_CREATE	Object Instance.Creation Date
OBI_CREATEBY	Object Instance.Created By
OBI_DATA_LEVEL	Object Instance.System Level
OBI_DEP_REQUIRED	Object Instance.Dependent Required
OBI_KEY	Object Instance.Key
OBI_NOTE	Object Instance.Note
OBI_ROWVER	Object Instance.Row Version
OBI_STATUS	Object Instance.Status
OBI_UPDATE	Object Instance.Update Date
OBI_UPDATEBY	Object Instance.Updated By
OBJECTFORMCOUNT	Object Instance.Object Form Entries
OBJECTFORMINSTANCEKEY	Objects.Object Instance Key In Form
OBJECTFORMKEY	Objects.Object Form Key
OBJECTFORMNAME	Objects.Object Form Name
OBJ_ALLOWALL	Objects.Allow All
OBJ_ALLOW_MULTIPLE	Objects.Allow Multiple
OBJ_AUTOLAUNCH	Objects.Auto Launch
OBJ_AUTOSAVE	Objects.Auto Save
OBJ_AUTO_PREPOP	Objects.Auto Prepopulate
OBJ_CREATE	Objects.Creation Date
OBJ_CREATEBY	Objects.Created By
OBJ_DATA_LEVEL	Objects.System Level
OBJ_KEY	Objects.Key
OBJ_NAME	Objects.Name
OBJ_NOTE	Objects.Note
OBJ_OBJADMINONLY	Objects.Admin Only
OBJ_ORDER_FOR	Objects.Order For
OBJ_ROWVER	Objects.Row Version
OBJ_SELF_REQUEST_ALLOWED	Objects.Self Request Allowed
OBJ_TYPE	Objects.Type

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
OBJ_UPDATE	Objects.Update Date
OBJ_UPDATEBY	Objects.Updated By
ODF_CREATE	Process Definition.Data Flow.Creation Date
ODF_CREATEBY	Process Definition.Data Flow.Created By
ODF_DATA_LEVEL	Process Definition.Data Flow.System Level
ODF_NOTE	Process Definition.Data Flow.Note
ODF_ROWVER	Process Definition.Data Flow.Row Version
ODF_UPDATEBY	Process Definition.Data Flow.Updated By
ODF_KEY	Process Definition.Data Flow.Key
ODF_OBJ_SDC_KEY	Process Definition.Data Flow.Object.Form Field
ODF_TOS_SDC_KEY	Process Definition.Data Flow.Process.Form Field
ODF_UPDATE	Process Definition.Data Flow.Update Date
ODV_CREATE	Objects-Events.Creation Date
ODV_CREATEBY	Objects-Events.Created By
ODV_DATA_LEVEL	Objects-Events.System Level
ODV_NOTE	Objects-Events.Note
ODV_ROWVER	Objects-Events.Row Version
ODV_UPDATE	Objects-Events.Update Date
ODV_UPDATEBY	Objects-Events.Updated By
OIO_CREATE	Organization-Object Instance-Process Instance.Creation Date
OIO_CREATEBY	Organization-Object Instance-Process Instance.Created By
OIO_DATA_LEVEL	Organization-Object Instance-Process Instance.System Level
OIO_KEY	Organization-Object Instance-Process Instance.Key
OIO_NOTE	Organization-Object Instance-Process Instance.Note
OIO_ROWVER	Organization-Object Instance-Process Instance.Row Version
OIO_SELECTED	Requests.Organization-Object Instance-Process Instance.Selected Instance
OIO_UPDATE	Organization-Object Instance-Process Instance.Update Date
OIO_UPDATEBY	Organization-Object Instance-Process Instance.Updated By
OIU_CREATE	Users-Object Instance For User.Creation Date
OIU_CREATEBY	Users-Object Instance For User.Created By
OIU_DATA_LEVEL	Users-Object Instance For User.System Level

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
OIU_KEY	Users-Object Instance For User.Key
OIU_NOTE	Users-Object Instance For User.Note
OIU_ROWVER	Users-Object Instance For User.Row Version
OIU_SELECTED	Requests.Users-Object Instance For User.Selected Instance
OIU_SERVICEACCOUNT	Users-Object Instance For User.Service Account Flag
OIU_UPDATE	Users-Object Instance For User.Update Date
OIU_UPDATEBY	Users-Object Instance For User.Updated By
OOD_CREATE	Organizations.Object Instance For Organization.Dependency.Creation Date
OOD_CREATEBY	Organizations.Object Instance For Organization.Dependency.Created By
OOD_DATA_LEVEL	Organizations.Object Instance For Organization.Dependency.System Level
OOD_NOTE	Organizations.Object Instance For Organization.Dependency.Note
OOD_ROWVER	Organizations.Object Instance For Organization.Dependency.Row Version
OOD_UPDATE	Organizations.Object Instance For Organization.Dependency.Update Date
OOD_UPDATEBY	Organizations.Object Instance For Organization.Dependency.Updated By
ORC_ASSIGNED_TO	Process Instance.Assigned To
ORC_CREATE	Process Instance.Create
ORC_CREATEBY	Process Instance.Created By
ORC_DATA_LEVEL	Process Instance.System Level
ORC_DEPENDS	Process Instance.Depends
ORC_KEY	Process Instance.Key
ORC_NOTE	Process Instance.Note
ORC_ORDERBY_POLICY	Process Instance.Order By Policy
ORC_PACKAGE_INSTANCE_KEY	Process Instance.Package Instance Key
ORC_PARENT_KEY	Process Instance.Parent Key
ORC_REFERENCEKEY	Process Instance.Reference Key
ORC_REQUIRED_COMPLETE	Process Instance.Required Complete
ORC_ROWVER	Process Instance.Row Version
ORC_SERVICEORDER	Process Instance.Service Order
ORC_STATUS	Process Instance.Status
ORC_SUBORDER	Process Instance.Suborder
ORC_SUBTOSKEY	Process Instance.Subprocess Key

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ORC_SUPPCODE	Process Instance.Supplementary Code
ORC_TARGET	Process Instance.Target
ORC_TOS_INSTANCE_KEY	Process Instance.Descriptive Data
ORC_UPDATE	Process Instance.Update Date
ORC_UPDATEBY	Process Instance.Updated By
ORD_ASSIGNED_TO	Orders.Assigned To
ORD_BATCH	Orders.Batch
ORD_CANCEL_CODE	Orders.Cancel Code
ORD_CANCEL_DATE	Orders.Cancel Date
ORD_CARRIER_ORDERNO	Orders.Carrier Order No
ORD_CREATE	Orders.Creation Date
ORD_CREATEBY	Orders.Created By
ORD_CUST_ISSUE	Orders.Cust Issue
ORD_CUST_ORDERNO	Orders.Order No
ORD_CUST_REQUEST	Orders.Date Requested
ORD_DATA_LEVEL	Orders.System Level
ORD_EXPEDITE	Orders.Expedite
ORD_INPUT	Orders.Input
ORD_INPUTBY	Orders.Input By
ORD_KEY	Orders.Key
ORD_LATECODE	Orders.Late Code
ORD_NOTE	Orders.Note
ORD_ORDERID	Orders.Order ID
ORD_PROJECT	Orders.Project
ORD_RECEIVE	Orders.Date Received
ORD_RELORDNO	Orders.Relord No
ORD_ROWVER	Orders.Row Version
ORD_SALES_CHANNEL	Orders.Sales Channel
ORD_SERVORD	Orders.Serve Order
ORD_STATUS	Orders.Status
ORD_SUBORD	Orders.Sub Order
ORD_TRACK	Orders.Track
ORD_TYPE	Orders.Type
ORD_UPDATE	Orders.Update Date
ORD_UPDATEBY	Orders.Updated By
ORF_CREATE	Objects.Reconciliation Fields.Creation Date
ORF_CREATEBY	Objects.Reconciliation Fields.Created By

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ORF_DATA_LEVEL	Objects.Reconciliation Fields.System Level
ORF_FIELDNAME	Objects.Reconciliation Fields.Name
ORF_KEY	Objects.Reconciliation Fields.Key
ORF_NOTE	Objects.Reconciliation Fields.Note
ORF_NULLABLE	Objects.Reconciliation Fields.Nullable
ORF_ROWVER	Objects.Reconciliation Fields.Row Version
ORF_UPDATE	Objects.Reconciliation Fields.Update Date
ORF_UPDATEBY	Objects.Reconciliation Fields.Updated By
ORR_RULE	Objects.Reconciliation Action Rules.Rules
OSI_ASSIGNED_DATE	Process Instance.Task Information.Assigned Date
OSI_ASSIGNED_TO	Process Instance.Task Information.Assigned To
OSI_ASSIGNED_TO_UGP_KEY	Process Instance.Task Information.Assigned To Group Key
OSI_ASSIGNED_TO_USR_KEY	Process Instance.Task Information.Assigned To User Key
OSI_ASSIGN_TYPE	Process Instance.Task Information.Assign Type
OSI_CREATE	Process Instance.Task Information.Creation Date
OSI_CREATEBY	Process Instance.Task Information.Created By
OSI_DATA_LEVEL	Process Instance.Task Information.System Level
OSI_LOG_KEY	Process Instance.Task Information.Log Key
OSI_NOTE	Process Instance.Task Information.Note
OSI_RECOVERY_FOR	Process Instance.Task Information.Recovery Task
OSI_RETRY_FOR	Process Instance.Task Information.Retry Task
OSI_ROWVER	Process Instance.Task Information.Row Version
OSI_UPDATE	Process Instance.Task Information.Update Date
OSI_UPDATEBY	Process Instance.Task Information.Updated By
OST_CREATE	Objects.Object Status.Creation Date
OST_CREATEBY	Objects.Object Status.Created By
OST_DATA_LEVEL	Objects.Object Status.System Level
OST_KEY	Objects.Object Status.Key
OST_LAUNCH_DEPENDENT	Objects.Object Status.Launch Dependent
OST_NOTE	Objects.Object Status.Note
OST_REMOVED	Objects.Object Status.Removed
OST_ROWVER	Objects.Object Status.Row Version
OST_STATUS	Objects.Object Status.Status

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
OST_UPDATE	Objects.Object Status.Update Date
OST_UPDATEBY	Objects.Object Status.Updated By
ODU_CREATE	Users.Object Instance For User.Dependency.Creation Date
ODU_CREATEBY	Users.Object Instance For User.Dependency.Created By
ODU_DATA_LEVEL	Users.Object Instance For User.Dependency.System Level
ODU_NOTE	Users.Object Instance For User.Dependency.Note
ODU_ROWVER	Users.Object Instance For User.Dependency.Row Version
ODU_UPDATE	Users.Object Instance For User.Dependency.Update Date
ODU_UPDATEBY	Users.Object Instance For User.Dependency.Updated By
OGU_CREATE	Objects-Groups.Creation Date
OGU_CREATEBY	Objects-Groups.Created By
OGU_DATA_LEVEL	Objects-Groups.System Level
OGU_DELETE	Objects-Groups.Delete
OGU_NOTE	Objects-Groups.Note
OGU_ROWVER	Objects-Groups.Row Version
OGU_UPDATE	Objects-Groups.Update Date
OGU_UPDATEBY	Objects-Groups.Updated By
OGU_WRITE	Objects-Groups.Write
PARENT_KEY	Organizations.Parent Key
PARENT_SDK_NAME	Structure Utility.Child Tables.Parent Table
PCQ_ANSWER	Users.Password Challenge Question.Answer
PCQ_CREATE	Users.Password Challenge Question.Creation Date
PCQ_CREATEBY	Users.Password Challenge Question.Created By
PCQ_DATA_LEVEL	Users.Password Challenge Question.System Level
PCQ_KEY	Users.Password Challenge Question.Key
PCQ_NOTE	Users.Password Challenge Question.Note
PCQ_QUESTION	Users.Password Challenge Question.Question
PCQ_ROWVER	Users.Password Challenge Question.Row Version
PCQ_UPDATE	Users.Password Challenge Question.Update Date
PCQ_UPDATEBY	Users.Password Challenge Question.Updated By
PDF_CREATE	Process Integration.Sub Processes.Set Data Flow.Creation Date

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PDF_CREATEBY	Process Integration.Sub Processes.Set Data Flow.Created By
PDF_DATA_LEVEL	Process Integration.Sub Processes.Set Data Flow.System Level
PDF_KEY	Process Integration.Sub Processes.Set Data Flow.Key
PDF_NOTE	Process Integration.Sub Processes.Set Data Flow.Note
PDF_ROWVER	Process Integration.Sub Processes.Set Data Flow.Row Version
PDF_SINK_DOB	Process Integration.Sub Processes.Set Data Flow.Sink Process Data Object
PDF_SINK_FIELD	Process Integration.Sub Processes.Set Data Flow.Target Process Field
PDF_SINK_HIERARCHY	Process Integration.Sub Processes.Set Data Flow.Target Process Hierarchy String
PDF_SINK_PKG_KEY	Process Integration.Sub Processes.Set Data Flow.Target Process Key
PDF_SOURCE_FIELD	Process Integration.Sub Processes.Set Data Flow.Source Process Field
PDF_SOURCE_HIERARCHY	Process Integration.Sub Processes.Set Data Flow.Source Process Hierarchy String
PDF_SOURCE_PKG_KEY	Process Integration.Sub Processes.Set Data Flow.Source Process Key
PDF_SOURCE_TABLE	Process Integration.Sub Processes.Set Data Flow.Source Process Table
PDF_UPDATE	Process Integration.Sub Processes.Set Data Flow.Update Date
PDF_UPDATEBY	Process Integration.Sub Processes.Set Data Flow.Updated By
PGP_CREATE	Groups-Request Permissions.Create Date
PGP_CREATEBY	Groups-Request Permissions.Created By
PGP_DATA_LEVEL	Groups-Request Permissions.System Level
PGP_NOTE	Groups-Request Permissions.Note
PGP_ROWVER	Groups-Request Permissions.Row Version
PGP_UPDATE	Groups-Request Permissions.Update Date
PGP_UPDATEBY	Groups-Request Permissions.Updated By
PHO_ADDRESS	Phones.Number/Address
PHO_COUNTRY_CODE	Phones.Country Code
PHO_CREATE	Phones.Creation Date
PHO_CREATEBY	Phones.Created By
PHO_DATASET_ATTRIBUTE	Phones.Dataset Attribute
PHO_DATA_LEVEL	Phones.System Level

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PHO_DESCRIPTION	Phones.Description
PHO_EXT	Phones.Extension
PHO_FREQUENCY	Phones.Frequency
PHO_JOB	Phones.Job
PHO_KEY	Phones.Key
PHO_LABEL	Phones.Label
PHO_NOTE	Phones.Note
PHO_ORIGINATOR	Phones.Originator
PHO_PASSWORD	Phones.Password
PHO_PIN	Phones.PIN
PHO_RECEIVE_FILE	Phones.Receive File
PHO_ROWVER	Phones.Row Version
PHO_TYPE	Phones.Type
PHO_UPDATE	Phones.Update Date
PHO_UPDATEBY	Phones.Updated By
PHO_USERNAME	Phones.Username
PKD_CREATE	Process Integration.Sub Processes.Depends On.Creation Date
PKD_CREATEBY	Process Integration.Sub Processes.Depends On.Created By
PKD_DATA_LEVEL	Process Integration.Sub Processes.Depends On.System Level
PKD_KEY	Process Integration.Sub Processes.Depends On.Key
PKD_NOTE	Process Integration.Sub Processes.Depends On.Note
PKD_PREDECESSOR_PKH_KEY	Process Integration.Sub Processes.Depends On.Parent of Process Hierarchy Key
PKD_ROWVER	Process Integration.Sub Processes.Depends On.Row Version
PKD_UPDATE	Process Integration.Sub Processes.Depends On.Update Date
PKD_UPDATEBY	Process Integration.Sub Processes.Depends On.Updated By
PKG_CREATE	Process Definition.Creation Date
PKG_CREATEBY	Process Definition.Created By
PKG_DATA_LEVEL	Process Definition.System Level
PKG_DESCRIPTION	Process Definition.Process Description
PKG_KEY	Process Definition.Key
PKG_NAME	Process Definition.Name
PKG_NOTE	Process Definition.Note

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PKG_OBJ_DEFAULT	Process Definition.Default Process
PKG_PROMO	Process Definition.Process Promo
PKG_ROWVER	Process Definition.Row Version
PKG_SYSTEM	Process Definition.System Process
PKG_TOS_INSTANCE_SRC_FIELD	Process Definition.Pkg Tos Instance Source Field
PKG_TOS_INSTANCE_SRC_HIERARCHY	Process Definition.Pkg Tos Instance Source Hierarchy
PKG_TYPE	Process Definition.Type
PKG_UPDATE	Process Definition.Update Date
PKG_UPDATEBY	Process Definition.Updated By
PKH_CHILD_PKG_KEY	Process Integration.Child Process Key
PKH_CONDITIONAL	Process Integration.Sub Processes.Conditional
PKH_CREATE	Process Integration.Sub Processes.Creation Date
PKH_CREATEBY	Process Integration.Sub Processes.Created By
PKH_DATA_LEVEL	Process Integration.Sub Processes.System Level
PKH_KEY	Process Integration.Key
PKH_NOTE	Process Integration.Sub Processes.Note
PKH_REQUIRED_COMPLETE	Process Integration.Sub Processes.Required Complete
PKH_ROWVER	Process Integration.Sub Processes.Row Version
PKH_SEQUENCE	Process Integration.Sub Processes.Sequence
PKH_UPDATE	Process Integration.Sub Processes.Update Date
PKH_UPDATEBY	Process Integration.Sub Processes.Updated By
POF_FIELD_VALUE	Access Policy.Policy Field Definition.Field Value
POF_CREATE	Access Policy.Policy Field Definition.Creation Date
POF_CREATEBY	Access Policy.Policy Field Definition.Created By
POF_KEY	Access Policy.Policy Field Definition.Key
POF_NOTE	Access Policy.Policy Field Definition.Note
POF_ROWVER	Access Policy.Policy Field Definition.Row Version
POF_DATA_LEVEL	Access Policy.Policy Field Definition.System Level
POF_FIELD_NAME	Access Policy.Policy Field Definition.Field Name
POF_UPDATE	Access Policy.Policy Field Definition.Update Date

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
POF_UPDATEBY	Access Policy.Policy Field Definition.Updated By
POG_CREATE	Access Policy-User Groups.Creation Date
POG_CREATEBY	Access Policy-User Groups.Created By
POG_DATA_LEVEL	Access Policy-User Groups.System Level
POG_NOTE	Access Policy-User Groups.Note
POG_ROWVER	Access Policy-User Groups.Row Version
POG_UPDATE	Access Policy-User Groups.Update Date
POG_UPDATEBY	Access Policy-User Groups.Updated By
POL_CREATE	Access Policies.Creation Date
POL_CREATEBY	Access Policies.Created By
POL_DATA_LEVEL	Access Policies.System Level
POL_DESCRIPTION	Access Policies.Description
POL_KEY	Access Policies.Key
POL_NAME	Access Policies.Name
POL_NOTE	Access Policies.Note
POL_PRIORITY	Access Policies.Priority
POL_REQUEST	Access Policies.By Request
POL_RETROFIT_POLICY	Access Policies.Retrofit Flag
POL_ROWVER	Access Policies.Row Version
POL_UPDATE	Access Policies.Update Date
POL_UPDATEBY	Access Policies.Updated By
POP_CREATE	Access Policy-Resource Objects.Creation Date
POP_CREATEBY	Access Policy-Resource Objects.Created By
POP_DATA_LEVEL	Access Policy-Resource Objects.System Level
POP_DENIAL	Access Policy-Resource Objects.Denial
POP_NOTE	Access Policy-Resource Objects.Note
POP_REVOKE_OBJECT	Access Policy-Resource Objects.Revoke Objects
POP_ROWVER	Access Policy-Resource Objects.Row Version
POP_UPDATE	Access Policy-Resource Objects.Update Date
POP_UPDATEBY	Access Policy-Resource Objects.Updated By
PRF_COLUMNNAME	Process Definition.Reconciliation Fields Mappings.ColumnName
PRF_CREATE	Process Definition.Reconciliation Fields Mappings.Creation Date
PRF_CREATEBY	Process Definition.Reconciliation Fields Mappings.Created By
PRF_DATA_LEVEL	Process Definition.Reconciliation Fields Mappings.System Level

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PRF_ISKEY	Process Definition.Reconciliation Fields Mappings.Iskey
PRF_NOTE	Process Definition.Reconciliation Fields Mappings.Note
PRF_ROWVER	Process Definition.Reconciliation Fields Mappings.Row Version
PRF_UPDATE	Process Definition.Reconciliation Fields Mappings.Update Date
PRF_UPDATEBY	Process Definition.Reconciliation Fields Mappings.Updated By
PROCESSFORMCOUNT	Process Instance.Process Form Entries
PROCESSFORMINSTANCEKEY	Process.Process Definition.Process Instance Key In Form
PROCESSFORMKEY	Process.Process Definition.Process Form Key
PROCESSFORMNAME	Process.Process Definition.Process Form Name
PTY_CREATE	System Configuration.Creation Date
PTY_CREATEBY	System Configuration.Created By
PTY_DATA_LEVEL	System Configuration.System Level
PTY_KEY	System Configuration.Key
PTY_KEYWORD	System Configuration.Keyword
PTY_NAME	System Configuration.Name
PTY_NOTE	System Configuration.Note
PTY_ROWVER	System Configuration.Row Version
PTY_RUN_ON	System Configuration.Run On
PTY_SYSTEM	System Configuration.System
PTY_UPDATE	System Configuration.Update Date
PTY_UPDATEBY	System Configuration.Updated By
PTY_VALUE	System Configuration.Value
PUG_CREATE	ProcessDefinition-Groups.Creation Date
PUG_CREATEBY	ProcessDefinition-Groups.Created By
PUG_DATA_LEVEL	ProcessDefinition-Groups.System Level
PUG_DELETE	ProcessDefinition-Groups.Delete
PUG_NOTE	ProcessDefinition-Groups.Note
PUG_ROWVER	ProcessDefinition-Groups.Row Version
PUG_UPDATE	ProcessDefinition-Groups.Update Date
PUG_UPDATEBY	ProcessDefinition-Groups.Updated By
PUG_WRITE	ProcessDefinition-Groups.Write
PWP_CREATE	Password Policies.Policy Process Targets.Creation Date

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PWP_CREATEBY	Password Policies.Policy Process Targets.Created By
PWP_DATA_LEVEL	Password Policies.Policy Process Targets.System Level
PWP_NOTE	Password Policies.Policy Process Targets.Note
PWP_ROWVER	Password Policies.Policy Process Targets.Row Version
PWP_UPDATE	Password Policies.Policy Process Targets.Update Date
PWP_UPDATEBY	Password Policies.Policy Process Targets.Updated By
PWR_CREATE	Password Policies.Creation Date
PWR_CREATEBY	Password Policies.Created By
PWR_DATA_LEVEL	Password Policies.System Level
PWR_DESC	Password Policies.Policy Description
PWR_DICTIONARY_DELIMITER	Password Policies.Password File Delimiter
PWR_DICTIONARY_LOCATION	Password Policies.Password File
PWR_DISALLOW_FNAME	Password Policies.Disallow First Name
PWR_DISALLOW_LNAME	Password Policies.Disallow Last Name
PWR_DISALLOW_USERID	Password Policies.Disallow User ID
PWR_EXPIRES_AFTER	Password Policies.Expires After (Days)
PWR_INVALID_CHARS	Password Policies.Characters Not Allowed
PWR_INVALID_STRINGS	Password Policies.Substrings Not Allowed
PWR_KEY	Password Policies.Key
PWR_MAX_LENGTH	Password Policies.Maximum Length
PWR_MAX_REPEATED	Password Policies.Maximum Repeated Characters
PWR_MAX_SPECIALCHAR	Password Policies.Maximum Special Characters
PWR_MIN_ALPHA	Password Policies.Minimum Alphabet Characters
PWR_MIN_ALPHANUM	Password Policies.Minimum Alphanumeric Characters
PWR_MIN_LENGTH	Password Policies.Minimum Length
PWR_MIN_LOWERCASE	Password Policies.Minimum Lowercase Characters
PWR_MIN_NUMBER	Password Policies.Minimum Numeric Characters
PWR_MIN_SPECIALCHAR	Password Policies.Minimum Special Characters
PWR_MIN_UNIQUE	Password Policies.Minimum Unique Characters
PWR_MIN_UPPERCASE	Password Policies.Minimum Uppercase Characters
PWR_NAME	Password Policies.Policy Name
PWR_NOTE	Password Policies.Note

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
PWR_REQD_CHARS	Password Policies.Characters Required
PWR_ROWVER	Password Policies.Row Version
PWR_STARTS_WITH_CHAR	Password Policies.Start With Character
PWR_UPDATE	Password Policies.Update Date
PWR_UPDATEBY	Password Policies.Updated By
PWR_VALID_CHARS	Password Policies.Characters Allowed
PWR_WARN_AFTER	Password Policies.Warn After (Days)
PWT_CREATE	Password Policies.Policy User Targets.Creation Date
PWT_CREATEBY	Password Policies.Policy User Targets.Created By
PWT_DATA_LEVEL	Password Policies.Policy User Targets.System Level
PWT_EMP_TYPE	Password Policies.Policy User Targets.Employee Type
PWT_KEY	Password Policies.Policy User Targets.Key
PWT_NOTE	Password Policies.Policy User Targets.Note
PWT_ROWVER	Password Policies.Policy User Targets.Row Version
PWT_UPDATE	Password Policies.Policy User Targets.Update Date
PWT_UPDATEBY	Password Policies.Policy User Targets.Updated By
PXD_CREATE	Proxy.Creation Date
PXD_CREATEBY	Proxy.Created By
PXD_DATA_LEVEL	Proxy.System Level
PXD_END_DATE	Proxy.End Date
PXD_KEY	Proxy.Key
PXD_NOTE	Proxy.Note
PXD_ORIG_USR_KEY	Proxy.Original User Key
PXD_PROXY_KEY	Proxy.Proxy User Key
PXD_ROWVER	Proxy.Row Version
PXD_START_DATE	Proxy.Start Date
PXD_UPDATE	Proxy.Update Date
PXD_UPDATEBY	Proxy.Updated By
QUE_CREATE	Queues.Creation Date
QUE_CREATEBY	Queues.Created By
QUE_DATA_LEVEL	Queues.System Level
QUE_DESCRIPTION	Queues.Description
QUE_KEY	Queues.Key

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
QUE_NAME	Queues.Queue Name
QUE_NOTE	Queues.Note
QUE_PARENT	Queues.Parent Queue Name
QUE_PARENT_KEY	Queues.Parent Queue
QUE_ROWVER	Queues.Row Version
QUE_UPDATE	Queues.Update Date
QUE_UPDATEBY	Queues.Updated By
QUG_CREATE	Queues.Administrators.Creation Date
QUG_CREATEBY	Queues.Administrators.Created By
QUG_DATA_LEVEL	Queues.Administrators.System Level
QUG_DELETE	Queues.Administrators.Delete
QUG_NOTE	Queues.Administrators.Note
QUG_ROWVER	Queues.Administrators.Row Version
QUG_UPDATE	Queues.Administrators.Update Date
QUG_UPDATEBY	Queues.Administrators.Updated By
QUG_WRITE	Queues.Administrators.Write
QUM_CREATE	Queues.Members.Creation Date
QUM_CREATEBY	Queues.Members.Created By
QUM_DATA_LEVEL	Queues.Members.System Level
QUM_DELETE	Queues.Members.Delete
QUM_NOTE	Queues.Members.Note
QUM_ROWVER	Queues.Members.Row Version
QUM_UPDATE	Queues.Members.Update Date
QUM_UPDATEBY	Queues.Members.Updated By
QUM_WRITE	Queues.Members.Write
RCD_CREATE	Reconciliation Manager.Event Data.Creation Date
RCD_CREATEBY	Reconciliation Manager.Event Data.Created By
RCD_DATA_LEVEL	Reconciliation Manager.Event Data.System Level
RCD_NOTE	Reconciliation Manager.Event Data.Note
RCD_ROWVER	Reconciliation Manager.Event Data.Row Version
RCD_UPDATE	Reconciliation Manager.Event Data.Update Date
RCD_UPDATEBY	Reconciliation Manager.Event Data.Updated By
RCD_VALUE	Reconciliation Manager.Event Data.Value
RCE_CREATE	Reconciliation Manager.Creation Date
RCE_CREATEBY	Reconciliation Manager.Created By
RCE_DATA_LEVEL	Reconciliation Manager.System Level

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
RCE_KEY	Reconciliation Manager.Key
RCE_LAST_ACTION	Reconciliation Manager.Last Action
RCE_NOTE	Reconciliation Manager.Note
RCE_ROWVER	Reconciliation Manager.Row Version
RCE_STATUS	Reconciliation Manager.Status
RCE_UPDATE	Reconciliation Manager.Update Date
RCE_UPDATEBY	Reconciliation Manager.Updated By
RCH_ACTION	Reconciliation Manager.Event Action History.Action
RCH_CREATE	Reconciliation Manager.Event Action History.Creation Date
RCH_CREATEBY	Reconciliation Manager.Event Action History.Created By
RCH_DATA_LEVEL	Reconciliation Manager.Event Action History.System Level
RCH_KEY	Reconciliation Manager.Event Action History.Key
RCH_NOTE	Reconciliation Manager.Event Action History.Note
RCH_ROWVER	Reconciliation Manager.Event Action History.Row Version
RCH_UPDATE	Reconciliation Manager.Event Action History.Update Date
RCH_UPDATEBY	Reconciliation Manager.Event Action History.Updated By
REQUESTADMIN	RequestAdmin.User ID
REQUESTADMIN_FIRST_NAME	RequestAdmin.First Name
REQUESTADMIN_KEY	RequestAdmin.Key
REQUESTADMIN_LAST_NAME	RequestAdmin.Last Name
REQUESTER	Requester.User ID
REQUESTER_FIRST_NAME	Requester.First Name
REQUESTER_LAST_NAME	Requester.Last Name
REQ_CONSOLIDATED_DATA_VALUE	Requests.Consolidated Data Value
REQ_CREATE	Requests.Creation Date
REQ_CREATEBY	Requests.Created By
REQ_DATA_LEVEL	Requests.System Level
REQ_KEY	Requests.Key
REQ_NAME	Requests.Name
REQ_NOTE	Requests.Note
REQ_NUMBER	Requests.Request ID

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
REQ_OBJ_ACTION	Requests.Object Request Type
REQ_PRIORITY	Requests.Request Priority
REQ_PROV_DATE	Requests.Provisioning Executed Date
REQ_PROV_SCHED_DATE	Requests.Provisioning Scheduled Date
REQ_ROWVER	Requests.Row Version
REQ_SCHED_PROV	Requests.Scheduled Provisioning
REQ_TARGET_TYPE	Requests.Target Type
REQ_TYPE	Requests.Type
REQ_UPDATE	Requests.Update Date
REQ_UPDATEBY	Requests.Updated By
REQ_UPDATEBY_FNAME	Requests.Updated By First Name
REQ_UPDATEBY_LNAME	Requests.Updated By Last Name
REQ_UPDATEBY_LOGIN	Requests.Updated By Login
RGM_CREATE	Tasks-Responses.Creation Date
RGM_CREATEBY	Tasks-Responses.Created By
RGM_DATA_LEVEL	Tasks-Responses.System Level
RGM_NOTE	Tasks-Responses.Note
RGM_ROWVER	Tasks-Responses.Row Version
RGM_UPDATE	Tasks-Responses.Update Date
RGM_UPDATEBY	Tasks-Responses.Updated By
RLO_CREATE	External Jar File Directory.Creation Date
RLO_CREATEBY	External Jar File Directory.Created By
RLO_DESC	External Jar File Directory.Description
RLO_KEY	External Jar File Directory.Key
RLO_NOTE	External Jar File Directory.Note
RLO_ROWVER	External Jar File Directory.Row Version
RLO_TAG	External Jar File Directory.Tag
RLO_URL	External Jar File Directory.URL
RLO_DISABLE_DIR	External Jar File Directory.Disable DIR
RLO_DATA_LEVEL	External Jar File Directory.System Level
RLO_UPDATE	External Jar File Directory.Update Date
RLO_UPDATEBY	External Jar File Directory.Updated By
ROP_CREATE	Rule Designer-Object Definition.Creation Date
ROP_CREATEBY	Rule Designer-Object Definition.Created By
ROP_DATA_LEVEL	Rule Designer-Object Definition.System Level
ROP_NOTE	Rule Designer-Object Definition.Note
ROP_PRIORITY	Rule Designer-Object Definition.Priority

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
ROP_ROWVER	Rule Designer-Object Definition.Row Version
ROP_TYPE	Rule Designer-Object Definition.Type
ROP_UPDATE	Rule Designer-Object Definition.Update Date
ROP_UPDATEBY	Rule Designer-Object Definition.Updated By
RPW_CREATE	Access Policy-Resource Objects-Rule Designer.Creation Date
RPW_CREATEBY	Access Policy-Resource Objects-Rule Designer.Created By
RPW_DATA_LEVEL	Access Policy-Resource Objects-Rule Designer.System Level
RPW_NOTE	Access Policy-Resource Objects-Rule Designer.Note
RPW_ROWVER	Access Policy-Resource Objects-Rule Designer.Row Version
RPW_UPDATE	Access Policy-Resource Objects-Rule Designer.Update Date
RPW_UPDATEBY	Access Policy-Resource Objects-Rule Designer.Updated By
RPW_PRIORTIY	Access Policy-Resource Objects-Rule Designer.Priority
RQA_CREATE	Requests.Organization Targets.Creation Date
RQA_CREATEBY	Requests.Organization Targets.Created By
RQA_DATA_LEVEL	Requests.Organization Targets.System Level
RQA_NOTE	Requests.Organization Targets.Note
RQA_ROWVER	Requests.Organization Targets.Row Version
RQA_UPDATE	Requests.Organization Targets.Update Date
RQA_UPDATEBY	Requests.Organization Targets.Updated By
RQC_COMMENT	Requests.Comments.Comments
RQC_CREATE	Requests.Comments.Creation Date
RQC_CREATEBY	Requests.Comments.Created By
RQC_CREATEBY_FNAME	Requests.Comments.Created By First Name
RQC_CREATEBY_LNAME	Requests.Comments.Created By Last Name
RQC_CREATEBY_LOGIN	Requests.Comments.Created By Login
RQC_DATA_LEVEL	Requests.Comments.System Level
RQC_KEY	Requests.Comments.Key
RQC_NOTE	Requests.Comments.Note
RQC_ROWVER	Requests.Comments.Row Version
RQC_TYPE	Requests.Comments.Type
RQC_UPDATE	Requests.Comments.Update Date
RQC_UPDATEBY	Requests.Comments.Updated By

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
RQD_ATTR_NAME	Registration.Attribute Name
RQD_ATTR_VALUE	Registration.Attribute Value
RQD_CREATE	Registration.Create Date
RQD_CREATEBY	Registration.Created By
RQD_DATA_LEVEL	Registration.System Level
RQD_DISPLAY	Registration.Display
RQD_ENCRYPTED	Registration.Encrypted
RQD_NOTE	Registration.Note
RQD_ROWVER	Registration.Row Version
RQD_UPDATE	Registration.Update Date
RQD_UPDATEBY	Registration.Updated By
RQE_CREATE	Request-Queues.Creation Date
RQE_CREATEBY	Request-Queues.Created By
RQE_DATA_LEVEL	Request-Queues.System Level
RQE_NOTE	Request-Queues.Note
RQE_ROWVER	Request-Queues.Row Version
RQE_UPDATE	Request-Queues.Update Date
RQE_UPDATEBY	Request-Queues.Updated By
RQH_CREATE	Request History.Creation Date
RQH_CREATEBY	Request History.Created By
RQH_DATA_LEVEL	Request History.System Level
RQH_KEY	Request History.Key
RQH_NOTE	Request History.Note
RQH_ROWVER	Request History.Row Version
RQH_STATUS	Request History.Status
RQH_UPDATE	Request History.Update Date
RQH_UPDATEBY	Request History.Updated By
RQO_CREATE	Requests.Request Objects.Creation Date
RQO_CREATEBY	Requests.Request Objects.Created By
RQO_DATA_LEVEL	Requests.Request Objects.System Level
RQO_FILL_IN	Requests.Request Objects.Data Provider
RQO_NOTE	Requests.Request Objects.Note
RQO_ROWVER	Requests.Request Objects.Row Version
RQO_SERVICEACCOUNT	Requests.Request Objects.Service Account Flag
RQO_UPDATE	Requests.Request Objects.Update Date
RQO_UPDATEBY	Requests.Request Objects.Updated By
RQR_MGR_FNAME	Requester.Manager First Name

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
RQR_MGR_KEY	Requester.Manager Key
RQR_MGR_LNAME	Requester.Manager Last Name
RQR_MGR_LOGIN	Requester.Manager User ID
RQU_CREATE	Requests.User Targets.Creation Date
RQU_CREATEBY	Requests.User Targets.Created By
RQU_DATA_LEVEL	Requests.User Targets.System Level
RQU_NOTE	Requests.User Targets.Note
RQU_ROWVER	Requests.User Targets.Row Version
RQU_UPDATE	Requests.User Targets.Update Date
RQU_UPDATEBY	Requests.User Targets.Updated By
RRE_CASESENSITIVE	Reconciliation Rules.Rule Element.Case Sensitive
RRE_CHILD_RRL_KEY	Reconciliation Rules.Rule Element.Reconciliation Child User Matching Rules Key
RRE_CREATE	Reconciliation Rules.Rule Element.Creation Date
RRE_CREATEBY	Reconciliation Rules.Rule Element.Created By
RRE_DATA_LEVEL	Reconciliation Rules.Rule Element.System Level
RRE_FIELDNAME	Reconciliation Rules.Rule Element.Field Name
RRE_KEY	Reconciliation Rules.Rule Element.Key
RRE_NOTE	Reconciliation Rules.Rule Element.Note
RRE_SEQUENCE	Reconciliation Rules.Rule Element.Sequence
RRE_UPDATE	Reconciliation Rules.Rule Element.Update Date
RRE_UPDATEBY	Reconciliation Rules.Rule Element.Updated By
RRE_VALID	Reconciliation Rules.Rule Element.Valid
RRL_ACTIVE	Reconciliation Rules.Active
RRL_CREATE	Reconciliation Rules.Creation Date
RRL_CREATEBY	Reconciliation Rules.Created By
RRL_DATA_LEVEL	Reconciliation Rules.System Level
RRL_KEY	Reconciliation Rules.Key
RRL_NAME	Reconciliation Rules.Name
RRL_NOTE	Reconciliation Rules.Note
RRL_OPERATOR	Reconciliation Rules.Operator
RRL_ROWVER	Reconciliation Rules.Row Version
RRL_UPDATE	Reconciliation Rules.Update Date
RRL_UPDATEBY	Reconciliation Rules.Updated By
RRL_VALID	Reconciliation Rules.Valid

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
RRT_CREATE	Reconciliation Rules.Property.Creation Date
RRT_CREATEBY	Reconciliation Rules.Property.Created By
RRT_DATA_LEVEL	Reconciliation Rules.Property.System Level
RRT_KEY	Reconciliation Rules.Property.Key
RRT_NAME	Reconciliation Rules.Property.Name
RRT_NOTE	Reconciliation Rules.Property.Note
RRT_ROWVER	Reconciliation Rules.Property.Row Version
RRT_UPDATE	Reconciliation Rules.Property.Update Date
RRT_UPDATEBY	Reconciliation Rules.Property.Updated By
RRT_VALUE	Reconciliation Rules.Property.Value
RSC_UPDATEBY	Process Definition.Tasks.Responses.Updated By
RSC_CREATE	Process Definition.Tasks.Responses.Creation Date
RSC_CREATEBY	Process Definition.Tasks.Responses.Created By
RSC_DATA	Process Definition.Tasks.Responses.Response
RSC_DATA_LEVEL	Process Definition.Tasks.Responses.System Level
RSC_DESC	Process Definition.Tasks.Responses.Description
RSC_KEY	Process Definition.Tasks.Responses.Key
RSC_NOTE	Process Definition.Tasks.Responses.Note
RSC_ROWVER	Process Definition.Tasks.Responses.Row Version
RSC_UPDATE	Process Definition.Tasks.Responses.Update Date
RUE_ATTRIBUTE	Rule Designer.Rule Element.Attribute
RUE_ATTRIBUTE_SOURCE	Rule Designer.Rule Element.Attribute Source
RUE_ATTRIBUTE_SOURCE_SD K_KEY	Rule Designer.Rule Element.User-Defined Form
RUE_CHILD_RUL_KEY	Rule Designer.Rule Element.Child Key
RUE_CREATE	Rule Designer.Rule Element.Creation Date
RUE_CREATEBY	Rule Designer.Rule Element.Created By
RUE_DATA_LEVEL	Rule Designer.Rule Element.System Level
RUE_KEY	Rule Designer.Rule Element.Key
RUE_NOTE	Rule Designer.Rule Element.Note
RUE_OPERATION	Rule Designer.Rule Element.Operation
RUE_ROWVER	Rule Designer.Rule Element.Row Version
RUE_SEQUENCE	Rule Designer.Rule Element.Sequence
RUE_UPDATE	Rule Designer.Rule Element.Update Date

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
RUE_UPDATEBY	Rule Designer.Rule Element.Updated By
RUE_VALUE	Rule Designer.Rule Element.Attribute Value
RUG_CREATE	Requests-Groups.Creation Date
RUG_CREATEBY	Requests-Groups.Created By
RUG_DATA_LEVEL	Requests-Groups.System Level
RUG_DELETE	Requests-Groups.Delete
RUG_NOTE	Requests-Groups.Note
RUG_ROWVER	Requests-Groups.Row Version
RUG_UPDATE	Requests-Groups.Update Date
RUG_UPDATEBY	Requests-Groups.Updated By
RUG_WRITE	Requests-Groups.Write
RUL_ALL_OBJECTS	Rule Designer.All Objects
RUL_ALL_PROCESSES	Rule Designer.All Processes
RUL_CREATE	Rule Designer.Creation Date
RUL_CREATEBY	Rule Designer.Created By
RUL_DATA_LEVEL	Rule Designer.System Level
RUL_KEY	Rule Designer.Key
RUL_NAME	Rule Designer.Name
RUL_NOTE	Rule Designer.Description
RUL_OPERATOR	Rule Designer.Operator
RUL_ROWVER	Rule Designer.Row Version
RUL_SUBTYPE	Rule Designer.Sub-Type
RUL_TYPE	Rule Designer.Type
RUL_UPDATE	Rule Designer.Last Update Date
RUL_UPDATEBY	Rule Designer.Updated By
RVM_CREATE	Process Definition.Tasks.Recovery Tasks.Creation Date
RVM_CREATEBY	Process Definition.Tasks.Recovery Tasks.Created By
RVM_DATA_LEVEL	Process Definition.Tasks.Recovery Tasks.System Level
RVM_NOTE	Process Definition.Tasks. Recovery Tasks.Note
RVM_ROWVER	Process Definition.Tasks.Recovery Tasks.Row Version
RVM_UPDATE	Process Definition.Tasks.Recovery Tasks.Update Date
RVM_UPDATEBY	Process Definition.Tasks.Recovery Tasks.Updated By
SCH_ACTION	Process Instance.Task Details.Action

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SCH_ACTUAL_END	Process Instance.Task Details.Actual End Date
SCH_ACTUAL_START	Process Instance.Task Details.Actual Start Date
SCH_CREATE	Process Instance.Task Details.Creation Date
SCH_CREATEBY	Process Instance.Task Details.Created By
SCH_DATA	Process Instance.Task Details.Data
SCH_DATA_LEVEL	Process Instance.Task Details.System level
SCH_INT_KEY	Process Instance.Task Information.Int Key
SCH_KEY	Process Instance.Task Details.Key
SCH_NOTE	Process Instance.Task Details.Note
SCH_PROJ_END	Process Instance.Task Details.Project End
SCH_PROJ_START	Process Instance.Task Details.Project Start
SCH_REASON	Process Instance.Task Details.Reason
SCH_ROWVER	Process Instance.Task Details.Row Version
SCH_STATUS	Process Instance.Task Details.Status
SCH_TYPE	Process Instance.Task Details.Type
SCH_UPDATE	Process Instance.Task Details.Update Date
SCH_UPDATEBY	Process Instance.Task Details.Updated By
SDC_CREATE	Structure Utility.Additional Columns.Creation Date
SDC_CREATEBY	Structure Utility.Additional Columns.Created By
SDC_DATA_LEVEL	Structure Utility.Additional Columns.System Level
SDC_DEFAULT	Structure Utility.Additional Columns.Default
SDC_DEFAULT_VALUE	Structure Utility.Additional Columns.Default Value
SDC_ENCRYPTED	Structure Utility.Additional Columns.Encrypted
SDC_FIELD_TYPE	Structure Utility.Additional Columns.Field Type
SDC_KEY	Structure Utility.Additional Columns.Key
SDC_LABEL	Structure Utility.Additional Columns.Field Label
SDC_NAME	Structure Utility.Additional Columns.Name
SDC_NOTE	Structure Utility.Additional Columns.Note
SDC_ORDER	Structure Utility.Additional Columns.Order
SDC_PROFILE_ENABLED	Structure Utility.Additional Columns.Profile Enabled
SDC_ROWVER	Structure Utility.Additional Columns.Row Version

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SDC_SQL_LENGTH	Structure Utility.Additional Columns.Length
SDC_UPDATE	Structure Utility.Additional Columns.Update Date
SDC_UPDATEBY	Structure Utility.Additional Columns.Updated By
SDC_VARIANT_TYPE	Structure Utility.Additional Columns.Variant Type
SDC_VERSION	Structure Utility.Additional Columns.Version
SDH_CHILD_KEY	Structure Utility.Child Tables.Child Key
SDH_CHILD_VERSION	Structure Utility.Child Tables.Child Version
SDH_CREATE	Structure Utility.Child Tables.Creation Date
SDH_CREATEBY	Structure Utility.Child Tables.Created By
SDH_DATA_LEVEL	Structure Utility.Child Tables.System Level
SDH_NOTE	Structure Utility.Child Tables.Note
SDH_PARENT_KEY	Structure Utility.Child Tables.Parent Key
SDH_PARENT_VERSION	Structure Utility.Child Tables.Parent Version
SDH_ROWVER	Structure Utility.Child Tables.Row Version
SDH_UPDATE	Structure Utility.Child Tables.Update Date
SDH_UPDATEBY	Structure Utility.Child Tables.Updated By
SDK_ACTIVE_VERSION	Structure Utility.Active Version
SDK_CREATE	Structure Utility.Creation Date
SDK_CREATEBY	Structure Utility.Created By
SDK_DATA_LEVEL	Structure Utility.System Level
SDK_DESCRIPTION	Structure Utility.Form Description
SDK_FORM_DESCRIPTION	Structure Utility.Description
SDK_KEY	Structure Utility.Key
SDK_LATEST_VERSION	Structure Utility.Latest Version
SDK_NAME	Structure Utility.Table Name
SDK_NOTE	Structure Utility.Note
SDK_ORC	Structure Utility.Request Table
SDK_ROWVER	Structure Utility.Row Version
SDK_SCHEMA	Structure Utility.Schema
SDK_TYPE	Structure Utility.Form Type
SDK_UPDATE	Structure Utility.Update Date
SDK_UPDATEBY	Structure Utility.Updated By
SDL_CHILD_VERSION	Structure Utility.Structure Utility Version Label.Child Label
SDL_CREATE	Structure Utility.Structure Utility Version Label.Creation Date

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SDL_CREATEBY	Structure Utility.Structure Utility Version Label.Created By
SDL_DATA_LEVEL	Structure Utility.Structure Utility Version Label.System Level
SDL_KEY	Structure Utility.Structure Utility Version Label.Key
SDL_LABEL	Structure Utility.Structure Utility Version Label.Version Label
SDL_NOTE	Structure Utility.Structure Utility Version Label.Note
SDL_PARENT_VERSION	Structure Utility.Structure Utility Version Label.Parent Label
SDL_ROWVER	Structure Utility.Structure Utility Version Label.Row Version
SDL_UPDATE	Structure Utility.Structure Utility Version Label.Update Date
SDL_UPDATEBY	Structure Utility.Structure Utility Version Label.Updated By
SDP_CREATE	Structure Utility.Additional Columns.Properties.Creation Date
SDP_CREATEBY	Structure Utility.Additional Columns.Properties.Created By
SDP_DATA_LEVEL	Structure Utility.Additional Columns.Properties.System Level
SDP_KEY	Structure Utility.Additional Columns.Properties.Key
SDP_NOTE	Structure Utility.Additional Columns.Properties.Note
SDP_PROPERTY_NAME	Structure Utility.Additional Columns.Properties.Property Name
SDP_PROPERTY_VALUE	Structure Utility.Additional Columns.Properties.Property Value
SDP_ROWVER	Structure Utility.Additional Columns.Properties.Row Version
SDP_UPDATE	Structure Utility.Additional Columns.Properties.Update Date
SDP_UPDATEBY	Structure Utility.Additional Columns.Properties.Updated By
SEL_CREATE	Groups.Object Permissions.Creation Date
SEL_CREATEBY	Groups.Object Permissions.Created By
SEL_DATA_LEVEL	Groups.Object Permissions.System Level
SEL_DELETE_ALLOW	Groups.Object Permissions.Allow Delete
SEL_INSERT_ALLOW	Groups.Object Permissions.Allow Insert
SEL_KEY	Groups.Object Permissions.Key
SEL_NOTE	Groups.Object Permissions.Note

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SEL_ROWVER	Groups.Object Permissions.Row Version
SEL_UPDATE	Groups.Object Permissions.Update Date
SEL_UPDATEBY	Groups.Object Permissions.Updated By
SEL_UPDATE_ALLOW	Groups.Object Permissions.Allow Update
SIT_CLLI	Site.CLLI
SIT_CREATE	Site.Creation Date
SIT_CREATEBY	Site.Created By
SIT_DATA_LEVEL	Site.System Level
SIT_EXT_CABLE_TYP	Site.Ext Cable Type
SIT_EXT_DISTANCE	Site.Ext Distance
SIT_EXT_FLOOR	Site.Ext Floor
SIT_EXT_JACK_PROVD	Site.Ext Jack Provider
SIT_EXT_JACK_TYPE	Site.Ext Jack Type
SIT_EXT_ROOM	Site.Ext Room
SIT_EXT_SHIELDING	Site.Ext Shielding
SIT_EXT_WIRE_ORG	Site.Ext Wire Org
SIT_FLOOR	Site.Site Number
SIT_JACK_PROVIDER	Site.Jack Provider
SIT_JACK_TYPE	Site.Jack Type
SIT_KEY	Site.Key
SIT_NOTE	Site.Note
SIT_ROOM	Site.Room
SIT_ROWVER	Site.Row Version
SIT_TYPE	Site.Site Type
SIT_UPDATE	Site.Update Date
SIT_UPDATEBY	Site.Updated By
SPD_CREATE	IT Resource Type Definition.IT Resource Type Parametr.Creation Date
SPD_CREATEBY	IT Resource Type Definition.IT Resource Type Parametr.Created By
SPD_DATA_LEVEL	IT Resource Type Definition.IT Resource Type Parametr.System Level
SPD_KEY	IT Resource Type Definition.IT Resource Type Parametr.Key
SPD_NOTE	IT Resource Type Definition.IT Resource Type Parametr.Note
SPD_ROWVER	IT Resource Type Definition.IT Resource Type Parametr.Row Version
SPD_UPDATE	IT Resource Type Definition.IT Resource Type Parametr.Update Date

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SPD_UPDATEBY	IT Resource Type Definition.IT Resource Type Parametr.Updated By
SPD_CREATE	IT Resources Type Parameter.Creation Date
SPD_CREATEBY	IT Resources Type Parameter.Created By
SPD_DATA_LEVEL	IT Resources Type Parameter.System Level
SPD_FIELD_DEFAULT	IT Resource Type Definition.IT Resource Type Parametr.Default Value
SPD_FIELD_DEFAULT	IT Resources Type Parameter.Default
SPD_FIELD_ENCRYPTED	IT Resources Type Parameter.Encrypted
SPD_FIELD_ENCRYPTED	IT Resource Type Definition.IT Resource Type Parametr.Encrypted
SPD_FIELD_NAME	IT Resource Type Definition.IT Resource Type Parametr.Field Name
SPD_FIELD_NAME	IT Resources Type Parameter.Name
SPD_KEY	IT Resources Type Parameter.Key
SPD_NOTE	IT Resources Type Parameter.Note
SPD_ROWVER	IT Resources Type Parameter.Row Version
SPD_UPDATE	IT Resources Type Parameter.Update Date
SPD_UPDATEBY	IT Resources Type Parameter.Updated By
SRS_CREATE	IT Resource.Dependant IT Resource.Creation Date
SRS_CREATEBY	IT Resource.Dependant IT Resource.Created By
SRS_DATA_LEVEL	IT Resource.Dependant IT Resource.System Level
SRS_NOTE	IT Resource.Dependant IT Resource.Note
SRS_ROWVER	IT Resource.Dependant IT Resource.Row Version
SRS_UPDATE	IT Resource.Dependant IT Resource.Update Date
SRS_UPDATEBY	IT Resource.Dependant IT Resource.Updated By
SRS_SVR_KEY	IT Resource.Dependant IT Resource.Value
STA_BUCKET	Status.Category
STA_BUCKET_ORDER	Status.Category Order
STA_CREATE	Status.Creation Date
STA_CREATEBY	Status.Created By
STA_DATA_LEVEL	Status.System Level
STA_KEY	Status.Key
STA_NOTE	Status.Note
STA_ORDER	Status.Order
STA_ROWVER	Status.Row Version
STA_STATUS	Status.Status

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
STA_SUCCESS	Status.Successful Completion
STA_UPDATE	Status.Update Date
STA_UPDATEBY	Status.Updated By
SUBGROUPKEY	Groups.Subgroup Key
SUBGROUPNAME	Groups.Subgroup Name
SVD_CREATE	IT Resource Type Definition.Creation Date
SVD_CREATEBY	IT Resource Type Definition.Created By
SVD_DATA_LEVEL	IT Resource Type Definition.System Level
SVD_KEY	IT Resource Type Definition.Key
SVD_NOTE	IT Resource Type Definition.Note
SVD_ROWVER	IT Resource Type Definition.Row Version
SVD_UPDATE	IT Resource Type Definition.Update Date
SVD_UPDATEBY	IT Resource Type Definition.Updated By
SVD_LOCATION_BASED	IT Resource Type Definition.Location Bases
SVD_CREATE	IT Resources Type Definition.Creation Date
SVD_CREATEBY	IT Resources Type Definition.Created By
SVD_DATA_LEVEL	IT Resources Type Definition.System Level
SVD_INSERT_MULTIPLE	IT Resource Type Definition.Insert Multiple
SVD_INSERT_MULTIPLE	IT Resources Type Definition.Insert Multiple
SVD_KEY	IT Resources Type Definition.Key
SVD_NOTE	IT Resources Type Definition.Note
SVD_ROWVER	IT Resources Type Definition.Row Version
SVD_SVR_TYPE	IT Resource Type Definition.Server Type
SVD_SVR_TYPE	IT Resources Type Definition.Server Type
SVD_UPDATE	IT Resources Type Definition.Update Date
SVD_UPDATEBY	IT Resources Type Definition.Updated By
SVP_CREATE	IT Resource. Parameter.Creation Date
SVP_CREATEBY	IT Resource. Parameter.Created By
SVP_DATA_LEVEL	IT Resource. Parameter.System Level
SVP_NOTE	IT Resource. Parameter.Note
SVP_ROWVER	IT Resource. Parameter.Row Version
SVP_UPDATE	IT Resource. Parameter.Update Date
SVP_UPDATEBY	IT Resource. Parameter.Updated By
SVP_CREATE	IT Resources Type Parameter Value.Creation Date
SVP_CREATEBY	IT Resources Type Parameter Value.Created By
SVP_DATA_LEVEL	IT Resources Type Parameter Value.System Level

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
SVP_FIELD_VALUE	IT Resource.Parameter.Value
SVP_FIELD_VALUE	IT Resources Type Parameter Value.Value
SVP_KEY	IT Resource.Parameter.Key
SVP_KEY	IT Resources Type Parameter Value.Key
SVP_NOTE	IT Resources Type Parameter Value.Note
SVP_ROWVER	IT Resources Type Parameter Value.Row Version
SVP_UPDATE	IT Resources Type Parameter Value.Update Date
SVP_UPDATEBY	IT Resources Type Parameter Value.Updated By
SVR_CREATE	IT Resource.Creation Date
SVR_CREATEBY	IT Resource.Created By
SVR_DATA_LEVEL	IT Resource.System Level
SVR_NOTE	IT Resource.Note
SVR_ROWVER	IT Resource.Row Version
SVR_UPDATE	IT Resource.Update Date
SVR_UPDATEBY	IT Resource.Updated By
SVR_CHILD_KEY	IT Resource.Child Key
SVR_CHILD_KEY	IT Resources.Remote Manager Key
SVR_CREATE	IT Resources.Creation Date
SVR_CREATEBY	IT Resources.Created By
SVR_DATA_LEVEL	IT Resources.System Level
SVR_KEY	IT Resource.Key
SVR_KEY	IT Resources.Key
SVR_NAME	IT Resource.Name
SVR_NAME	IT Resources.Name
SVR_NOTE	IT Resources.Note
SVR_ROWVER	IT Resources.Row Version
SVR_UPDATE	IT Resources.Update Date
SVR_UPDATEBY	IT Resources.Updated By
SVS_CREATE	IT Resource-Site.Creation Date
SVS_CREATEBY	IT Resource-Site.Created By
SVS_DATA_LEVEL	IT Resource-Site.System Level
SVS_NOTE	IT Resource-Site.Note
SVS_ROWVER	IT Resource-Site.Row Version
SVS_UPDATE	IT Resource-Site.Update Date
SVS_UPDATEBY	IT Resource-Site.Updated By
TAS_KEY	Task Scheduler.Task Attributes.Key

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
TDV_CREATE	Process-Data Object Manager-Event Handler Manager.Creation Date
TDV_CREATEBY	Process-Data Object Manager-Event Handler Manager.Created By
TDV_DATA_LEVEL	Process-Data Object Manager-Event Handler Manager.System Level
TDV_NOTE	Process-Data Object Manager-Event Handler Manager.Note
TDV_ROWVER	Process-Data Object Manager-Event Handler Manager.Row Version
TDV_UPDATE	Process-Data Object Manager-Event Handler Manager.Update Date
TDV_UPDATEBY	Process-Data Object Manager-Event Handler Manager.Updated By
TOS.UPDATEBY	Process.Process Definition.Updated By
TOS_AUTOSAVE	Process.Process Definition.Auto Save
TOS_AUTO_PREPOP	Tasks.Auto Prepopulate
TOS_CREATE	Process.Process Definition.Creation Date
TOS_CREATEBY	Process.Process Definition.Created By
TOS_DATA_LEVEL	Process.Process Definition.System Level
TOS_KEY	Process.Process Definition.Process Key
TOS_MATCHNOTFOUND	Process.Process Definition.Match Not Found
TOS_MULTMATCHFOUND	Process.Process Definition.Mult Match Found
TOS_NOTE	Process.Process Definition.Note
TOS_ONEMATCHFOUND	Process.Process Definition.One Match Found
TOS_ROWVER	Process.Process Definition.Row Version
TOS_TYPE	Process.Process Definition.Type
TOS_UPDATE	Process.Process Definition.Update Date
TSA_CREATE	Task Scheduler.Task Attributes.Creation Date
TSA_CREATEBY	Task Scheduler.Task Attributes.Created By
TSA_DATA_LEVEL	Task Scheduler.Task Attributes.System Level
TSA_NOTE	Task Scheduler.Task Attributes.Note
TSA_ROWVER	Task Scheduler.Task Attributes.Row Version
TSA_NAME	Task Scheduler.Task Attributes.Name
TSA_UPDATE	Task Scheduler.Task Attributes.Update Date
TSA_UPDATEBY	Task Scheduler.Task Attributes.Updated By
TSA_VALUE	Task Scheduler.Task Attributes.Value
TSK_CREATE	Task Scheduler.Creation Date
TSK_CREATEBY	Task Scheduler.Created By
TSK_DATA_LEVEL	Task Scheduler.System Level

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
TSK_NOTE	Task Scheduler.Note
TSK_ROWVER	Task Scheduler.Row Version
TSK_CLASSNAME	Task Scheduler.ClassName
TSK_DISABLE	Task Scheduler.Disable
TSK_FREQTYPE	Task Scheduler.Frequency Type
TSK_INTERVAL	Task Scheduler.Interval
TSK_KEY	Task Scheduler.Key
TSK_LAST_START_TIME	Task Scheduler.Last Start Time
TSK_LAST_STOP_TIME	Task Scheduler.Last Stop Time
TSK_MAX_RETRIES	Task Scheduler.Max Retries
TSK_NAME	Task Scheduler.Name
TSK_NEXT_START_TIME	Task Scheduler.Next Start Time
TSK_RETRY_COUNT	Task Scheduler.Retry Count
TSK_START_TIME	Task Scheduler.Start Time
TSK_STATUS	Task Scheduler.Status
TSK_UPDATE	Task Scheduler.Update Date
TSK_UPDATEBY	Task Scheduler.Updated By
UGP_CREATE	Groups.Creation Date
UGP_CREATEBY	Groups.Created By
UGP_DATA_LEVEL	Groups.System Level
UGP_EMAIL	Groups.E-mail
UGP_KEY	Groups.Key
UGP_NAME	Groups.Group Name
UGP_NOTE	Groups.Note
UGP_ROWVER	Groups.Row Version
UGP_UPDATE	Groups.Update Date
UGP_UPDATEBY	Groups.Updated By
UGP_VIEWSET	Groups.Viewset
ULN_CREATE	Users-Locations.Creation Date
ULN_CREATEBY	Users-Locations.Created By
ULN_DATA_LEVEL	Users-Locations.System Level
ULN_NOTE	Users-Locations.Note
ULN_ROLE	Users-Locations.Role
ULN_ROWVER	Users-Locations.Row Version
ULN_UPDATE	Users-Locations.Update Date
ULN_UPDATEBY	Users-Locations.Updated By

Table A-1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
UNM_CREATE	Process Definition.Tasks.Undo Tasks.Creation Date
UNM_CREATEBY	Process Definition.Tasks.Undo Tasks.Created By
UNM_DATA_LEVEL	Process Definition.Tasks.Undo Tasks.Sytem Level
UNM_NOTE	Process Definition.Tasks.Undo Tasks.Note
UNM_ROWVER	Process Definition.Tasks.Undo Tasks.Row Version
UNM_UPDATE	Process Definition.Tasks.Undo Tasks.Update Date
UNM_UPDATEBY	Process Definition.Tasks.Undo Tasks.Updated By
UPDATEBY_FIRST_NAME	Process Instance.Task Information.Updated By First Name
UPDATEBY_LAST_NAME	Process Instance.Task Information.Updated By Last Name
UPDATEBY_USER_KEY	Process Instance.Task Information.Updated By User Key
UPDATEBY_USER_LOGIN	Process Instance.Task Information.Updated By User ID
UPY_NOTE	System Configuration- Users.Note
UPY_ROWVER	System Configuration- Users.Row Version
UPY_CREATE	System Configuration- Users.Creation Date
UPY_CREATE	Users-Client Properties.Creation Date
UPY_CREATEBY	System Configuration- Users.Created By
UPY_CREATEBY	Users-Client Properties.Created By
UPY_DATALEVEL	Users-Client Properties.System Level
UPY_DATA_LEVEL	System Configuration- Users.System Level
UPY_NOTE	Users-Client Properties.Note
UPY_ROWVER	Users-Client Properties.Row Version
UPY_UPDATE	System Configuration-Users.Update Date
UPY_UPDATE	Users-Client Properties.Update Date
UPY_UPDATEBY	System Configuration- Users.Updated By
UPY_UPDATEBY	Users-Client Properties.Updated By
USERMANAGER	Users.Manager Login
USERMANAGERFIRSTNAME	Users.Manager First Name
USERMANAGERLASTNAME	Users.Manager Last Name
USG_CREATE	Groups-Users.Creation Date
USG_CREATEBY	Groups-Users.Created By
USG_DATA_LEVEL	Groups-Users.System Level

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
USG_NOTE	Groups-Users.Note
USG_PRIORITY	Groups-Users.Priority
USG_ROWVER	Groups-Users.Row Version
USG_UPDATE	Groups-Users.Update Date
USG_UPDATEBY	Groups-Users.Updated By
USR_CREATE	Users.Creation Date
USR_CREATEBY	Users.Created By
USR_DATA_LEVEL	Users.System Level
USR_DEPROVISIONED_DATE	Users.Deprovisioned Date
USR_DEPROVISIONING_DATE	Users.Deprovisioning Date
USR_DISABLED	Users.Disable User
USR_DISABLED_BY_PARENT	Users.Disabled By Parent
USR_EMAIL	Users.Email
USR_EMP_TYPE	Users.Role
USR_END_DATE	Users.End Date
USR_FIRST_NAME	Users.First Name
USR_FSS	Users.Identity
USR_KEY	Users.Key
USR_LAST_NAME	Users.Last Name
USR_LOCKED	Users.Lock User
USR_LOGIN	Users.User ID
USR_MANAGER_KEY	Users.Manager Key
USR_MIDDLE_NAME	Users.Middle Name
USR_NOTE	Users.Note
USR_PASSWORD	Users.Password
USR_PROVISIONED_DATE	Users.Provisioned Date
USR_PROVISIONING_DATE	Users.Provisioning Date
USR_PWD_CANT_CHANGE	Users.Password Cannot Change
USR_PWD_EXPIRE_DATE	Users.Password Expiration Date
USR_PWD_MUST_CHANGE	Users.Password Must Change
USR_PWD_NEVER_EXPIRES	Users.Password Never Expires
USR_PWD_WARN_DATE	Users.Password Warning Date
USR_ROWVER	Users.Row Version
USR_START_DATE	Users.Start Date
USR_STATUS	Users.Status
USR_TYPE	Users.Xellerate Type
USR_UPDATE	Users.Update Date

Table A–1 (Continued) Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
USR_UPDATEBY	Users.Updated By
USR_UPDATE_AD	Users.AD Reference
UWP_CREATE	Groups-Form Information.Creation Date
UWP_CREATEBY	Groups-Form Information.Created By
UWP_DATA_LEVEL	Groups-Form Information.System Level
UWP_NEST_LEVEL	Groups-Form Information.Nesting Level
UWP_NOTE	Groups-Form Information.Note
UWP_PARENT_KEY	Groups-Form Information.Parent Key
UWP_ROWVER	Groups-Form Information.Row Version
UWP_SEQUENCE	Groups-Form Information.Sequence
UWP_UPDATE	Groups-Form Information.Update Date
UWP_UPDATEBY	Groups-Form Information.Updated By
WIN_CREATE	Form Information.Creation Date
WIN_CREATEBY	Form Information.Created By
WIN_DATA_LEVEL	Form Information.System Level
WIN_DEFAULT_REPORT	Form Information.Default Report
WIN_GRAPHIC_FILENAME	Form Information.Graphic Filename
WIN_GRAPHIC_NAME	Form Information.Graphic Name
WIN_HELP_URL	Form Information.Context Sensitive Help URL
WIN_JSP_HELP_URL	Form Information.JSP Help URL
WIN_JSP_NAME	Form Information.JSP Name
WIN_KEY	Form Information.key
WIN_NOTE	Form Information.Note
WIN_ROWVER	Form Information.Row Version
WIN_UPDATE	Form Information.Update Date
WIN_UPDATEBY	Form Information.Updated By
WIN_WINDOW_DESC	Form Information.Description
WIN_WINDOW_NAME	Form Information.Class Name
WIN_WIZARD_FORM	Form Information.Wizard Form
_ROWVER	Reconciliation Rules.Rule Element.Row Version
acn_role	Organization.Contacts.Role
err_action	Conditions.Action
err_action	Conditions.Severity
lkv_decoded	User Defined Field Definition.DataType
lkv_encoded	Form Information.Type
lkv_encoded	User Defined Field Definition.FormName
obj_type	Objects.Object Type

Table A–1 (Continued)Metadata Column Code Mapping Information

Physical Column Name	Metadata Column Code
orf_fieldtype	Objects.Reconciliation Fields.Type
pof_field_name	Policies.PolicyDefinitions.FieldName
req_obj_action	Request.Application Request Type
req_priority	Request.Request Priority
rml_target_type	Task Definition.Assignment Rules.Type
rqc_type	Request Comments.Type
rre_operator	Reconciliation Rules.Rule Element.Operator
rre_transform	Reconciliation Rules.Rule Element.Transform
rul_subtype	RulesDefinition.SubType
rul_type	RulesDefinition.Type
sch_action	Contacts.User Tasks.Action
sdc_field_type	Structure Utility.AdditionalColumns.FieldType
sdc_variant_type	Structure Utility.AdditionalColumns.VariantType