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Oracle's PeopleTools PeopleBook

PeopleTools 8.52: Reporting Web Services

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Reporting Web Services Preface

This preface provides an overview of the Reporting Web Services PeopleBook.

Reporting Web Services

Reporting Web Services are services published through the Integration Broker that can be consumed by third-party applications to facilitate creating and running reports on the PeopleSoft system. Web Services are available for Query Access and Process Scheduler.

Each web service contains multiple service operations to perform specific tasks relating to reporting. This PeopleBook describes the service operations and how to use them to interact with PeopleSoft reports.

PeopleBooks and the PeopleSoft Online Library

A companion PeopleBook called *PeopleBooks and the PeopleSoft Online Library* contains general information, including:

- Understanding the PeopleSoft online library and related documentation.
- How to send PeopleSoft documentation comments and suggestions to Oracle.
- How to access hosted PeopleBooks, downloadable HTML PeopleBooks, and downloadable PDF PeopleBooks as well as documentation updates.
- Understanding PeopleBook structure.
- Typographical conventions and visual cues used in PeopleBooks.
- ISO country codes and currency codes.
- PeopleBooks that are common across multiple applications.
- Common elements used in PeopleBooks.
- Navigating the PeopleBooks interface and searching the PeopleSoft online library.
- Displaying and printing screen shots and graphics in PeopleBooks.
- How to manage the locally installed PeopleSoft online library, including web site folders.
- Understanding documentation integration and how to integrate customized documentation into the library.
- Application abbreviations found in application fields.

You can find *PeopleBooks and the PeopleSoft Online Library* in the online PeopleBooks Library for your PeopleTools release.

Chapter 1

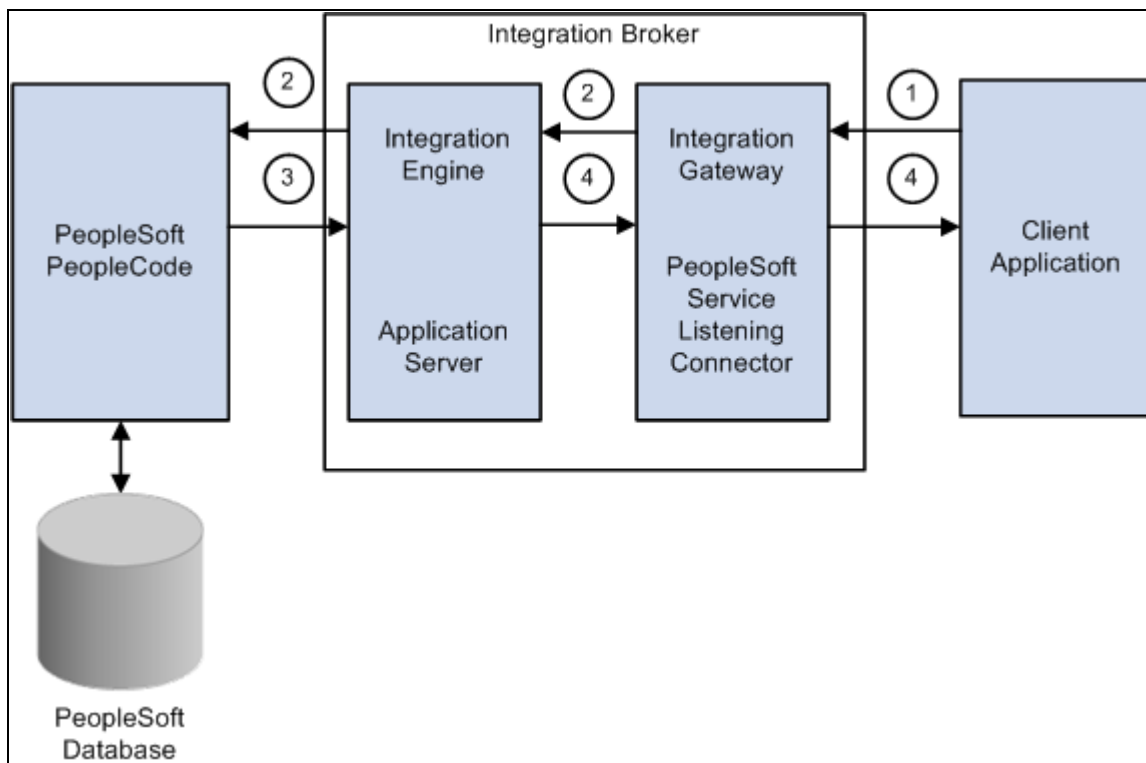
Getting Started with Reporting Web Services

This chapter provides an overview of web services and discusses implementation.

Web Services Overview

A web service provides external applications a web-services-based means of accessing PeopleSoft data. Web services are implemented through the PeopleTools Integration Broker (IB) framework. The Integration Gateway web application receives all the web service requests and forwards them to the Integration Engine (application server) for processing.

This diagram illustrates how the web service is used with external applications.



Using Reporting Web Services with client application

This process occurs when you use a reporting web service with a client application:

1. The client application invokes one of the service operations from the API (application programming interface) published by PeopleSoft application.
2. PeopleSoft Integration Broker receives the service operation request and validates the WS security credentials.
3. The request is passed to Application Server for processing. The Application Server authenticates the service operation and routes it to the respective handler. The handler executes the PeopleCode and sends the response to Integration Gateway.
4. Integration Broker sends the response to the client application.

WS-Security

Web services security (WS-Security) is implemented on the integration gateway for inbound and outbound integrations with third-party systems. WS-Security adds a layer of security to sending and receiving service operations by adding a UsernameToken that identifies the sender and authenticates its identity to the web service provider. On inbound processing, PeopleSoft Integration Broker can process requests received from integration partners that contain WS-Security UsernameToken and passwords in the SOAP (Simple Object Access Protocol) header of the inbound SOAP request. The user name and password should be encrypted via PKI (public key infrastructure).

Reporting Web Services are delivered as restricted services, which means that sensitive fields of the service definition and of associated service operations appear in read-only mode. Each service operation is delivered with WS Security Req (required) Verification set to *Encrypt and Digitally Sign or HTTPS*.

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Setting Up Secure Integration Environments," Implementing Web Services Security.

As delivered, reporting web service operations must be either encrypted and digitally signed or sent over HTTPS. Customers can change the security settings if desired.

Integration Broker (IB) authenticates the request in the following way:

Message Sent Over	Header Attributes	Result
HTTPS	PS-Token is present in the HTTP header.	IB authenticates message.
HTTPS	User ID and password are present in the SOAP Header.	IB authenticates message.
HTTPS	Message is encrypted and digitally signed.	IB authenticates message.
HTTP	PS-Token is present in the HTTP header.	IB rejects message.
HTTP	User ID and password are present in the SOAP header.	IB rejects message.
HTTP	Message is encrypted and digitally signed.	IB authenticates message.

Reporting web service operations require a user ID and password. If a user ID and password are not supplied in the SOAP header, Integration Broker rejects the request.

If the request is received from another PeopleSoft system, the user ID associated with the requesting PeopleSoft node is used when the SOAP header does not specify a user name.

When a request is received, PeopleSoft Integration Broker validates the user ID and password in the SOAP header to determine whether the user has the proper security to invoke the service operation requested.

Reporting Web Services Implementation

Before you can deploy a Reporting Web Service, you must configure Integration Broker:

Step	Reference
1. Configure Integration Gateway.	See <i>PeopleTools 8.52: PeopleSoft Integration Broker</i> , "Understanding PeopleSoft Integration Broker Metadata."
2. Set Service Configuration Target URL.	See <i>PeopleTools 8.52: PeopleSoft Integration Broker Administration</i> , "Configuring PeopleSoft Integration Broker for Handling Services," Using the Service Configuration Page to Set Service Configuration Properties.
3. Export the WSDL to the client application.	QAS_QRY_SERVICE is the service for Query Access Manager. PROCESSREQUEST is the service for Process Scheduler.

Chapter 2

Understanding Query Access Service

This chapter discusses:

- Query Access Service (QAS) operations
- QAS Web Service
- Use cases

Query Access Service Operations

To enable external applications to access PeopleSoft Query, a number of service operations are available. Depending on the application, the external application will need to use several service operations in combination. The service operations for QAS are part of the service QAS_QRY_SERVICE.

QAS service operations are grouped into the following categories to help describe the service operations:

- Query Creation Services (QCS)
- Query Security Services (QSS)
- Query Metadata Services (QMS)
- Query Execution Services (QES)

Note. No processing or security is dependent on the categories; they are simply groupings for describing the service operations.

Query Creation Services

Query creation services are used by client applications to create and save a new query. This table lists the Query Creation Services:

<i>Service Operation Name</i>	<i>Description</i>
QAS_RECORDS_OPER	Returns the list of records, along with descriptions, that are accessible to the user.
QAS_HIERARCHY_RECORDS_OPER	Returns the list of hierarchy records, if any, along with their descriptions.

Service Operation Name	Description
QAS_RELATED_RECORDS_OPER	Returns the list of related records of all the fields in the record.
QAS_RECORD_DEFN_OPER	Returns the definition of a given record, including field descriptions and key information.
QAS_TREES_OPER	Returns the list of PeopleSoft trees that are accessible to the user.
QAS_TREE_DETAILS_OPER	Returns the tree details, including setID, effective date, and the list of all the nodes.
QAS_FIELDS_OPER	Returns the fields from all records that are accessible to the user.
QAS_FIELD_PROPS_OPER	Returns the properties of a given field.
QAS_QUERY_DETAILS_OPER	Returns the complete details of an existing query in XML format.
QAS_SAVE_QUERY_OPER	Validates and verifies XML-format query and saves the query in the PeopleSoft database.
QAS_QUERY_DELETE_OPER	Deletes the query from the PeopleSoft database.

Query Security Services

Query security services are used to identify users and roles. This table lists the Query Security Services:

Service Operation Name	Description
QAS_AUTHTOKEN_OPER	Returns the user ID based on the PS Token passed in.
QAS_LISTROLE_OPER	Returns the list of roles, along with descriptions.
QAS_LISTUSER_OPER	Returns the list of users, along with descriptions.
QAS_LISTROLEUSERS_OPER	Returns the list of users for a given role, along with descriptions.
QAS_LISTUSERROLES_OPER	Returns the list of roles for a given user, along with descriptions.
QAS_LOGIN_OPER	Enables the client application to sign on to the PeopleSoft database.

Query Metadata Services

Query metadata services are used to extract application data from the PeopleSoft database. This table lists the Query Metadata Services:

<i>Service Operation Name</i>	<i>Description</i>
QAS_LISTQUERY_OPER	Returns the list of queries, along with the query descriptions, and owner type.
QAS_LISTQUERYPROMPTS_OPER	Returns a list of prompts used in a specific query.
QAS_LISTQUERYFIELDS_OPER	Returns a list of fields for a given query.
QAS_GETXLAT_OPER	Returns the translate value for a given field.
QAS_GETPROMPTTABLEVALUES_OPER	Returns a list of field values for a given prompt.

Query Execution Services

Query Execution Services are used to run the query from a third-party application. This table lists service operations used to execute a query:

<i>Service Operation Name</i>	<i>Description</i>
QAS_CANCELQUERY_OPER	Returns the status of query cancellation.
QAS_QUERYSTATUS_OPER	Returns query execution status.
QAS_EXECUTEQRYSYNC_OPER	Returns query result.
QAS_EXECUTEQRYASYNC_OPER	Returns query result.
QAS_EXECUTEQRYSYNCPOLL_OPER	Runs the query through process scheduler and returns the query instance ID. The service operation QAS_GETQUERYRESULTS_OPER is used to retrieve the results.
QAS_GETQUERYRESULTS_OPER	Used to return the query results when the query is executed on the PeopleSoft database using QAS_EXECUTEQRYSYNCPOLL_OPER.

QAS Web Service

This section provides an overview of the QAS web service named QAS_QRY_SERVICE and discusses:

- WSDL (Web Services Description Language) document

- Message schema
- SOAP template

Understanding QAS_QRY_SERVICE

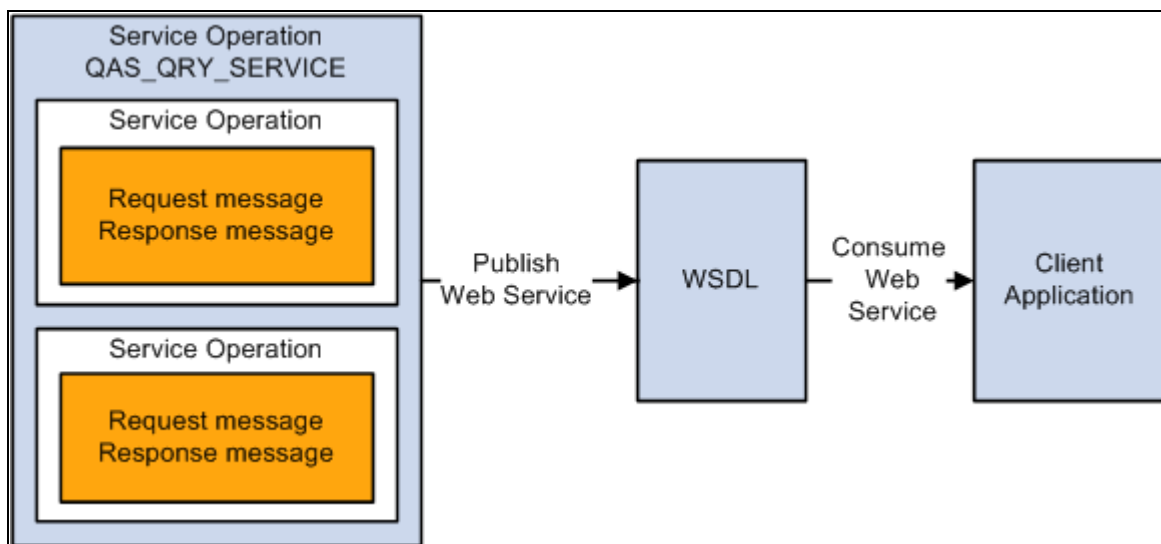
Services are used to logically group a set of service operations. The service QAS_QRY_SERVICE contains all of the service operations for QAS. When you publish a web service, a WSDL document is created containing all of the selected service operations as well as the endpoints based on the service configuration.

QAS_QRY_SERVICE is delivered as a restricted service. Only a user with the Peoplesoft Administrator role can make changes to the restricted state.

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Configuring PeopleSoft Integration Broker for Handling Services," Using the Service Configuration Page to Set Service Configuration Properties.

See *PeopleTools 8.52: PeopleSoft Integration Broker*, "Managing Services," Restricting and Enabling Write Access to Service Definitions.

This diagram illustrates how a client application consumes the web service:



Providing a web service

The published web service is stored in the WSDL Repository. Client applications consume the WSDL by accessing the WSDL URL from the repository. The WSDL for QAS_QRY_SERVICE is delivered and updated with the appropriate WSDL Repository location whenever the target location is updated on the Service Configuration page (Select PeopleTools, Integration Broker, Configuration, Service Configuration).

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Configuring PeopleSoft Integration Broker for Handling Services," Using the Service Configuration Page to Set Service Configuration Properties.

WSDL Document

To view the generated WSDL Repository for the QAS_QRY_SERVICE, click the View WSDL link on the service page (select PeopleTools, Integration Broker, Integration Setup, Services).

WSDL Repository				
Service: QAS_QRY_SERVICE				
WSDL				
WSDL: QAS_QRY_SERVICE.1 View WSDL <input checked="" type="checkbox"/> Default Last Upd Dttm: 04/07/2009 8:02:17PM				
Exported Service Operations				
Operation	Routing External Alias	Request Message	Response Message	Fault Message
QAS_AUTHTOKEN_OPER	QAS_AUTHTOKEN_OPER.VERSION_1	QAS_AUTHTOKEN_REQ_MSG.VERSION_1	QAS_AUTHTOKEN_RESP_MSG.VERSION_1	
QAS_CANCELQUERY_OPER	QAS_CANCELQUERY.VERSION_1	QAS_CANCELQUERY_REQ_MSG.VERSION_1	QAS_CANCELQUERY_RESP_MSG.VERSION_1	
QAS_EXECUTEQRYASYNC_OPER	QAS_EXECUTEQRYASYNC_OPER.VERSION_1	QAS_EXEQRY_ASYNC_REQ_MSG.VERSION_1		
QAS_EXECUTEQRYSYNCOPOLL_OPER	QAS_EXECUTEQRYSYNCOPOLL_OPER.VERSION_1	QAS_EXEQRY_SYNCOPOLL_REQ_MSG.VERSION_1	QAS_EXEQRYSYNCOPOLL_RESP_MSG.VERSION_1	
QAS_EXECUTEQRYSYNC_OPER	QAS_EXECUTEQRYSYNC.VERSION_1	QAS_EXEQRY_SYNC_REQ_MSG.VERSION_1	QAS_GETQUERYRESULTS_RESP_MSG.VERSION_1	

WSDL Repository page

All of the service operations contained in the WSDL are listed in the Exported Service Operations section. Use the View WSDL link to view the WSDL document.

Message Schema

The WSDL document is created using the request and response message schemas for each service operation. To view the message schema, select PeopleTools, Integration Broker, Integration Setup, Messages and select the message to view. Select the Schema tab to view the schema.

SOAP Template

For each service operation, you can use the Generate SOAP Template utility to generate SOAP message templates for request messages, response messages, and fault messages found in the WSDL document. The generated SOAP template will include WS-Security SOAP Header tags. You can then use the templates to test SOAP messages in your third-party application.

Note. WS-Security should be used with all QAS service operations.

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Setting Up Secure Integration Environments," Implementing Web Services Security.

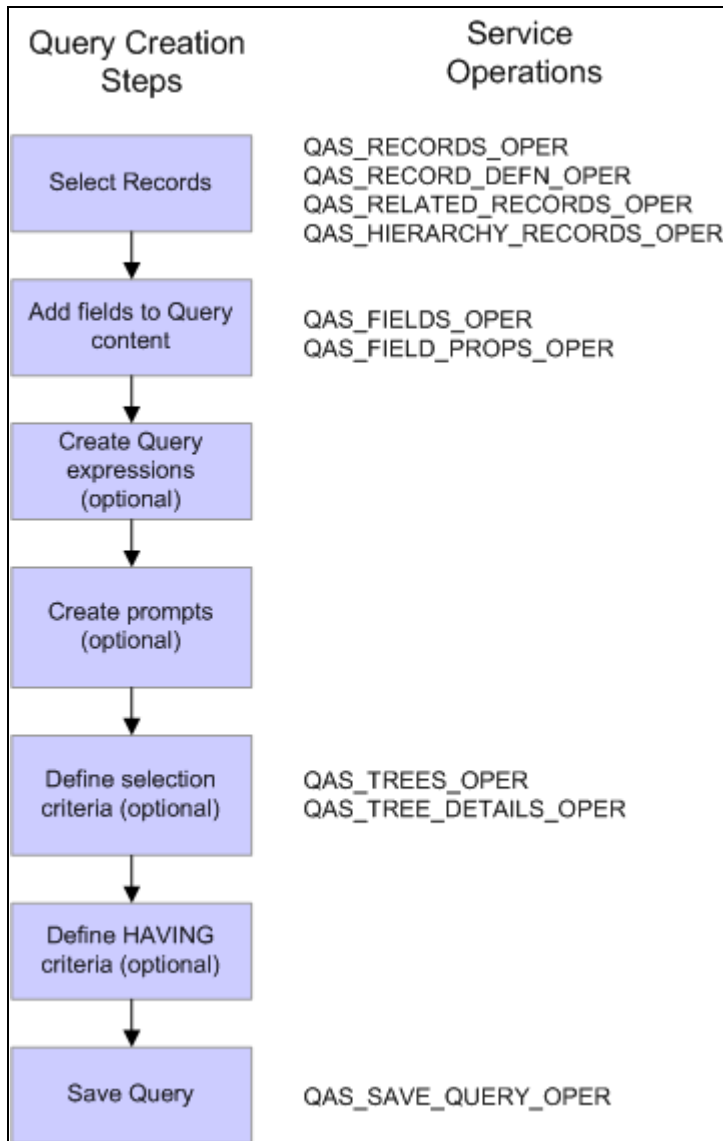
Use Cases

This section discusses the two most common use cases for QAS::

- Create a Query
- Execute a Query

Creating a Query

QAS provides several service operations that can be used by an external application to access the PeopleSoft application database to select records and fields to create a valid PeopleSoft Query. Creating a query involves several steps, some of which do not require access to the PeopleSoft records, fields, and trees and therefore do not have associated service operations. This diagram illustrates the steps and corresponding service operation that can be used to access the PeopleSoft database information:



Steps to create a query

You can use QAS_RECORDS_OPER, QAS_RECORD_DEFN_OPER, QAS_RELATED_RECORDS_OPER, and QAS_HIERARCHY_RECORDS_OPER to select records.

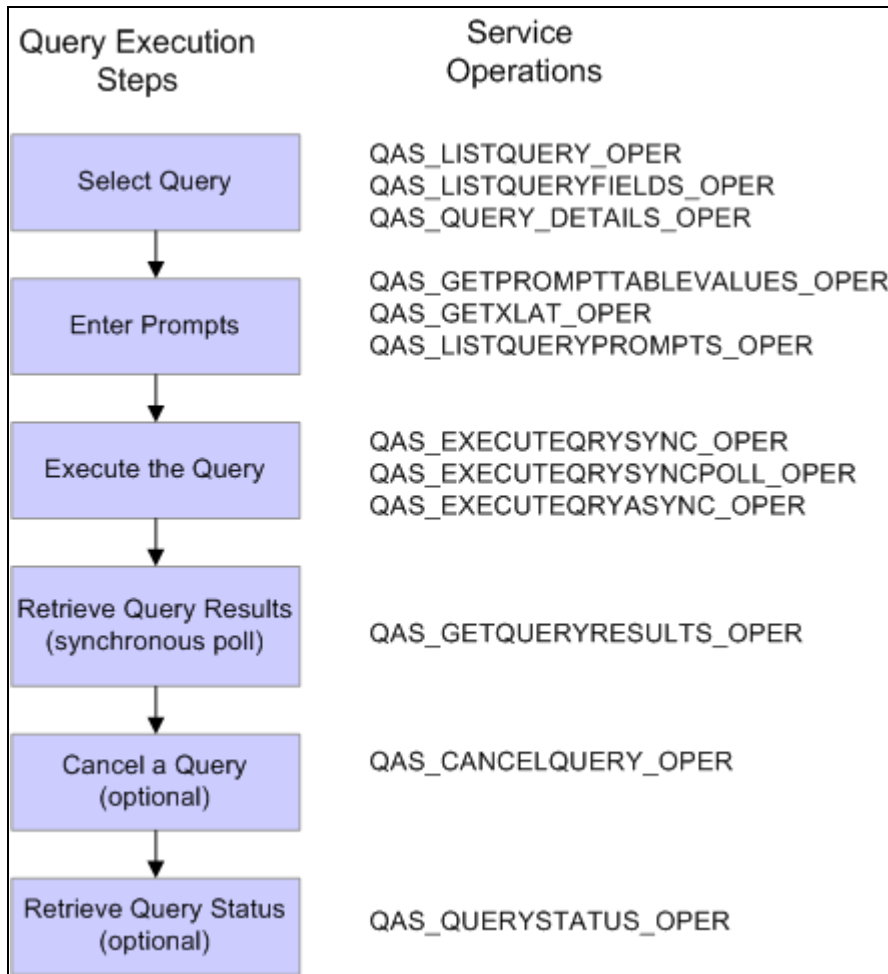
QAS_FIELDS_OPER and QAS_FIELD_PROPS_OPER can be used to help select the fields and prompts to add to the query content.

QAS_TREE_OPER and QAS_TREE_DETAILS_OPER can be used when your selection criteria uses trees.

The QAS_SAVE_QUERY_OPER is used to save a query definition to the PeopleSoft database.

Executing a Query

To execute an existing query in the PeopleSoft database, the external application will use Query Metadata Services, Query Execution Services, and possibly the Query Result Service. This diagram illustrates the steps and corresponding service operations that can be used to execute a PeopleSoft query and retrieve the results:



Steps to execute a query

To execute a query, you will need to know the query name. QAS_LISTQUERY_OPER, QAS_LISTQUERYFIELDS_OPER, and QAS_QUERY_DETAILS_OPER can be used to help select the query name.

For queries containing prompts, use QAS_GETPROMPTTABLEVALUES_OPER, QAS_GETXLAT_OPER, and QAS_LISTQUERYPROMPTS_OPER to identify the prompts and obtain a list of values.

You can also filter fields to be returned in the query results using QAS_LISTQUERYFIELDS_OPER.

You can select how you want to execute the query and use the appropriate service operation.

For synchronous poll execution, you will use QAS_GETQUERYRESULTS_OPER to retrieve the results.

You can invoke `QAS_CANCELQUERY_OPER` after obtaining the query result to clean up the `PSQASRUN` and `IB` tables.

You can check the query status using `QAS_QUERYSTATUS_OPER`.

Chapter 3

Creating a Query

This chapter provides an overview of the query creation process and discusses the service operations used to:

- Select records.
- Add fields to query content.
- Define selection criteria.
- Delete a query.
- Save a query.

Understanding the Query Creation Process

A third-party application will create a PeopleSoft query using the same basic steps as an online PeopleSoft user. In the process of creating the query, you will need to integrate with the PeopleSoft system to access records and fields, as well as save the query in the PeopleSoft database. This table lists the steps to create and save the query.

Steps	Description
1. Select records.	QAS service operations are available to select the records from the PeopleSoft database. Query security is enforced and only records available to the user ID provided in the request will be returned.
2. Add fields to the query.	QAS service operations are available to select fields and field properties from the PeopleSoft database.
3. Create query expressions (optional).	The third-party application will create any expressions necessary for the query.
4. Create Prompts (optional).	The third-party application will create any prompts necessary for the query.
5. Define selection criteria (optional).	The third-party application will create the selection criteria necessary for the query. QAS provides service operations for accessing tree information that can be used in the selection criteria.
6. Define HAVING criteria (optional).	The third-party application will create any HAVING criteria necessary for the query.

Steps	Description
7. Save the query.	Once the third-party has defined the query, the QAS service operation for saving the query is used to save the query in the PeopleSoft database.

Note. Creating connected queries is not supported in QAS.

Note. Updating queries is not supported in QAS.

Common Elements in Service Operations Requests

The following guidelines apply across all QAS requests:

- All requests should contain a SOAP header containing user ID and password.
- All search strings use the Begins with criterion.
- Parameters are case-insensitive, unless specifically noted or specific enumeration values are listed.
- All elements are required, unless specifically noted. Even if no value is necessary, the element must be included in the request.
- Values are required in the element, unless specifically noted.
- Leading and trailing blanks are not allowed in XML values.

Note. All examples are shown without the SOAP header. For information about the SOAP header, refer to "Accessing PeopleSoft Application Tables."

See Also

[Chapter 5, "Accessing PeopleSoft Application Tables," WS-Security, page 106](#)

Building a Sample Query Using QAS

This chapter includes a sample request and response message for each of the service operations you will use to build a query. Most of the examples will use message catalog entries. The tables are:

- PSMSGSETDEFN – Message Sets
- PSMSGCATDEFN – Message Catalog

Selecting Records

This section describes the service operations that are available for selecting records. These include:

- QAS_RECORDS_OPER
- QAS_RECORD_DEFN_OPER
- QAS_HIERARCHY_RECORDS_OPER
- QAS_RELATED_RECORDS_OPER

QAS_RECORDS_OPER

Use this service operation to select a list of records, along with the descriptions that you can access.

Request Message: QAS_RECORDS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
SEARCH_STRING Required element	Search string used for specifying the name or the first few characters of the search criterion definition name. If no value is entered, a list of all accessible records will be returned. Note. For field names, QAS does not interpret the underscore as a wildcard. For example, if you enter <i>NODE_</i> and <i>FieldName</i> for the SEARCH_CRITERION, QAS will retrieve records that contain fields such as <i>NODE_TYPE</i> and not <i>NODECOUNT</i> .
SEARCH_CRITERION Required element	Valid search criteria are: <ul style="list-style-type: none"> • RecordName • FieldName • Description In the SEARCH_STRING element, enter the record name, field name, or description. Record name is the default criterion.

Example Request:

This request will return a list of records that start with *PSMSGC*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_RECORDS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_RECORDS_REQ_MSG>
      <SEARCH_STRING>PSMSGC</SEARCH_STRING>
      <SEARCH_CRITERION>RecordName</SEARCH_CRITERION>
    </qas:QAS_RECORDS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_RECORDS_RESP_MSG

Element Name	Description
RECORD_NAME	Record name.
RECORD_DESCRIPTION	Record description.
INFORMATION_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no records meet the criteria, a message indicating the error is returned.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_RECORDS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise
/Tools/schemas/QAS_RECORDS_RESP_MSG.VERSION_1">
      <RECORD>
        <RECORD_NAME>PSMSGCATDEFN</RECORD_NAME>
        <RECORD_DESCRIPTION>Message Catalog</RECORD_DESCRIPTION>
      </RECORD>
    </qcs:QAS_RECORDS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_RECORD_DEFN_OPER

Use this service operation to return the definition of a given record, including field descriptions and key information.

Request Message: QAS_RECORD_DEFN_REQ_MSG

Element Name	Description
RECORD_NAME Required element	Complete record name. Required.

Example Request:

This request will return the record definition for *PSMSGCATDEFN*.


```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_RECORD_DEFN_REQ_MSG.VERISON_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_RECORD_DEFN_REQ_MSG>
      <RECORD_NAME>pmsgcatdefn</RECORD_NAME>
    </qas:QAS_RECORD_DEFN_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_RECORD_DEFN_RESP_MSG

Element Name	Description
RECORD_NAME	Record name.
FIELD_NAME	Field name.
FIELD_DESCRIPTION	Field description.
KEY	Indicates whether this field is a key; value will be <i>Yes</i> or <i>No</i> .
FIELD_TYPE	Field type.
FIELD_LENGTH	Field length.
FIELD_LOOKUP_TABLE	Prompt table name, if applicable.
FIELD_EDIT_TYPE	<p>Field edit type is a 32-bit binary number. Counting from 1 from the right, a 1 in bit 10 indicates translate values, a 1 in bit 14 indicates a yes/no table, and a 1 in bit 15 indicates a prompt table. Client applications need to do bit-wise AND on this value.</p> <p>For example, the value 2337 represents:</p> <ul style="list-style-type: none"> • Key = 1 • Search item = 2048 • List item = 32 • Required = 256 <p>See <i>PeopleTools 8.52: PeopleCode API Reference</i>, "Query Classes," Flag.</p>
FIELD_SHORT_NAME	Short name.
FIELD_LONG_NAME	Long name.
INFORMATION_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no records meet the criteria, a message indicating the error is returned.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_RECORD_DEFN_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_RECORD_DEFN_RESP_MSG.VERSION_1">
      <RECORD_NAME>PSMSGCATDEFN</RECORD_NAME>
      <FIELD>
        <FIELD_NAME>MESSAGE_SET_NBR</FIELD_NAME>
        <FIELD_DESCRIPTION>Message Set Number</FIELD_DESCRIPTION>
        <KEY>Yes</KEY>
        <FIELD_TYPE>Number</FIELD_TYPE>
        <FIELD_LENGTH>5</FIELD_LENGTH>
        <FIELD_LOOKUP_TABLE/>
        <FIELD_EDIT_TYPE>2337</FIELD_EDIT_TYPE>
        <FIELD_SHORT_NAME>Set</FIELD_SHORT_NAME>
        <FIELD_LONG_NAME>Message Set Number</FIELD_LONG_NAME>
      </FIELD>
      <FIELD>
        <FIELD_NAME>MESSAGE_NBR</FIELD_NAME>
        <FIELD_DESCRIPTION>Message Number</FIELD_DESCRIPTION>
        <KEY>Yes</KEY>
        <FIELD_TYPE>Number</FIELD_TYPE>
        <FIELD_LENGTH>5</FIELD_LENGTH>
        <FIELD_LOOKUP_TABLE/>
        <FIELD_EDIT_TYPE>2337</FIELD_EDIT_TYPE>
        <FIELD_SHORT_NAME>Msg</FIELD_SHORT_NAME>
        <FIELD_LONG_NAME>Message Number</FIELD_LONG_NAME>
      </FIELD>
      <FIELD>
        <FIELD_NAME>MESSAGE_TEXT</FIELD_NAME>
        <FIELD_DESCRIPTION>Message Text</FIELD_DESCRIPTION>
        <KEY>No</KEY>
        <FIELD_TYPE>Character</FIELD_TYPE>
        <FIELD_LENGTH>100</FIELD_LENGTH>
        <FIELD_LOOKUP_TABLE/>
        <FIELD_EDIT_TYPE>33554720</FIELD_EDIT_TYPE>
        <FIELD_SHORT_NAME>Message</FIELD_SHORT_NAME>
        <FIELD_LONG_NAME>Message Text</FIELD_LONG_NAME>
      </FIELD>
      . . . . .
    </qcs:QAS_RECORD_DEFN_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

QAS_HIERARCHY_RECORDS_OPER

Use this service operation to return the list of hierarchy records, if any, along with their descriptions for the requested record.

Request Message: QAS_HIERARCHY_RECORDS_REQ_MSG

Element Name	Description
RECORD_NAME Required element	Complete record name. Required.

Example Request:

This request will return a list of all hierarchy records for *PSMSGCATDEFN*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_HIERARCHY_RECORDS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_HIERARCHY_RECORDS_REQ_MSG>
      <RECORD_NAME>PSMSGCATDEFN</RECORD_NAME>
    </qas:QAS_HIERARCHY_RECORDS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_HIERARCHY_RECORDS_RESP_MSG

Element Name	Description
RECORD_NAME	Record name.
RECORD_DESCRIPTION	Record description.
INFORMATION_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no records meet the criteria, a message indicating the error is returned.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_HIERARCHY_RECORDS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_HIERARCHY_RECORDS_RESP_MSG.VERSION_1">
      <RECORD>
        <RECORD_NAME>PSMSGSETDEFN</RECORD_NAME>
        <RECORD_DESCRIPTION>Message Sets</RECORD_DESCRIPTION>
      </RECORD>
      <RECORD>
        <RECORD_NAME>PSMSGCATDEFN</RECORD_NAME>
        <RECORD_DESCRIPTION>Message Catalog</RECORD_DESCRIPTION>
      </RECORD>
      <RECORD>
        <RECORD_NAME>MSG_CAT_VW</RECORD_NAME>
        <RECORD_DESCRIPTION>Message Catalog Trans. View</RECORD_DESCRIPTION>
      </RECORD>
    </qcs:QAS_HIERARCHY_RECORDS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_RELATED_RECORDS_OPER

Use this service operation to return a list of related records for all the fields in the requested record.

Request Message: QAS_RELATED_RECORDS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
RECORD_NAME Required element	Complete record name. Required.

Example Request :

This request will return a list of all the related records for *QE_EMPLOYEE*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_RELATED_RECORDS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_RELATED_RECORDS_REQ_MSG>
      <RECORD_NAME>QE_EMPLOYEE</RECORD_NAME>
    </qas:QAS_RELATED_RECORDS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_RELATED_RECORDS_RESP_MSG

<i>Element Name</i>	<i>Description</i>
FIELD_NAME	Field for which a related record exists.
RELATED_RECORD_NAME	Record name.
RELATED_RECORD_DESCRIPTION	Record description.
INFORMATION_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no records meet the criteria, a message indicating the error is returned.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_RELATED_RECORDS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com⇒
/Enterprise/Tools/schemas/QAS_RELATED_RECORDS_RESP_MSG.VERSION_1">
      <FIELD>
        <FIELD_NAME>QE_JOBCODE</FIELD_NAME>
        <RELATED_RECORD_NAME>QE_JOBCODE_TBL</RELATED_RECORD_NAME>
        <RELATED_RECORD_DESCRIPTION>JobCode Table</RELATED_RECORD_DESCRIPTION>
      </FIELD>
      <FIELD>
        <FIELD_NAME>DEPTID</FIELD_NAME>
        <RELATED_RECORD_NAME>QE_DEPT_TBL</RELATED_RECORD_NAME>
        <RELATED_RECORD_DESCRIPTION>QE Data Department Table</RELATED_RECORD_⇒
DESCRIPTION>
      </FIELD>
    </qcs:QAS_RELATED_RECORDS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Adding Fields to Query Content

This section describes the service operations that are available for adding fields to a query. These include:

- QAS_FIELDS_OPER
- QAS_FIELDS_PROPS_OPER

QAS_FIELDS_OPER

Use this service operation to return the fields from all records that the user can access.

Request Message: QAS_FIELDS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
SEARCH_STRING Required element	Search string used for specifying the field name or the first few characters of the field name. If a string is not entered, fields from all records that are the user can access will be returned.

Example Request:

This request will return all the fields that start with *MESSAGE_N*.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_FIELDS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_FIELDS_REQ_MSG>
      <SEARCH_STRING>MESSAGE_N</SEARCH_STRING>
    </qas:QAS_FIELDS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_FIELDS_RESP_MSG

<i>Element Name</i>	<i>Description</i>
FIELD_NAME	Field name.
INFO_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no fields meet the criteria, a message indicating the error is returned.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_FIELDS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_FIELDS_RESP_MSG.VERSION_1">
      <FIELD_NAME>MESSAGE_NBR</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR01</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR02</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR03</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR04</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR05</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR06</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR07</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR08</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR09</FIELD_NAME>
      <FIELD_NAME>MESSAGE_NBR10</FIELD_NAME>
    </qcs:QAS_FIELDS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

QAS_FIELD_PROPS_OPER

Use this service operation to return the properties of a given field.

Request Message: QAS_FIELD_PROPS_REQ_MSG

Element Name	Description
FIELD_NAME Required element	Complete field name. Required.

Example Request:

This request message will return the details for field *MESSAGE_NBR*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_FIELD_PROPS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_FIELD_PROPS_REQ_MSG>
      <FIELD_NAME>MESSAGE_NBR</FIELD_NAME>
    </qas:QAS_FIELD_PROPS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_FIELD_PROPS_RESP_MSG

Element Name	Description
FIELD_NAME	Field name.
FIELD_DESCRIPTION	Field description.
FIELD_TYPE	Field type. Valid values are: <ul style="list-style-type: none"> • Date • Time • Datetime • Character • Long Character • Number • Signed Number • Image • Image Reference • File

<i>Element Name</i>	<i>Description</i>
FIELD_FORMAT	Field format. Valid values are: <ul style="list-style-type: none">• None• Name• Phone• Zip Code• Social Security Number• Upper• Mixed Case• Century• Numbers Only• Social Insurance Number• International Phone Number• International Postal Code• Seconds• Microseconds• Century/Seconds• Century/Microseconds
FIELD_LENGTH	Field length.
FIELD_DECIMALS	Number of decimal positions.
FIELD_SHORT_NAME	Field's short name.
FIELD_LONG_NAME	Field's long name.

Example Response:


```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_FIELD_PROPS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_FIELD_PROPS_RESP_MSG.VERSION_1">
      <PROPERTY>
        <FIELD_NAME>MESSAGE_NBR</FIELD_NAME>
        <FIELD_DESCRIPTION>Message Number</FIELD_DESCRIPTION>
        <FIELD_TYPE>Number</FIELD_TYPE>
        <FIELD_FORMAT>None</FIELD_FORMAT>
        <FIELD_LENGTH>5</FIELD_LENGTH>
        <FIELD_DECIMALS>0</FIELD_DECIMALS>
        <FIELD_SHORT_NAME>Msg</FIELD_SHORT_NAME>
        <FIELD_LONG_NAME>Message Number</FIELD_LONG_NAME>
      </PROPERTY>
    </qcs:QAS_FIELD_PROPS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Defining Selection Criteria

This section describes the service operations that are available for working with trees in the selection criteria. These include:

- QAS_TREES_OPER
- QAS_TREE_DETAILS_OPER

QAS_TREES_OPER

This service operation returns the list of PeopleSoft trees that are accessible to the user.

Request Message: QAS_TREES_REQ_MSG

<i>Element Name</i>	<i>Description</i>
SEARCH_STRING Required element	Complete tree name or the first few letters of the name. If no value is entered, a list of all accessible tress will be returned.

Example Request:

This request returns all trees that start with *QE_J*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_TREES_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_TREES_REQ_MSG>
      <SEARCH_STRING>QE_J</SEARCH_STRING>
    </qas:QAS_TREES_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_TREES_RESP_MSG

Element Name	Description
TREE_NAME	Tree name.
TREE_DESCRIPTION	Tree description.
TREE_SET_ID	Set ID.
TREE_SET_CONTROL_VALUE	Set control value.
TREE_EFFECTIVE_DATE	Effective date.
INFO_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no trees meet the criteria, a message indicating the error is returned.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_TREES_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_TREES_RESP_MSG.VERSION_1">
      <TREE>
        <TREE_NAME>QE_JOB_CODES</TREE_NAME>
        <TREE_DESCRIPTION>JobCodes</TREE_DESCRIPTION>
        <TREE_SET_ID/>
        <TREE_SET_CONTROL_VALUE/>
        <TREE_EFFECTIVE_DATE>1999-01-01</TREE_EFFECTIVE_DATE>
      </TREE>
    </qcs:QAS_TREES_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_TREE_DETAILS_OPER

This service operation returns the tree details for a specific tree.

Request Message: QAS_TREE_DETAILS_REQ_MSG

Element Name	Description
TREE_NAME Required element	Complete tree name. Required.
TREE_SET_ID Required element	SetID. Required.
TREE_SET_CONTROL Required element	Set control value. Required.
TREE_EFFECTIVE_DATE Required element	Effective date in YYYY-MM-DD format. Required.
INFO_MESSAGE	Returns information about the request. For example if the criterion in the request is incorrect or if no trees meet the criteria, a message indicating the error is returned.

Example Request:

This is an example of a request to retrieve tree details for the tree *QE_JOBCODES*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_TREE_DETAILS_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_TREE_DETAILS_REQ_MSG>
      <TREE_NAME>QE_JOBCODES</TREE_NAME>
      <TREE_SET_ID/>
      <TREE_SET_CONTROL/>
      <TREE_EFFECTIVE_DATE>1999-01-01</TREE_EFFECTIVE_DATE>
    </qas:QAS_TREE_DETAILS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_TREE_DETAILS_RESP_MSG

Element Name	Description
TREE_NAME	Tree name.
NODE_NAME	Tree node name.
NODE_DESCRIPTION	Tree node description.
NODE_LEVEL	Tree node level.
PARENT_NODE	Parent node.

Example response:

This response is very long, so only a portion is shown.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_TREE_DETAILS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_TREE_DETAILS_RESP_MSG.VERSION_1">
      <TREE_NAME>QE_JOBCODES</TREE_NAME>
      <NODE>
        <NODE_LEVEL>1</NODE_LEVEL>
        <NODE_NAME>ALL_JOBS</NODE_NAME>
        <NODE_DESCRIPTION>All Job Codes</NODE_DESCRIPTION>
      </NODE>
      <NODE>
        <NODE_LEVEL>2</NODE_LEVEL>
        <NODE_NAME>EXECUTIVE</NODE_NAME>
        <NODE_DESCRIPTION>Executive</NODE_DESCRIPTION>
        <PARENT_NODE>ALL_JOBS</PARENT_NODE>
      </NODE>
      <NODE>
        <NODE_LEVEL>3</NODE_LEVEL>
        <NODE_NAME>VP</NODE_NAME>
        <NODE_DESCRIPTION>Vice President</NODE_DESCRIPTION>
        <PARENT_NODE>EXECUTIVE</PARENT_NODE>
      </NODE>
      ...
    </qcs:QAS_TREE_DETAILS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Deleting a Query

QAS provides a service operation to delete a query in the PeopleSoft database. Query security will allow only authorized users to delete a query. Only the query owner can delete a private query.

Note. Connected queries cannot be deleted using QAS.

QAS_QUERY_DELETE_OPER

This service operation is used to delete an existing query.

Request Message: QAS_QUERY_DELETE_REQ_MSG

<i>Element Name</i>	<i>Description</i>
QUERY_NAME Required element	Complete query name. Required.

Example Request:

This is an example of a request to delete the query *MGR_TEST*.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_DELETE_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_DELETE_REQ_MSG>
      <QUERY_NAME>MGR_TEST</QUERY_NAME>
    </qas:QAS_QUERY_DELETE_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_QUERY_DELETE_RESP_MSG

Element Name	Description
STATUS	Status of the delete operation, either <i>Success</i> or <i>Failure</i> .
INFO_MESSAGE	If the status is <i>Failure</i> , the reason for the failure is indicated.

Saving a Query

QAS provides a service operation to save the query in the PeopleSoft application database. The save query request must contain a name and at least one select, one record, and one field.

QAS_SAVE_QUERY_OPER

This service operation validates and verifies XML-format query and saves the query in the PeopleSoft database.

Request Message: QAS_QUERY_SAVE_REQ_MSG

This message has several groupings, and depending on the specific query, some groupings may appear multiple times, while other groupings do not apply. The elements are listed here in groups.

<Records> Every request must contain at least one record. For each record, indicate the elements.

Records Elements <i>All element tags are required if, unless indicated otherwise</i>	Description <i>All element values are required except where noted</i>
RCDNUM	Record number.
RCDNAME	Record name.
CORRNAME	Alias name such as <i>A,B,C</i> , and so on.

Records Elements <i>All element tags are required if, unless indicated otherwise</i>	Description <i>All element values are required except where noted</i>
JOINTYPE	Type of join. Valid values are: <ul style="list-style-type: none"> • None • Hierarchy • Related • Tree • LeftOuter • RelatedLeftOuter Value is required only when the corresponding record is part of a JOIN in the query
JOINRCDALIAS	Record with which join is done. Value is required only when the corresponding record is part of a JOIN in the query.
JOINFIELD	Field with which join is done. Value is required only when the corresponding record is part of a JOIN in the query.
RCDSELECTNUM	Select number.

<Fields> The request must contain at least one field. For each field, indicate the elements:

Fields Elements <i>All element tags are required if, unless indicated otherwise</i>	Description <i>All element values are required except where noted</i>
FIELDNUM	Field number.
FIELDNAME	Field name. When an expression is used as a field, the expression name is used for the field name and the value entered for this element is ignored.
FIELDRCDDNUM	Record number. This element is ignored when an expression is used as a field.
DESCR Not Required.	Description. Value is not required.

Fields Elements <i>All element tags are required if, unless indicated otherwise</i>	Description <i>All element values are required except where noted</i>
AGGREGATE_TYPE	Aggregation type. Valid values are: <ul style="list-style-type: none"> • Sum • Count • Min • Max • Average • None
HEADING_TYPE	Heading type. Valid values are: <ul style="list-style-type: none"> • None • Text • RFT Short • RFT Long <p>Note. If an expression is used as a field, the only valid value is <i>Heading</i>.</p>
HEADING	If the HEADING_TYPE is <i>Text</i> , this element is used to enter the heading text. <p>Note. Value is required when the HEADING_TYPE value is <i>Text</i>. The default heading for an expression used as a field is the expression text.</p>
COLUMNNUM	Column number.
ORDERBYNUM	Order by number.
ORDERBYDIR	Direction of field ordering. Valid values are: <ul style="list-style-type: none"> • Ascending • Descending <p>Note. Value is not required, the default is Ascending.</p>
FIELDSELECTNUM	Identifier of SELECT in which this field is included.
EXPRESSION_AS_FIELD	Specify a valid expression number in order to use an expression as a field. For regular fields, leave this element blank.

<Criteria> If the query contains criteria, all criteria elements are required. For each criteria, indicate the elements.

Criteria Elements <i>All element tags are required to define criteria</i>	Description <i>All element values are required except where noted</i>
CRTNUM	Criterion number.
CRTNAME	Criterion name.
CRTHAVINGFLAG	True if specifying a HAVING clause. Valid values are: <ul style="list-style-type: none"> • True • False Note. Value is not required; the default is <i>False</i> .
CRTSELECTNUM	Identifier for the SELECT for this criterion.
CRTNEGATION	Negation in criterion. Valid values are: <ul style="list-style-type: none"> • True • False Note. This is the equivalent of NOT in a SQL statement.

Criteria Elements <i>All element tags are required to define criteria</i>	Description <i>All element values are required except where noted</i>
CONDITION_TYPE	Condition type in criterion. Valid values are: <ul style="list-style-type: none"> • none • between • not between • equal to • not equal to • exists • not exists • greater than • not greater than • in list • not in list • in tree • not in tree • is null • not is null • less than • not less than • like • not like • EffDate less than or equal to • EffDate greater than or equal to • EffDate less than • EffDate greater than • First EffDate • Last EffDate • in tree join
LEFT_PARENTHESIS_LEVEL	Left parenthesis level specified from 0 onwards. Used for GROUP BY.

Criteria Elements <i>All element tags are required to define criteria</i>	Description <i>All element values are required except where noted</i>
RIGHT_PARENTHESIS_LEVEL	Right parenthesis level specified from 0 onwards. Used for GROUP BY.
CRTEXP1TYPE	Expression 1 type in criterion. Valid values are: <ul style="list-style-type: none"> Field Expression
CRTEXP1TEXT	Expression text for criterion 1.
CRTEXP1NUM	Expression number for the criteria.
CRTEXP1RCDALIAS	Alias for record used in expression 1 criterion. Used when CRTEXP1TYPE is <i>Field</i> . Alias name, such as <i>A,B,C</i> , and so on.
CRTEXP1FIELD	Field used in expression 1 criterion. Used when CRTEXP1TYPE is <i>Field</i> .
CRTEXP2RCDALIAS	Alias for record used in expression 2 criterion. Used when CRTEXP2TYPE is <i>Field</i> .
CRTEXP2FIELD	Field used in expression 2.

Criteria Elements <i>All element tags are required to define criteria</i>	Description <i>All element values are required except where noted</i>
CRTEXP2TYPE	<p>Expression 2 type in criterion. Valid values are:</p> <ul style="list-style-type: none"> • Field • Expression • Constant • Prompt • Subquery • List • Const-Const • Const-Field • Const-Expr • Field-Const • Field-Field • Field-Expr • Expr-Const • Expr-Field • Expr-Expr
CRTEXP2TEXT	Expression 2 text is used to specify lists in A,B,C,D format, trees in string format, and prompt numbers.
CRTLOGICALOPER	<p>Logical operator that links the criteria. Valid values are:</p> <ul style="list-style-type: none"> • AND • OR • not used
CRT_BELONGSTO	<p>If the criteria is for an outer join, you must indicate the correlation name (alias) that this criteria belongs to.</p> <p>Note. This element is used for a query that contains an Outer Join. For others, value for this element is null.</p>

<Expressions> If a query contains expressions, all expression elements are required. For each expression, indicate the elements.

Expressions Elements <i>All element tags are required to define expression</i>	Description <i>All element values are required except where noted</i>
EXPNUM	Expression number.
EXPSELECTNUM	Identifier of SELECT number for this expression.
EXPNAME	Expression name.
EXPTYPE	Expression type. Valid values are: <ul style="list-style-type: none"> • Character • Date • Datetime • Drilling URL • Long Character • Number • Signed Number • Time • Image
EXPLENGTH	Expression length.
EXPDECIMALPOS	Number of decimal places in the expression.
EXPTEXT	Expression text.
EXPAGGREGATE	Specifies whether the expression is an aggregate function.

<Prompts> If the query contains prompts, all prompt elements are required.

Prompts Elements <i>All element tags are required to define prompt</i>	Description <i>All element values are required except where noted</i>
PROMPT_NUM	Prompt number.
PROMPT_NAME	Prompt name.
PROMPT_UNIQUE_NAME	Unique prompt name. Note. This value is not required; however, the client application is responsible for ensuring that all default prompt names are unique.
PROMPT_FLDNAME	Name of the field used as prompt.

Prompts Elements <i>All element tags are required to define prompt</i>	Description <i>All element values are required except where noted</i>
PROMPT_TABLE	Name of the prompt table.
PROMPT_EDITTYPE	Edit type. Valid values are: <ul style="list-style-type: none"> • No table edit • Prompt table • Translate table • Yes/No table
PROMPT_HEADING	Heading used for the prompt.
PROMPT_HEADINGTYPE	Type of prompt heading. Valid values are: <ul style="list-style-type: none"> • RFT Long • RFT Short • Text
PROMPT_FLDLENGTH	Field length for prompt.
PROMPT_FLDDECIMALPOS	Number of decimal positions in prompt.

<Select> The request must contain at least one select. For each select, indicate the elements.

Select Elements <i>All elements are required.</i>	Description <i>All element values are required except where noted</i>
SELECTNUM	SELECT number.
PARENTSELECTNUM	Number of parent SELECT. For main SELECT, this must be set to 0.
SELECTTYPE	Type of selection. Valid values are: <ul style="list-style-type: none"> • Main • Union • Subquery
QRYDISTINCT	Indicates whether this query is distinct. Valid values are: <ul style="list-style-type: none"> • True • False <p>Note. Value is not required; the default is <i>False</i>.</p>

<Properties> The request must contain the properties that define the query. Indicate the property elements for the query.

Properties Elements <i>All element tags are required</i>	Description <i>All element values are required except where noted</i>
QUERY_NAME	Query name.
DESCRIPTION	Short description. Optional.
DESCRLONG	Long description. Optional.
QUERY_OWNER	Indicate the query owner. Valid values are: <ul style="list-style-type: none"> Public Private Note. If the query owner is not specified, the save will fail.

Depending on the complexity of the query, many different variations are available. Refer to the following sample queries.

Response Message: QAS_QUERY_SAVE_RESP_MSG

Element Name	Description
STATUS	Status of the save operation, either <i>Success</i> or <i>Failure</i> .
INFO_MESSAGE	Returns information about the save operation.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_QUERY_SAVE_RESP_MSG xmlns:qcs="http://xmlns.oracle.com/Enterprise
/Tools/schemas/QAS_QUERY_SAVE_RESP_MSG.VERSION_1">
      <INFO_MESSAGE>Query TEST1 saved successfully.</INFO_MESSAGE>
    </qcs:QAS_QUERY_SAVE_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Simple Query Example

This is an example of a simple query TEST1 that has two columns. In this example, no criteria, expressions, or prompts exist. The SQL for this query is:

```
SELECT A.MESSAGE_SET_NBR, A.DESCR
FROM PMSGSETDEFN A
```

SOAP document:

```

soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ_⇒
MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>PSMSGSETDEFN</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>MESSAGE_set_nbr</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>1</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>descr</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
    </qas:QAS_QUERY_SAVE_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Query Using Prompts Example

This is an example of a query using two prompts, `NODE_TYPE` uses the translate table and `PORTAL_NAME` uses a prompt table. The SQL for this query is:

```
SELECT A.MSGNODENAME, A.VERSION, A.NODE_TYPE, A.PORTAL_NAME
FROM   PMSGNODEDEFN A
WHERE  A.NODE_TYPE = :1
       AND A.PORTAL_NAME = :2
```

SOAP document:


```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>PSMSGNODEDEFN</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>MSGNODENAME</FIELDNAME>
        <FIELDRCDNUM>1</FIELDRCDNUM>
        <DESCR>Message Node Name</DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>VERSION</FIELDNAME>
        <FIELDRCDNUM>1</FIELDRCDNUM>
        <DESCR>Version</DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>3</FIELDNUM>
        <FIELDNAME>node_type</FIELDNAME>
        <FIELDRCDNUM>1</FIELDRCDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>3</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>4</FIELDNUM>
        <FIELDNAME>PORTAL_NAME</FIELDNAME>
        <FIELDRCDNUM>1</FIELDRCDNUM>

```

```

<DESCR>Portal</DESCR>
<AGGREGATE_TYPE>None</AGGREGATE_TYPE>
<HEADING_TYPE>RFT Long</HEADING_TYPE>
<HEADING></HEADING>
<COLUMNNUM>4</COLUMNNUM>
<ORDERBYNUM>0</ORDERBYNUM>
<ORDERBYDIR></ORDERBYDIR>
<FIELDSELECTNUM>1</FIELDSELECTNUM>
<EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
</FIELD>
<!--Zero or more repetitions:-->
<CRITERION>
  <CRTNUM>1</CRTNUM>
  <CRTNAME>1</CRTNAME>
  <CRTHAVINGFLAG>False</CRTHAVINGFLAG>
  <CRTSELECTNUM>1</CRTSELECTNUM>
  <CRTNEGATION>False</CRTNEGATION>
  <CONDITION_TYPE>equal to</CONDITION_TYPE>
  <LEFT_PARENTHESIS_LEVEL>0</LEFT_PARENTHESIS_LEVEL>
  <RIGHT_PARENTHESIS_LEVEL>0</RIGHT_PARENTHESIS_LEVEL>
  <CRTEXP1TYPE>Field</CRTEXP1TYPE>
  <CRTEXP1TEXT></CRTEXP1TEXT>
  <CRTEXP1NUM></CRTEXP1NUM>
  <CRTEXP1RCDALIAS>A</CRTEXP1RCDALIAS>
  <CRTEXP1FIELD>NODE_TYPE</CRTEXP1FIELD>
  <CRTEXP2RCDALIAS></CRTEXP2RCDALIAS>
  <CRTEXP2FIELD></CRTEXP2FIELD>
  <CRTEXP2TYPE>prompt</CRTEXP2TYPE>
  <CRTEXP2TEXT>:1</CRTEXP2TEXT>
  <CRTLOGICALOPER>not used</CRTLOGICALOPER>
</CRITERION>
<CRITERION>
  <CRTNUM>2</CRTNUM>
  <CRTNAME>2</CRTNAME>
  <CRTHAVINGFLAG>False</CRTHAVINGFLAG>
  <CRTSELECTNUM>1</CRTSELECTNUM>
  <CRTNEGATION>False</CRTNEGATION>
  <CONDITION_TYPE>equal to</CONDITION_TYPE>
  <LEFT_PARENTHESIS_LEVEL>0</LEFT_PARENTHESIS_LEVEL>
  <RIGHT_PARENTHESIS_LEVEL>0</RIGHT_PARENTHESIS_LEVEL>
  <CRTEXP1TYPE>Field</CRTEXP1TYPE>
  <CRTEXP1TEXT></CRTEXP1TEXT>
  <CRTEXP1NUM></CRTEXP1NUM>
  <CRTEXP1RCDALIAS>A</CRTEXP1RCDALIAS>
  <CRTEXP1FIELD>portal_name</CRTEXP1FIELD>
  <CRTEXP2RCDALIAS></CRTEXP2RCDALIAS>
  <CRTEXP2FIELD></CRTEXP2FIELD>
  <CRTEXP2TYPE>prompt</CRTEXP2TYPE>
  <CRTEXP2TEXT>:2</CRTEXP2TEXT>
  <CRTLOGICALOPER>not used</CRTLOGICALOPER>
</CRITERION>
<!--Zero or more repetitions:-->
<PROMPT>
  <PROMPT_NUM>1</PROMPT_NUM>
  <PROMPT_NAME>NodeType</PROMPT_NAME>
  <PROMPT_UNIQUE_NAME>BIND1</PROMPT_UNIQUE_NAME>
  <PROMPT_FLDNAME>NODE_TYPE</PROMPT_FLDNAME>
  <PROMPT_TABLE></PROMPT_TABLE>
  <PROMPT_EDITTYPE>Translate table</PROMPT_EDITTYPE>
  <PROMPT_HEADING>Node Type</PROMPT_HEADING>
  <PROMPT_HEADINGTYPE>Text</PROMPT_HEADINGTYPE>
  <PROMPT_FLDLENGTH>30</PROMPT_FLDLENGTH>
  <PROMPT_FLDDECIMALPOS>0</PROMPT_FLDDECIMALPOS>
</PROMPT>

```

```

<PROMPT>
  <PROMPT_NUM>2</PROMPT_NUM>
  <PROMPT_NAME>PortalName</PROMPT_NAME>
  <PROMPT_UNIQUE_NAME>BIND2</PROMPT_UNIQUE_NAME>
  <PROMPT_FLDNAME>PORTAL_TYPE</PROMPT_FLDNAME>
  <PROMPT_TABLE>PSPRDMDEFN</PROMPT_TABLE>
  <PROMPT_EDITTYPE>Prompt table</PROMPT_EDITTYPE>
  <PROMPT_HEADING>Portal</PROMPT_HEADING>
  <PROMPT_HEADINGTYPE>Text</PROMPT_HEADINGTYPE>
  <PROMPT_FLDLENGTH>30</PROMPT_FLDLENGTH>
  <PROMPT_FLDDECIMALPOS>0</PROMPT_FLDDECIMALPOS>
</PROMPT>
<!--1 or more repetitions:-->
<SELECT>
  <SELECTNUM>1</SELECTNUM>
  <PARENTSELECTNUM>0</PARENTSELECTNUM>
  <SELECTTYPE>Main</SELECTTYPE>
  <QRYDISTINCT>False</QRYDISTINCT>
</SELECT>
<QUERY_NAME>Query_with_prompt</QUERY_NAME>
<DESCRIPTION>Prompt example</DESCRIPTION>
<DESCRLONG>Query prompts for node type and portal name</DESCRLONG>
<QUERY_OWNER>public</QUERY_OWNER>
</qas:QAS_QUERY_SAVE_REQ_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Related Join Query Example

In a related record join, you can automatically join two records based on a relationship that has been predefined in the record designer. For example, if a field has a prompt table defined for it, PeopleSoft Query displays a join link to the right of the shared field.

This SQL creates a query with a related join:

```

SELECT A.PRCJOBNAME, A.PRCSTYPE, B.SERVERNAME
FROM PS_PRCJOBDEFN A, PS_SERVERDEFN B
WHERE B.SERVERNAME = A.SERVERNAME

```

SOAP document:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>PRCSJOBDEFN</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <RECORD>
        <RCDNUM>2</RCDNUM>
        <RCDNAME>SERVERDEFN</RCDNAME>
        <CORRNAME>B</CORRNAME>
        <JOINTYPE>related</JOINTYPE>
        <JOINRCDALIAS>A</JOINRCDALIAS>
        <JOINFIELD>SERVERNAME</JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>PRCSJOBNAME</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR>Process Job Name</DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR>Ascending</ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>PRCSTYPE</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR>Process Type</DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR>Ascending</ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>3</FIELDNUM>
        <FIELDNAME>SERVERNAME</FIELDNAME>
        <FIELDRCDDNUM>2</FIELDRCDDNUM>
        <DESCR>Server Name</DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>3</COLUMNNUM>

```

```

        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR>Ascending</ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
    </FIELD>
    <!--1 or more repetitions:-->
    <SELECT>
        <SELECTNUM>1</SELECTNUM>
        <PARENTSELECTNUM>0</PARENTSELECTNUM>
        <SELECTTYPE>Main</SELECTTYPE>
        <QRYDISTINCT>False</QRYDISTINCT>
    </SELECT>
    <QUERY_NAME>RelatedJoin</QUERY_NAME>
    <DESCRIPTION>Related Join example</DESCRIPTION>
    <DESCRLONG>Query with related join</DESCRLONG>
    <QUERY_OWNER>Public</QUERY_OWNER>
</qas:QAS_QUERY_SAVE_REQ_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Related Left Outer Join Query Example

This SQL creates a query with a related left outer join:

```

SELECT A.PORTAL_NAME
FROM (PSMSGNODEDEFN A LEFT OUTER JOIN PSPRDMDEFN B ON B.PORTAL_NAME = A.PORTAL_NAME )

```

SOAP document:

```

<QAS_QUERY_SAVE_REQ_MSG>
  <RECORD>
    <RCDNUM>1</RCDNUM>
    <RCDNAME>PMSGNODEDEFN</RCDNAME>
    <CORRNAME>A</CORRNAME>
    <JOINTYPE/>
    <JOINRCDALIAS/>
    <JOINFIELD/>
    <RCDSELECTNUM>1</RCDSELECTNUM>
  </RECORD>
  <RECORD>
    <RCDNUM>2</RCDNUM>
    <RCDNAME>PSPRDMDEFN</RCDNAME>
    <CORRNAME>B</CORRNAME>
    <JOINRCDALIAS>A</JOINRCDALIAS>
    <JOINFIELD>PORTAL_NAME</JOINFIELD>
    <JOINTYPE>RelatedLeftOuter</JOINTYPE>
    <RCDSELECTNUM>1</RCDSELECTNUM>
  </RECORD>
  <FIELD>
    <FIELDNUM>1</FIELDNUM>
    <FIELDNAME>PORTAL_NAME</FIELDNAME>
    <FIELDRCNUM>1</FIELDRCNUM>
    <DESCR>Portal Name</DESCR>
    <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
    <HEADING_TYPE>RFT Short</HEADING_TYPE>
    <HEADING>Portal Name</HEADING>
    <COLUMNNUM>1</COLUMNNUM>
    <ORDERBYNUM>0</ORDERBYNUM>
    <ORDERBYDIR>Ascending</ORDERBYDIR>
    <FIELDSELECTNUM>1</FIELDSELECTNUM>
    <EXPRESSION_AS_FIELD>0</EXPRESSION_AS_FIELD>
  </FIELD>
  <CRITERION>
    <CRTNUM>1</CRTNUM>
    <CRTNAME>1</CRTNAME>
    <CRTHAVINGFLAG>False</CRTHAVINGFLAG>
    <CRTSELECTNUM>1</CRTSELECTNUM>
    <CRTNEGATION>False</CRTNEGATION>
    <CONDITION_TYPE>equal to</CONDITION_TYPE>
    <LEFT_PARENTHESIS_LEVEL>0</LEFT_PARENTHESIS_LEVEL>
    <RIGHT_PARENTHESIS_LEVEL>0</RIGHT_PARENTHESIS_LEVEL>
    <CRTEXP1TYPE>Field</CRTEXP1TYPE>
    <CRTEXP1TEXT>B.PORTAL_NAME</CRTEXP1TEXT>
    <CRTEXP1NUM>0</CRTEXP1NUM>
    <CRTEXP1RCDALIAS>B</CRTEXP1RCDALIAS>
    <CRTEXP1FIELD>PORTAL_NAME</CRTEXP1FIELD>
    <CRTEXP2RCDALIAS>A</CRTEXP2RCDALIAS>
    <CRTEXP2FIELD>PORTAL_NAME</CRTEXP2FIELD>
    <CRTEXP2TYPE>Field</CRTEXP2TYPE>
    <CRTEXP2TEXT>A.PORTAL_NAME</CRTEXP2TEXT>
    <CRTLOGICALOPER>not used</CRTLOGICALOPER>
    <CRT_BELONGSTO>B</CRT_BELONGSTO>
  </CRITERION>
  <SELECT>
    <SELECTNUM>1</SELECTNUM>
    <PARENTSELECTNUM>0</PARENTSELECTNUM>
    <SELECTTYPE>Main</SELECTTYPE>
    <QRYDISTINCT>False</QRYDISTINCT>
  </SELECT>
  <QUERY_NAME>OJ_TRIAL</QUERY_NAME>
  <DESCRIPTION>This is a query with a left outer join</DESCRIPTION>
  <DESCRLONG>outer join example used for testing with QAS</DESCRLONG>
  <QUERY_OWNER>Public</QUERY_OWNER>

```

</QAS_QUERY_SAVE_REQ_MSG>

Hierarchy Join Query Example

A record hierarchy join joins a parent table to a child table. A child table is a table that uses all the same key fields as its parent, plus one or more additional keys. The SQL for this query is:

```
SELECT A.PRCNAME, A.PRCSTYPE, B.PRCGRP
FROM PS_PRCDEFN A, PS_PRCDEFNGRP B
WHERE B.PRCSTYPE = A.PRCSTYPE AND B.PRCNAME = A.PRCNAME
```

Soap document:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>PRCSDEFN</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <RECORD>
        <RCDNUM>2</RCDNUM>
        <RCDNAME>PRCSDEFNGRP</RCDNAME>
        <CORRNAME>B</CORRNAME>
        <JOINTYPE>hierarchy</JOINTYPE>
        <JOINRCDALIAS>A</JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>PRCSNAME</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>PRCSTYPE</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>3</FIELDNUM>
        <FIELDNAME>PRCSGRP</FIELDNAME>
        <FIELDRCDDNUM>2</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>3</COLUMNNUM>

```



```

        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
    </FIELD>

    <!--1 or more repetitions:-->
    <SELECT>
        <SELECTNUM>1</SELECTNUM>
        <PARENTSELECTNUM>0</PARENTSELECTNUM>
        <SELECTTYPE>Main</SELECTTYPE>
        <QRYDISTINCT>False</QRYDISTINCT>
    </SELECT>
    <QUERY_NAME>HierarchyJoin</QUERY_NAME>
    <DESCRIPTION>Hierarchy Join example</DESCRIPTION>
    <DESCRLONG>Thios is a query with a hierarchy join</DESCRLONG>
    <QUERY_OWNER>public</QUERY_OWNER>
</qas:QAS_QUERY_SAVE_REQ_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Query with an Aggregate Value Example

This is an example of a query that contains the aggregate count for *EMPLID*. The SQL for this query is:

```

SELECT A.MESSAGE_SET_NBR, COUNT(*)
FROM PSMSCATDEFN A
GROUP BY A.MESSAGE_SET_NBR
ORDER BY 1

```

SOAP document:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>PSMSGCATDEFN</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>MESSAGE_SET_NBR</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Long</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>1</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>MESSAGE_NBR</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>Count</AGGREGATE_TYPE>
        <HEADING_TYPE>Text</HEADING_TYPE>
        <HEADING>Count</HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <!--1 or more repetitions:-->
      <SELECT>
        <SELECTNUM>1</SELECTNUM>
        <PARENTSELECTNUM>0</PARENTSELECTNUM>
        <SELECTTYPE>Main</SELECTTYPE>
        <QRYDISTINCT></QRYDISTINCT>
      </SELECT>
      <QUERY_NAME>CountExample</QUERY_NAME>
      <DESCRIPTION>Example using count</DESCRIPTION>
      <DESCRLONG>This query counts number of messages in each message set<=>
        /DESCRLONG>
      <QUERY_OWNER>public</QUERY_OWNER>
    </qas:QAS_QUERY_SAVE_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Query with Expression Example

This is an example of a query that contains an expression for total price. The SQL for this query is:

```
SELECT A.QE_ORDER_NBR, A.QE_ORDER_LINE_NBR, A.QE_QTY * A.QE_PRICE  
FROM PS_QEORDER_DTL A  
ORDER BY 1
```

SOAP document:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE_REQ=>
_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_SAVE_REQ_MSG>
      <!--1 or more repetitions:-->
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>georder_dtl</RCDNAME>
        <CORRNAME>A</CORRNAME>
        <JOINTYPE></JOINTYPE>
        <JOINRCDALIAS></JOINRCDALIAS>
        <JOINFIELD></JOINFIELD>
        <RCDSELECTNUM>1</RCDSELECTNUM>
      </RECORD>
      <!--1 or more repetitions:-->
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>QE_ORDER_NBR</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>1</COLUMNNUM>
        <ORDERBYNUM>1</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>QE_ORDER_LINE_NBR</FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING></HEADING>
        <COLUMNNUM>2</COLUMNNUM>
        <ORDERBYNUM></ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
      </FIELD>
      <FIELD>
        <FIELDNUM>3</FIELDNUM>
        <FIELDNAME></FIELDNAME>
        <FIELDRCDDNUM>1</FIELDRCDDNUM>
        <DESCR></DESCR>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>Text</HEADING_TYPE>
        <HEADING>Total Line Amount</HEADING>
        <COLUMNNUM>3</COLUMNNUM>
        <ORDERBYNUM>1</ORDERBYNUM>
        <ORDERBYDIR></ORDERBYDIR>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD>1</EXPRESSION_AS_FIELD>
      </FIELD>

      <!--Zero or more repetitions:-->
      <EXPRESSION>
        <EXPNUM>1</EXPNUM>

```

```

    <EXPSELECTNUM>1</EXPSELECTNUM>
    <EXPNAME>1</EXPNAME>
    <EXPTYPE>number</EXPTYPE>
    <EXPLENGTH>11</EXPLENGTH>
    <EXPDECIMALPOS>2</EXPDECIMALPOS>
    <EXPTEXT>A.QE_QTY * A.QE_PRICE</EXPTEXT>
    <EXPAGGREGATE>False</EXPAGGREGATE>
  </EXPRESSION>

  <!--1 or more repetitions:-->
  <SELECT>
    <SELECTNUM>1</SELECTNUM>
    <PARENTSELECTNUM>0</PARENTSELECTNUM>
    <SELECTTYPE>Main</SELECTTYPE>
    <QRYDISTINCT>False</QRYDISTINCT>
  </SELECT>
  <QUERY_NAME>test_expression</QUERY_NAME>
  <DESCRIPTION>Test using expression as field</DESCRIPTION>
  <DESCRLONG></DESCRLONG>
  <QUERY_OWNER>Public</QUERY_OWNER>
</qas:QAS_QUERY_SAVE_REQ_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Subquery Example

This is an example of a query that contains a subquery. The SQL for this query is:

```

SELECT DISTINCT A.EMPLID, A.QE_EMPLOYEE_NAME⇒
FROM PS_QE_EMPLOYEE A⇒
WHERE A.EMPLID IN (SELECT B.QE_EMPLID⇒
FROM PS_QE_PERS_DATA B⇒
WHERE ( B.QE_HIGHLY_COMP_EMP = 'E' ))⇒
ORDER BY 2

```

SOAP document:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_SAVE=>
  _REQ_MSG.VERSION_1">
    <soapenv:Header/>
    <soapenv:Body>
      <qas:QAS_QUERY_SAVE_REQ_MSG>
        <!--1 or more repetitions:-->
        <RECORD>
          <RCDNUM>1</RCDNUM>
          <RCDNAME>QE_EMPLOYEE</RCDNAME>
          <CORRNAME>A</CORRNAME>
          <JOINTYPE/>
          <JOINRCDALIAS/>
          <JOINFIELD/>
          <RCDSELECTNUM>1</RCDSELECTNUM>
        </RECORD>
        <RECORD>
          <RCDNUM>2</RCDNUM>
          <RCDNAME>QE_PERS_DATA</RCDNAME>
          <CORRNAME>B</CORRNAME>
          <JOINTYPE/>
          <JOINRCDALIAS/>
          <JOINFIELD/>
          <RCDSELECTNUM>2</RCDSELECTNUM>
        </RECORD>
        <!--1 or more repetitions:-->
        <FIELD>
          <FIELDNUM>1</FIELDNUM>
          <FIELDNAME>EMPLID</FIELDNAME>
          <FIELDRCDDNUM>1</FIELDRCDDNUM>
          <DESCR>Emplid</DESCR>
          <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
          <HEADING_TYPE>text</HEADING_TYPE>
          <HEADING>Employee ID</HEADING>
          <COLUMNNUM>1</COLUMNNUM>
          <ORDERBYNUM>0</ORDERBYNUM>
          <ORDERBYDIR>Ascending</ORDERBYDIR>
          <FIELDSELECTNUM>1</FIELDSELECTNUM>
          <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
        </FIELD>
        <FIELD>
          <FIELDNUM>2</FIELDNUM>
          <FIELDNAME>QE_EMPLOYEE_NAME</FIELDNAME>
          <FIELDRCDDNUM>1</FIELDRCDDNUM>
          <DESCR>Name</DESCR>
          <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
          <HEADING_TYPE>text</HEADING_TYPE>
          <HEADING>Name</HEADING>
          <COLUMNNUM>2</COLUMNNUM>
          <ORDERBYNUM>1</ORDERBYNUM>
          <ORDERBYDIR>Ascending</ORDERBYDIR>
          <FIELDSELECTNUM>1</FIELDSELECTNUM>
          <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
        </FIELD>
        <FIELD>
          <FIELDNUM>3</FIELDNUM>
          <FIELDNAME>QE_EMPLID</FIELDNAME>
          <FIELDRCDDNUM>2</FIELDRCDDNUM>
          <DESCR>qeEmplid</DESCR>
          <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
          <HEADING_TYPE>text</HEADING_TYPE>
          <HEADING>Employee ID</HEADING>
          <COLUMNNUM>1</COLUMNNUM>

```

```

        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR>Ascending</ORDERBYDIR>
        <FIELDSELECTNUM>2</FIELDSELECTNUM>
        <EXPRESSION_AS_FIELD></EXPRESSION_AS_FIELD>
    </FIELD>
    <!--Zero or more repetitions:-->
    <CRITERION>
        <CRTNUM>1</CRTNUM>
        <CRTNAME>myCrit</CRTNAME>
        <CRTHAVINGFLAG>False</CRTHAVINGFLAG>
        <CRTSELECTNUM>1</CRTSELECTNUM>
        <CRTNEGATION>False</CRTNEGATION>
        <CONDITION_TYPE>in list</CONDITION_TYPE>
        <LEFT_PARENTHESIS_LEVEL>0</LEFT_PARENTHESIS_LEVEL>
        <RIGHT_PARENTHESIS_LEVEL>0</RIGHT_PARENTHESIS_LEVEL>
        <CRTEXP1TYPE>Field</CRTEXP1TYPE>
        <CRTEXP1TEXT>1</CRTEXP1TEXT>
        <CRTEXP1NUM>1</CRTEXP1NUM>
        <CRTEXP1RCDALIAS>A</CRTEXP1RCDALIAS>
        <CRTEXP1FIELD>EMPLID</CRTEXP1FIELD>
        <CRTEXP2RCDALIAS/>
        <CRTEXP2FIELD/>
        <CRTEXP2TYPE>subquery</CRTEXP2TYPE>
        <CRTEXP2TEXT>2</CRTEXP2TEXT>
        <CRTLOGICALOPER>not used</CRTLOGICALOPER>
    </CRITERION>
    <CRITERION>
        <CRTNUM>2</CRTNUM>
        <CRTNAME>subCrit</CRTNAME>
        <CRTHAVINGFLAG>False</CRTHAVINGFLAG>
        <CRTSELECTNUM>2</CRTSELECTNUM>
        <CRTNEGATION>False</CRTNEGATION>
        <CONDITION_TYPE>equal to</CONDITION_TYPE>
        <LEFT_PARENTHESIS_LEVEL>1</LEFT_PARENTHESIS_LEVEL>
        <RIGHT_PARENTHESIS_LEVEL>1</RIGHT_PARENTHESIS_LEVEL>
        <CRTEXP1TYPE>Field</CRTEXP1TYPE>
        <CRTEXP1TEXT>1</CRTEXP1TEXT>
        <CRTEXP1NUM>1</CRTEXP1NUM>
        <CRTEXP1RCDALIAS>B</CRTEXP1RCDALIAS>
        <CRTEXP1FIELD>QE_HIGHLY_COMP_EMP</CRTEXP1FIELD>
        <CRTEXP2RCDALIAS/>
        <CRTEXP2FIELD/>
        <CRTEXP2TYPE>Constant</CRTEXP2TYPE>
        <CRTEXP2TEXT>E</CRTEXP2TEXT>
        <CRTLOGICALOPER>not used</CRTLOGICALOPER>
    </CRITERION>
    <!--1 or more repetitions:-->
    <SELECT>
        <SELECTNUM>1</SELECTNUM>
        <PARENTSELECTNUM>0</PARENTSELECTNUM>
        <SELECTTYPE>Main</SELECTTYPE>
        <QRYDISTINCT>True</QRYDISTINCT>
    </SELECT><SELECT>
        <SELECTNUM>2</SELECTNUM>
        <PARENTSELECTNUM>1</PARENTSELECTNUM>
        <SELECTTYPE>Subquery</SELECTTYPE>
        <QRYDISTINCT>False</QRYDISTINCT>
    </SELECT>
    <QUERY_NAME>QuerywithSubQuery</QUERY_NAME>
    <DESCRIPTION>This is a query with a subquery</DESCRIPTION>
    <DESCRLONG>Subquery example used for testing with QAS</DESCRLONG>
    <QUERY_OWNER>Public</QUERY_OWNER>
</qas:QAS_QUERY_SAVE_REQ_MSG>
</soapenv:Body>

```

```
</soapenv:Envelope>
```


Chapter 4

Executing a Query

This chapter provides overviews of the query execution process and output format and types. It also discusses the service operations used to:

- Select a query
- List fields
- Enter prompts
- Execute the query
- Retrieve query results
- Cancel a query
- Retrieve query execution status

Understanding Query Execution

A third-party application will execute a PeopleSoft query using the same basic steps as a PeopleSoft online user. This table lists the steps to execute a query and retrieve query results.

Steps	Description
1. Select query.	QAS service operations are available to find and list existing queries.
2. Enter prompts.	QAS web services are available to retrieve query prompts and get translate values and prompt table values.
3. Filter fields.	A service operation is available to list all of the fields in a query.
4. Execute the query.	QAS service operations are available to execute a query synchronously or asynchronously.
5. Retrieve query results.	A service operation is available to retrieve the query results.
6. Cancel a query.	QAS provides a service operation to cancel query execution.

Steps	Description
7. Retrieve query status.	QAS provides a service operation to retrieve the current query execution status.

Query Execution Models

Query Execution Services supports the following models:

Model	Description
Synchronous Request and Response	Request is sent and processed returning the response.
Synchronous Request and Synchronous Poll with Chunked Response	Request is sent synchronously and run in the Process Scheduler. Requestor will need to retrieve the results when the process has finished.
Asynchronous Request and Response	Request is sent asynchronously and queued in Integration Broker and processed. The response is returned to the http url specified in the ws addressing soap header. Requestor has the option of requesting a response when the process has finished.

Note. In order to use Integration Broker for asynchronous and synchronous poll message processing Pub/Sub must be active.

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Administering Messaging Servers for Asynchronous Messaging."

Performance Considerations

Which execution model to run depends on the number of rows and columns returned in the response. Note the following guidelines:

- Synchronous execution is not recommended for large result sets.
- Response data that consists of a large number of columns with fewer rows of data has a slower response than response data that consists of fewer columns and more rows, even though the response size may be smaller.
- Executing synchronous poll query with block size = 0 or Max will result in all data in one block.
- In synchronous poll execution, the larger the response block, the fewer blocks are returned and total response time for all blocks is shorter, but the user has to wait longer for the response.
- In synchronous poll execution, if the heap size in the web server is not sufficient to retrieve the large response block, a JAVA out of memory exception will occur.
- In synchronous poll execution, if a smaller block size (less than 100,000) is used, the result will be too many blocks containing very few rows. Optimal request block size in KB is in the range from 100,000 to 1,000,000.

Output Format and Output Type

When you execute a query using QAS service operations, the output type can be WEBROWSET, XMLP, EXCEL or HTML. The output format will be either FILE or NONFILE.

This table shows the valid combinations of output format and output type.

Type	FILE	NONFILE
WEBROWSET	Creates a file in webrowset format.	Creates a response in webrowset format.
XMLP	Creates an XML file. This file is suitable to use with BI Publisher reports.	Creates a response in XMLP format. Note. Connected Query is not supported for nonfile output.
EXCEL	Creates an XLS file.	Not valid
HTML	Creates an HTML file.	Not valid

Report Repository

Only HTTP and HTTPS are supported as the transport mechanism to publish QAS file output to the PeopleSoft Report Repository. This means that for QAS to work with file output in SYNC and ASYNC execution, a URI (universal resource identifier) scheme of HTTP or HTTPS must be defined for a server.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Setting Server Definitions," Defining HTTP Distribution Nodes.

WebRowSet Format

WebRowSet represents a set of fetched rows that can be passed between tiers and components and for which the data (obtained in XML format) is managed either by storing it in a string or by writing it to a file in the local file system. PeopleSoft uses the standard WebRowSet format based on the WebRowSet schema. When you use WebRowSet, the rows (tabular data) referred to as rowsets can be read and written in XML format, thus enabling rowsets to be sent over the Internet using the HTTP/XML protocol.

WebRowSet Schema definition describes the internal data of a RowSet object in three distinct areas:

Properties	These properties describe the standard synchronization provider properties in addition to the more general rowset properties.
Metadata	The metadata describes the tabular structure governed by a WebRowSet object.
Data	The data is the current data values.

This example shows the four rows of data returned for a simple query MSGSET that has two columns. The SQL for this query is:

```
SELECT A.MESSAGE_SET_NBR, A.DESCR  
FROM PMSGSETDEFN A
```

Example WebRowset File:

```

<?xml version='1.0'?>
<webRowSet xmlns='http://java.sun.com/xml/ns/jdbc'>
  <properties>
    <command></command>
    <concurrency>1007</concurrency>
    <datasource/>
    <escape-processing>true</escape-processing>
    <fetch-direction>1000</fetch-direction>
    <fetch-size>0</fetch-size>
    <isolation-level>1</isolation-level>
    <key-columns/>
    <map/>
    <max-field-size>0</max-field-size>
    <max-rows>0</max-rows>
    <query-timeout>0</query-timeout>
    <read-only>true</read-only>
    <rowset-type>1003</rowset-type>
    <show-deleted>false</show-deleted>
    <table-name/>
    <url></url>
    <sync-provider>
      <sync-provider-name></sync-provider-name>
      <sync-provider-vendor></sync-provider-vendor>
      <sync-provider-version></sync-provider-version>
      <sync-provider-grade></sync-provider-grade>
      <data-source-lock></data-source-lock>
    </sync-provider>
  </properties>
  <metadata>
    <column-count>2</column-count>
    <column-definition>
      <column-index>1</column-index>
      <auto-increment>false</auto-increment>
      <case-sensitive>false</case-sensitive>
      <currency>false</currency>
      <nullable>false</nullable>
      <signed>false</signed>
      <searchable>false</searchable>
      <column-display-size>0</column-display-size>
      <column-label>Message Set</column-label>
      <column-name>A.MESSAGE_SET_N</column-name>
      <schema-name/>
      <column-precision>0</column-precision>
      <column-scale>0</column-scale>
      <table-name/>
      <catalog-name/>
      <column-type>2</column-type>
      <column-type-name>NUMBER</column-type-name>
    </column-definition>
    <column-definition>
      <column-index>2</column-index>
      <auto-increment>false</auto-increment>
      <case-sensitive>false</case-sensitive>
      <currency>false</currency>
      <nullable>false</nullable>
      <signed>false</signed>
      <searchable>false</searchable>
      <column-display-size>0</column-display-size>
      <column-label>Message Set Description</column-label>
      <column-name>A.DESCR</column-name>
      <schema-name/>
      <column-precision>0</column-precision>
      <column-scale>0</column-scale>
      <table-name/>

```

```

        <catalog-name/>
        <column-type>1</column-type>
        <column-type-name>CHAR</column-type-name>
    </column-definition>
</metadata>
<data>
    <currentRow>
        <columnValue>1</columnValue>
        <columnValue>
            <![CDATA[PeopleTools Message Bar Items]]>
        </columnValue>
    </currentRow>
    <currentRow>
        <columnValue>2</columnValue>
        <columnValue>
            <![CDATA[PeopleCode]]>
        </columnValue>
    </currentRow>
    <currentRow>
        <columnValue>3</columnValue>
        <columnValue>
            <![CDATA[General Tools Messages]]>
        </columnValue>
    </currentRow>
    <currentRow>
        <columnValue>4</columnValue>
        <columnValue>
            <![CDATA[Help Processor]]>
        </columnValue>
    </currentRow>
</data>
</webRowSet>

```

XMLP Format

XMLP format creates an XML file suitable for use with Oracle BI Publisher. Oracle BI Publisher expects the XML data file to consist of a root node with a set of related elements below.

This example shows the four rows of data returned for a simple query MSGSET that has two columns. The SQL for this query is:

```

SELECT A.MESSAGE_SET_NBR, A.DESCR
FROM PMSGSETDEFN A

```

Example XMLP File:

```

<?xml version='1.0'?>
<query numrows="4" queryname="MSGSET" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"

xsi:noNamespaceSchemaLocation="">
  <row rownumber="1">
    <MESSAGE_SET_NBR>1</MESSAGE_SET_NBR>
    <DESCR>PeopleTools Message Bar Items</DESCR>
  </row>
  <row rownumber="2">
    <MESSAGE_SET_NBR>2</MESSAGE_SET_NBR>
    <DESCR>PeopleCode</DESCR>
  </row>
  <row rownumber="3">
    <MESSAGE_SET_NBR>3</MESSAGE_SET_NBR>
    <DESCR>General Tools Messages</DESCR>
  </row>
  <row rownumber="4">
    <MESSAGE_SET_NBR>4</MESSAGE_SET_NBR>
    <DESCR>Help Processor</DESCR>
  </row>
</query>

```

Excel Format

Excel format creates an xls file that can be opened in Microsoft Excel.

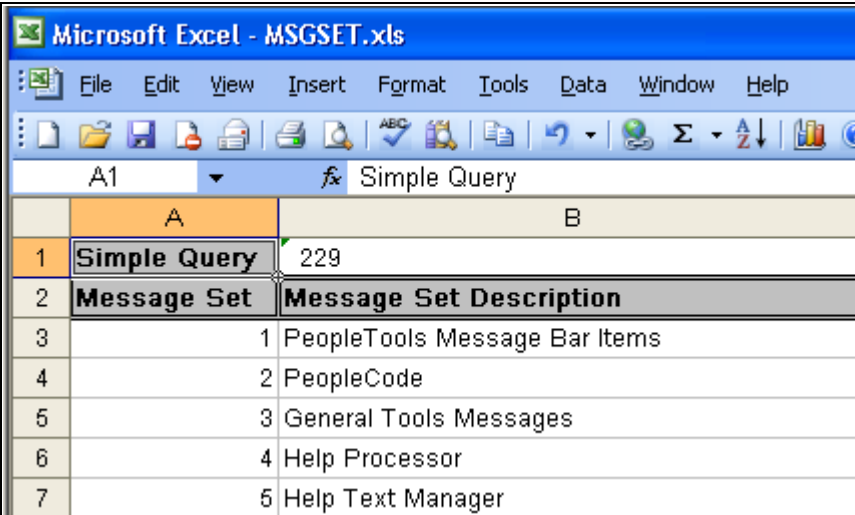
This example shows the five rows of data returned for a simple query MSGSET that has two columns. The SQL for this query is:

```

SELECT A.MESSAGE_SET_NBR, A.DESCR
FROM PMSGSETDEFN A

```

Example XLS File:



	A	B
1	Simple Query	229
2	Message Set	Message Set Description
3	1	PeopleTools Message Bar Items
4	2	PeopleCode
5	3	General Tools Messages
6	4	Help Processor
7	5	Help Text Manager

Excel format

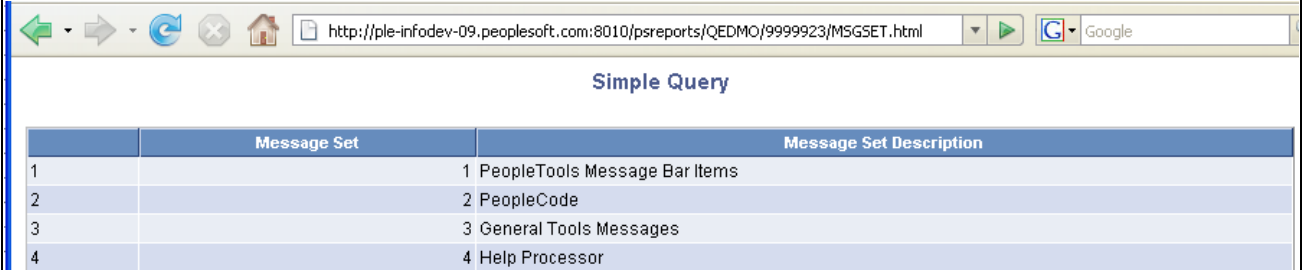
HTML Format

HTML format creates an HTML file.

This example shows the four rows of data returned for a simple query MSGSET that has two columns. The SQL for this query is:

```
SELECT A.MESSAGE_SET_NBR, A.DESCR
FROM PMSGSETDEFN A
```

Example HTML File:



	Message Set	Message Set Description
1		1 PeopleTools Message Bar Items
2		2 PeopleCode
3		3 General Tools Messages
4		4 Help Processor

HTML format

Date and Time Handling

When you create a query containing date fields, the default display in PeopleSoft Pure Internet Architecture is based on the regional setting. For example, if the personalization setting uses date format MMDDYY and date separator /, the date is displayed as MM/DD/YYYY.

See *PeopleTools 8.52: Global Technology*, "Controlling International Preferences," Defining User-Specific, Locale-Based Formatting.

When you execute the query using one of the QAS service operations, date and time are returned in the following way:

- Date is returned to the client applications as YYYY-MM-DD. For example, April 6, 2009 is 2009-04-06.
- Time is returned as hh:mm:ss.milliseconds. For example, 9:30 a.m. is returned as 9:30:00.000000.
- Datetime is returned with the UTC (coordinated universal time) offset for the base time zone. For example, if the base time zone is PDT (Pacific Daylight Time), then April 6, 2009 9:30 a.m. is returned as 2009-04-06T09:30:00-0700.

If a date field is used as a prompt, the FieldValue must be entered as YYYY-MM-DD in the QAS execution request.

Execution Logging

HTTP transfer code is used to post file output to the PSFT Report Repository. For synchronous execution run to file, QAS HTTP transfer code logs messages to the application server log. Refer to the PeopleSoft Process Scheduler PeopleBook for information on setting logging levels and viewing log reports.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Understanding Logging Systems," Logging System for PeopleSoft Process Scheduler Server.

For all other debugging purposes, standard Integration Broker logs can be viewed.

See *PeopleTools 8.52: Integration Broker Service Operations Monitor*, "Monitoring Asynchronous Service Operations" and *PeopleTools 8.52: Integration Broker Service Operations Monitor*, "Monitoring Synchronous Service Operations."

Selecting a Query

Once a query has been saved in the PeopleSoft application database, third-party applications can use service operations to find and list existing queries. This section describes the following service operations, which are available to select a query:

- QAS_LISTQUERY_OPER
- QAS_QUERY_DETAILS_OPER

QAS_LISTQUERY_OPER

Use this service operation to return a list of queries, along with the query descriptions, and owner type. If no queries match the search string, the response message will be empty.

Request Message: QAS_LISTQUERY_REQ_MSG

<i>Element Name</i> <i>All elements are optional</i>	<i>Description</i>
SearchString	Search string used for specifying the query name or the first few characters of the query name. If no value is entered, all queries for the user will be returned.
OwnerType	Optionally enter either <i>public</i> or <i>private</i> for the owner type. If no value is entered, all queries both public and private for the user will be returned.
MaxRows	Optionally enter the maximum number of rows to return.

Element Name <i>All elements are optional</i>	Description
isConnectedQry	Enter <i>Y</i> to return list of connected queries; enter <i>N</i> to return list of queries. If the no value is entered, a list of all queries, including connected queries, is returned.

Example Request:

This request will retrieve a list of all public queries that start with *XRFW*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTQUERY_REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTQUERY_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTQUERY_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_LISTQUERY_REQ>
        <qasl:PTQASWRK class="R">
          <!--Optional:-->
          <qasl:SearchString>XRFW</qasl:SearchString>
          <!--Optional:-->
          <qasl:OwnerType>public</qasl:OwnerType>
          <!--Optional:-->
          <qasl:MaxRows></qasl:MaxRows>
          <!--Optional:-->
          <qas:isConnectedQry></qas:isConnectedQry>
        </qasl:PTQASWRK>
      </qas:QAS_LISTQUERY_REQ>
    </qas:QAS_LISTQUERY_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTQUERY_RESP_MSG

Element Name	Description
QueryName	Query name.
Description	Query description.
OwnerType	Query owner type.
isConnectedQry	Connected query.

Example Response:

```

<?xml version="1.0"?>
<QAS_LISTQUERY_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas=>
/QAS_LISTQUERY_RESP_MSG.VERSION_1">
  <QAS_LISTQUERY_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools=>
/schemas/QAS_LISTQUERY_RESP.VERSION_1">
      <QueryName>XRFWIN</QueryName>
      <OwnerType>public</OwnerType>
      <Description>XRFWIN</Description>
      <isConnectedQry>N</isConnectedQry>
    </PTQASWRK>
  </QAS_LISTQUERY_RESP>
  <QAS_LISTQUERY_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools=>
/schemas/QAS_LISTQUERY_RESP.VERSION_1">
      <QueryName>XRFWNFL</QueryName>
      <OwnerType>public</OwnerType>
      <Description>XRFWNFL</Description>
      <isConnectedQry>N</isConnectedQry>
    </PTQASWRK>
  </QAS_LISTQUERY_RESP>
</QAS_LISTQUERY_RESP_MSG>

```

QAS_QUERY_DETAILS_OPER

Use this service operation to return the complete details of an existing query in XML format.

Request Message: QAS_QUERY_DETAILS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
QUERY_NAME Required element	Complete query name. Required.
IS_CONNECTED_QUERY Required element	Indicates that this is connected query. Valid values are <i>Y</i> and <i>N</i> . The default value is <i>N</i> .

Example Request:

This request will return the query details for the query *XRFWIN*.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:=>
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERY_DETAILS_REQ=>
MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERY_DETAILS_REQ_MSG>
      <QUERY_NAME>QUERY_WITH_EXPRESSION</QUERY_NAME>
    </qas:QAS_QUERY_DETAILS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_QUERY_DETAILS_RESP_MSG

The response will include the details for the query definition. This message has several groupings, and depending on the specific query, some groupings may appear multiple times, while other groupings do not apply. The elements are listed here in groups.

<Properties> Returns the properties of the query definition.

Properties Elements	Description
QUERY_NAME	Query name.
DESCRIPTION	Query description.
DESCRLONG	Long description
QUERY_OWNER	Query owner type.
CREATION_TIME	Time of query creation in PeopleSoft database.
LAST_UPDATE_TIME	Time of most recent update of the query in PeopleSoft database. Format is YYYY-MM-DD-HH.MM.SS.FF where FF is the fractional part of a second.

<Selects> Returns the select information of the query definition.

Select Elements	Description
SELECTNUM	SELECT number.
PARENTSELECTNUM	Number of parent SELECT.
SELECTTYPE	Type of selection, <i>Main</i> , <i>Subquery</i> , or <i>Union</i> .
QRYDISTINCT	Indicates whether this query is distinct.

<Records> Returns the record correlation and join information of the query definition.

Records Elements	Description
RCDNUM	Record number.
RCDNAME	Record name.
RCDSELECTNUM	Select number.
CORRNAME	Alias name such as <i>A,B,C</i> , and so on.
JOINTYPE	Join type.
JOINRCDALIAS	Join record alias.

Records Elements	Description
JOINFIELD	Join field.

<Fields> Returns the field of the query definition.

Fields Elements	Description
FIELDNUM	Field number in the corresponding select.
FIELDNAME	Field name.
DESCR	Description.
FORMAT	Field format as a combination of field type and field length.
AGGREGATE_TYPE	Aggregation type.
HEADING_TYPE	Heading type.
HEADING	Heading text.
FIELDSELECTNUM	Identifier of SELECT in which this field is included.
ORDERBYNUM	Order by number.
COLUMNNUM	Column number.
ORDERBYDIR	Direction of field ordering.
FIELDTYPE	Field type.
FIELDRCDALIAS	Alias of the record to which this field belongs.

<Criteria> Returns the criteria information of the query definition.

Criteria Elements	Description
CRTNUM	Criterion number in the corresponding select statement.
CRTTYPE	Specifies whether the HAVING clause is used.
CRTNAME	Criterion name.
CRTSELECTNUM	Select Number.
NEGATION	Returns <i>True</i> if NOT is specified in the operator; otherwise, returns <i>False</i> .

Criteria Elements	Description
CONDITION_TYPE	Condition type in criterion.
LEFT_PARENTHESIS_LEVEL	Left parenthesis level specified from 0 onwards.
RIGHT_PARENTHESIS_LEVEL	Right parenthesis level specified from 0 onwards.
CRTEXP1TYPE	Specifies whether the criterion is <i>Field</i> or <i>Expression</i> .
CRTEXP1RCDALIAS	Alias for record used in expression 1 criterion, such as A, B, and so on.
CRTEXP1FIELD	Field used in expression 1 criterion.
CRTEXP1TEXT	Expression text for criterion 1.
CRTEXP1NUM	Expression number for the criterion.
CRTEXP2RCDALIAS	Alias for record used in expression 2 criterion.
CRTEXP2FIELD	Field used in expression 2 criterion.
CRTEXP2TYPE	Expression 2 type in criterion.
CRTEXP2TEXT	Expression 2 text.
CRTLOGICALOPER	Logical operator that links the criteria.

<Expression> Returns the expression information of the query definition.

Expression Elements	Description
EXPNUM	Expression number.
EXPSELECTNUM	Expression's SELECT number.
EXPNAME	Expression name.
EXPTYPE	Expression type.
EXPLENGTH	Expression length.
EXPDECIMALPOS	Number of decimal places.
EXPTEXT	Expression text.
EXPAGGREGATE	Specifies whether the expression is an aggregate function.

<Prompts> Returns the prompt information of the query definition.

<i>Prompt Elements</i>	<i>Description</i>
PROMPT_NUM	Prompt number.
PROMPT_NAME	Unique prompt name.
PROMPT_UNIQUE_NAME	Unique prompt name.
PROMPT_FLDNAME	Name of the field used as prompt.
PROMPT_TABLE	Prompt table name.
PROMPT_EDITTYPE	Edit type.
PROMPT_FLDFORMAT	Field format.
PROMPT_FLDLENGTH	Field length for prompt.
PROMPT_FLDDECIMALPOS	Number of decimal places in prompt.
PROMPT_FLDTYPE	Field type.
PROMPT_HEADING	Heading of prompt.
PROMPT_HEADINGTYPE	Type of prompt heading.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/⇒
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qcs:QAS_QUERY_DETAILS_RESP_MSG xmlns:qcs="http://xmlns.oracle.com⇒
/Enterprise⇒
/Tools/schemas/QAS_QUERY_DETAILS_RESP_MSG.VERSION_1">
      <QUERY_NAME>QUERY_WITH_EXPRESSION</QUERY_NAME>
      <DESCRIPTION>Example query</DESCRIPTION>
      <DESCRLONG>Sample query with expression, criterion and prompt</DESCRLONG>
      <QUERY_OWNER>QEDMO, Public</QUERY_OWNER>
      <CREATION_TIME>2009-05-15-09.48.15.000000</CREATION_TIME>
      <LAST_UPDATE_TIME>2009-05-15-09.48.15.546000</LAST_UPDATE_TIME>
      <PROMPT>
        <PROMPT_NUM>1</PROMPT_NUM>
        <PROMPT_NAME>QE_ORDER_NBR</PROMPT_NAME>
        <PROMPT_FLDNAME>QE_ORDER_NBR</PROMPT_FLDNAME>
        <PROMPT_UNIQUE_NAME>BIND1</PROMPT_UNIQUE_NAME>
        <PROMPT_EDITTYPE>Prompt table</PROMPT_EDITTYPE>
        <PROMPT_TABLE>QEORDER_HDR</PROMPT_TABLE>
        <PROMPT_FLDFORMAT>Upper</PROMPT_FLDFORMAT>
        <PROMPT_FLDDECIMALPOS>0</PROMPT_FLDDECIMALPOS>
        <PROMPT_FLDLENGTH>8</PROMPT_FLDLENGTH>
        <PROMPT_FLDTYPE>Character</PROMPT_FLDTYPE>
        <PROMPT_HEADING>Order</PROMPT_HEADING>
        <PROMPT_HEADINGTYPE>RFT Short</PROMPT_HEADINGTYPE>
      </PROMPT>
      <SELECT>
        <SELECTNUM>1</SELECTNUM>
        <PARENTSELECTNUM>0</PARENTSELECTNUM>
        <SELECTTYPE>Main</SELECTTYPE>
        <QRYDISTINCT>False</QRYDISTINCT>
      </SELECT>
      <RECORD>
        <RCDNUM>1</RCDNUM>
        <RCDNAME>QEORDER_DTL</RCDNAME>
        <RCDSELECTNUM>1</RCDSELECTNUM>
        <CORRNAME>A</CORRNAME>
      </RECORD>
      <FIELD>
        <FIELDNUM>1</FIELDNUM>
        <FIELDNAME>QE_ORDER_NBR</FIELDNAME>
        <DESCR>Order Number</DESCR>
        <FORMAT>CHAR 8</FORMAT>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING>Order</HEADING>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>
        <ORDERBYNUM>0</ORDERBYNUM>
        <ORDERBYDIR>Ascending</ORDERBYDIR>
        <COLUMNNUM>1</COLUMNNUM>
        <FIELDTYPE>Character</FIELDTYPE>
        <FIELDRCDALIAS>A</FIELDRCDALIAS>
      </FIELD>
      <FIELD>
        <FIELDNUM>2</FIELDNUM>
        <FIELDNAME>QE_ORDER_LINE_NBR</FIELDNAME>
        <DESCR>Order Line Number</DESCR>
        <FORMAT>NUMBER 3</FORMAT>
        <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
        <HEADING_TYPE>RFT Short</HEADING_TYPE>
        <HEADING>Order Line</HEADING>
        <FIELDSELECTNUM>1</FIELDSELECTNUM>

```



```

    <ORDERBYNUM>0</ORDERBYNUM>
    <ORDERBYDIR>Ascending</ORDERBYDIR>
    <COLUMNNUM>2</COLUMNNUM>
    <FIELDTYPE>Number</FIELDTYPE>
    <FIELDRCDALIAS>A</FIELDRCDALIAS>
</FIELD>
<FIELD>
    <FIELDNUM>3</FIELDNUM>
    <FIELDNAME>QE_QTY</FIELDNAME>
    <DESCR>Quantity</DESCR>
    <FORMAT>SIGNED 17</FORMAT>
    <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
    <HEADING_TYPE>RFT Short</HEADING_TYPE>
    <HEADING>Qty</HEADING>
    <FIELDSELECTNUM>1</FIELDSELECTNUM>
    <ORDERBYNUM>0</ORDERBYNUM>
    <ORDERBYDIR>Ascending</ORDERBYDIR>
    <COLUMNNUM>3</COLUMNNUM>
    <FIELDTYPE>Signed Number</FIELDTYPE>
    <FIELDRCDALIAS>A</FIELDRCDALIAS>
</FIELD>
<FIELD>
    <FIELDNUM>4</FIELDNUM>
    <FIELDNAME>QE_PRICE</FIELDNAME>
    <DESCR>Price</DESCR>
    <FORMAT>NUMBER 9</FORMAT>
    <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
    <HEADING_TYPE>RFT Short</HEADING_TYPE>
    <HEADING>Price</HEADING>
    <FIELDSELECTNUM>1</FIELDSELECTNUM>
    <ORDERBYNUM>0</ORDERBYNUM>
    <ORDERBYDIR>Ascending</ORDERBYDIR>
    <COLUMNNUM>4</COLUMNNUM>
    <FIELDTYPE>Number</FIELDTYPE>
    <FIELDRCDALIAS>A</FIELDRCDALIAS>
</FIELD>
<FIELD>
    <FIELDNUM>5</FIELDNUM>
    <FIELDNAME>EXPR5_5</FIELDNAME>
    <DESCR/>
    <FORMAT>NUMBER 11</FORMAT>
    <AGGREGATE_TYPE>None</AGGREGATE_TYPE>
    <HEADING_TYPE>Text</HEADING_TYPE>
    <HEADING>A.QE_QTY*A.QE_PRICE</HEADING>
    <FIELDSELECTNUM>1</FIELDSELECTNUM>
    <ORDERBYNUM>0</ORDERBYNUM>
    <ORDERBYDIR>Ascending</ORDERBYDIR>
    <COLUMNNUM>5</COLUMNNUM>
    <FIELDTYPE>Number</FIELDTYPE>
    <FIELDRCDALIAS/>
</FIELD>
<CRITERION>
    <CRTNUM>1</CRTNUM>
    <CRTSELECTNUM>1</CRTSELECTNUM>
    <NEGATION>False</NEGATION>
    <LEFT_PARENTHESIS_LEVEL>0</LEFT_PARENTHESIS_LEVEL>
    <RIGHT_PARENTHESIS_LEVEL>0</RIGHT_PARENTHESIS_LEVEL>
    <CONDITION_TYPE>equal to</CONDITION_TYPE>
    <CRTEXP1TYPE>Field</CRTEXP1TYPE>
    <CRTEXP1RCDALIAS>A</CRTEXP1RCDALIAS>
    <CRTEXP1FIELD>QE_ORDER_NBR</CRTEXP1FIELD>
    <CRTEXP2TYPE>Prompt</CRTEXP2TYPE>
    <CRTEXP2TEXT>:1</CRTEXP2TEXT>
    <CRTLOGICALOPER>not used</CRTLOGICALOPER>

```

```
</CRITERION>
<EXPRESSION>
  <EXPNUM>1</EXPNUM>
  <EXPSELECTNUM>1</EXPSELECTNUM>
  <EXPTYPE>Number</EXPTYPE>
  <EXPTEXT>A.QE_QTY*A.QE_PRICE</EXPTEXT>
  <EXPLENGTH>11</EXPLENGTH>
  <EXPDECIMALPOS>2</EXPDECIMALPOS>
  <EXPAGGREGATE>False</EXPAGGREGATE>
</EXPRESSION>
</qcs:QAS_QUERY_DETAILS_RESP_MSG>
</soapenv:Body>
</soapenv:Envelope>
```

Listing Fields

This section describes the service operation that is available for listing the fields in a query.

QAS_LISTQUERYFIELDS

Use this service operation to return a list of fields for a given query. This service operation will help the user discover the unique field names to use in the FilterFieldName when the query is executed.

Request Message: QAS_LISTQUERYFIELDS_REQ_MSG

Element Name	Description
QueryName Required element	Complete query name. Required.
OwnerType	Indicate whether it is a <i>public</i> or <i>private</i> query. If no value is specified, QAS will first look for a private query and if it is not found, will look for a public query.
IsconnectedQuery Required element	Indicate whether this is connected query. Required. Valid values are <i>Y</i> and <i>N</i> .

Example Request:

This request will return the fields for the query *XRFWIN*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTQUERYFIELDS_REQ_→MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_→LISTQUERYFIELDS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTQUERYFIELDS_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_LISTQUERYFIELDS_REQ>
        <qasl:PTQASWRK class="R">
          <qasl:QueryName>XRFWIN</qasl:QueryName>
          <!--Optional:-->
          <qasl:OwnerType>Public</qasl:OwnerType>
          <qasl:isConnectedQuery>n</qasl:isConnectedQuery>
        </qasl:PTQASWRK>
      </qas:QAS_LISTQUERYFIELDS_REQ>
    </qas:QAS_LISTQUERYFIELDS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTQUERYFIELDS_RESP_MSG

Element Name	Description
ColumnNumber	Column number.
FieldName	Field name.
FieldType	Field type.
FieldLength	Field length.
FieldDecimal	Number of decimal positions.
HeadingText	Unique heading text.
UniqueFieldName	Unique field name. Unique field names are used to set up field filtering when the query is executed.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_LISTQUERYFIELDS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_LISTQUERYFIELDS_RESP_MSG.VERSION_1">
      <QAS_LISTQUERYFIELDS_RESP>
        <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools⇒
/schemas/QAS_LISTQUERYFIELDS_RESP.VERSION_1">
          <QueryName>XRFWIN</QueryName>
          <PTQASFIELDWRK class="R">
            <ColumnNumber>1</ColumnNumber>
            <FieldName>MENUNAME</FieldName>
            <FieldType>string</FieldType>
            <FieldLength>30</FieldLength>
            <FieldDecimal>0</FieldDecimal>
            <HeadingText>Menu Name</HeadingText>
            <UniqueFieldName>Menu Name</UniqueFieldName>
          </PTQASFIELDWRK>
        </PTQASWRK>
      </QAS_LISTQUERYFIELDS_RESP>
    </QAS_LISTQUERYFIELDS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Entering Prompts

This section describes the service operations that are available for discovering prompt and valid prompt values for a query. These include:

- QAS_LISTQUERYPROMPTS_OPER
- QAS_GETPROMPTTABLEVALUES_OPER
- QAS_GETXLAT_OPER

QAS_LISTQUERYPROMPTS_OPER

Use this service operation to retrieve a list of the prompts and associated prompt table for a specific query.

Request Message: QAS_LISTQUERYPROMPTS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
QueryName Required element	Complete Query Name. Required.
OwnerType	Optionally, enter the query owner type. If no value is entered, both public and private are searched.

Element Name	Description
isConnectedQuery Required element	Indicate whether this is a connected query. Required. Valid values are <i>Y</i> and <i>N</i> .

Example Request:

This request will return the prompt field and prompt table for the query TWO_PROMPT_QUERY.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTQUERYPROMPTS_REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTQUERYPROMPTS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTQUERYPROMPTS_REQ_MSG>
      <qas:QAS_LISTQUERYPROMPTS_REQ>
        <qasl:PTQASWRK class="R">
          <qasl:QueryName>TWO_PROMPT_QUERY</qasl:QueryName>
          <!--Optional:-->
          <qasl:OwnerType>PUBLIC</qasl:OwnerType>
          <qasl:isConnectedQuery>n</qasl:isConnectedQuery>
        </qasl:PTQASWRK>
      </qas:QAS_LISTQUERYPROMPTS_REQ>
    </qas:QAS_LISTQUERYPROMPTS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTQUERYPROMPTS_RESP_MSG

Element Name	Description
QueryName	Query name.
FieldName	If this prompt uses a translate table, the field name for the prompt is returned.
HeadingText	Heading text for the prompt.
FieldType	Prompt field type.
FormatText	Format for the text.
FieldLength	Field length for the prompt.
FieldDecimal	Number of decimal places in the prompt field.
UniquePromptName	The unique name used for the prompt. This value is case-sensitive.

Element Name	Description
EditType	The type of edit: <ul style="list-style-type: none"> • <i>Translate table</i> • <i>Yes/No table</i> • <i>Prompt table</i> • <i>No table edit</i>
PromptTable	If this prompt uses a prompt table, the table name is returned.

Example Response:

This response has two prompts, one for a prompt table and one for a translate table edit.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_LISTQUERYPROMPTS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/=
Tools/schemas/QAS_LISTQUERYPROMPTS_RESP_MSG.VERSION_1">
      <QAS_LISTQUERYPROMPTS_RESP>
        <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/=
schemas/QAS_LISTQUERYPROMPTS_RESP.VERSION_1">
          <QueryName>TWO_PROMPT_QUERY</QueryName>
          <PTQASPRMPTWRK class="R">
            <FieldName>NODE_TYPE</FieldName>
            <HeadingText>Node Type</HeadingText>
            <FieldType>string</FieldType>
            <FormatText>upper</FormatText>
            <FieldLength>30</FieldLength>
            <FieldDecimal>0</FieldDecimal>
            <UniquePromptName>BIND1</UniquePromptName>
            <EditType>Translate table</EditType>
            <PromptTable/>
          </PTQASPRMPTWRK>
          <PTQASPRMPTWRK class="R">
            <FieldName>PORTAL_TYPE</FieldName>
            <HeadingText>Portal</HeadingText>
            <FieldType>string</FieldType>
            <FormatText>upper</FormatText>
            <FieldLength>30</FieldLength>
            <FieldDecimal>0</FieldDecimal>
            <UniquePromptName>BIND2</UniquePromptName>
            <EditType>Prompt table</EditType>
            <PromptTable>PSPRDMDEFN</PromptTable>
          </PTQASPRMPTWRK>
        </PTQASWRK>
      </QAS_LISTQUERYPROMPTS_RESP>
    </QAS_LISTQUERYPROMPTS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_GETPROMPTTABLEVALUES_OPER

Use this service operation to return a list of field values for a given prompt table.

Request Message: QAS_GETPRMPTTBLVAL_REQ_MSG

Element Name	Description
PromptTableName Required element	Complete prompt record name. Required.
FieldValue	Optional search string for the key field value. If no value is entered, a list of all key values will be returned. Note. Multiple keys are not supported in PS Query. Tables with no keys are not supported in PS Query.
MaxRows	Optionally, enter the maximum number of rows to be returned. MaxRows is a number of length 10 with a decimal position of 0.

Example Request:

This request will return the first three rows of prompt table values for the table *PSMSGSETDEFN*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETPRMPTTBLVAL_REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETPRMPTTBLVAL_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_GETPRMPTTBLVAL_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_GETPRMPTTBLVAL_REQ>
        <qasl:PTQASWRK class="R">
          <qasl:PromptTableName>psmsgsetdefn</qasl:PromptTableName>
          <!--Optional:-->
          <qasl:MaxRows>3</qasl:MaxRows>
          <!--Optional:-->
          <qasl:FieldName></qasl:FieldName>
        </qasl:PTQASWRK>
      </qas:QAS_GETPRMPTTBLVAL_REQ>
    </qas:QAS_GETPRMPTTBLVAL_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_GETPRMPTTBLVALUES_RESP_MSG

Element Name	Description
FieldValue	Field value.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_GETPRMPTTBLVAL_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools⇒
/schemas/QAS_GETPRMPTTBLVAL_RESP_MSG.VERSION_1">
      <QAS_GETPRMPTTBLVAL_RESP>
        <PTQASFIELDWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_GETPRMPTTBLVAL_RESP.VERSION_1">
          <FieldValue>1</FieldValue>
        </PTQASFIELDWRK>
      </QAS_GETPRMPTTBLVAL_RESP>
    </QAS_GETPRMPTTBLVAL_RESP>
    <PTQASFIELDWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_GETPRMPTTBLVAL_RESP.VERSION_1">
      <FieldValue>2</FieldValue>
    </PTQASFIELDWRK>
  </QAS_GETPRMPTTBLVAL_RESP>
  <QAS_GETPRMPTTBLVAL_RESP>
    <PTQASFIELDWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_GETPRMPTTBLVAL_RESP.VERSION_1">
      <FieldValue>3</FieldValue>
    </PTQASFIELDWRK>
  </QAS_GETPRMPTTBLVAL_RESP>
</QAS_GETPRMPTTBLVAL_RESP_MSG>
</soapenv:Body>
</soapenv:Envelope>
```

QAS_GETXLAT_OPER

Use this service operation to return the translate values for a given field.

Request Message: QAS_GETXLAT_REQ_MSG

Element Name	Description
FieldName	Complete field name. Required.

Example Request:

This request will return the translate value for *EFF_STATUS*.


```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETXLAT_REQ_MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETXLAT_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_GETXLAT_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_GETXLAT_REQ>
        <qas1:PTQASWRK class="R">
          <qas1:FieldName>EFF_STATUS</qas1:FieldName>
        </qas1:PTQASWRK>
      </qas:QAS_GETXLAT_REQ>
    </qas:QAS_GETXLAT_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_GETXLAT_RESP_MSG

Element Name	Description
FieldValue	Translate value.
ShortName	Short name for the translate value.
LongName	Long name for the translate value.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_GETXLAT_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETXLAT_RESP_MSG.VERSION_1">
      <QAS_GETXLAT_RESP>
        <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETXLAT_RESP.VERSION_1">
          <FieldValue>A</FieldValue>
          <ShortName>Active</ShortName>
          <LongName>Active</LongName>
        </PTQASWRK>
      </QAS_GETXLAT_RESP>
    </QAS_GETXLAT_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETXLAT_RESP.VERSION_1">
      <FieldValue>I</FieldValue>
      <ShortName>Inactive</ShortName>
      <LongName>Inactive</LongName>
    </PTQASWRK>
  </QAS_GETXLAT_RESP>
</QAS_GETXLAT_RESP_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Executing the Query

This section provides an overview of the XML string and discusses the service operations to execute a query. These include:

- QAS_EXECUTEQRYSYNC_OPER
- QAS_EXECUTEQRYSYNCPOLL_OPER
- QAS_EXECUTEQRYSYNC_ASYNC_OPER

XML String

When you request to execute a query, you can either select the query name if it exists in the database, or use the XML string to request an adhoc query. The same elements are used to define the XML string as defining the query to save. If you use XML string, it must contain at least one record, one field and one select.

<Records> Request must contain at least one record.

Records Elements	Description
RCDNUM	Record number.
RCDNAME	Record name.
RCDSELECTNUM	Select number.
CORRNAME	Alias Name such as A,B,C, and so on.
JOINTYPE	Type of join. Valid values are: <ul style="list-style-type: none"> • None • Hierarchy • Related • Tree • LeftOuter • RelatedLeftOuter Value is required only when the corresponding record is part of a JOIN in the query.
JOINRCDALIAS	Record with which join is done. Value is required only when the corresponding record is part of a JOIN in the query.

Records Elements	Description
JOINFIELD	Field with which join is done. Value is required only when the corresponding record is part of a JOIN in the query.

<Fields> Request must contain at least one field.

Fields Elements	Description
FIELDNUM	Field number.
FIELDNAME	Field name.
FIELDRCDNUM	Record number.
DESCR	Description.
AGGREGATE_TYPE	Aggregation type. Note. For valid values, see QAS_SAVE_QUERY_OPER.
HEADING_TYPE	Heading type. Note. For valid values, see QAS_SAVE_QUERY_OPER.
HEADING	If the HEADING_TYPE is <i>Heading</i> , this element is used to enter the heading text.
COLUMNNUM	Column number.
ORDERBYNUM	Order by number.
ORDERBYDIR	Direction of field ordering. Note. For valid values, see QAS_SAVE_QUERY_OPER.
FIELDSELECTNUM	Identifier of SELECT in which this field is included.
EXPRESSION_AS_FIELD	A valid expression number when an expression is used as a field.

<Criteria> Enter criteria information.

Criteria Elements	Description
CRTNUM	Criterion number.
CRTNAME	Criterion name.

Criteria Elements	Description
CRTHAVINGFLAG	True if specifying a HAVING clause. Note. For valid values, see QAS_SAVE_QUERY_OPER.
CRTSELECTNUM	Selectnumber.
CRTNEGATION	Negation in criterion. Note. For valid values, see QAS_SAVE_QUERY_OPER.
CONDITION_TYPE	Condition type in criterion. Note. For valid values, see QAS_SAVE_QUERY_OPER.
LEFT_PARENTHESIS_LEVEL	Left parenthesis level specified from 0 onwards. Used for GROUP BY.
RIGHT_PARENTHESIS_LEVEL	Right parenthesis level specified from 0 onwards. Used for GROUP BY.
CRTEXP1TYPE	Expression 1 type in criterion.
CRTEXP1TEXT	Expression text for criterion 1.
CRTEXP1RCDALIAS	Record alias for record used in expression 1 in criterion.
CRTEXP1FIELD	Field used in expression 1 for criterion.
CRTEXP2RCDALIAS	Record alias for record used in expression 2 for criterion.
CRTEXP2FIELD	Field used in expression 2 for criterion.
CRTEXP2TYPE	Expression 2 type in criterion. Note. For valid values, see QAS_SAVE_QUERY_OPER.
CRTEXP2TEXT	Expression 2 text.
CRTLOGICALOPER	Logical operator that links the criteria. Note. For valid values, see QAS_SAVE_QUERY_OPER.

<Expressions> Enter expression information.

Expressions Elements	Description
EXPNUM	Expression Number.

Expressions Elements	Description
EXPSELECTNUM	Expression's SELECT Number.
EXPNAME	Expression Name.
EXPTYPE	Expression Type. Note. For valid values, see QAS_SAVE_QUERY_OPER.
EXPLENGTH	Expression Length.
EXPDECIMALPOS	Number of Decimal Places.
EXPTEXT	Expression Text.
EXPAGGREGATE	Specifies if the expression is an aggregate function.

<Prompts> Enter prompt information.

Prompt Elements	Description
PROMPT_NUM	Prompt number.
PROMPT_NAME	Unique prompt name. This is the UniquePromptName value returned from the service operation QAS_LISTQUERYPROMPTS_OPER.
PROMPT_FLDNAME	Name of the field used as prompt.
PROMPT_UNIQUE_NAME	Unique prompt name.
PROMPT_TABLE	Prompt table
PROMPT_EDITTYPE	Edit type. Note. For valid values, see QAS_SAVE_QUERY_OPER.
PROMPT_HEADING	Heading of prompt.
PROMPT_HEADINGTYPE	Type of prompt heading. Note. For valid values, see QAS_SAVE_QUERY_OPER.
PROMPT_FLDLENGTH	Field length for prompt.
PROMPT_FLDDECIMALPOS	Number of decimal positions in prompt.

<Select> XML String must include at least one select.

Select Elements	Description
SELECTNUM	SELECT number.
PARENTSELECTNUM	Number of parent SELECT. For main SELECT, this must be set to 0.
SELECTTYPE	Type of selection. Note. For valid values, see QAS_SAVE_QUERY_OPER.
QRYDISTINCT	Indicate whether this query is distinct. Note. For valid values, see QAS_SAVE_QUERY_OPER.

QAS_EXECUTEQRYSYNC_OPER

Use this service operation to synchronously execute a query and receive the query results in the format selected in the service operation request. The response message depends on the request was for a file or a non file format.

Request Message: QAS_EXEQRY_SYNC_REQ_MSG

Element Name	Description
QueryName Required element unless you are using XML string	Query name. Required unless you are using an XML string.
isConnectedQuery Required element	Indicate whether this is a connected query. Valid values are <i>Y</i> or <i>N</i> in either upper or lower case. Note. The default value is <i>N</i> .
XMLString	XML string. Note. XML string is used only for ad hoc queries. See XML String for the elements.
OwnerType Required element	Query owner type, <i>public</i> or <i>private</i> in either uppercase or lowercase. Required.
BlockSizeKB Required element	Blocksize is used only for synchronous poll. For synchronous execution, the value should be set to 0 (zero). The default value is 0.
MaxRows Required element	The maximum number of rows to be fetched.

<i>Element Name</i>	<i>Description</i>
OutResultType Required element	<p>Select the output type. Valid values are:</p> <ul style="list-style-type: none"> • WEBROWSET • XMLP • EXCEL • HTML <p>Note. For connected queries, the output type must be XMLP.</p> <p>See Chapter 4, "Executing a Query," Output Format and Output Type, page 59.</p>
OutResultFormat Required element	<p>Select the output format. Valid values are:</p> <ul style="list-style-type: none"> • FILE • NONFILE <p>Note. For connected queries, the output format must be FILE.</p>

<Prompts> These elements are used for Connected Query or queries containing prompts. .

<i>Prompt Elements</i>	<i>Description</i>
PSQueryName	This field is used only for Connected Query. Enter the name of the query containing the prompt.
UniquePromptName	<p>Unique prompt name defined in the query. This value is case-sensitive.</p> <p>Use the service operation QAS_LISTQUERYPROMPTS_OPER to find the unique prompt name.</p>
FieldValue	<p>Field value for the prompt. This value is case-sensitive.</p> <p>Note. Date fields require the date format as YYYY-MM-DD.</p>

<FieldFilter> If you want to return only specific fields in the query, indicate each field you want returned.

<i>FilterFieldName Element</i>	<i>Description</i>
FilterFieldName	List of field names to be returned. This value is case sensitive and must be the unique field name as returned by the service operation QAS_LISTQUERYFIELDS.

Example Request:

This request will execute the query *MSGCAT_PROMPT*, the unique name for the prompt is *Set* and the prompt value is 2.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY_SYNC_REQ_MSG.⇒
VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY⇒
_SYNC_REQ.⇒
VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_EXEQRY_SYNC_REQ_MSG>
      <qas1:QAS_EXEQRY_SYNC_REQ>
        <QueryName>MSGCAT_PROMPT</QueryName>
        <isConnectedQuery>N</isConnectedQuery>
        <OwnerType>PUBLIC</OwnerType>
        <BlockSizeKB>0</BlockSizeKB>
        <MaxRow>2</MaxRow>
        <OutResultType>XMLP</OutResultType>
        <OutResultFormat>FILE</OutResultFormat>
        <Prompts>
          <!--Zero or more repetitions:-->
          <PROMPT>
            <PSQueryName></PSQueryName>
            <UniquePromptName>BIND1</UniquePromptName>
            <FieldValue>2</FieldValue>
          </PROMPT>
        </Prompts>
      </qas1:QAS_EXEQRY_SYNC_REQ>
    </qas:QAS_EXEQRY_SYNC_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_QUERYRESULTS_FILE_RESP

This response is used when the output format requested is *FILE*.

<i>Element Name</i>	<i>Description</i>
QueryResults	File URL

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/⇒
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_GETQUERYRESULTS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/⇒
schemas/QAS_GETQUERYRESULTS_RESP_MSG.VERSION_1">
      <QAS_QUERYRESULTS_FILE_RESP xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/⇒
schemas/QAS_QUERYRESULTS_FILE_RESP.VERSION_1">
        <FILEURL>http://ple-infodev-08.peoplesoft.com:8010/psreports/QEDMO/⇒
99999957/MSGCAT_PROMPT.xml</FILEURL>
      </QAS_QUERYRESULTS_FILE_RESP>
    </QAS_GETQUERYRESULTS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```


Response Message: QAS_QUERYRESULTS_WRS_RESP

This response is used when the requested output format is *NONFILE* and the output type is *WEBROWSET*.

Element Name	Description
QueryResults	Query Result in webrowset format.

Example Response for webrowset:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_GETQUERYRESULTS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools⇒
/schemas/QAS_GETQUERYRESULTS_RESP_MSG.VERSION_1">
      <webRowSet xmlns="http://java.sun.com/xml/ns/jdbc">
        <properties>
          <escape-processing>true</escape-processing>
          <fetch-direction>1000</fetch-direction>
          <fetch-size>0</fetch-size>
          <isolation-level>1</isolation-level>
          <key-columns/>
          <map/>
          <max-field-size>0</max-field-size>
          <max-rows>0</max-rows>
          <query-timeout>0</query-timeout>
          <read-only>true</read-only>
          <show-deleted>false</show-deleted>
          <table-name/>
        </properties>
        <metadata>
          <column-count>5</column-count>
          <column-definition>
            <column-index>1</column-index>
            <auto-increment>false</auto-increment>
            <case-sensitive>false</case-sensitive>
            <currency>false</currency>
            <nullable>0</nullable>
            <signed>false</signed>
            <searchable>false</searchable>
            <column-display-size>0</column-display-size>
            <column-label>Set</column-label>
            <column-name>A.MESSAGE_SET_NBR</column-name>
            <schema-name/>
            <column-precision>0</column-precision>
            <column-scale>0</column-scale>
            <table-name/>
            <catalog-name/>
            <column-type>4</column-type>
            <column-type-name>INTEGER</column-type-name>
          </column-definition>
          <column-definition>
            <column-index>2</column-index>
            <auto-increment>false</auto-increment>
            <case-sensitive>false</case-sensitive>
            <currency>false</currency>
            <nullable>0</nullable>
            <signed>false</signed>
            <searchable>false</searchable>
            <column-display-size>0</column-display-size>
            <column-label>Descr</column-label>
            <column-name>A.DESCR</column-name>
            <schema-name/>
            <column-precision>0</column-precision>
            <column-scale>0</column-scale>
            <table-name/>
            <catalog-name/>
            <column-type>12</column-type>
            <column-type-name>VARCHAR</column-type-name>
          </column-definition>
        </column-definition>
      </webRowSet>
    </QAS_GETQUERYRESULTS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

```

    <column-index>3</column-index>
    <auto-increment>>false</auto-increment>
    <case-sensitive>>false</case-sensitive>
    <currency>>false</currency>
    <nullable>0</nullable>
    <signed>>false</signed>
    <searchable>>false</searchable>
    <column-display-size>0</column-display-size>
    <column-label>Msg</column-label>
    <column-name>B.MESSAGE_NBR</column-name>
    <schema-name/>
    <column-precision>0</column-precision>
    <column-scale>0</column-scale>
    <table-name/>
    <catalog-name/>
    <column-type>4</column-type>
    <column-type-name>INTEGER</column-type-name>
  </column-definition>
  <column-definition>
    <column-index>4</column-index>
    <auto-increment>>false</auto-increment>
    <case-sensitive>>false</case-sensitive>
    <currency>>false</currency>
    <nullable>0</nullable>
    <signed>>false</signed>
    <searchable>>false</searchable>
    <column-display-size>0</column-display-size>
    <column-label>Message</column-label>
    <column-name>B.MESSAGE_TEXT</column-name>
    <schema-name/>
    <column-precision>0</column-precision>
    <column-scale>0</column-scale>
    <table-name/>
    <catalog-name/>
    <column-type>12</column-type>
    <column-type-name>VARCHAR</column-type-name>
  </column-definition>
  <column-definition>
    <column-index>5</column-index>
    <auto-increment>>false</auto-increment>
    <case-sensitive>>false</case-sensitive>
    <currency>>false</currency>
    <nullable>0</nullable>
    <signed>>false</signed>
    <searchable>>false</searchable>
    <column-display-size>0</column-display-size>
    <column-label>Severity</column-label>
    <column-name>B.MSG_SEVERITY</column-name>
    <schema-name/>
    <column-precision>0</column-precision>
    <column-scale>0</column-scale>
    <table-name/>
    <catalog-name/>
    <column-type>12</column-type>
    <column-type-name>VARCHAR</column-type-name>
  </column-definition>
</metadata>
<data>
  <currentRow>
    <columnValue>2</columnValue>
    <columnValue>PeopleCode</columnValue>
    <columnValue>1</columnValue>
    <columnValue>Invalid use of !.</columnValue>
    <columnValue>E</columnValue>
  </currentRow>
</data>

```

```

        </currentRow>
        <currentRow>
            <columnValue>2</columnValue>
            <columnValue>PeopleCode</columnValue>
            <columnValue>2</columnValue>
            <columnValue>Literal is too long.</columnValue>
            <columnValue>E</columnValue>
        </currentRow>
    </data>
</webRowSet>
</QAS_GETQUERYRESULTS_RESP_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_QUERYRESULTS_XMLP_RESP

This response is used when the requested output is *NONFILE* and the output type is *XMLP*.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <soapenv:Body>
        <QAS_GETQUERYRESULTS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools⇒
/schemas/QAS_GETQUERYRESULTS_RESP_MSG.VERSION_1">
            <query numRows="2" queryname="MSGCAT_PROMPT" xsi:noNamespaceSchema⇒
Location="">
                <row rownumber="1">
                    <MESSAGE_SET_NBR>2</MESSAGE_SET_NBR>
                    <DESCR>PeopleCode</DESCR>
                    <MESSAGE_NBR>1</MESSAGE_NBR>
                    <MESSAGE_TEXT>Invalid use of !.</MESSAGE_TEXT>
                    <MSG_SEVERITY>E</MSG_SEVERITY>
                </row>
                <row rownumber="2">
                    <MESSAGE_SET_NBR>2</MESSAGE_SET_NBR>
                    <DESCR>PeopleCode</DESCR>
                    <MESSAGE_NBR>2</MESSAGE_NBR>
                    <MESSAGE_TEXT>Literal is too long.</MESSAGE_TEXT>
                    <MSG_SEVERITY>E</MSG_SEVERITY>
                </row>
            </query>
        </QAS_GETQUERYRESULTS_RESP_MSG>
    </soapenv:Body>
</soapenv:Envelope>

```

QAS_EXECUTEQRYSYNCPOLL_OPER

This service operation runs the query request in the Process Scheduler. This service operation should be used for long running queries or queries with large result sets. The query is executed in batch mode through Integration Broker asynchronous servers (Pub/Sub) and the Process Schedulers.

When a client request for QAS_EXECUTEQRY_SYNCPOLL_OPER is received by the Integration Broker, the following occurs:

1. An asynchronous one way service operation which gets processed by Integration Broker.

- The query instance ID (transaction ID) is returned to the requester.

The requester can use the query instance to poll for the status (QAS_QUERYSTATUS_OPER) and to retrieve the query results (QAS_GETQUERYRESULTS_OPER).

- The service operation schedules the application engine program QASEXEQR in the Process Scheduler.

The user ID in the request header must have permission to execute the QASEXEQR application engine program, as well as permission for the service operation. The PeopleSoft delivered role *QAS Admin* grants the necessary permissions.

Note. Pub/Sub and Process Scheduler must be running on the application server for the QAS_EXECUTEQRYSYNCPOLL_OPER service operations to be queued and processed.

When the execute query sync poll request is processed, it will validate the query fields and query prompts. If the client application sending the request caches the query definition, the client application can assume the query definition has not changed and it is not necessary to make calls to ListQueryFields and ListQueryPrompts. If the client application receives an error, such as incorrect field name or incorrect prompt value, then the client application should assume that the query definition has been updated. If the query definition has been updated, then the client application will need to make calls to ListQueryFields and ListQueryPrompts.

Request Message: QAS_EXEQRYSYNCPOLL_REQ_MSG

Element Name	Description
QueryName Required element unless you are using XML string	Query name.
isConnectedQuery Required element	Indicate whether this is a connected query. Valid values are <i>Y</i> and <i>N</i> .
XMLString	XML string. Note. See XML String.
OwnerType Required element	Query owner type.
BlockSizeKB Required element	If the output format is nonfile, indicate the block size to use for chunking the response. BlockSizeKB is a number of length 10 with a decimal position of 0. Block size is in bytes. Note. The number of calls made to GetQueryResult reduces as the block size value increases. Thus, increasing performance. <u>See Chapter 4, "Executing a Query," Performance Considerations, page 58.</u>

Element Name	Description
MaxRows Required element	The maximum number of rows to be fetched
OutResultType Required element	<p>Select the output type. Valid values are:</p> <ul style="list-style-type: none"> • WEBROWSET • XMLP • EXCEL • HTML <p>Note. For connected queries, the output type must be XMLP.</p> <p>See Chapter 4, "Executing a Query," Output Format and Output Type, page 59.</p>
OutResultFormat Required element	<p>Select the output format. Valid values are:</p> <ul style="list-style-type: none"> • FILE • NONFILE <p>Note. For connected queries, the output format must be FILE.</p>

<Prompts> These elements are used for Connected Query or queries containing prompts. .

Prompt Elements	Description
PSQueryName	This field is used only for Connected Query. Enter the name of the query containing the prompt.
UniquePromptName	<p>Unique prompt name defined in the query. This value is case-sensitive.</p> <p>Use the service operation QAS_LISTQUERYPROMPTS_OPER to find the unique prompt name.</p>
FieldValue	<p>Field value for the prompt. This value is case-sensitive.</p> <p>Note. Date fields require the date format as YYYY-MM-DD.</p>

<FieldFilter> If you want to return only specific fields in the query, indicate each field you want returned.

FilterFieldName Element	Description
FilterFieldName	List of field names to be returned. This value is case sensitive and must be the unique field name as returned by the service operation QAS_LISTQUERYFIELDS.

Example Request:

This request will execute the query XRFWIN with an output type of XMLP and output format of FILE.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY_SYNCPLL_REQ_MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY_SYNCPLL_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_EXEQRY_SYNCPLL_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas1:QAS_EXEQRY_SYNCPLL_REQ>
        <QueryName>XRFWIN</QueryName>
        <isConnectedQuery>n</isConnectedQuery>
        <XMLString/>
        <OwnerType>public</OwnerType>
        <BlockSizeKB></BlockSizeKB>
        <MaxRow>3</MaxRow>
        <OutResultType>XMLP</OutResultType>
        <OutResultFormat>FILE</OutResultFormat>
      </qas1:QAS_EXEQRY_SYNCPLL_REQ>
    </qas:QAS_EXEQRY_SYNCPLL_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_EXEQRYSYNCPLL_RESP_MSG

Element Name	Description
QueryInstance	Query instance ID. This instance ID is used for GetQueryStatus, CancelQuery, and GetQueryResult.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_EXEQRYSYNCPLL_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRYSYNCPLL_RESP_MSG.VERSION_1">
      <QAS_EXEQRYSYNCPLL_RESP>
        <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRYSYNCPLL_RESP.VERSION_1">
          <QueryInstance>8995a01e-0a75-11dd-9c24-98a15db6aa18</QueryInstance>
        </PTQASWRK>
      </QAS_EXEQRYSYNCPLL_RESP>
    </QAS_EXEQRYSYNCPLL_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_EXECUTEQRYASYNC_OPER

QAS supports running a query asynchronously. The request is received and executed. When the query has been completed, the results are asynchronously sent back to the requesting system.

Note. Pub/Sub must be running on the applications server for asynchronous service operations to be queued and processed.

For asynchronous requests, parameters are mandatory in the SOAP header in order to receive the response. This table lists the Reply To elements in the SOAP header:

These are standard parameters for any asynchronous request/response web service.

<i>Element</i>	<i>Description</i>
Address	Address where the http listener is running on the client application. The Address should be valid and should be accessible to Integration Broker in order to return the query result. If not, the results will never be returned.
ReferenceProperties	Any reference properties necessary for the client application.
PortType	Operations of the service.
Any additional elements	Any additional elements necessary for the client application.
MessageID	Unique message ID. Every request to execute query asynchronously should have a different value for MessageID.

This service operation is used to asynchronously request query execution and return the query results. The response message depends on the result type requested (OutResultType).

Request Message: QAS_EXEQRY_ASYNC_REQ_MSG

<i>Element Name</i>	<i>Description</i>
QueryName	Query name.
isConnectedQuery	Indicate whether this is a connected query. Valid values are <i>Y</i> and <i>N</i> .
XMLString	XML string. Note. See XML String for the elements.
OwnerType	Query owner type.

Element Name	Description
BlockSizeKB Required element	<p>If the output format is nonfile, indicate the block size to use for chunking the response. BlockSizeKB is a number of length 10 with a decimal position of 0. Block size is in bytes.</p> <p>Note. If the BlockSize is 0 all query results are retrieved in 1 block.</p>
MaxRows	The maximum number of rows to be fetched
OutResultType	<p>Select the output type. Valid values are:</p> <ul style="list-style-type: none"> • WEBROWSET • XMLP • EXCEL • HTML <p>Note. For connected queries, the output type must be XMLP.</p>
OutResultFormat	<p>Select the output format. Valid values are:</p> <ul style="list-style-type: none"> • FILE • NONFILE <p>Note. For connected queries, the output format must be FILE.</p>

<Prompts> These elements are used for Connected Query or queries containing prompts. .

Prompt Elements	Description
PSQueryName	This field is used only for Connected Query. Enter the name of the query containing the prompt.
UniquePromptName	<p>Unique prompt name defined in the query. This value is case-sensitive.</p> <p>Use the service operation QAS_LISTQUERYPROMPTS_OPER to find the unique prompt name.</p>
FieldValue	<p>Field value for the prompt. This value is case-sensitive.</p> <p>Note. Date fields require the date format as YYYY-MM-DD.</p>

<FieldFilter> If you want to return only specific fields in the query, indicate each field you want returned.

FilterFieldName Element	Description
FilterFieldName	List of field names to be returned. This value is case sensitive and must be the unique field name as returned by the service operation QAS_LISTQUERYFIELDS.

Example Request:

This is an example request to run the query MSGCAT_PROMPT and notify the client application when the request has finished.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
add="http://schemas.xmlsoap.org/ws/2003/03/addressing" xmlns:qas="http://xmlns.⇒
oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY_ASYNC_REQ_MSG.VERSION_1" xmlns:qas1⇒
="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_EXEQRY_ASYNC_REQ.VERSION_1">
  <soapenv:Header>
    <add:ReplyTo>
      <add:Address>http://ple-indodev-08:8082/qasrefapp/callbackservice⇒
    </add:Address>
    </add:ReplyTo>
    <add:MessageID>2ae456542b</add:MessageID>
  </soapenv:Header>
  <soapenv:Body>
    <qas:QAS_EXEQRY_ASYNC_REQ_MSG>
      <qas1:QAS_EXEQRY_ASYNC_REQ>
        <QueryName>xrfwin</QueryName>
        <isConnectedQuery>n</isConnectedQuery>
        <OwnerType>public</OwnerType>
        <BlockSizeKB>0</BlockSizeKB>
        <MaxRow></MaxRow>
        <OutResultType>xmlp</OutResultType>
        <OutResultFormat>NONFILE</OutResultFormat>
      </qas1:QAS_EXEQRY_ASYNC_REQ>
    </qas:QAS_EXEQRY_ASYNC_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

**For Webrowset , the Response Message is QAS_EXECUTEQRYASYNC_RESP_MSG:
QAS_QUERYRESULTS_WSR_RESP**

Element Name	Description
QueryResults	Query Result in webrowset format

Example Response:

For File, the Response Message is QAS_QUERYRESULTS_FILE_RESP.

Element Name	Description
FILEURL	File URL

Retrieving Query Results

The service operation QAS_GETQUERYRESULTS_OPER is used only to retrieve the query results for the QAS_EXECUTEQRYSYNCPOLL_OPER service call.

Query results are stored either in message segments or in an XML file. Segments can contain rows of data (nonrowset-based messages). When the query result is stored in the XML file, QAS will return the URL of the file location.

QAS_GETQUERYRESULTS_OPER

This service operation is used to retrieve the query results.

Request Message: QAS_GETQUERYRESULTS_REQ_MSG

Element Name	Description
BlockNumber	<p>The number of blocks to be retrieved.</p> <p>Query result is retrieved starting from block 1 in sequential order until the final block is retrieved.</p> <p>Note. The block that contains status <i>finalBlockRetrieved</i> is the final block.</p>
QueryInstance	Query instance ID.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETQUERYRESULTS_REQ_MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_GETQUERYRESULTS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_GETQUERYRESULTS_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_GETQUERYRESULTS_REQ>
        <qas1:PTQASWRK class="R">
          <qas1:BlockNumber>1</qas1:BlockNumber>
          <qas1:QueryInstance>8995a01e-0a75-11dd-9c24-98a15db6aa18</qas1:
QueryInstance>
        </qas1:PTQASWRK>
      </qas:QAS_GETQUERYRESULTS_REQ>
    </qas:QAS_GETQUERYRESULTS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_GETQUERYRESULTS_RESP_MSG

Depending on the output format requested, the response will be either a file URL or the query result in webbrowser or XMLP format.

Element Name	Description
FILEURL	Returns FILE URL.
status	<p>If the output format is file, the return status will be either <i>success</i> or <i>failure</i>.</p> <p>If the output format is non file the return status will be one of the following:</p> <ul style="list-style-type: none"> <i>running</i> or <i>queued</i> indicates that clients have to continue polling for the same block until a status <i>blockRetrieved</i> or <i>finalBlockRetrieved</i> is returned. <i>blockRetrieved</i> indicates that the clients have received 1 block of query result and will have to poll for the next block. <i>finalBlockRetrieved</i> indicates that there are no more blocks to retrieve and clients can stop polling for results.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_GETQUERYRESULTS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_GETQUERYRESULTS_RESP_MSG.VERSION_1">
      <QAS_QUERYRESULTS_FILE_RESP xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_QUERYRESULTS_FILE_RESP.VERSION_1">
        <FILEURL>http://ple-infodev-09.peoplesoft.com:8010/psreports/QEDMO⇒
/99999911/XRFWIN.xml</FILEURL>
        <status>success</status>
      </QAS_QUERYRESULTS_FILE_RESP>
    </QAS_GETQUERYRESULTS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Canceling a Query

The service operation QAS_CANCELQUERY_OPER is used to cancel a query after execution. You need to cancel a query using the query instance ID to clean up the PSQASRUN table. The QAS Administration page can also be used to clear any orphaned rows in the PSQASRUN table.

See [Chapter 5, "Accessing PeopleSoft Application Tables," Using QAS Administration, page 115.](#)

QAS_CANCELQUERY_OPER

This service operation is used to cancel an executed query.

Request Message: QAS_CANCELQUERY_REQ_MSG

<i>Element Name</i>	<i>Description</i>
QueryInstanceID	Query Instance ID

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_CANCELQUERY_REQ_MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_CANCELQUERY_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_CANCELQUERY_REQ_MSG>
      <qas:QAS_CANCELQUERY_REQ>
        <qas1:PTQASWRK class="R">
          <qas1:QueryInstanceID>ab621810-5437-11dd-83cd-a32b27c3af6a</qas1:QueryInstanceID>
        </qas1:PTQASWRK>
      </qas:QAS_CANCELQUERY_REQ>
    </qas:QAS_CANCELQUERY_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_CANCELQUERY_RESP_MSG

<i>Element Name</i>	<i>Description</i>
Status	<p>Return status. Valid values are:</p> <ul style="list-style-type: none"> idNotFound Used when the queryInstanceID isn't correct. fail success

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_CANCELQUERY_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools⇒
/schemas/QAS_CANCELQUERY_RESP_MSG.VERSION_1">
      <QAS_CANCELQUERY_RESP>
        <PTQASSTATWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise⇒
/Tools/schemas/QAS_CANCELQUERY_RESP.VERSION_1">
          <Status>success</Status>
        </PTQASSTATWRK>
      </QAS_CANCELQUERY_RESP>
    </QAS_CANCELQUERY_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Retrieving Query Status

The service operation QAS_QUERYSTATUS_OPER is used to return the status of query execution. This service operation returns the QAS status, not the Process Scheduler status.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Using Process Monitor," Process Request Run Status.

QAS_QUERYSTATUS_OPER

This service operation returns current query status.

Request Message: QAS_QUERYSTATUS_REQ_MSG

Element Name	Description
QueryInstanceID	Query instance ID.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_QUERYSTATUS_REQ_⇒
MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_⇒
QUERYSTATUS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_QUERYSTATUS_REQ_MSG>
      <qas:QAS_QUERYSTATUS_REQ>
        <qas1:PTQASWRK class="R">
          <qas1:QueryInstanceID>64ef3e36-5cf6-11dd-a1b6-cf9c0ed84831</qas1:⇒
QueryInstanceID>
        </qas1:PTQASWRK>
      </qas:QAS_QUERYSTATUS_REQ>
    </qas:QAS_QUERYSTATUS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_QUERYSTATUS_RESP_MSG

<i>Element Name</i>	<i>Description</i>
Status	Returns query status. Values are: <ul style="list-style-type: none"> • idNotFound • running • killed • posting • last • queued • success • error
NumCols	Number of columns.
TotalRows	Total number of rows.
TotalBlocks	Always returns 0.
TotalBytes	Total number of bytes.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_QUERYSTATUS_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools
/schemas/QAS_QUERYSTATUS_RESP_MSG.VERSION_1">
      <QAS_QUERYSTATUS_RESP>
        <PTQASSTATWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise
/Tools/schemas/QAS_QUERYSTATUS_RESP.VERSION_1">
          <Status>running</Status>
          <NumColumns>0</NumColumns>
          <TotalBlocks>0</TotalBlocks>
          <TotalBytes>0</TotalBytes>
          <TotalRows>0</TotalRows>
        </PTQASSTATWRK>
      </QAS_QUERYSTATUS_RESP>
    </QAS_QUERYSTATUS_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```


Chapter 5

Accessing PeopleSoft Application Tables

The application data tables available for QAS service operations use Query Security. This chapter provides an overview of QAS security and discusses:

- QAS security service operations.
- How to use QAS administration.

Understanding QAS Security

This section discusses the three parts that are included in QAS security:

- Query security
- Service Operation security
- WS-Security
- Process Profile

This section also discusses QAS security flow.

Query Security

PeopleSoft Query uses query access group trees to control security of the tables in your PeopleSoft database. You define a hierarchy of record components, based on logical or functional groupings, and then give users access to one or more branches of the tree. Users can use PeopleSoft Query to retrieve information only from record definitions they have access to based on the query access tree assignment.

See Also

PeopleTools 8.52: PeopleSoft Query, "PeopleSoft Query Security"

Service Operation Security

QAS service operations are delivered with User/Password Required enabled and WS Security Req Verification set to *Encrypt and Digitally Sign or HTTPS..*

Client applications using QAS service operations must either digitally encrypt and sign the request or send the request over HTTPS.

Service operations are secured by means of permission lists. PeopleSoft applications deliver the permission list *PTPT2200* (QAS access), which has full access to all QAS service operations and the application engine program *QASEXEQR*. The role *QAS Admin* contains the permission list *PTPT2200*. Any users assigned the role *QAS Admin* can access the QAS service operations.

WS-Security

Web services security (WS-Security) is implemented on the integration gateway for inbound and outbound integrations with third-party systems. QAS service operations use WS-Security.

See [Chapter 1, "Getting Started with Reporting Web Services," WS-Security, page 2.](#)

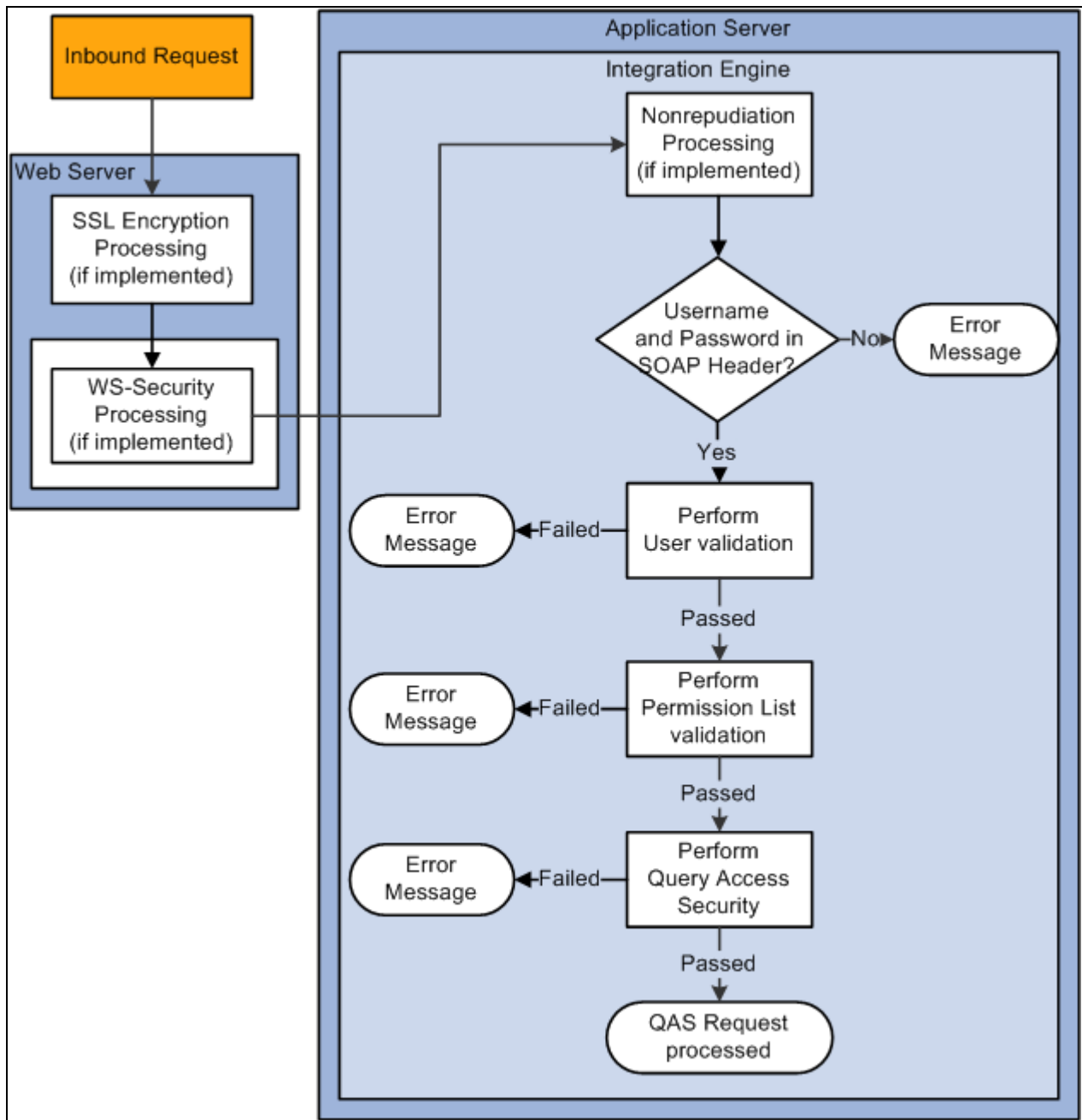
Process Profile

The service operation *QAS_EXECUTEQRYSYNCPOLL_OPER* schedules the application engine program *QASEXEQR* to run in Process Scheduler, therefore the user initiating the request must have permission to run *QASEXEQR* in the Process Profile.

See [Chapter 4, "Executing a Query," QAS_EXECUTEQRYSYNCPOLL_OPER, page 92.](#)

QAS Security Flow

This diagram illustrates the QAS request inbound flow from a third-party system in the Integration Broker:



QAS request from a third-party security flow

When any transaction arrives at the integration gateway, the PeopleSoft system checks for the existence of a WS-Security SOAP header. If it exists, the integration gateway validates the digital signature if it exists, and decrypts the UsernameToken and optional password to restore the user ID information to clear text format. The integration gateway then passes the user ID information, and UsernameToken password if provided by the sender, to the application server, where additional security processing is performed.

If a user name and password are supplied in the SOAP header, the user is validated in the PeopleSoft system.

If no user ID and password are supplied, the request is rejected.

The PeopleSoft system then validates whether the user's permission list grants access to the QAS service operation.

If the user is authorized to the service operation, then Query Access security is used and the request is processed.

QAS Security Service Operations

Query access security is defined on permission lists. Roles contain one or more permission lists and the user is assigned roles. Several service operations are available that a third party can use to list roles and role users.

QAS_AUTHTOKEN_OPER

This service operation is used to retrieve the user ID for a PSToken. This service operation is used when a Business Object Enterprise (BOE) report is run through the Process Scheduler. The PSToken is sent in the HTTP header over HTTPS. BOE will use this service operation to determine the user ID requesting the report.

Request Message: QAS_AUTHTOKEN_REQ_MSG

Element Name	Description
PSTOKEN	PeopleSoft authorization token.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_AUTHTOKEN_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_AUTHTOKEN_REQ_MSG>
      <PSTOKEN>owAAAAQDAgEBAAAAvAIAAAAAAAsAAAAABABTaGRyAk4AbQg4AC4AMQAwABRKm1RLE0z=Cq6JFYA=
      oVWo7oKO6qVGMAAAAFaFNkYXRhV3icy2VgYGBhZmJkBNJ7mBjAgCuQwZXBhcGXwZ+BzZXBj8GdQQAkEs/g=
      A=
      xRxZnAE0iZGDAZAaMmgCySNgKQRgxmybcqgByUNwaQlUMYQrNaAgQEAbO8LPQ==; http%3a%2f%2fple-
      in=
      fodev-08.peoplesoft.com%3a8010%2fpsp%2fqedmo%2femployee%2fqe_local%2ffrefresh=list:=
      ;=
      HPTabName=DEFAULT</PSTOKEN>
    </qas:QAS_AUTHTOKEN_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_AUTHTOKEN_RESP_MSG

Element	Description
LoginUser	Returns the user ID for the PSToken.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/⇒
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <qss:QAS_AUTHTOKEN_RESP_MSG xmlns:qss="http://xmlns.oracle.com/Enterprise⇒
/Tools⇒
/schemas/QAS_AUTHTOKEN_RESP_MSG.VERSION_1">
      <LoginUser>QEDMO</LoginUser>
    </qss:QAS_AUTHTOKEN_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

QAS_LISTROLE_OPER

Use this service operation to get a list of roles, along with descriptions.

Request Message: QAS_LISTROLE_REQ_MSG

<i>Element name</i>	<i>Description</i>
SearchString	Search string used for specifying the role name or the first few characters of the role name. If no value is entered, all roles will be returned. This value is case-sensitive.

Example Request:

This is an example of a request to select all roles that begin with *QAS*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTROLE_REQ_⇒
MSG.VERSION_1" xmlns:qas1="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_⇒
LISTROLE_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTROLE_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_LISTROLE_REQ>
        <qas1:PTQASWRK class="R">
          <!--Optional:-->
          <qas1:SearchString>QAS</qas1:SearchString>
        </qas1:PTQASWRK>
      </qas:QAS_LISTROLE_REQ>
    </qas:QAS_LISTROLE_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTROLE_RESP_MSG

<i>Element Name</i>	<i>Description</i>
RoleName	Role name.

Element Name	Description
Description	Role description.

Example Response:

```
<?xml version="1.0"?>
<QAS_LISTROLE_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_→
LISTROLE_RESP_MSG.VERSION_1">
  <QAS_LISTROLE_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools→
/schemas/QAS_LISTROLE_RESP.VERSION_1">
      <RoleName>QAS Admin</RoleName>
      <Description>QAS Administrators</Description>
    </PTQASWRK>
  </QAS_LISTROLE_RESP>
</QAS_LISTROLE_RESP_MSG>
```

QAS_LISTUSERROLES_OPER

Use this service operation to get a list of roles for a given user, along with descriptions.

Request Message: QAS_LISTUSERROLES_REQ_MSG

Element Name	Description
UserName Required element	Complete user name. Required and case-sensitive.
SearchString	Search string used for specifying the role name or the first few characters of the role name. If no value is entered, all roles for the user will be returned. This value is case-sensitive.

Example Request:

This is an example of a request to select all roles for the user *PSADMIN*.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSERROLES_REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSERROLES_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTUSERROLES_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_LISTUSERROLES_REQ>
        <qasl:PTQASWRK class="R">
          <qasl:UserName>PSADMIN</qasl:UserName>
          <!--Optional:-->
          <qasl:SearchString></qasl:SearchString>
        </qasl:PTQASWRK>
      </qas:QAS_LISTUSERROLES_REQ>
    </qas:QAS_LISTUSERROLES_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: QAS_LISTUSERROLES_RESP_MSG

Element Name	Description
RoleName	Role name.
Description	Role description.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <QAS_LISTUSERROLES_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSERROLES_RESP_MSG.VERSION_1">
      <QAS_LISTUSERROLES_RESP>
        <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSERROLES_RESP.VERSION_1">
          <RoleName>PeopleSoft Administrator</RoleName>
          <Description>PeopleSoft Admin Privileges</Description>
        </PTQASWRK>
      </QAS_LISTUSERROLES_RESP>
    </QAS_LISTUSERROLES_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSERROLES_RESP.VERSION_1">
      <RoleName>PeopleSoft User</RoleName>
      <Description>PeopleSoft User</Description>
    </PTQASWRK>
  </QAS_LISTUSERROLES_RESP>
</QAS_LISTUSERROLES_RESP_MSG>
</soapenv:Body>
</soapenv:Envelope>

```

QAS_LISTUSER_OPER

Use this service operation to get a list of users, along with descriptions.

Request Message: QAS_LISTUSER_REQ_MSG

Element Name	Description
SearchString	Search string used for specifying the user name or the first few characters of the user name. If no value is entered, all users will be returned. This value is case-sensitive.

Example Request:

This is an example of a request to select all users that begin with *PS*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTUSER_
REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas
/QAS_LISTUSER_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTUSER_REQ_MSG>
      <qas:QAS_LISTUSER_REQ>
        <qasl:PTQASWRK class="R">
          <!--Optional:-->
          <qasl:SearchString>PS</qasl:SearchString>
        </qasl:PTQASWRK>
      </qas:QAS_LISTUSER_REQ>
    </qas:QAS_LISTUSER_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTUSER_RESP_MSG

Element Name	Description
UserName	User name.
Description	User description.

Example Response:

```
<?xml version="1.0"?>
<QAS_LISTUSER_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_
=>
=>
=>
=>
LISTUSER_RESP_MSG.VERSION_1">
  <QAS_LISTUSER_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools=>
/schemas/QAS_LISTUSER_RESP.VERSION_1">
      <UserName>PSADMIN</UserName>
      <Description>PeopleSoft Administrator</Description>
    </PTQASWRK>
  </QAS_LISTUSER_RESP>
</QAS_LISTUSER_RESP_MSG>
```


QAS_LISTROLEUSERS_OPER

Use this service operation to get a list of users for a given role, along with descriptions.

Request Message: QAS_LISTROLEUSERS_REQ_MSG

<i>Element Name</i>	<i>Description</i>
RoleName Required element	Complete role name. Required and case-sensitive.
SearchString	Optional search string used for specifying the user name or the first few characters of the user name. If no value is entered, all users for the role will be returned. This value is case-sensitive.

Example Request:

This is an example of a request to select all users that begin with *PS* and have the role *PeopleSoft Administration*.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTROLEUSERS_REQ_MSG.VERSION_1" xmlns:qasl="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LISTROLEUSERS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:QAS_LISTROLEUSERS_REQ_MSG>
      <!--Zero or more repetitions:-->
      <qas:QAS_LISTROLEUSERS_REQ>
        <qasl:PTQASWRK class="R">
          <qasl:RoleName>PeopleSoft Administrator</qasl:RoleName>
          <!--Optional:-->
          <qasl:SearchString>PS</qasl:SearchString>
        </qasl:PTQASWRK>
      </qas:QAS_LISTROLEUSERS_REQ>
    </qas:QAS_LISTROLEUSERS_REQ_MSG>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: QAS_LISTROLEUSERS_RESP_MSG

<i>Element Name</i>	<i>Description</i>
UserName	User name.
Description	User description.

Example Response:

```

<?xml version="1.0"?>
<QAS_LISTROLE_RESP_MSG xmlns="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_
LISTROLE_RESP_MSG.VERSION_1">
  <QAS_LISTROLE_RESP>
    <PTQASWRK class="R" xmlns="http://xmlns.oracle.com/Enterprise/Tools=
/schemas/QAS_LISTROLE_RESP.VERSION_1">
      <RoleName>QAS Admin</RoleName>
      <Description>QAS Administrators</Description>
    </PTQASWRK>
  </QAS_LISTROLE_RESP>
</QAS_LISTROLE_RESP_MSG>

```

QAS_LOGIN_OPER

This service operation is available for a client application to sign on to the PeopleSoft database and use QAS service operations to create and execute queries.

To use this service operation, the user must install and configure certificates.

See *PeopleTools 8.52: Security Administration*, "Working with SSL/TLS and Digital Certificates," Understanding SSL/TLS and Digital Certificates.

Request Message: QAS_LOGIN_REQ_MSG

Element Name	Description
UserVerificationAttempt	Do not enter a value.

Example Request:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:=
qas="http://xmlns.oracle.com/Enterprise/Tools/schemas/QAS_LOGIN_REQ_MSG.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <qas:UserVerificationAttempt></qas:UserVerificationAttempt>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message:

Element Name	Description
IsValidUser	Returns Y if the user is validated.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/
/XMLSchema-instance">
  <soapenv:Body>
    <qss:QAS_LOGIN_RESP_MSG xmlns:qss="http://xmlns.oracle.com/Enterprise/Tools/
schemas/QAS_LOGIN_RESP_
MSG.VERSION_1">
      <isValidUser>Y</isValidUser>
    </qss:QAS_LOGIN_RESP_MSG>
  </soapenv:Body>
</soapenv:Envelope>

```

Using QAS Administration

The QAS Administration page is used to monitor QAS query execution. To access the QAS administration page, the user must have permission to access the QAS Administration page (PSQASADMIN).

After executing a query, the client application is responsible for canceling the query, which will delete the row from the PSQASRUN table. If the rows are not deleted by the client application, the QAS Administrator can delete the rows using the QAS Administration page.

To access the QAS Administration page, select PeopleTools, Utilities, Administration, QAS Administration (PSQASADMIN).

QAS Administration								
Query Execution Status								
Status	Customize Find First 1-5 of 5 Last							
User ID	Instance ID	Query Name	Owner Type	Run Status	Total Number of Blocks	Total Number of bytes	Date Time of Query Creation	Clear
QEMGR	8da33ade-4fb3-11de-927d-eefd6364b513	XRFWIN	Public	success	1	19420	06/02/2009 1:25:46.000000PM	Clear
QEDMO	eaf87c92-4fc4-11de-927d-eefd6364b513	MESSAGES_FOR_MSGSET_1_20	Public	success	1	7878	06/02/2009 3:30:04.000000PM	Clear
QEDMO	a435f126-4fc5-11de-927d-eefd6364b513	MESSAGES_FOR_MSGSET	Public	success	1	16560	06/02/2009 3:35:15.000000PM	Clear
VP1	b4824465-4fc5-11de-927d-eefd6364b513	MESSAGES_FOR_MSGSET	Public	posting	0	0	06/02/2009 3:35:42.000000PM	Clear
QEMGR	7de39260-4fb3-11de-927d-eefd6364b513	XRFWIN	Public	error	0	0	06/02/2009 1:25:19.000000PM	Clear

QAS Administration page

This page displays the run status for QAS service operations that execute queries on the PeopleSoft system. Depending on the execution type and output format, you will see various run statuses.

This table lists the run statuses by output format.

<i>Output Format</i>	<i>Status</i>	<i>Description</i>
FILE	running	The report is running in Process Scheduler.
FILE	posting	The report was posted to the report repository.
FILE or NONFILE	error	The query encountered an error. If the query does not exist or the user does not have access to the query, an error will occur.
NONFILE	success	The query data is stored in the Integration Broker runtime tables.

Use the Clear button to delete entries from the page.

Chapter 6

Understanding Process Scheduler Service

This chapter discusses:

- Process Scheduler service operations.
- Process Scheduler service.
- Process Scheduler service operation security.

Process Scheduler Service Operations

To enable external applications to access PeopleSoft Process Scheduler, a number of service operations are available. Depending on the application, the external application will need to use several service operations in combination. The service operations for Process Scheduler are part of the service PROCESSREQUEST.

Process Scheduler service operations are grouped into the following categories to help describe the service operations:

- Schedule requests
- Monitor requests

Schedule Requests

Service operations to schedule requests are used by client applications to schedule process requests to run in the PeopleSoft application. This table lists the service operations:

<i>Service Operation Name</i>	<i>Description</i>
PRCS_GETPROCESSNAMES	Returns a list of process names based on process type.
PRCS_GETPARAMS	Returns the runtime parameters registered for a process in the process definition.
PRCS_GETPROMPT	Returns a list of process types, distribution status, run status, server names, operator IDs or recurrence definitions, depending on the request.
PRCS_SCHEDULE	Schedules a job or process using all the parameters required to schedule the job or process. Returns the process instance.

Monitor Processes

Service operations to monitor requests and retrieve reports are used by client applications to monitor process requests in the PeopleSoft application. This table lists the service operations:

Service Operation Name	Description
PRCS_GETREQUEST	Returns the process details for a given process instance. The details include the run status, distribution status, output information, distribution information, runtime information, and recurrence information.
PRCS_GETREPORT	Returns report and log file details for the reports posted to the report repository.
PRCS_FINDREQUESTS	Used to search for submitted process requests based on a combination of different filter criteria.
PRCS_UPDATEREQUEST	Used to update the process request.

Process Scheduler Service

This section provides an overview of PROCESSREQUEST service and discusses:

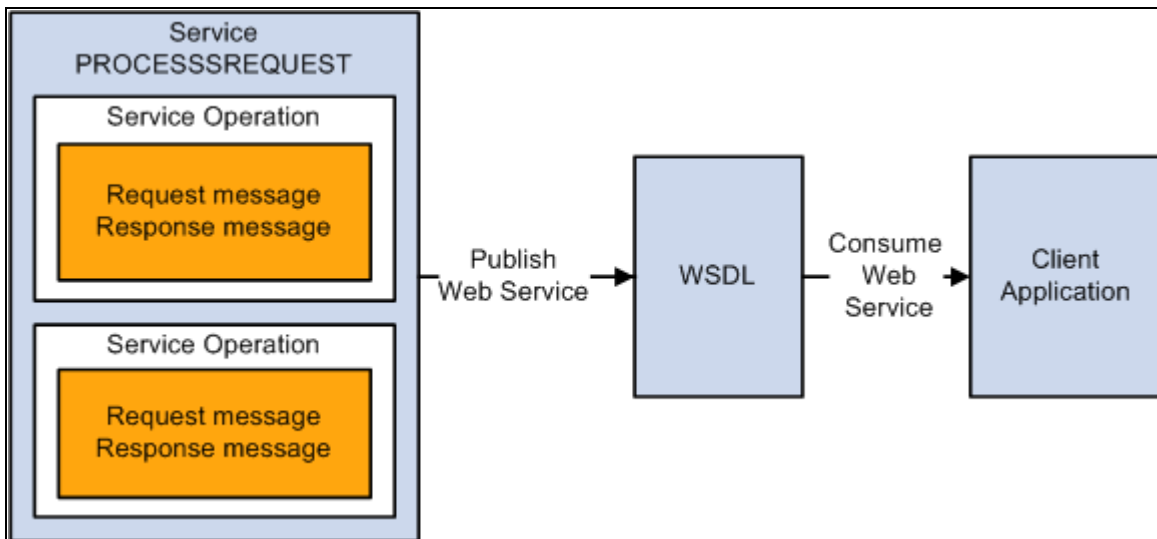
- WSDL Document
- Message Schema
- SOAP Template

Understanding PROCESSREQUEST Service

Services are used to logically group a set of service operations. The service PROCESSREQUEST contains all of the service operations for Process Scheduler. When you publish a web service, a WSDL document is created containing all of the selected service operations as well as the endpoints based on the Service Configuration.

See *PeopleTools 8.52: PeopleSoft Integration Broker Administration*, "Configuring PeopleSoft Integration Broker for Handling Services," Using the Service Configuration Page to Set Service Configuration Properties.

This diagram illustrates how a client application consumes the web service.



Providing PROCESSREQUEST web service

The Service page provides links to Provide Web Service and to Generate SOAP Template. The Provide Web Service wizard generates a WSDL document containing all of the service operations selected. This WSDL document is consumed by the client application.

The published web service is stored in the WSDL Repository. Client applications consume the WSDL by accessing the WSDL URL from the repository. The WSDL for PROCESSREQUEST is delivered and updated with the appropriate WSDL Repository location whenever the target location is updated on the Service Configuration page (Select PeopleTools, Integration Broker, Configuration, Service Configuration).

WSDL Document

To view the generated WSDL Repository for the PROCESSREQUEST, click the View WSDL link on the service page.

WSDL Repository																																		
Service: PROCESSREQUEST																																		
<div>WSDL</div> <div>Find First 1 of 1 Last</div>																																		
<div>WSDL: PROCESSREQUEST.1</div> <div><input checked="" type="checkbox"/> Default Last Upd DtTm: 01/29/2009 11:29:51AM</div> <div>View WSDL</div>																																		
<div>Exported Service Operations</div> <div>Customize Find View All First 1-5 of 8 Last</div> <table> <tr> <th>Operation</th><th>Routing External Alias</th><th>Request Message</th><th>Response Message</th><th>Fault Message</th></tr> <tr> <td>PRCS_FINDREQUESTS</td><td>PRQ_FINDREQUESTS.v1</td><td>PRQ_FINDREQUESTS_REQ.1</td><td>PRQ_FINDREQUESTS_RES.1</td><td></td></tr> <tr> <td>PRCS_GETPARAMS</td><td>PRQ_GETPARAMS.v1</td><td>PRQ_GETPARAMS_REQ.1</td><td>PRQ_GETPARAMS_RES.1</td><td></td></tr> <tr> <td>PRCS_GETPROCESSNAMES</td><td>PRCS_GETPROCESSNAMES.v1</td><td>PRQ_GETPROCESSNAMES_REQ.1</td><td>PRQ_GETPROCESSNAMES_RES.1</td><td></td></tr> <tr> <td>PRCS_GETPROMPT</td><td>PRQ_GETPROMPT.v1</td><td>PRQ_GETPROMPT_REQ.1</td><td>PRQ_GETPROMPT_RES.1</td><td></td></tr> <tr> <td>PRCS_GETREPORT</td><td>PRQ_GETREPORT.v1</td><td>PRQ_GETREPORT_REQ.1</td><td>PRQ_GETREPORT_RES.1</td><td></td></tr> </table>					Operation	Routing External Alias	Request Message	Response Message	Fault Message	PRCS_FINDREQUESTS	PRQ_FINDREQUESTS.v1	PRQ_FINDREQUESTS_REQ.1	PRQ_FINDREQUESTS_RES.1		PRCS_GETPARAMS	PRQ_GETPARAMS.v1	PRQ_GETPARAMS_REQ.1	PRQ_GETPARAMS_RES.1		PRCS_GETPROCESSNAMES	PRCS_GETPROCESSNAMES.v1	PRQ_GETPROCESSNAMES_REQ.1	PRQ_GETPROCESSNAMES_RES.1		PRCS_GETPROMPT	PRQ_GETPROMPT.v1	PRQ_GETPROMPT_REQ.1	PRQ_GETPROMPT_RES.1		PRCS_GETREPORT	PRQ_GETREPORT.v1	PRQ_GETREPORT_REQ.1	PRQ_GETREPORT_RES.1	
Operation	Routing External Alias	Request Message	Response Message	Fault Message																														
PRCS_FINDREQUESTS	PRQ_FINDREQUESTS.v1	PRQ_FINDREQUESTS_REQ.1	PRQ_FINDREQUESTS_RES.1																															
PRCS_GETPARAMS	PRQ_GETPARAMS.v1	PRQ_GETPARAMS_REQ.1	PRQ_GETPARAMS_RES.1																															
PRCS_GETPROCESSNAMES	PRCS_GETPROCESSNAMES.v1	PRQ_GETPROCESSNAMES_REQ.1	PRQ_GETPROCESSNAMES_RES.1																															
PRCS_GETPROMPT	PRQ_GETPROMPT.v1	PRQ_GETPROMPT_REQ.1	PRQ_GETPROMPT_RES.1																															
PRCS_GETREPORT	PRQ_GETREPORT.v1	PRQ_GETREPORT_REQ.1	PRQ_GETREPORT_RES.1																															

WSDL Repository page for PROCESSREQUEST service

All of the service operations contained in the WSDL are listed in the Exported Service Operations section. Use the View WSDL link to view the WSDL document.

Message Schema

The WSDL document is created by means of the request and response message schemas for each service operation. To view the message schema, select PeopleTools, Integration Broker, Integration Setup, Messages and select the message to view. Select the Schema tab to view the schema.

SOAP Template

For each service operation, you can use the Generate SOAP Template utility to generate SOAP message templates for request messages, response messages, and fault messages found in the WSDL document. The generated SOAP template will include WS-Security SOAP Header tags. You can then use the templates to test SOAP messages in your third-party application.

Process Scheduler Service Operation Security

This section provides an overview of Process Scheduler web service security.

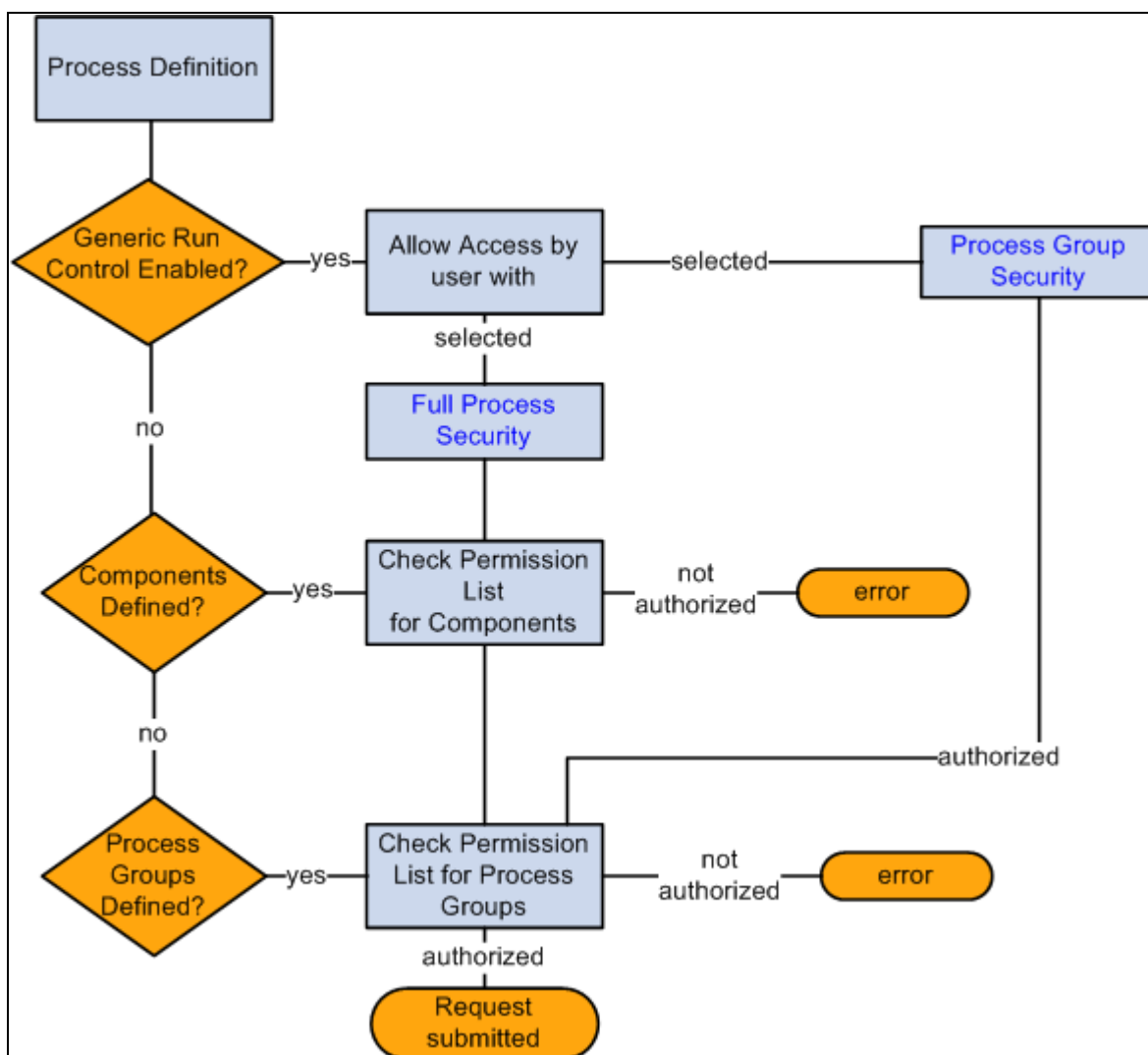
Process Scheduler Web Service Security

The service operations for PROCESSREQUEST service follow the same user-based security as an online user. All Process Scheduler service operations require a user ID and password that must be digitally encrypted. Based on the user ID, the request is validated based on the request type.

Process Request

Security is defined for a process in the process definition. Security can be controlled by access to the component containing the run control and by process security group. The user who is requesting this web service operation can schedule the processes only if the user is authorized to submit the request.

This diagram shows the security process flow to schedule a process request:



Schedule process request security flow

In the preceding diagram, the user submits the PRCS_SCHEDULE service operation, which includes a SOAP header identifying the user. The process scheduler validates the user by checking the security defined in the process definition:

1. If the process definition has Enable Generic Prompting on the Run Control Parameters page, the value for Allow Access by user with is used to validate permissions. If the generic run control is not enabled, the process scheduler will use the process security defined on the Process Definition Options page.
 - *Full Process Security:* The user must have permission for both component and process group.
 - *Process Group Security:* The user must have access to the process security group.
2. On the Process Definition Options page, the process may contain both components and process groups. If components are included, the user must have security access to at least one of the components.
3. The user must have security access to the process group.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Defining PeopleSoft Process Scheduler Support Information," Setting Process Definition Options.

Monitor Request

User's access to process request via process monitor is determined by the process profile permission assigned to the person who submitted the request. In the process profile, options are available to restrict other users from viewing and updating process requests run by the owner (current user).

The options available are:

- *Owner*: Only the user who submits the process can see or update the process request from process monitor.
- *All*: All users can see or update the process request from the process monitor.
- *None*: No user, including the owner, can view or update the process request from process monitor.

Note. User IDs that contain the role *ProcessSchedulerAdmin* can monitor all processes.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Setting Up PeopleSoft Process Scheduler Security," Setting Up PeopleSoft Process Scheduler Privileges and Profiles.

Retrieve Reports

User's access to retrieve reports is determined by the distribution in the report request. When a report request is submitted, you can specify the report distribution by users or roles. If the request does not contain distribution informations, the distribution defined in the Process definition is used.

Note. User IDs that contain the role *ProcessSchedulerAdmin* or *ReportDistAdmin* can retrieve all reports.

Chapter 7

Using Process Scheduler Service Operations

This chapter provides an overview of Process Scheduler Service Operations and discusses service operations used to:

- Schedule a request.
- Monitor a request.

Understanding Process Scheduler Service Operations

A third-party application can schedule and monitor PeopleSoft processes or jobs using the process scheduler service operations. If the process requires parameters, the parameters need to be defined on the Run Control page of the Process or Job definition.

See *PeopleTools 8.52: PeopleSoft Process Scheduler*, "Defining PeopleSoft Process Scheduler Support Information," Setting Process Definition Options.

Guidelines for Completing Service Operation Requests

The following guidelines apply across all process scheduler requests:

- All requests should contain a SOAP header containing user ID and password.
- Parameters are case sensitive.
- Leading and trailing blanks are not allowed in XML values.
- All requests should conform to the message schema defined for the service operation messages.

Scheduling a Request

Client applications can use service operations to find a process for specified process type, retrieve the run time parameters, prompt values for a specified parameters, and schedule the process request. This section describes the service operations available to help in scheduling the request. These include:

- PRCS_GETPROMPT

- PRCS_GETPROCESSNAMES
- PRCS_GETPARAMS
- PRCS_SCHEDULE

PRCS_GETPROMPT

Use this service operation to retrieve the prompts for a process.

Request Message: PRQ_GETPROMPT_REQ

<i>Element Name</i>	<i>Description</i>
ParameterName	<p>Valid values are:</p> <ul style="list-style-type: none"> • RunStatus • DistributionStatus • ServerName • ProcessTypes • OperatorId • RecurrenceName <p>All values are case-sensitive.</p>

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETPROMPT_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:GetPromptValues>
      <ParameterName>RunStatus</ParameterName>
    </prq:GetPromptValues>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_GETPROMPT_RES

<i>Element Name</i>	<i>Description</i>
Prompt Value	Returns a list of values for the request prompt.

Example Response:

This response returns the values for Run Status.

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:GetPromptValuesResponse xsi:schemaLocation="http://xmlns.oracle.com⇒
/Enterprise/Tools/schemas/PRQ_GETPROMPT_RES.VERSION_1 PRQ_GETPROMPT_RES.VERSION_⇒
1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETPROMPT_⇒
RES.VERSION_1">
      <PromptValue>Cancel</PromptValue>
      <PromptValue>No Success</PromptValue>
      <PromptValue>Posted</PromptValue>
      <PromptValue>Not Posted</PromptValue>
      <PromptValue>Resend</PromptValue>
      <PromptValue>Posting</PromptValue>
      <PromptValue>Generated</PromptValue>
      <PromptValue>Pending</PromptValue>
      <PromptValue>Warning</PromptValue>
      <PromptValue>Blocked</PromptValue>
      <PromptValue>Restart</PromptValue>
      <PromptValue>Delete</PromptValue>
      <PromptValue>Error</PromptValue>
      <PromptValue>Hold</PromptValue>
      <PromptValue>Queued</PromptValue>
      <PromptValue>Initiated</PromptValue>
      <PromptValue>Processing</PromptValue>
      <PromptValue>Cancelled</PromptValue>
      <PromptValue>Success</PromptValue>
    </prq:GetPromptValuesResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

PRCS_GETPROCESSNAMES

Use this service operation to retrieve a list of process names.

Request Message: PRQ_GETPROCESSNAMES_REQ

<i>Element Name</i>	<i>Description</i>
ProcessType	Process type. Process type is case-sensitive. Use service operation PRCS_GETPROMPT with ParameterName <i>ProcessTypes</i> for a list of valid process types.

Example Request:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETPROCESSNAMES_⇒
REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:GetProcessNames>
      <ProcessType>XML Publisher</ProcessType>
    </prq:GetProcessNames>
  </soapenv:Body>
</soapenv:Envelope>

```

Response Message: PRQ_GETPROCESSNAMES_RES

Element Name	Description
ProcessName	Returns a list of process names.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:GetProcessNamesResponse xsi:schemaLocation="http://xmlns.oracle.com
/Enterprise/Tools/schemas/PRQ_GETPROCESSNAMES_RES.VERSION_1 PRQ_GETPROCESSNAMES_
RES.VERSION_1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas
/PRQ_GETPROCESSNAMES_RES.VERSION_1">
      <ProcessName>PSXPQRYRPT</ProcessName>
      <ProcessName>QE_ETEXT</ProcessName>
      <ProcessName>QE_GLX8100</ProcessName>
      <ProcessName>QE_I9</ProcessName>
      <ProcessName>QE_LOCALE</ProcessName>
      <ProcessName>QE_TIMEZONE</ProcessName>
      <ProcessName>QE_UNICODE</ProcessName>
      <ProcessName>QE_XMD_BURST</ProcessName>
      <ProcessName>QE_XMD_XLS</ProcessName>
      <ProcessName>QE_XMLDOC</ProcessName>
      <ProcessName>XRFWIN</ProcessName>
    </prq:GetProcessNamesResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

PRCS_GETPARAMS

Use this service operation to retrieve parameter values for a job or process. The job or process must have generic prompting enabled and runtime parameters defined.

Request Message: PRQ_GETPARAMS_REQ

Element Name	Description
JobName	Job name in upper case.
ProcessName	Process name in uppercase.
ProcessType	Process type. Use service operation PRCS_GETPROMPT with ParameterName <i>ProcessTypes</i> for a list of valid process types.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETPARAMS_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:GetRunTimeParametersRequest>
      <!--Optional:-->
      <ProcessName>PORTAL_CSS</ProcessName>
      <!--Optional:-->
      <ProcessType>Application Engine</ProcessType>
    </prq:GetRunTimeParametersRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_GETPARAMS_RES

Element Name	Description
ProcessName	Process name.
ProcessType	Process type.
RecordName	Prompt record name.
RecordFieldName	Prompt field name.
ParameterName	Parameter label.
ApplicationClassMethod	Application class method.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:GetRunTimeParametersResponse xsi:schemaLocation="http:⇒
//xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETPARAMS_RES.VERSION_1 PRQ_⇒
GETPARAMS_RES.VERSION_1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools⇒
/schemas/PRQ_GETPARAMS_RES.VERSION_1">
      <ProcessParameters>
        <ProcessName>PORTAL_CSS</ProcessName>
        <ProcessType>Application Engine</ProcessType>
        <RecordName>PORTAL_CSS_RUN</RecordName>
        <RecordFieldName>PORTAL_NAME</RecordFieldName>
        <ParameterName>Portal Name</ParameterName>
        <ApplicationClassMethod>.</ApplicationClassMethod>
      </ProcessParameters>
      <ProcessParameters>
        <ProcessName>PORTAL_CSS</ProcessName>
        <ProcessType>Application Engine</ProcessType>
        <RecordName>PORTAL_CSS_RUN</RecordName>
        <RecordFieldName>PORTAL_FLD RP_FLAG</RecordFieldName>
        <ParameterName>Delete invalid security</ParameterName>
        <ApplicationClassMethod>.</ApplicationClassMethod>
      </ProcessParameters>
    </prq:GetRunTimeParametersResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

PRCS_SCHEDULE

Use this service operation to schedule a job or process. Most of the elements are optional and required only if you want to override the default values for the process.

Request Message: PRQ_SCHEDULE_REQ

<i>Element Name</i>	<i>Description</i>
RunControlId Required	Run control ID. You can enter an existing run control ID or create a new one.
ProcessType Required	Process type. Use service operation PRCS_GETPROMPT with ParameterName <i>ProcessType</i> for a list of valid process types.
ProcessName Either a ProcessName or a JobName is required.	Process name. Use service operation PRCS_GETPROCESSNAMES if you are not sure of the process name. Note. Process name is case-sensitive.

Element Name	Description
JobName Either a ProcessName or a JobName is required.	Job name. Note. Job name is case-sensitive.
ServerName	Server name. Use service operation PRCS_GETPROMPT with ParameterName <i>ServerName</i> for a list of valid servers.
RunDateTime	Custom run date time in the format 2008-11-17 01.11.37.000000.
TimeZone	Time zone.
Recurrence	Recurrence Use service operation PRCS_GETPROMPT with ParameterName <i>RecurrenceName</i> for a list of valid recurrence definitions.
OutputDestinationType	If this element is omitted, the default output type is used. To override the default output, enter a valid output type for the process. <i>See PeopleTools 8.52: PeopleSoft Process Scheduler, "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.</i>
OutputDestinationFormat	If this element is omitted, the default output format is used. To override the default format, enter a valid output format for the process. <i>See PeopleTools 8.52: PeopleSoft Process Scheduler, "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.</i>
OutputDestinationString	If the output type is <i>File</i> or <i>Printer</i> , specify the file path or printer destination for the output.
ReportFolderName	Report folder name. This folder name applies to the main job or process. For a process within a job, enter the override for job item node (<JobItems> section).
ProcessFileName	Dependant file name. Use this value to override the file name in the process definition.
RetentionDays	Retention days. Note. Retention days applies to a process. For a process within a job, enter the override for job item (<JobItems> section).

<PrsDistributionOption> Use these elements to enter distribution overrides at the process level.

Process Distribution Option Elements	Description
PrcsDistributionIdType	Specify either <i>User</i> or <i>Role</i> .
PrcsDistributionId	Specify the corresponding distribution ID for the DistributionIdType.

<PrcsOutputOption> Use these elements to modify the output options at the process level.

Process Output Option Elements	Description
PrcsOutputDestinationType	If this element is omitted, the default output type is used. To override the default output, enter a valid output type for the process. See <i>PeopleTools 8.52: PeopleSoft Process Scheduler</i> , "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.
PrcsOutputDestinationFormat	If this element is omitted, the default output format is used. To override the default format, enter a valid output format for the process. See <i>PeopleTools 8.52: PeopleSoft Process Scheduler</i> , "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.
PrcsOutputDestinationString	If the output type is <i>File</i> or <i>Printer</i> , specify the file path or printer destination for the output.

<PrcsEmailOption> Use these elements to enter email overrides at the process level.

Process Email Option Elements	Description
PrcsEmailSubject	Enter the text that appears in the subject line of the email. If this element is omitted, the default text message is used.
PrcsEmailText	Enter text to appear in the body of the email. If this element is omitted, the default text message is used
PrcsEmailAddresses	Enter a list of email addresses, separated by semicolons, to which the email should be sent.
PrcsEmailAttachLog	Enter <i>true</i> to include log files resulting from the Structured Query Report (SQR) program as attachments to the email file (SQR only).
PrcsEmailWebReport	Enter <i>true</i> to send an email with a link to the completed report output. This option is available only when the output type for the request is Web.

<JobItem> If the request is for a job, use these elements to enter the job information.

Job Item Elements	Description
JobName	Job name.
ProcessItemLevel	Specify the job item's process level within the main job as a number.
JobSequenceNumber	Specify the parent item's sequence number as a number.
SeqNoInItemLevel	Specify the item's sequence number as a number.
ReportFolderName	Enter the name of the folder in which the report results are posted.
RetentionDays	Enter the number of days before the files that are on the report repository are deleted. If no value is entered, the default retention days for the process is used.

<DistributionOption> Use these elements to modify the distribution list for job items.

Job Item Distribution Option Elements	Description
DistributionIdType	Specify either <i>User</i> or <i>Role</i> .
DistributionId	Specify the corresponding distribution ID for the DistributionIdType.

<OutputOption> Use these elements to modify the output options for job items.

Job Item Output Option Elements	Description
OutputDestinationType	If this element is omitted, the default output type is used. To override the default output, enter a valid output type for the process. <i>See PeopleTools 8.52: PeopleSoft Process Scheduler, "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.</i>
OutputDestinationFormat	If this element is omitted, the default output format is used. To override the default format, enter a valid output format for the process. <i>See PeopleTools 8.52: PeopleSoft Process Scheduler, "Submitting and Scheduling Process Requests," Selecting Output Types and Formats.</i>
OutputDestinationString	If the output type is <i>File</i> or <i>Printer</i> , specify the file path or printer destination for the output.

<EmailOption> Use these elements to enter email options for job items.

Job Item Email Option Elements	Description
EmailSubject	Enter the text that appears in the subject line of the email. If this element is omitted, the default text message is used.
EmailText	Enter text to appear in the body of the email. If this element is omitted, the default text message is used
EmailAddresses	Enter a list of email addresses, separated by semicolons, to which the email should be sent.
EmailAttachLog	Enter <i>true</i> to include log files resulting from the Structured Query Report (SQR) program as attachments to the email file (SQR only).
EmailWebReport	Enter <i>true</i> to send an email with a link to the completed report output. This option is available only when the output type for the request is Web.

<RunTimeParameters> Use these elements to enter runtime parameters.

RunTime Parameter Elements	Description
ProcessName	Process name. Process name is case-sensitive.
ProcessType	Process type.
ParameterName	Parameter name.
ParameterValue	Parameter value.

Example Request:

This is an example request for a process with no runtime parameters or overrides:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_SCHEDULE_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:Schedule>
      <RunControlId>TEST1</RunControlId>
      <ProcessType>Application Engine</ProcessType>
      <!--Optional:-->
      <ProcessName>AEMINITEST</ProcessName>
    </prq:Schedule>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_SCHEDULE_RES

Element	Description
ProcessInstance	Process instance number.
JobName	Job name.
ProcessName	Name of process within the job.
ProcessType	Process type.
JobSequenceNumber	Sequence number within the job.
ProcessItemLevel	Process item level within the job.
ProcessInstance	Process instance number for the job item.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/⇒
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:ScheduleResponse xsi:schemaLocation="http://xmlns.oracle.com/Enterprise⇒
/⇒
Tools/schemas/PRQ_SCHEDULE_RES.VERSION_1 PRQ_SCHEDULE_RES.VERSION_1.xsd"⇒
  xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/⇒
PRQ_SCHEDULE_RES.VERSION_1">
    <ProcessInstance>33</ProcessInstance>
  </prq:ScheduleResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Schedule a Process with Prompts

This is an example of a request for a process that has two parameters:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_SCHEDULE=>
  _REQ.VERSION_1">
    <soapenv:Header/>
    <soapenv:Body>
      <prq:Schedule>
        <RunControlId>SYNC</RunControlId>
        <ProcessType>Application Engine</ProcessType>
        <!--Optional:-->
        <ProcessName>PORTAL_CSS</ProcessName>
        <!--Zero or more repetitions:-->
        <RunTimeParameter>
          <ProcessName>PORTAL_CSS</ProcessName>
          <ProcessType>Application Engine</ProcessType>
          <ParameterName>Portal Name</ParameterName>
          <ParameterValue>EMPLOYEE</ParameterValue>
        </RunTimeParameter>
        <RunTimeParameter>
          <ProcessName>PORTAL_CSS</ProcessName>
          <ProcessType>Application Engine</ProcessType>
          <ParameterName>Delete invalid security</ParameterName>
          <ParameterValue>Y</ParameterValue>
        </RunTimeParameter>
      </prq:Schedule>
    </soapenv:Body>
  </soapenv:Envelope>

```

Schedule a Job with Overrides for Output

This is an example to schedule a job with overrides for report distribution, output type and format for one of the processes within the job.:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:=>
prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_SCHEDULE_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:Schedule>
      <RunControlId>TEST1</RunControlId>
      <ProcessType>PSJob</ProcessType>
      <!--Optional:-->
      <JobName>3SQR</JobName>
      <JobItem>
        <JobName>XRFIELDS</JobName>
        <!--Optional:-->
        <ProcessItemLevel>1</ProcessItemLevel>
        <!--Optional:-->
        <JobSequenceNumber>1</JobSequenceNumber>
        <!--Optional:-->
        <SeqNoInItemLevel>1</SeqNoInItemLevel>
        <!--Optional:-->
        <DistributionOption>
          <DistributionIdType>User</DistributionIdType>
          <DistributionId>QEDMO</DistributionId>
        </DistributionOption>
        <OutputOption>
          <OutputDestinationType>WEB</OutputDestinationType>
          <OutputDestinationFormat>PDF</OutputDestinationFormat>
        </OutputOption>
      </JobItem>
    </prq:Schedule>
  </soapenv:Body>
</soapenv:Envelope>

```

The response for a job will include the process instance ID at each level:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/
2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:ScheduleResponse xsi:schemaLocation="http://xmlns.oracle.com/Enterprise
/Tools/schemas/PRQ_SCHEDULE_RES.VERSION_1 PRQ_SCHEDULE_RES.VERSION_1.xsd" xmlns:
prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_SCHEDULE_RES.VERSION_1">
      <ProcessInstance>21</ProcessInstance>
      <JobItem>
        <JobName>3SQR</JobName>
        <ProcessName>3SQR</ProcessName>
        <ProcessType>PSJob</ProcessType>
        <JobSequenceNumber>0</JobSequenceNumber>
        <ProcessItemLevel>0</ProcessItemLevel>
        <ProcessInstance>21</ProcessInstance>
      </JobItem>
      <JobItem>
        <JobName>3SQR</JobName>
        <ProcessName>XRFIELDS</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <JobSequenceNumber>1</JobSequenceNumber>
        <ProcessItemLevel>1</ProcessItemLevel>
        <ProcessInstance>22</ProcessInstance>
      </JobItem>
      <JobItem>
        <JobName>3SQR</JobName>
        <ProcessName>XRFMENU</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <JobSequenceNumber>2</JobSequenceNumber>
        <ProcessItemLevel>1</ProcessItemLevel>
        <ProcessInstance>23</ProcessInstance>
      </JobItem>
      <JobItem>
        <JobName>3SQR</JobName>
        <ProcessName>XRFRCFL</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <JobSequenceNumber>3</JobSequenceNumber>
        <ProcessItemLevel>1</ProcessItemLevel>
        <ProcessInstance>24</ProcessInstance>
      </JobItem>
    </prq:ScheduleResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

Monitoring a Request

Client applications can use service operations to monitor a process and get a report. This section describes the service operations available to monitor the request. These include:

- PRCS_FINDREQUESTS
- PRCS_GETREQUEST
- PRCS_UPDATEREQUEST
- PRCS_GETREPORT

PRCS_FINDREQUESTS

Use this service operation to find process requests.

Request Message: PRQ_FINDREQUESTS_REQ

<i>Element Name</i>	<i>Description</i>
ProcessInstanceFrom	Enter the process instance number for the beginning of a range of instances by which to limit the process requests that are returned.
ProcessInstanceTo	Enter the process instance number for the end of a range of instances by which to limit the process requests that are returned.
OperatorId	Enter the ID of the user who submitted the process. Leave blank to view all of the processes that you are authorized to view. Use service operation PRCS_GETPROMPT with ParameterName <i>OperatorId</i> for a list of valid user IDs.
ProcessType	Enter a process type to limit the returned list to a specific process type.
ProcessName	Enter a process name to limit the returned list to a specific process name. Process name is case-sensitive.
ServerRun	Enter the name of a server to limit the returned list to a specific server.
RunStatus	Enter the run status to limit the returned list to a specific status. Use service operation PRCS_GETPROMPT with ParameterName <i>RunStatus</i> for a list of valid run statuses.
DistributionStatus	Enter the distribution status to limit the returned list to a specific distribution status. Use service operation PRCS_GETPROMPT with ParameterName <i>DistributionStatus</i> for a list of valid distribution statuses.
ProcessRequestCount	Enter a number to limit the returned list.

<FilterType> The filter type can be either Last or Date Range

For <Last> specify an interval of time by which to limit the process requests that appear in the list.

Last Elements	Description
FilterValue	Enter a custom numerical value.
FilterUnit	Enter the interval. Valid values are: <ul style="list-style-type: none"> • <i>All</i> • <i>Days</i> • <i>Hours</i> • <i>Minutes</i>

Date Range

For <CustomDates> specify dates to get a list of requests created between two specific dates.

Date Range Elements	Description
FromDate	Enter a from date.
ToDate	Enter a to date.

Example Request:

```
<?xml version="1.0"?>
<soapenv:Envelope xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:=
soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:wsa="http://
schemas.xmlsoap.org/ws/2003/03/addressing/" xmlns:xsd="http://www.w3.org/2001=
/XMLSchema/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance/">
  <soapenv:Header xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <wsse:Security soap:mustUnderstand="1" xmlns:soap="http://schemas.xmlsoap.org=
/wsdl/soap/" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-=
wssecurity-secext-1.0.xsd">
      <wsse:UsernameToken>
        <wsse:Username>QEDMO</wsse:Username>
        <wsse:Password>QEDMO</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </soapenv:Header>
  <soapenv:Body xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
    <prq:FindRequests xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas=
/PRQ_FINDREQUESTS_REQ.VERSION_1">
      <OperatorId>QEDMO</OperatorId>
      <ProcessType>SQL Report</ProcessType>
      <ProcessName></ProcessName>
      <RunStatus>Success</RunStatus>
      <DistributionStatus>Posted</DistributionStatus>
      <FilterType>
        <CustomDates>
          <FromDate>2009-02-01</FromDate>
          <ToDate>2009-02-10</ToDate>
        </CustomDates>
      </FilterType>
    </prq:FindRequests>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_FINDREQUESTS_RES

Element Name	Description
ProcessInstance	Process instance.
ProcessName	Process name.
ProcessType	Process type.
RunControlID	Run control ID.
ServerNameRequested	Name of the server requested for the process.
ServerNameRun	Name of the server where the process was run.
OperatorID	ID that submitted the process.
RequestDateTime	Date and time that the process request was submitted.
RunDateTime	The date and time that the process request was created.
BeginDateTime	The date and time that the process started.
EndDateTime	The date and time that the process ended.
OutputDestinationFormat	Output format.
OutputDestinationType	Output type.
Recurrence	Recurrence.
RunStatus	Run status.
DistributionStatus	Distribution status.
ContentId	<p>Content ID is the Report ID assigned to the individual report by the Process Scheduler. The Content ID is used to view reports in the Report Repository.</p> <p>Note. For bursted reports all the associated content IDs will be retrieved and will be a part of the response.</p>

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:FindRequestsResponse xsi:schemaLocation="http://xmlns.oracle.com⇒
/Enterprise/Tools/schemas/PRQ_FINDREQUESTS_RES.VERSION_1 PRQ_FINDREQUESTS_⇒
RES.VERSION_1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas⇒
/PRQ_FINDREQUESTS_RES.VERSION_1">
      <ProcessRequestItem>
        <ProcessInstance>99999941</ProcessInstance>
        <ProcessName>DDDAUDIT</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <RunControlId>2</RunControlId>
        <ServerNameRequested>PSNT</ServerNameRequested>
        <ServerNameRun>PSNT</ServerNameRun>
        <OperatorId>QEDMO</OperatorId>
        <RequestDateTime>2009-02-03-13.12.33.921000</RequestDateTime>
        <RunDateTime>2009-02-03-13.12.19.000000</RunDateTime>
        <BeginDateTime>2009-02-03-13.13.00.000000</BeginDateTime>
        <EndDateTime>2009-02-03-13.13.12.640000</EndDateTime>
        <OutputDestinationFormat>PDF</OutputDestinationFormat>
        <OutputDestinationType>WEB</OutputDestinationType>
        <RecurranceName/>
        <RunStatus>Success</RunStatus>
        <DistributionStatus>Posted</DistributionStatus>
        <ContentId>99999905</ContentId>
      </ProcessRequestItem>
      <ProcessRequestItem>
        <ProcessInstance>99999948</ProcessInstance>
        <ProcessName>SYSAUDIT</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <RunControlId>2</RunControlId>
        <ServerNameRequested>PSNT</ServerNameRequested>
        <ServerNameRun>PSNT</ServerNameRun>
        <OperatorId>QEDMO</OperatorId>
        <RequestDateTime>2009-02-05-09.53.32.296000</RequestDateTime>
        <RunDateTime>2009-02-05-09.52.57.000000</RunDateTime>
        <BeginDateTime>2009-02-05-09.54.33.000000</BeginDateTime>
        <EndDateTime>2009-02-05-09.56.28.640000</EndDateTime>
        <OutputDestinationFormat>PDF</OutputDestinationFormat>
        <OutputDestinationType>WEB</OutputDestinationType>
        <RecurranceName/>
        <RunStatus>Success</RunStatus>
        <DistributionStatus>Posted</DistributionStatus>
        <ContentId>99999914</ContentId>
      </ProcessRequestItem>
    </prq:FindRequestsResponse>
  </soapenv:Body>
</soapenv:Envelope>

```

PRCS_GETREQUEST

This service operation is used to get the process request status.

Request Message: PRQ_GETREQUEST_REQ

Element Name	Description
ProcessInstance	Process instance number.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETREQUEST_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:GetRequest>
      <ProcessInstance>99999951</ProcessInstance>
    </prq:GetRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_GETREQUEST_RES

Element Name	Description
ProcessInstance	Process instance.
ProcessName	Process name.
ProcessType	Process type.
RunControlID	Run control ID.
ServerNameRun	Server name.
OperatorID	ID of the user who submitted the process.
RequestDateTime	The date and time that the process request was submitted.
RunDateTime	The date and time that the process request was scheduled to run.
BeginDateTime	The date and time that the process started.
EndDateTime	The date and time that the process ended.
OutputDestinationFormat	Output format.
OutputDestinationType	Output type.
RunStatus	Run status.
DistributionStatus	Distribution status.

Element Name	Description
ContentId	Report ID assigned in the Report Repository. Note. For bursted reports all the associated content IDs will be retrieved and will be a part of the response.

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:GetRequestResponse xsi:schemaLocation="http://xmlns.oracle.com
/Enterprise/Tools/schemas/PRQ_GETREQUEST_RES.VERSION_1 PRQ_GETREQUEST_RES.VERSION_
1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETREQUEST_
RES.VERSION_1">
      <ProcessRequestItem>
        <ProcessInstance>99999951</ProcessInstance>
        <ProcessName>DDDAUDIT</ProcessName>
        <ProcessType>SQR Report</ProcessType>
        <RunControlId>TEST</RunControlId>
        <ServerNameRun>PSNT</ServerNameRun>
        <OperatorId>QEMGR</OperatorId>
        <RequestDateTime>2009-02-05-11.32.37.125000</RequestDateTime>
        <RunDateTime>2009-02-05-11.32.36.000000</RunDateTime>
        <BeginDateTime>2009-02-05-11.33.01.000000</BeginDateTime>
        <EndDateTime>2009-02-05-11.33.25.468000</EndDateTime>
        <OutputDestinationFormat>PDF</OutputDestinationFormat>
        <OutputDestinationType>WEB</OutputDestinationType>
        <RunStatus>Success</RunStatus>
        <DistributionStatus>Posted</DistributionStatus>
        <ContentId>99999917</ContentId>
      </ProcessRequestItem>
    </prq:GetRequestResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

PRCS_UPDATEREQUEST

This service operation is used to update a request.

Request Message: PRQ_UPDATEREQUEST_REQ

Element Name	Description
ProcessInstance	The process instance to update.

Element Name	Description
RunStatus	Indicate the new status. Valid values are: <ul style="list-style-type: none"> Deleted Cancelled Hold Restart

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_UPDATEREQUEST_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:UpdateProcessRequest>
      <ProcessInstance>9999940</ProcessInstance>
      <RunStatus>Deleted</RunStatus>
    </prq:UpdateProcessRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message: PRQ_UPDATEREQUEST_RES

Element Name	Description
RequestStatus	Returns the status of either <i>Success</i> or <i>Failure</i> .

Example Response:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:UpdateProcessRequestResponse xsi:schemaLocation="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_UPDATEREQUEST_RES.VERSION_1 PRQ_UPDATEREQUEST_RES.VERSION_1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_UPDATEREQUEST_RES.VERSION_1">
      <RequestStatus>Success</RequestStatus>
    </prq:UpdateProcessRequestResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

PRCS_GETREPORT

This service operation is used to retrieve a report from the report repository.

Request Message: PRQ_GETREPORT_REQ

Element Name	Description
ContentID	The content ID for the report. Use service operation PRCS_GETREQUEST to retrieve the content ID for the report.

Example Request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETREPORT_REQ.VERSION_1">
  <soapenv:Header/>
  <soapenv:Body>
    <prq:GetReport>
      <ContentId>9999917</ContentId>
    </prq:GetReport>
  </soapenv:Body>
</soapenv:Envelope>
```

Response Message:

Element Name	Description
Content ID	Content ID.
Report URL	Returns the URL to the report, log, and trace files.

Example Response:

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:⇒
soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org⇒
/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <prq:GetReportResponse xsi:schemaLocation="http://xmlns.oracle.com⇒
/Enterprise/Tools/schemas/PRQ_GETREPORT_RES.VERSION_1 PRQ_GETREPORT_RES.VERSION_⇒
1.xsd" xmlns:prq="http://xmlns.oracle.com/Enterprise/Tools/schemas/PRQ_GETREPORT_⇒
RES.VERSION_1">
      <Report>
        <ContentID>99999917</ContentID>
        <ReportDetails>
          <ReportURL>//ple-infodev-08.peoplesoft.com:8010/psreports/QEDMO⇒
/99999917/DDDAUDIT_99999951.PDF</ReportURL>
          <ReportDescription>Portable Document Format</ReportDescription>
        </ReportDetails>
        <ReportDetails>
          <ReportURL>//ple-infodev-08.peoplesoft.com:8010/psreports/QEDMO⇒
/99999917/DDDAUDIT_99999951.out</ReportURL>
          <ReportDescription>Trace File</ReportDescription>
        </ReportDetails>
        <ReportDetails>
          <ReportURL>//ple-infodev-08.peoplesoft.com:8010/psreports/QEDMO⇒
/99999917/SQR_DDDAUDIT_99999951.log</ReportURL>
          <ReportDescription>Message Log</ReportDescription>
        </ReportDetails>
      </Report>
    </prq:GetReportResponse>
  </soapenv:Body>
</soapenv:Envelope>

```


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