



Oracle Knowledge SOAP Interface

Using the Oracle Knowledge SOAP API

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About This Guide

Client applications interact with the search engine via SOAP requests. This document defines that SOAP interaction and, more importantly, the request and response elements of that action which define the interaction between the UI agent and the search engine.

See [Chapter 5, Integrating Oracle Knowledge with a Production User Interface](#) in the [Oracle Knowledge Intelligent Search Administration Guide](#) for details on configuring and using the SOAP gateway and client.

In This Guide

The *Oracle Knowledge Soap Interface* Guide is divided into the following chapters:

Chapter 1, SOAP Requests and Responses	This chapter describes the Oracle Knowledge SOAP API.
Chapter 2, SOAP Elements	This chapter describes request elements, response elements, and error elements.
Chapter 3, Example Requests and Responses	This chapter provides examples of specific SOAP requests and responses.
Chapter 4, Oracle Knowledge XML Schema Definition	This chapter provides the XML schema for the SOAP API.

Screen and Text Representations

The product screens, screen text, and file contents depicted in the documentation are examples. We attempt to convey the product's appearance and functionality as accurately as possible; however, the actual product contents and displays may differ from the published examples.

References to World Wide Web Resources

For your convenience, we refer to Uniform Resource Locators (URLs) for resources published on the World Wide Web when appropriate. We attempt to provide accurate information; however, these resources are controlled by their respective owners and are therefore subject to change at any time.

SOAP Requests and Responses

The main topics in this chapter are:

- [Generating SOAP Requests and Responses on the Default User Interface \(ui.jsp\)](#) on page 2
- [SOAP Requests](#) on page 2
- [SOAP Responses](#) on page 13
- [SOAP Errors](#) on page 19

Generating SOAP Requests and Responses on the Default User Interface (ui.jsp)

You can generate the SOAP request and response for any query you make on the default user interface, ui.jsp. Simply add '?debug=true' to the end of the URL. For example, if your Oracle Knowledge server is running at *host* and *port*, then the URL would be:

```
http://host:port/inquirapp/ui.jsp?debug=true
```

The XML request and response are echoed below the rendered results.

SOAP Requests

This section describes:

- [Anatomy of a Request](#) on page 2
- [Request Types](#) on page 3
- [Request Sequence](#) on page 12
- [State Information to be Maintained by Client](#) on page 12

Anatomy of a Request

The elements in a basic SOAP request are:

```
<message type="request">
  <params>
    <param name="type"> type</param>    -- Request type (see Request Types on
page 3)
    .... -- Other request parameters (depend on the request type)
  </params>
  <constraint>
    ..... -- Information about the user making the request
  </constraint>
  <session ...>
```



```

..... -- The content of the session
</session>
</message>

```

Request Types

Among the request parameters is the request type that defines the type of request.

There are three categories of requests:

- Search
- Contact Center Advisor (CCA)
- Deflection

The following table lists all of the request types for each category. The sections below describe each request type, along with the required and optional parameters for the request.

Search	Contact Deflection	Contact Center Advisor (CCA)
EmptyRequest	InitialContact	EmptyRequest
AnswerQuestion	AnswerContact	CCAAnswerQuestion
ProcessAnswer	ProcessAnswer	CCAProcessAnswer
CurrentResults	CurrentResults	CCACurrentResults
NextResults	NextResults	CCANextResults
PreviousResults	PreviousResults	CCAPreviousResults
Navigate	Navigate	CCANavigate
RateQuestion	RateQuestion	CCARateQuestion
GetPage	GetPage	CCAGetPage
FinishWizard	NA	FinishWizard
SearchWithinQuestion	NA	NA
Login	NA	NA
NA	RespondContact	NA
NA	NA	CCARefresh
NA	NA	CCAAddSolution
NA	NA	CCARemoveSolution

All Requests

All requests have these parameters

[constraint.user.name](#) or
[constraint.user.principal](#)
[constraint.address](#)
[constraint.host](#)
[constraint.language](#)
[constraint.domainGroup](#)
[constraint.segment](#)
[FacetCollectionID](#)
[agentAddress](#)

processorAddress
baseURL
sessionHasExpired
extSessionId
user-agent.headers.referer
user-agent.parameters.query_src

EmptyRequest

An empty request. This is the first call to the search in order to get the question box and browsable facets.

See [Empty Request/Response on page 49](#) for an example.

The possible parameters are:

TransactionId
ui_mode

InitialContact

This type is the equivalent of the empty request for a Submit A Case Online search request. This type of request needs to be submitted to initialize the search before calling [AnswerContact](#) when the user searches before submitting a case.

The possible parameters are:

CCACaseDesc (optional)
CCACConnected (optional)
CCACContentId (optional)
CCAExtSolList
CCASRKey
CCASystem (optional)
CCATypes (optional)
TransactionId
ui_mode

FinishWizard

This request is called on the completion of a process wizard.

The possible parameters are:

CCACaseDesc (optional)
CCACConnected (optional)
CCACContentId (optional)
CCAExtSolList
CCASRKey
CCASystem (optional)
CCATypes (optional)
TransactionId
ui_mode
wizardId

GetPage

Returns the request as the response unchanged.

The possible parameters are:

- [TransactionId](#)
- [ui_mode](#)

CCAGetPage

Same as [GetPage](#), but for CCA.

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCAConnected](#) (optional)
- [CCAContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [TransactionId](#)
- [ui_mode](#)

ProcessAnswer

After receiving a set of results, the user may click to see more detail about the results. This could mean they are viewing a highlighted click through page, a standard click through page, or similar answers. See [Process Answer on page 61](#) for an example.

The possible parameters are:

- [ActionCode](#)
- [AnswerId](#)
- [AnswerRelatedIds](#)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [PriorTransactionId](#)
- [TrackedURL](#)
- [TransactionId](#)
- [ui_mode](#)
- [user-agent.parameters.highlight_info](#)
- [user-agent.parameters.turl](#)

CCAProcessAnswer

Same as [ProcessAnswer](#), but for CCA.

The possible parameters are:

- [ActionCode](#)
- [AnswerId](#)
- [AnswerRelatedIds](#)
- [CCACaseDesc](#) (optional)

CCACConnected (optional)
CCACContentId (optional)
CCAExtSolList
CCASRKey
CCASystem (optional)
CCATypes (optional)
FacetCollectionID
FacetPriorTransactionId
PriorTransactionId
TrackedURL
TransactionId
ui_mode
user-agent.parameters.highlight_info
user-agent.parameters.turl

AnswerQuestion

Normal search request. See [AnswerQuestion on page 51](#) for an example.

The possible parameters are:

Facet
FacetCollectionID
FacetPriorTransactionId
FacetShowAll
Question
SearchWithin
TransactionId
ui_mode

AnswerContact

This parameter is similar to [AnswerQuestion](#), but for when the question is coming from email deflection, rather than regular searching. The same [Question](#) parameter is needed.

The possible parameters are:

Facet
FacetCollectionID
FacetPriorTransactionId
FacetShowAll
Question
SearchWithin
TransactionId
ui_mode

CCAAnswerQuestion

This parameter is similar to [AnswerQuestion](#), but for CCA.

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCAConnected](#) (optional)
- [CCAContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [Facet](#)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [FacetShowAll](#)
- [Question](#)
- [SearchWithin](#)
- [TransactionId](#)
- [ui_mode](#)

Note: For performance reasons, CCAAnswerQuestion and other CCA types of requests (with the exception of CCALinkedAnswers, see the following) no longer return a list of linked answers from a remote CRM system.

CCALinkedAnswers

This request type allows callers to retrieve a list of linked answers for a particular service request or incident.

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCAConnected](#) (optional)
- [CCAContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [Facet](#)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [FacetShowAll](#)
- [Question](#)
- [SearchWithin](#)
- [TransactionId](#)
- [ui_mode](#)

SearchWithinQuestion

Search within a single document, to find more than one answer. This is useful mainly for large PDF documents.

The possible parameters are:

- ActionCode
- Facet
- FacetCollectionID
- FacetPriorTransactionId
- FacetShowAll
- Question
- SearchWithin
- TransactionId
- ui_mode

Navigate

A facet navigation request. See [Facet Navigation on page 65](#) for an example.

The possible parameters are:

- Facet
- FacetCollectionID
- FacetPriorTransactionId
- FacetShowAll
- Question
- SearchWithin
- TransactionId
- ui_mode

CCANavigate

Same as [Navigate](#), but for CCA

The possible parameters are:

- CCACaseDesc (optional)
- CCACConnected (optional)
- CCACContentId (optional)
- CCAExtSolList
- CCASRKey
- CCASystem (optional)
- CCATypes (optional)
- Facet
- FacetCollectionID
- FacetPriorTransactionId
- FacetShowAll
- Question
- SearchWithin
- TransactionId
- ui_mode

CCARefresh

Returns the current information of the CCA "session."

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCACConnected](#) (optional)
- [CCACContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [Facet](#)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [FacetShowAll](#)
- [Question](#)
- [SearchWithin](#)
- [TransactionId](#)
- [ui_mode](#)

CCAAddSolution

Associates a Service Request with a set of IM documents (solutions).

The possible parameters are:

- [CCAAnswerSolutionsList](#)
- [CCACaseDesc](#) (optional)
- [CCACConnected](#) (optional)
- [CCACContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [FacetPriorTransactionId](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)

CCARemoveSolution

Removes the associates to a Service Requests from a set of IM documents.

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCACConnected](#) (optional)
- [CCACContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [FacetPriorTransactionId](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)

RateQuestion

Response to a feedback portlet.

The possible parameters are:

- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)
- [UserFeedback](#)
- [UserRating](#)

CCARateQuestion

Same as [RateQuestion](#), but for CCA.

The possible parameters are:

- [CCACaseDesc](#) (optional)
- [CCACConnected](#) (optional)
- [CCACContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)
- [UserFeedback](#)
- [UserRating](#)

CurrentResults

NextResults

PreviousResults

Tells the system which page you are requesting. See [Navigation on page 56](#) for an example.

The possible parameters are:

- [AnswerStart](#)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [FacetReset](#)
- [NavigationPurpose](#)
- [NewPageSize](#)
- [PageNumber](#)
- [PageSize](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)

CCACurrentResults

CCANextResults

CCAPreviousResults

Tells the system which page you are requesting.

The possible parameters are:

- [AnswerStart](#)
- [CCACaseDesc](#) (optional)
- [CCACConnected](#) (optional)
- [CCACContentId](#) (optional)
- [CCAExtSolList](#)
- [CCASRKey](#)
- [CCASystem](#) (optional)
- [CCATypes](#) (optional)
- [FacetCollectionID](#)
- [FacetPriorTransactionId](#)
- [FacetReset](#)
- [NavigationPurpose](#)
- [NewPageSize](#)
- [PageNumber](#)
- [PageSize](#)
- [PriorTransactionId](#)
- [TransactionId](#)
- [ui_mode](#)

Login

Handles logging into the system. Requires requests to be marked with “requiresAuthentication” in config.

The possible parameters are:

- `nextRequest`
- `TransactionId`
- `ui_mode`

RespondContact

Once the user sees the answers for the problem they are trying to resolve, they have the ability to decide if the answers resolved their issue or if they want to escalate it by submitting a case.

The possible parameters are:

- `PriorTransactionId`
- `response`
- `user-agent.parameters.response`
- `TransactionId`
- `ui_mode`

Request Sequence

The sequence of requests in a typical user query are:

- 1 `EmptyRequest` (show question box and browsable facets)
- 2 `AnswerQuestion` (ask question)
- 3 `NextResults` (show next page)
- 4 `ProcessAnswer` (highlight an HTML answer)
- 5 `RateQuestion` (provide feedback)

See [Chapter 3, Example Requests and Responses](#) for examples of these request types and their responses.

State Information to be Maintained by Client

During a session, the client must maintain certain values and pass them with subsequent requests. These are:

- `session`
- `PriorTransactionId`
- `constraint.language`
- `constraint.domainGroup`
- `constraint.segment`
- `FacetCollectionID` (navigation application)
- `user-agent.parameters.query_src` (query source)
- `user-agent.headers.referer`

SOAP Responses

This section describes:

- [Anatomy of a Response](#) on page 13
- [Answer Types](#) on page 14

Anatomy of a Response

The elements of the following types of SOAP responses are described in this section

```
<message type="response">
  <params>
    .... < -- Response parameters
  </params>
  <cookies ....> .....-- Only returned for HTML highlighting requests
    <cookie .....> .....-- The cookie to be set in the agent
  </cookies>
  <responses ....>
    <purpose .....> .....-- The answers for a specific portlet
      <answer .....>
        .....-- Answer to the question. (See Answer Types on page 14)
      </answer>
    </purpose>
  </responses>
  <facets>
    <result-facet> .....-- There are often multiple result-facets
      ..... -- The facet associated with the results
    </result-facet>
  </facets>
  <query>
    <question ....>
      ..... -- The original question asked
    </question>
  </query>
  <config>
    <param name="searchWithin">false</param>
  </config>
  <constraint>
    ..... -- Information about the user making the request
  </constraint>
  <session ...>
    ..... -- The content of the session
  </session>
</message>
```

Answer Types

An answer in a response can be one of the following:

- [Managed Answer](#) on page 14
- [Intent Response](#) on page 14
- [Glossary Response](#) on page 14
- [Structured Response](#) on page 15
- [Process Wizard](#) on page 16
- [Unstructured Answer](#) on page 17

Managed Answer

```
<answer rule="1654294136" type="custom" answer_id="16777216" score="1.0">
  <sentence type="code">This answer points to the Oracle Knowledge home page.</
sentence>
  <title type="code">This is a text custom text result</title>
  <link type="code">http://www.inquiria.com</link>
</answer>
```

Intent Response

```
<answer rule="1654294142" type="template" answer_id="16777217" score="1.0">
  <name>Answer Template</name>
  <element type="String" id="title">Template title</element>
  <element type="URL" id="link">http://www.inquiria.com</element>
  <element type="URL" id="image"/>
  <element type="HTML" id="text">This is the body of the answer.</element>
</answer>
```

Glossary Response

```
<answer answer_id="16777218" score="1.0" type="dictionary">
  <summary>
    <title type="text">defaultglossaryentry</title>
    <excerpt type="code">defaultglossarydefinition</excerpt>
  </summary>
</answer>
```

Structured Response

```
<answer answer_id="16777219" rule="1649837694" score="1.0" type="structured"
  table_summary_rows="3">
  <summary>
    <title>Structured Results</title>
    <description>This is a structured query example</description>
    <paraphrase>.....</paraphrase>
  </summary>
  <unavailable_fields/>
  <changed_fields/>
  <table complete="true" total_possible_results="0" total_results="2">
    <header>
      <field type="code">ID</field>
      <field type="code">TITLE</field>
      <field type="code">BODY</field>
    </header>
    <row>
      <field type="number">0</field>
      <field type="code">This is the title for the first row.</field>
      <field type="code">This is the body for the first row.</field>
    </row>
    <row>
      <field type="number">1</field>
      <field type="code">This is the title for the second row.</field>
      <field type="code">This is the body for the second row.</field>
    </row>
  </table>
  <chartTypes/>
</answer>
```

Process Wizard

A process wizard response contains a [wizard](#) element in place of an [answer](#) element:

```
<wizard label="Test Process Wizard " description="This is a test process wizard."
first_step="1A" id="myFirstWizard" default_step="defaultStep" version="1.1"
score="0.999">
  <step label="First Step" uuid="ce082608-203c-11dd-8c3e-f80a7ee9784e" id="1A">
    <section type="fields">
      <field type="html" description="<div id="kb id">>KB
10011</div>"/>
      <field type="radio" description="" id="No_Choice">
        <option value="forward" selected="true">Example</option>
      </field>
    </section>
    <section type="transitions">
      <transition step="defaultStep">
        <condition op="equal" value="forward" field="1A.No_Choice"/>
      </transition>
    </section>
  </step>
  <step label="Thanks!" id="defaultStep">
    <section type="fields">
      <field type="html" description="If your question was not
answered,<br>
      please call our Customer Support."/>
    </section>
  </step>
</wizard>
```

Unstructured Answer

```

<answer docType="HTML" collectionId="1" type="unstructured" answer_id="1677720"
score="0.9977068731827189" similar_count="5" docId="2097229" collectionName="test"
charset="Cp1252" highlight_version="true" language="en-US">
  <section>
    <title url="http://hostname/content/test.html">
      <snippet lvl="0">Document title</snippet>
    </title>
    <text>
      <snippet lvl="0">Context sentence.</snippet>
    </text>
    <text url="http://hostname:8222/content/test.html#firstAnchor">
      <snippet lvl="1">Answer for </snippet>
      <snippet lvl="3">simple test </snippet>
      <snippet lvl="1">question.</snippet>
    </text>
  </section>
  <highlighted_link type="text">http://hostname:8222/inquiraapp/
ui.jsp?ui_mode=answer&prior_transaction_id=0&iq_action=5&answer_id=167772
0&highlight_info=2097229,14,15&turl=http%3A%2F%2Fhostname%3A8222%2Fcontent%2F
test.html
  </highlighted_link>
  <link type="highlight">
    <protocol>http</protocol>
    <host>hostname</host>
    <port>8222</port>
    <path>/inquiraapp/</path>
    <file>ui.jsp</file>
    <params>
      ....
    </params>
    <anchor> ...</anchor>
  </link>
  <click_through_link type="text">http://hostname:8222/inquiraapp/
ui.jsp?ui_mode=answer&prior_transaction_id=0&iq_action=4&answer_id=167772
0&turl=http%3A%2F%2Fhostname%3A8222%2Fcontent%2Ftest.html
  </click_through_link>
  <link type="click">
    <protocol>http</protocol>
    <host>hostname</host>
    <port>8222</port>
    <path>/inquiraapp/</path>
    <file>ui.jsp</file>
    <params>
      ....
    </params>
    <anchor>firstAnchor</anchor>
  </link>

```

```

    <similar_response_link type="text">http://hostname:8222/inquiraapp/
    ui.jsp?ui_mode=answer&prior_transaction_id=0&iq_action=12&answer_id=16777
    20&related_ids=16777230,16777229,16777228,16777227,16777226
  </similar_response_link>
  <link type="similar">
    <protocol>http</protocol>
    <host>hostname</host>
    <port>8222</port>
    <path>/inquiraapp/</path>
    <file>ui.jsp</file>
    <params>
      <param name="ui_mode">answer</param>
      .....
    </params>
    <anchor>firstAnchor</anchor>
  </link>
  <timestamp>
    <date>2</date>
    <month>9</month>
    <year>2007</year>
    <hour>10</hour>
    <minute>56</minute>
    <second>27</second>
    <millisecond>920</millisecond>
  </timestamp>
  <facets>
    <facet>
      <item> .... </item>
    </facet>
  </facets>
</answer>

```


SOAP Errors

This section describes SOAP errors.

Anatomy of an Error

The elements of a SOAP error message are shown below.

```
<message type="error">
  <Message>
    .... -- Error message description
  </Message>
  <MessageCode>
    .... -- Error message code
  </MessageCode>
  <StackTrace>
    .... -- Stack trace
  </StackTrace>
</message>
```

Error Codes

The possible message codes are:

ServerInitializing	Server is initializing. Try again in a few minutes.
ServerMaintenance	Server is performing maintenance operation. Try again in a few minutes.
ServerShutdown	Server is being restarted. Try again in a few minutes.
ServerUnavailable	Server is currently unavailable. Try again in a few minutes.
ServerBusy	Server is currently busy. Try again in a few minutes.
ServerTimeout	Server has timed out.
ServerError	Server has experienced an error.

SOAP Elements

The main topics in this chapter are:

- [Request Elements](#) on page 20
- [Response Elements](#) on page 30
- [Error Elements](#) on page 47

Request Elements

The following table describes the possible elements in the XML request body. Each tag is described in detail in the following subsections.

Tag	Parent	Cardinality to Parent	Description
message	<none>	<none>	Root node of the SOAP parameter. For the request, contains an attribute of <code>type="request"</code> .
params	message	1	Container for the param nodes.
constraint	message	1	Contains the calling information of the user.
session	message	1	Contains the content of the session in binary format. The implementing agent should store the session information to pass back into the runtime on each subsequent request, as described in Passing session information on page 28.

message

Parent: <none>

Cardinality to Parent: <none>

A request message. See [Anatomy of a Request](#) on page 2 for the structure of an request message.

Attribute	Type	Usage	Values
type	xsd:string	required	request

A request message can contain the following elements:

Contains	Description
params	Container for the param nodes. For the response, the values are echoes of the request.
constraint	Container for the calling information of the user
session	Container for the content of the session.

params

Parents: [message](#)

Cardinality to Parent: 1

Container for the [param](#) nodes.

Contains	Description
param	Parameter value to be passed to the search engine.

param

Parents: [message](#)

Cardinality to Parent: 1..n

Used to pass a parameter value to the search engine. Each parameter is described in detail in the following subsections.

Attribute	Type	Usage	Values
name	xsd:string	required	ActionCode AnswerId AnswerRelatedIds AnswerStart agentAddress baseURL CCAAnswerSolutionsList CCACaseDesc CCAConnected CCAContentId CCAExtSolList CCASRKey CCASystem CCATypes charset extSessionId Facet FacetCollectionID FacetShowAll FacetPriorTransactionId FacetReset FacetShowAll

Attribute	Type	Usage	Values
name (cont)			NavigationPurpose NewPageSize nextRequest PageNumber PageSize PriorTransactionId processorAddress Question response SearchWithin SearchWithinDocEncoding SearchWithinDocUrl sessionHasExpired TrackedURL TransactionId type ui_mode user-agent.headers.referrer user-agent.parameters.query_src user-agent.parameters.highlight_info user-agent.parameters.turl user-agent.parameters.response UserFeedback UserRating wizardId

REQUEST PARAMETERS

Parameter	Description
ActionCode	<p>This determines the specific type of action the user is initiating. This value is determined by OR'ing hex values together.</p> <p>The values for unstructured (regular) search results are:</p> <ul style="list-style-type: none"> • 0x1 - Highlight an HTML page • 0x2 - Highlight a PDF page • 0x4 - Track the click through of the page • 0x8 - Show similar results <p>Therefore, a value of 5 will track a click through of a highlighted HTML page.</p> <p>All managed answers have the value:</p> <ul style="list-style-type: none"> • 0x400 - Managed answers
AnswerId	This is the internal system identification number used to track which answer was clicked on for reporting purposes.
AnswerRelatedIds	Comma separated list of answer ids for similar answers.
AnswerStart	This tells the system what result number to start with when showing the results. Counting starts from zero. So, if you show 10 answers per page, the next page will have a page_start of 10, showing the 11th result.

Parameter	Description
agentAddress	Indicates the frontend agent process that received the user (http) request.
baseURL	The base URL of the application making the search. It allows the runtime to create URLs specific to the caller. This parameter is required, and must be a valid URL to the implemented agent.
CCAAnswerSolutionsList	Contains a comma separated list of search answer id and document id pairs that are to be associated with the CCAAddSolution request. Example: <answerid>:<docid>,<answerid>:<docid>,...
CCACaseDesc	The textual description of the service request. This is the case link that associates a service request to a case in Information Manager.
CCACConnected	A boolean parameter that indicates if the session is maintained. For Siebel, this value is "true".
CCACContentId	Contains a ';' separated list of GUIDs for IM documents used in case link functionality. For case removal this defines a parameter in the request. For case linking this defines a parameter in the response.
CCAExtSolList	Contains a comma separated list of answer keys that are already associated with the service request. This information is used to display if an answer is already associated as a solution with the given SR that the question was asked for.
CCASRKey	The service request id.
CCASystem	The name of the configured cca system. If this value is specified, the system uses the configured cca with that name. If this value is not specified the default cca system is used.
CCATypes	Defines a comma separated list of keys for items that are associated with the given Service Request (SR).
charset	Represents the character set of the client. This is a required parameter and should be the value of a valid Java character set for encoding. The default is UTF-8. This parameter is option and is only used by Oracle Knowledge HTTP Agents.
extSessionId	Used by the agent implementer to track the actual session id on the agent side. This parameter is not required and can contain any string value.
Facet	States which facet(s) the user has chosen in navigation. This parameter is required, but can be the empty string. If not empty, it needs to contain a valid facet reference, as returned in a prior transaction.
FacetCollectionID	The name of the navigation application to use for this request. If not specified, the default navigation application is used.
FacetShowAll	Tells whether to show all facets or not. Its valid values are blank (empty string), true, and false. This parameter is required if the mode is Question or SearchWithin .
FacetPriorTransactionId	Similar to PriorTransactionId and refers to the last AnswerQuestion or Navigate request that created answers.
FacetReset	Flag that indicates that all facet selections should be removed.

Parameter	Description
FacetShowAll	Flag that indicates to show all child facets, if only a subset was shown before (in order to save UI space)
NavigationPurpose	This gives the location the user is paging in. General paging of results in the middle of the screen will use <code>navigation_purpose=ANSWER</code> . Other possibilities are <code>PROMOTE</code> , <code>LINK_TO_CATEGORY</code> , <code>DEFINE</code> , <code>ACT</code> , <code>CONTACT</code> .
NewPageSize	Allows the request to change the number of answers per page. The new value is used for this and all subsequent paging requests for this question.
nextRequest	Indicates what request to execute next after successful login.
PageNumber	Page number to display (zero based).
PageSize	Unused.
PriorTransactionId	This is the value of the TransactionId for the prior request of type AnswerQuestion , CCAAnswerQuestion , AnswerContact , Navigate , CCANavigate . This parameter allows you to refer to the answer for the question (navigate is a new question) and is passed back and forth throughout the session to keep tabs on the user's history.
processorAddress	Indicates which backend server processed the request.
Question	This parameter is the actual text of the search question asked. It is required, but can be blank. Valid values are any text search question. Oracle Knowledge implementations translate the value found in the HTTP request parameter named <code>question_box</code> to this value.
response	Boolean indicating if the user is satisfied that the answers received during contact deflection resolved the issue.
SearchWithin	Defines the document id that should be searched by itself to find more than one answer in the given document. This value must be the docid attribute from the result's answer tag.
SearchWithinDocEncoding	The character encoding used to return the highlighted HTML document.
SearchWithinDocUrl	Specifies an alternate URL for HTML highlighting of search within results.
sessionHasExpired	This parameter tells the runtime whether the session has expired or not. This parameter is required, with valid values of <code>true</code> or <code>false</code> . This value is most likely <code>false</code> all of the time.
TrackedURL	Defines the URL to use for click-through tracking and highlighting for bookmarked URLs.
TransactionId	This parameter is used to identify a request in a single session. The integer value has to be unique for each request in that session. The value for this parameter can be specified in the PriorTransactionId and FacetPriorTransactionId parameters in subsequent requests to refer to results generated by the request that use this transaction id. This allows for the browsers back button to work for a limited (configurable) number of questions.
type	This is the actual type of the request. This parameter is required, and the valid values are listed in Request Types on page 3 .

Parameter	Description
ui_mode	This parameter is passed through to the response rendering stage to allow for maximum code reuse in the request creation, processing and response rendering stages.
user-agent.headers.referer	Defines the prior URL the user had visited before making the search request.
user-agent.parameters.query_src	This is the query source, which is usually the page name, but could be a site name. This parameter must be provided with requests in order for them to be logged correctly.
user-agent.parameters.highlight_info	This is the offset information needed to highlight a portion of a document. This is only mandatory for highlight requests.
user-agent.parameters.turl	This is the URL to fetch to highlight or render a page. This is only mandatory for highlight and click through requests.
user-agent.parameters.response	Contains the user's decision on whether the answers resolved the problem. This parameter is used only during the contact deflection process. If the boolean value is true, the user was satisfied with the answers, otherwise an escalation should occur. Currently this value must be set to the same as the response parameter.
UserFeedback	Contains the textual feedback from the user rating the answer. The feedback mechanism allows users to submit a rating to their answer set, and add some optional comments. Several options are required to complete this interaction. For Oracle Knowledge implementations, when the user selects the radio button and submits the feedback, the main results page refreshes. The page looks the same, but is now missing the feedback form. The ui_mode for this page is feedback. This allows the system to track the fact that a feedback rating has been submitted.
UserRating	A number corresponding to the selection the user made in the radio button of ratings. Absolutely corresponds to 5, and Not Even Close corresponds to 1. The other options fall in between. NOTE: UserRating and UserFeedback must be specified in separate SOAP submissions.
wizardId	Contains the id for the process wizard that was processed. Currently this parameter is only used in the finish wizard requests.

constraint

Parent: request [message](#), response [message](#)

Cardinality to Parent: 1

Contains information about the user making the request.

Contains	Description
user	Container for the user information. This should only be used if no authentication provider is configured in search.
host	Hostname of requestor (if not doing reverse DNS, IP address should be used).
address	IP address of requestor.
language	Locale of the requestor. If not specified, the default language for the application is used.
domainGroup	The domain group for the search. if not specified, the application's default domain list is used.
segment	The segment parameter that describes the type of request.

user

Parent: [constraint](#)

Cardinality to Parent: 1 .. n

Container for the user information. User should only be used if no authentication provider is configured in search.

Either *name* or *principal* can be specified, but not both.

Contains	Description
name	Name of the user.
principal	Serialized java principal object, currently only created by Oracle Knowledge agents. It is recommended to set the user name with the <user><name> tag. A valid value can only be created by the search runtime and should be passed as is from the response to all future requests.

principal

Parent: [user](#)

Cardinality to Parent: 1 .. n

Serialized java principal object, currently only created by Oracle Knowledge agents. It is recommended to set the user name with the <user><name> tag.

Attribute	Type	Usage	Values
binary	xsd:string	required	True = Value is binary (Value is always binary)

session

Parent: request [message](#), response [message](#)

Cardinality to Parent: 1

Contains the content of the session. The implementing agent should be storing this information to pass back into the runtime on each subsequent request. See [Passing session information](#) for information on how to pass the session information for subsequent requests.

Attribute	Type	Usage	Values
binary	xsd:string	required	True = Value is binary (Value is always binary)
id	xsd:string	optional	Internal id of the session
extId	xsd:string	optional	External id of the session

Passing session information

This section provide an example of the correct usage of session id.

1 Request to answer question, no session passed

```
<message type="request">
  <params>
    <param name="type">AnswerQuestion</param>
  </params>
</message>
```

2 Response with session id:

```
<message type="response">
  .....
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
  </session>
</message>
```

3 Call to rate question with the session id and session string the same as prior response

```
<message type="request">
  <params>
    <param name="type">RateQuestion</param>
  </params>
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
  </session>
  .....
</message>
```

4 Response with same session id

```
<message type="response">
.....
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
  </session>
</message>
```

5 Second call to rate question (session id and session string is the same as prior response):

```
<message type="request">
  <params>
    <param name="type">RateQuestion</param>
  </params>
.....
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
  </session>
```

6 Response with same session id

```
<message type="response">
.....
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
  </session>
</message>
```

Response Elements

A response message can contain any of the elements listed in the following table. Each container element may contain additional elements, as listed under the container descriptions in this section.

Tag	Parent	Cardinality to Parent	Description
message	<none>	<none>	Root node of the SOAP parameter. For the request, contains an attribute of type="response".
cookies	message	1	Container for cookies to be set in the agent..
config	message	1	Container for the configuration of the query
constraint	message	1	Contains the calling information of the user.
facets	message	1	Container for the facets associated with the results.
params	message	1	Container for the param nodes. For the response, the values are echoes of the request.
query	message	1	Container for the question(s) .
responses	message	1	Container for the purposes.
session	message	1	Contains the content of the session. The implementing agent should be storing this information to pass back into the runtime on each subsequent request.
satisfied	message	1	Part of contact deflection. After the user sees the answers for the "problem," we ask if this resolved the issue. If the user answers yes, we create a response with the "satisfied" node else we create a redirect to the submission page.
Redirect	message	1	Node only in responses that indicates that the UI should be redirect to the value of the node. <Redirect>http://www.inquiria.com</Redirect>

message

Parent: <none>

Cardinality to Parent: <none>

A response message. See [Anatomy of a Response on page 13](#) for the structure of an response message.

Attribute	Type	Usage	Values
type	xsd:string	required	Message type: response

A response message can contain the following elements:

Contains	Description
params	Container for the param values in the original request.
cookies	Container for cookies to be set in the agent..
responses	Container for the purposes.
facets	Container for the facets.
query	Original query.
config	Container for the configuration of the query.
constraint	Container for the calling information of the user
session	Container for the content of the session.
satisfied	Part of contact deflection. After the user sees the answers for the “problem,” we ask if this resolved the issue. If the user answers yes, we create a response with the "satisfied" node else we create a redirect to the submission page.
Redirect	Node only in responses that indicates that the UI should be redirect to the value of the node. <Redirect>http://www.inquirea.com</Redirect>

cookies

Parent: [message](#)

Cardinality to Parent: 1

Contains cookies that need to be set in the agent. This element is only returned for HTML highlighting requests.

During HTML highlighting, the HTML page is downloaded from the server. Meanwhile, the cookies received from the browser are sent to the webserver. The webserver might return new cookies. Currently only session cookies are set. Persistent cookies are not set due to security concerns.

Contains	Description
cookie	Cookie value.

cookie

Parent: [cookies](#)

Cardinality to Parent: 0..1

The value of the cookie.

Attribute	Type	Usage	Values
name	xsd:string	required	Cookie name.
domain	xsd:string	required	The domain for which this cookie is valid.

responses

Parent: [message](#)

Cardinality to Parent: 1

Container for the [sections](#).

Attribute	Type	Usage	Values
type	xsd:string	required	Response type: response — answer results

Contains	Description
primaryAnswer	Used when showing similar answers. This element contains the answer node that is the primary answer (the answer shown on the results page).
purpose	Container for the answers for a given purpose. Purposes represent portlet answers.

purpose

Parent: [responses](#)

Cardinality to Parent: 1..n

Container for the answers for a given purpose. Purposes represent portlet answers..

Attribute	Type	Usage	Values
page_more	xsd:string	optional	Total number result pages
page_number	xsd:string	optional	The ID of the current results page (first page is 0)
page_start	xsd:string	optional	Start of the current results page
page_size	xsd:string	optional	Number of answers in the current results page
total_results	xsd:string	optional	Total number of results in the for all pages (may include similar answers)
unshown_results	xsd:string	optional	Number of unshown results in the page
score	xsd:string	required	Maximum score in this section
name	xsd:string	required	Purpose name (default "ANSWERS")

Contains	Description
wizard	Contains the process wizard information. See Process Wizard on page 70 for an example.
answer	Representation of an answer. See AnswerQuestion on page 51 for an example.

answer

Parent: [section](#)

Cardinality to Parent: 1..n

Contains the representation of an answer. There are five answer types:

- [Unstructured Answer on page 33](#)
- [Managed Answer on page 37](#)
- [Intent Response Answer on page 38](#)
- [Glossary Answer on page 39](#)
- [Structured Answer on page 40](#)
- [Process wizard on page 42](#)

Unstructured Answer

The unstructured answer type has the following attributes and elements.

Attribute	Type	Usage	Values
type	xsd:string	required	Answer type (see Answer Types on page 14): unstructured — Unstructured Answer
answer_id	xsd:string	optional	Transient answer id.
score	xsd:string	optional	Answer score.
docType	xsd:string	optional	document type enumeration: <ul style="list-style-type: none"> • HTML • PDF • MS-WORD • MS-EXCEL • MS-POWERPOINT • RTF • TEXT • CMS-XML — IM content that contains rich text fields) • IQXML — Crawler created IQXML directly (e.g., simple IM documents) • XML
collectionId	xsd:string	optional	Id of the document's collection.

docId	xsd:string	optional	Id of the document.
collectionName	xsd:string	optional	Name of the document's collection.
charset	xsd:string	optional	Character encoding of the document.
highlight_version	xsd:string	optional	Boolean that indicates if document can be highlighted.
language	xsd:string	optional	Language of the document.
similar_count	xsd:string	optional	Number of similar answers, that have the same or lower score, that are not shown.

Contains	Description
link	Link to the answer
section	Container for the excerpt of the article
highlighted_link	Contains the highlighted link for the answer.
click_through_link	This is the tracking link for the answer that enables the link to be recorded in the log.
similar_response_link	Link to display similar answers to the current answer.
timestamp	Date and time of the answer
facets	Contains the facets associated with the results.
cca	Added to answers that are set as solutions for the given SR with attribute solution set to true. Example: <cca solution="true"/>

LINK

Parent: [Unstructured Answer](#)

Cardinality to Parent: 1..3

Contains the link to the answer.

Attribute	Type	Usage	Values
type	xsd:string	required	Type of link: highlight — highlighting link click — click-through tracking link similar — similar answer link

Contains	Description
protocol	Answer link protocol.
host	Answer link host.
port	Answer link port.
path	Answer link path.
file	Answer link file.
params	Query string parameters.
anchor	Answer link anchor.

PARAMS

Parents: [message](#)

Cardinality to Parent: 1

The [param](#) values in the request message.

Contains	Description
param (1..n)	Parameter value in the request message. See Request Parameters on page 23 for the complete list.

SECTION

Parent: [Unstructured Answer](#)

Cardinality to Parent: 1

Contains document data organized by sections.

Contains	Description
section	A subsection.
title	Contains answer document title(s).
text	A single answer sentence.

TEXT

Parent: [section](#)

Cardinality to Parent: 1..n

Contains the titles of the answer documents.

Attribute	Type	Usage	Values
url	xsd:string	optional	URL to closest anchor.

Contains	Description
snippet	Container for sentence parts.

TITLE

Parent: [section](#)

Cardinality to Parent: 1..n

Contains the titles of the answer documents.

Attribute	Type	Usage	Values
url	xsd:string	optional	URL to closest anchor.

Contains	Description
snippet	Container for sentence parts.

SNIPPET**Parent:** [title](#), [text](#)**Cardinality to Parent:** 1..n

Container for sentence parts.

Attribute	Type	Usage	Values
name	xsd:string	optional	Snippet name
lvl	xsd:string	optional	Highlight level: 0 — no highlighting 1 — answer sentence (but no match) 2 or 3 — match

TIMESTAMP**Parent:** [Unstructured Answer](#)**Cardinality to Parent:** 1

Date and time of the answer.

Contains	Description
date	Day in the month. Values: 1-31
month	Month in the year. Values: 1-12
year	Year
hour	Hour of the day. Values: 0-59
minute	Minutes into the hour. Values: 0-59
second	Seconds into the minute. Values: 0-59
millisecond	Millisecond into the second. Values: 0-999

FACETS**Parent:** [Unstructured Answer](#)**Cardinality to Parent:** 1

Contains the facets associated with the results.

Contains	Description
facet	Represents a facet.

FACET**Parent:** [facets](#)**Cardinality to Parent:** 0..n

Contains a facet.

Attribute	Type	Usage	Values
hidden	xsd:string	optional	Boolean that, if true, facet should not be shown but the data is available for integration/UI purposes.

Contains	Description
item	Contains a single facet "level" description.

ITEM**Parent:** [facet](#)**Cardinality to Parent:** 1..n

Contains a single facet "level" description.

Attribute	Type	Usage	Values
id	xsd:string	optional	Key representing the item.
selected	xsd:string	optional	Boolean indicating whether facet restriction for this facet is in effect.

Contains	Description
description	Description for single facet level.

Managed Answer

The managed answer type has the following attributes and elements.

Attribute	Type	Usage	Values
type	xsd:string	required	Answer type (see Answer Types on page 14): custom — Managed Answer
answer_id	xsd:string	optional	Transient answer id.
score	xsd:string	optional	Answer score
rule	xsd:string	optional	Rule id that triggered answer.

Contains	Description
link	Link to the answer
sentence	Contains a single answer sentence.
title	Contains answer document title.

LINK

Parent: [Managed Answer](#)

Cardinality to Parent: 0..n

Contains the link to the answer.

Attribute	Type	Usage	Values
type	xsd:string	required	Type of link: text — text only (not HTML) code — use verbatim (can include HTML)

SENTENCE

Parent: [Managed Answer](#)

Cardinality to Parent: 0..n

Contains the link to the answer.

Attribute	Type	Usage	Values
type	xsd:string	required	Type of link: text — text only (not HTML) code — use verbatim (can include HTML)

TITLE

Parent: [Managed Answer](#)

Cardinality to Parent: 1..n

Contains the titles of the answer documents.

Attribute	Type	Usage	Values
type	xsd:string	optional	Display type: text — text only (not HTML) code — use verbatim (can include HTML)

Intent Response Answer

The intent response answer type has the following attributes and elements.

Attribute	Type	Usage	Values
type	xsd:string	required	Answer type (see Answer Types on page 14): template — Intent Response
answer_id	xsd:string	optional	Transient answer id.
score	xsd:string	optional	Answer score
rule	xsd:string	optional	Rule id that triggered answer.

Contains	Description
name	Template name. Must exist.
element	Excerpt from response.

ELEMENT

Parent: [Intent Response Answer](#)

Cardinality to Parent: 1..n

Excerpt from response.

Attribute	Type	Usage	Values
type	xsd:string	required	Element type: String — text only (not HTML) URL — URL HTML — can contain HTML
id	xsd:string	required	Element id. Value is dependent on answer template. Common values are title, link, image, and text.

Glossary Answer

The glossary answer type has the following attributes and elements.

Attribute	Type	Usage	Values
type	xsd:string	required	Answer type (see Answer Types on page 14): dictionary — Glossary Response
answer_id	xsd:string	optional	Transient answer id.
score	xsd:string	optional	Answer score

Contains	Description
summary	Contains answer document titles.

SUMMARY

Parent: [Glossary Answer](#)

Cardinality to Parent: 1

Response header.

Contains	Description
title	Response title
excerpt	Excerpt from response.

TITLE**Parent:** [summary](#)**Cardinality to Parent:** 1

Contains the titles of the answer documents.

Attribute	Type	Usage	Values
type	xsd:string	optional	Display type: text — text only (not HTML) code — use verbatim (can include HTML)

EXCERPT**Parent:** [summary](#)**Cardinality to Parent:** 1

Excerpt from response.

Attribute	Type	Usage	Values
type	xsd:string	required	Except type: text — text only (not HTML) code — can contain HTML

Structured Answer

The structured answer type has the following attributes and elements.

Attribute	Type	Usage	Values
type	xsd:string	required	Answer type (see Answer Types on page 14): structured — Structured Response
answer_id	xsd:string	optional	Transient answer id.
score	xsd:string	optional	Answer score
table_summary_rows	xsd:string	optional	Number of rows including header.
rule	xsd:string	optional	Rule id that triggered answer.

Contains	Description
summary	Response header.
chart	Unused.
chartTypes	Unused.
unavailable_fields	Unused.
changed_fields	Unused.
sortCol	Unused.
table	Data container.

SUMMARY

Parent: [Structured Answer](#)

Cardinality to Parent: 1..n

Response header.

Contains	Description
title	Response title.
description	Response description.
paraphrase (0..n)	Zero or more paraphrased queries.

TABLE

Parent: [Structured Answer](#)

Cardinality to Parent: 1

Data container.

Attribute	Type	Usage	Values
total_possible_results	xsd:string	required	Numeric indicator for additional results
total_results	xsd:string	required	Number of results returned
complete	xsd:string	required	Boolean that indicates whether entire table has been returned

Contains	Description
header	Table header container.
row	Row data container.

HEADER

Parent: [table](#)

Cardinality to Parent: 1

Table header container.

Contains	Description
field	Data container.

ROW

Parent: [table](#)

Cardinality to Parent: 0..n

Table row container.

Contains	Description
field	Data container.

FIELD**Parent:** [header](#), [row](#)**Cardinality to Parent:** 1..n

Data container.

Attribute	Type	Usage	Values
type	xsd:string	optional	Display type. The display types are: number — numeric text — text only (not HTML) code — can contain HTML
orig	xsd:string	optional	Unformatted value.

wizard**Parent:** [section](#)**Cardinality to Parent:** 1..n

Contains the process wizard information.

Attribute	Type	Usage	Values
id	xsd:string	optional	Process Wizard id.
version	xsd:string	optional	Version id.
label	xsd:string	optional	Process Wizard title.
description	xsd:string	optional	Process Wizard description.
first_step	xsd:string	optional	First step to display/process.
default_step	xsd:string	optional	Default step id (final step).
score	xsd:string	optional	Answer score.

Contains	Description
step	Process Wizard step.

step**Parent:** [wizard](#)**Cardinality to Parent:** 1..n

Process Wizard step.

Attribute	Type	Usage	Values
id	xsd:string	optional	Step Id (used in transitions)
label	xsd:string	optional	Step title.
uuid	xsd:string	optional	Step Id.

Contains	Description
section	Document data organized by sections.

section

Parent: [step](#)

Cardinality to Parent: 1..n

Grouping of elements.

Attribute	Type	Usage	Values
type	xsd:string	optional	Section type: fields — Displayable fields transitions — Transition definitions

Contains	Description
field	Field description.
transition	A transition to the next Process Wizard step.

field

Parent: [section](#)

Cardinality to Parent: 1..n

Field description.

Attribute	Type	Usage	Values
id	xsd:string	required for input fields	Id of the field.
type	xsd:string	optional	Display type. The display types are: text — text label html — html label radio — radio button search — search definition select — drop down list box checkbox — checkbox
isSharedType	xsd:string	optional	Boolean flag that indicates whether field is shared (default false).
description	xsd:string	optional	Description of the field.

Contains	Description
option	Value definition for selection.
map	Process wizards can map field values to search context variable to submit customized search as a wizard step.

option

Parent: [section field](#)

Cardinality to Parent: 0..n

Value definition for selection.

Attribute	Type	Usage	Values
value	xsd:string	optional	Field value, if selected.
selected	xsd:string	optional	Boolean that indicates if value is the default.

map

Parent: [section field](#)

Cardinality to Parent: 0..n

Mapping of wizard field to context variables. These values are used when search is triggered by language rules..

Attribute	Type	Usage	Values
field	xsd:string	optional	field id in the format: <i>stepId.fieldId</i>
variable	xsd:string	optional	Context variable name.

transition

Parent: [section](#)

Cardinality to Parent: 0..n

A transition to the next Process Wizard step..

Attribute	Type	Usage	Values
step	xsd:string	optional	Next step id.

Contains	Description
condition	Condition for transition.

condition

Parent: [transition](#)

Cardinality to Parent: 1

Condition for transition.

Attribute	Type	Usage	Values
field	xsd:string	optional	Comparison field id (<stepId>.<fieldId>)
op	xsd:string	optional	Comparison operation: equal not equal less than greater than
value	xsd:string	optional	Comparison value

facets

Parent: [message](#)

Cardinality to Parent: 1

Contains the facets associated with the results.

Contains	Description
result-facet	Represents a facet associated with the results.

result-facet

Parent: [facets](#), [result-facet](#) (recursive)

Cardinality to Parent: 0..n

Contains a facet associated with the results.

Attribute	Type	Usage	Values
inEffect	xsd:string	optional	Boolean that, if true, only facet is in effect.
incomplete	xsd:string	optional	Boolean that, if true, not all child facets are shown.
showlink	xsd:string	optional	Boolean that, if false, link should not be shown.
tempSelect	xsd:string	optional	Boolean that, if true, facet as in effect for this request

Contains	Description
id	Key representing the facet.
description	Displayable text representing the facet.
data	Contains the facet data.
count	Number representing count of articles found in the facet. Can be used with the attribute 'atLeast', which indicates that the facet count is known to be accurate.
result-facet	Child facet definition.

query

Parent: [message](#)

Cardinality to Parent: 1

Container for the question(s) that have been asked in this session and that are still available to access answers.

Contains	Description
question	Original question asked in the query.

question

Parent: [query](#)

Cardinality to Parent: 1..n

Contains the question.

Attribute	Type	Usage	Values
transactionId	xsd:string	required	Transaction Id that identifies the request in the session.
language	xsd:string	optional	Locale of the requestor. If not known, should be set to default of "en-US".
type	xsd:string	optional	Type of request. See Request Types on page 3 .

Contains	Description
original	Original question, as entered by the user.
paraphrase	Question, as modified by the rules engine.
spellchecked	Question, as modified by the spellchecker.

config

Parent: [message](#)

Cardinality to Parent: 1

Contains the configuration of the query

Contains	Description
param	Value of the SearchWithin parameter from the search configuration on the server that specifies whether to display the "search within" button in the UI.

Error Elements

message

Parent: <none>

Cardinality to Parent: <none>

An error message. See [Anatomy of an Error on page 19](#) for the structure of an error message.

Attribute	Type	Usage	Values
type	xsd:string	required	error — Error message info — Informational message

An error message can contain the following elements:

Contains	Description
Message	Text of error message. See Error Codes on page 19 for the complete list.
MessageCode	Error message code. See Error Codes on page 19 for the complete list.
StackTrace	Optional stack trace

Example Requests and Responses

This chapter shows message requests and corresponding responses to provide a sample of the values. There are many factors that influence the content of the responses from the type of crawlers used in the system to the content found in those sources being crawled to the language rules found in the ontology. Note every possible scenario is covered in these examples.

This section does not show the SOAP transaction, but one is assumed for each transaction. Additionally, the session tag content is being omitted for brevity.

This chapter includes both the SOAP request and response for the following:

- *Empty Request/Response*
- *AnswerQuestion*
- *Navigation*
- *Process Answer*
- *Facet Navigation*
- *Process Wizard*
- *Rate Question*

Empty Request/Response

Request

```
<message type="request">
  <params>
    <param name="agentAddress">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="TransactionId">30</param>
    <param name="sessionHasExpired">true</param>
    <param name="type">EmptyRequest</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="processorAddress">soap: urn:inquira@http://localhost:15120/inquiragw/
      servlet/rpcrouter</param>
    <param name="charset">UTF-8</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">http://test.myco.com:15122/inquiraapp/
      ui.jsp</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
      </param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
  </params>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
</message>
```

Response

```

<message type="response">
  <params>
    <param name="agentAddress"> http://test.myco.com:15122/inquirapp/ui.jsp</param>
    <param name="TransactionId">30</param>
    <param name="sessionHasExpired">true</param>
    <param name="type">EmptyRequest</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="baseUrl">http://test.myco.com:15122/inquirapp/ui.jsp</param>
    <param name="processorAddress">soap: urn:inquirapp@http://localhost:15120/inquiragw/
      servlet/rpcrouter</param>
    <param name="charset">UTF-8</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">http://test.myco.com:15122/inquirapp/
      ui.jsp</param>
    <param name="user-agent.headers.accept"> text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5 </param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
      </param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6 </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
    <param name="processorVersion">8.0.1.05(66)</param>
  </params>
  <facets></facets>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session id="d6970938-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
    ...
  </session>
</message>

```


AnswerQuestion

Request

```
<message type="request">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="Question">What is free checking?</param>
    <param name="FacetShowAll"></param>
    <param name="baseURL">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="SearchWithin"></param>
    <param name="TransactionId">31</param>
    <param name="type">AnswerQuestion</param>
    <param name="agentAddress">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="processorAddress">soap: urn:inquira@http://localhost:15120/inquiragw/
      servlet/rpcrouter</param>
    <param name="ui_mode">question</param>
    <param name="Facet"></param>
    <param name="structured_chart"></param>
    <param name="user-agent.parameters.ui_mode">question</param>
    <param name="user-agent.parameters.question_box">What is free checking?</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">http://test.myco.com:15122/inquiraapp/
      ui.jsp</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.content-length">83</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
      </param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.content-type">application/x-www-form-urlencoded
      </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
  </params>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session>...</session>
</message>
```

Response

```

<message type="response">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="Question">What is free checking?</param>
    <param name="FacetShowAll"></param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp
  </param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="SearchWithin"></param>
    <param name="TransactionId">31</param>
    <param name="type">AnswerQuestion</param>
    <param name="agentAddress">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="processorAddress">
      soap: urn:inquira@http://localhost:15120/inquiragw/servlet/rpcrouter</param>
    <param name="ui_mode">question</param>
    <param name="Facet"></param>
    <param name="structured_chart"></param>
    <param name="user-agent.parameters.ui_mode">question</param>
    <param name="user-agent.parameters.question_box">What is free checking?</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="user-agent.headers.accept">
      text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/
      plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.content-length">83</param>
    <param name="user-agent.headers.accept-charset">
      ISO-8859-1,utf-8;q=0.7,*;q=0.7</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">
      Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.6)
      Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.content-type">
      application/x-www-form-urlencoded</param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
    <param name="processorVersion">8.0.1.05(66)</param>
  </params>
  <responses type="response">
    <purpose page_start="0" page_number="0" total_results="124" page_size="4"
      name="ANSWER" score="0.99999500622665" page_more="2">
      <answer rule="476815602" type="template" answer_id="16777216"
        score="0.99999500622665">
        <name>Answer Template</name>
        <element type="String" id="title">
          Sign up for a Free Checking Account!</element>
        <element type="URL" id="link">
          http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=an-
          swer&amp;
          prior_transaction_id=31&amp;iq_action=1028&amp;answer_id=167772
          16&amp;
          turl=http%3A%2F%2Fwww.myco.com%2Fpersonal%2Ffreechecking.html
        </element>
        <element type="URL" id="image"></element>
        <element type="HTML" id="text">

```

```

Looking for a free checking account? Sign up today!</element>
</answer>
<answer type="unstructured" score="0.9980049788817063" docType="HTML"
  language="en-US" charset="UTF-8" collectionId="2" collectionName="my-
co"
  answer_id="16777219" docId="4211308" highlight_version="true">
<section>
  title url="http://www.myco.com/business/planningkits/browseby-
topic/finances101/
    Accountingterms3.htm">
    <snippet lvl="0">
      Article: "Accounting Terms"
    </snippet>
  </title>
<section>
  <title url="http://www.myco.com/business/planningkits/
finances101/
    Accountingterms3.htm#startcontent">
    <snippet lvl="0">Business</snippet>
  </title>
<section>
    <title url="http://www.myco.com/business/planning-
finances101/Accountingterms3.htm#startcon-
tent">
    <snippet lvl="0">
      Accounting Terms Every Businessperson Should
    </snippet>
  </title>
<section>
    <title url="http://www.myco.com/browsebytop-
ic/
    finances101/
    Accountingterms3.htm#startcontent">
    <snippet lvl="0">Other Helpful Resources</
snippet>
  </title>
  <text url="http://www.myco.com/browsebytop-
ic/
    finances101/
    Accountingterms3.htm#startcontent">
    <snippet lvl="1">Check out our myco</snippet>
    <snippet lvl="3">Free Checking</snippet>
    <snippet lvl="1">? account for your personal
checking needs.
    </snippet>
  </text>
  <text>
    <snippet lvl="0">
      Free ATM withdrawals worldwide
    </snippet>
  </text>
</section>
</section>
</section>
<highlighted_link type="text">
  http://test.myco.com:15122/inquiraapp ui.jsp?ui_mode=answer&
prior_transaction_id=31&iq_action=5&answer_id=16777219&
amp;
  highlight_info=4211308,241,255&turl=http%3A%2F%2Fwww.myco.c
om
  %2Fbusiness%2Fplanningkits%2Fbrowsebytopic%2Ffinances101

```

```

        %2FAccountingterms3.htm#__highlight
</highlighted_link>
<link type="highlight">
  <protocol>http</protocol>
  <host>test.myco.com</host>
  <port>15122</port>
  <path>/inquiraapp</path>
  <file>ui.jsp</file>
  <params>
    <param name="ui_mode">answer</param>
    <param name="prior_transaction_id">31</param>
    <param name="iq_action">5</param>
    <param name="answer_id">16777219</param>
    <param name="highlight_info">4211308,241,255</param>
    <param name="turl">
      http://www.myco.com/business/planningkits/
browsebytopic/finances101/
      Accountingterms3.htm
    </param>
  </params>
  <anchor>__highlight</anchor>
</link>
<click_through_link type="text">
  http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=an-
  prior_transaction_id=31&iq_action=4&answer_id=16777219&
  turl=http%3A%2F%2Fwww.myco.com%2Fbusiness%2Fplanningkits
  %2Fbrowsebytopic%2Ffinances101%2FAccountingterms3.htm#startcont
ent
</click_through_link>
<link type="click">
  <protocol>http</protocol>
  <host>test.myco.com</host>
  <port>15122</port>
  <path>/inquiraapp</path>
  <file>ui.jsp</file>
  <params>
    <param name="ui_mode">answer</param>
    <param name="prior_transaction_id">31</param>
    <param name="iq_action">4</param>
    <param name="answer_id">16777219</param>
    <param name="turl">
      http://www.myco.com/business/planningkits/browse-
bytopic/finances101/
      Accountingterms3.htm
    </param>
  </params>
  <anchor>startcontent</anchor>
</link>
<similar_response_link type="text">
  http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=an-
  prior_transaction_id=31&iq_action=12&answer_id=16777219
  &related_ids=
</similar_response_link>
<link type="similar">
  <protocol>http</protocol>
  <host>test.myco.com</host>
  <port>15122</port>
  <path>/inquiraapp</path>
  <file>ui.jsp</file>
  <params>

```

```

        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">31</param>
        <param name="iq_action">l2</param>
        <param name="answer_id">16777219</param>
        <param name="related_ids"></param>
    </params>
</link>
<timestamp>
    <date>2</date>
    <month>9</month>
    <year>2007</year>
    <hour>10</hour>
    <minute>56</minute>
    <second>27</second>
    <millisecond>920</millisecond>
</timestamp>
</answer>
</purpose>
</responses>
<facets>
    <result-facet>
        <id>Language</id>
        <description>LANGUAGE</description>
        <count>124</count>
        <result-facet>
            <id>Language.en</id>
            <description>English</description>
            <count>124</count>
        </result-facet>
    </result-facet>
    <result-facet>
        <id>Document Type</id>
        <description>DOCUMENT TYPE</description>
        <count>124</count>
        <result-facet>
            <id>Document Type.CMS-XML</id>
            <description>CMS-XML</description>
            <count>1</count>
        </result-facet>
    </result-facet>
    <result-facet>
        <id>Document Type.HTML</id>
        <description>HTML</description>
        <count>116</count>
    </result-facet>
</facets>
<query>
    <question language="en-US" transactionId="31">
        <original>What is free checking?</original>
        <paraphrase>What is free checking?</paraphrase>
    </question>
</query>
<config>
    <param name="searchWithin">false</param>
</config>
<constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
</constraint>
<session id="d6970937-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
    ...
</session>
</message>

```

Navigation

Request

```
<message type="request">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="NavigationPurpose">ANSWER</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="TransactionId">32</param>
    <param name="PageNumber">0</param>
    <param name="type">NextResults</param>
    <param name="agentAddress">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">
      soap: urn:inquira@http://localhost:15120/inquiragw/servlet/rpcrouter</param>
    <param name="ui_mode">paging</param>
    <param name="user-agent.parameters.page_number">0</param>
    <param name="user-agent.parameters.ui_mode">paging</param>
    <param name="user-agent.parameters.navigation_purpose">ANSWER</param>
    <param name="user-agent.parameters.direction">next</param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
    </param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
  </params>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session>...</session>
</message>
```

Response

```

<message type="response">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="NavigationPurpose">ANSWER</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="TransactionId">32</param>
    <param name="PageNumber">0</param>
    <param name="type">NextResults</param>
    <param name="agentAddress">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">
      soap: urn:inquira@http://localhost:15120/inquiragw/servlet/rpcrouter</param>
    <param name="ui_mode">paging</param>
    <param name="user-agent.parameters.page_number">0</param>
    <param name="user-agent.parameters.ui_mode">paging</param>
    <param name="user-agent.parameters.navigation_purpose">ANSWER</param>
    <param name="user-agent.parameters.direction">next</param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="user-agent.headers.accept">
      text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/
plain;q=0.8,
      image/png,*/*;q=0.5
    </param>
    <param name="user-agent.headers.accept-charset">
      ISO-8859-1,utf-8;q=0.7,*;q=0.7</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">
      Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.6) Gecko/20070725
      Firefox/2.0.0.6
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
    <param name="processorVersion">8.0.1.05(66)</param>
  </params>
  <facets>
    <result-facet>
      <id>Language</id>
      <description>LANGUAGE</description>
      <count>124</count>
      <result-facet>
        <id>Language.en</id>
        <description>English</description>
        <count>124</count>
      </result-facet>
    </result-facet>
    <result-facet>
      <id>Document Type</id>
      <description>DOCUMENT TYPE</description>
      <count>124</count>
      <result-facet>
        <id>Document Type.CMS-XML</id>

```

```

        <description>CMS-XML</description>
        <count>1</count>
    </result-facet>
    <result-facet>
        <id>Document Type.HTML</id>
        <description>HTML</description>
        <count>116</count>
    </result-facet>
    <result-facet>
        <id>Document Type.PDF</id>
        <description>PDF</description>
        <count>7</count>
    </result-facet>
</result-facet>
</facets>
<responses type="response">
    <purpose page_start="5" page_number="1" total_results="0" unshown_results="-5"
        page_size="2" name="ANSWER" score="0.9980049788802212" page_more="0">
        <answer type="unstructured" score="0.9980049788802212" docType="HTML"
            language="en-US" charset="UTF-8" collectionId="2" collectionName="myco"
            answer_id="16777221" docId="4211313" highlight_version="true">
            <section>
                <title url="http://www.myco.com/business/taxissues/
EstimatedTaxes3.htm">
                    <snippet lvl="0">
                        Article: "Paying Estimated Taxes" from Washington Mu-
tua
                    </snippet>
                </title>
                <section>
                    <title url="http://www.myco.com/business/taxissues/
                        EstimatedTaxes3.htm#startcontent">
                        <snippet lvl="0">Business</snippet>
                    </title>
                    <section>
                        <title url="http://www.myco.com/business/taxissues/
                            EstimatedTaxes3.htm#startcontent">
                            <snippet lvl="0">Paying Estimated Taxes </
snippet>
                                </title>
                                <section>
                                    <title url="http://www.myco.com/business/tax-
issues/
                                        EstimatedTaxes3.htm#startcontent">
                                        <snippet lvl="0">Other Helpful Business
Resources</snippet>
                                            </title>
                                            <text url="http://www.myco.com/business/tax-
issues/
                                                EstimatedTaxes3.htm#startcontent">
                                                <snippet lvl="1">Check out our myco</
snippet>
                                                    <snippet lvl="3">Free Checking</snippet>
                                                    <snippet lvl="1">? account for your per-
sonal checking needs.
                                                        </snippet>
                                                    </text>
                                                    <text>
                                                        <snippet lvl="0">
                                                            With free checks for life and free
ATM withdrawals
                                                                worldwide, it's free checking re-
defined!
                                                                    </snippet>

```



```

                </text>
            </section>
        </section>
    </section>
</section>
<highlighted_link type="text">
    http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=an-
swer&
    prior_transaction_id=31&iq_action=5&answer_id=16777221&
    highlight_info=4211313,331,345&turl=http%3A%2F%2Fwww.myco.c
    %2Fbusiness%2Fplanningkits%2Fbrowsebytopic%2Ftaxissues%2F
    EstimatedTaxes3.htm#__highlight
</highlighted_link>
<link type="highlight">
    <protocol>http</protocol>
    <host>test.myco.com</host>
    <port>15122</port>
    <path>/inquiraapp</path>
    <file>ui.jsp</file>
    <params>
        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">31</param>
        <param name="iq_action">5</param>
        <param name="answer_id">16777221</param>
        <param name="highlight_info">4211313,331,345</param>
        <param name="turl">
            http://www.myco.com/business/taxissues/
            EstimatedTaxes3.htm
        </param>
    </params>
    <anchor>__highlight</anchor>
</link>
<click_through_link type="text">
    http://test.myco.com:15122/inquiraapp/
    ui.jsp?ui_mode=answer&prior_transaction_id=31&iq_action
    =4&
    answer_id=16777221&turl=http%3A%2F%2Fwww.myco.com%2F
    business%2Fplanningkits%2Fbrowsebytopic%2Ftaxissues%2F
    EstimatedTaxes3.htm#startcontent
</click_through_link>
<link type="click">
    <protocol>http</protocol>
    <host>test.myco.com</host>
    <port>15122</port>
    <path>/inquiraapp</path>
    <file>ui.jsp</file>
    <params>
        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">31</param>
        <param name="iq_action">4</param>
        <param name="answer_id">16777221</param>
        <param name="turl">
            http://www.myco.com/business/taxissues/
            EstimatedTaxes3.htm
        </param>
    </params>
    <anchor>startcontent</anchor>
</link>
<similar_response_link type="text">
    http://test.myco.com:15122/inquiraapp/
    ui.jsp?ui_mode=answer&prior_transaction_id=31&
    iq_action=12&answer_id=16777221&related_ids=

```

```

        </similar_response_link>
        <link type="similar">
            <protocol>http</protocol>
            <host>test.myco.com</host>
            <port>15122</port>
            <path>/inquirapp</path>
            <file>ui.jsp</file>
            <params>
                <param name="ui_mode">answer</param>
                <param name="prior_transaction_id">31</param>
                <param name="iq_action">12</param>
                <param name="answer_id">16777221</param>
                <param name="related_ids"></param>
            </params>
        </link>
        <timestamp>
            <date>2</date>
            <month>9</month>
            <year>2007</year>
            <hour>10</hour>
            <minute>56</minute>
            <second>30</second>
            <millisecond>937</millisecond>
        </timestamp>
    </answer>
</purpose>
</responses>
<query>
    <question language="en-US" transactionId="31">
        <original>What is free checking?</original>
        <paraphrase>What is free checking?</paraphrase>
    </question>
</query>
<config>
    <param name="searchWithin">false</param>
</config>
<constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
</constraint>
<session id="d6970937-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
    ...
</session>
</message>

```

Process Answer

Request

```
<message type="request">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="AnswerRelatedIds"></param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="AnswerId">16777221</param>
    <param name="ActionCode">5</param>
    <param name="TransactionId">33</param>
    <param name="type">ProcessAnswer</param>
    <param name="agentAddress">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="TrackedURL">http://www.myco.com/business/taxissues/
      EstimatedTaxes3.htm</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">soap: urn:inquira@http://localhost:15120/inquiragw/
      servlet/rpcrouter</param>
    <param name="ui_mode">answer</param>
    <param name="user-agent.parameters.ui_mode">answer</param>
    <param name="user-agent.parameters.answer_id">16777221</param>
    <param name="user-agent.parameters.iq_action">5</param>
    <param name="user-agent.parameters.turl">http://www.myco.com/business/taxissues/
      EstimatedTaxes3.htm</param>
    <param name="user-agent.parameters.highlight_info">4211313,331,345</param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">http://test.myco.com:15122/inquiraapp/
      ui.jsp?ui_mode=paging& charset=UTF-8&
      language=en-US& prior_transaction_id=31&
      navigation_purpose=ANSWER& page_number=0& direction=next</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
    </param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
  </params>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session>...</session>
</message>
```

Response

```
<message type="response">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="baseUrl">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="AnswerRelatedIds"></param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="AnswerId">16777221</param>
    <param name="ActionCode">5</param>
    <param name="TransactionId">33</param>
    <param name="type">ProcessAnswer</param>
    <param name="agentAddress">
      http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="TrackedURL">
      http://www.myco.com/business/taxissues/EstimatedTaxes3.htm</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">
      soap: urn:inquira@http://localhost:15120/inquiragw/servlet/rpcrouter</param>
    <param name="ui_mode">answer</param>
    <param name="user-agent.parameters.ui_mode">answer</param>
    <param name="user-agent.parameters.answer_id">16777221</param>
    <param name="user-agent.parameters.iq_action">5</param>
    <param name="user-agent.parameters.turl">
      http://www.myco.com/business/taxissues/EstimatedTaxes3.htm</param>
    <param name="user-agent.parameters.highlight_info">4211313,331,345</param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">
      http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=paging&
      charset=UTF-8&language=en-US&prior_transaction_id=31&
      navigation_purpose=ANSWER&page_number=0&direction=next
    </param>
    <param name="user-agent.headers.accept">
      text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,
      text/plain;q=0.8,image/png,*/*;q=0.5
    </param>
    <param name="user-agent.headers.accept-charset">
      ISO-8859-1,utf-8;q=0.7,*;q=0.7</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">
      Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.6)
      Gecko/20070725 Firefox/2.0.0.6
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
    <param name="processorVersion">8.0.1.05(66)</param>
  </params>
  <cookies>
    <cookie name="BIGipServerpubsitewww" domain="www.myco.com">
      854663946.20480.0000</cookie>
    <cookie name="ASP.NET_SessionId" domain="www.myco.com">
      zisvonu4fqwmq0bpdv0xwrz3</cookie>
  </cookies>
  <HttpPassThrough ContentType="text/html; charset=UTF-8" Charset="UTF-8"
    Language="en-US">
    <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
      "http://www.w3.org/TR/html4/loose.dtd">
  <html>
```

```

        <!-- content of the page goes here... removed for brevity... -->
    </html>
</HttpPassThrough>
<facets>
    <result-facet>
        <id>Language</id>
        <description>LANGUAGE</description>
        <count>124</count>
        <result-facet>
            <id>Language.en</id>
            <description>English</description>
            <count>124</count>
        </result-facet>
    </result-facet>
    <result-facet>
        <id>Document Type</id>
        <description>DOCUMENT TYPE</description>
        <count>124</count>
        <result-facet>
            <id>Document Type.CMS-XML</id>
            <description>CMS-XML</description>
            <count>1</count>
        </result-facet>
        <result-facet>
            <id>Document Type.HTML</id>
            <description>HTML</description>
            <count>116</count>
        </result-facet>
        <result-facet>
            <id>Document Type.PDF</id>
            <description>PDF</description>
            <count>7</count>
        </result-facet>
    </result-facet>
    <result-facet>
        <id>Collection</id>
        <description>COLLECTION</description>
        <count>124</count>
        <result-facet>
            <id>Collection.IM_GLOSSARY</id>
            <description>IM_GLOSSARY</description>
            <count>1</count>
        </result-facet>
        <result-facet>
            <id>Collection.myco</id>
            <description>myco</description>
            <count>123</count>
        </result-facet>
    </result-facet>
</facets>
<query>
    <question language="en-US" transactionId="31">
        <original>What is free checking?</original>
        <paraphrase>What is free checking?</paraphrase>
    </question>
</query>
<config>
    <param name="searchWithin">false</param>
</config>
<constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>

```

```
</constraint>
<session id="d6970937-6e25-11dc-8650-e6ed81188eab" binary="true"
  extId="9636E6E2AA3E99173A961F0F51B2521D">
  ...
</session>
</message>
```

Facet Navigation

Request

```
<message type="request">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="Question"></param>
    <param name="FacetShowAll"></param>
    <param name="baseURL">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="SearchWithin"></param>
    <param name="TransactionId">34</param>
    <param name="type">Navigate</param>
    <param name="agentAddress">http://test.myco.com:15122/inquiraapp/ui.jsp</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">soap: urn:inquira@http://localhost:15120/inquiragw/
      servlet/rpcrouter</param>
    <param name="ui_mode">navigate</param>
    <param name="Facet">CMS-CHANNEL-myco.Glossary</param>
    <param name="structured_chart"></param>
    <param name="user-agent.parameters.ui_mode">navigate</param>
    <param name="user-agent.parameters.structured_chart"></param>
    <param name="user-agent.parameters.facetCollectionID"></param>
    <param name="user-agent.parameters.question_box"></param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.facet">CMS-CHANNEL-myco.Glossary</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">http://test.myco.com:15122/inquiraapp/
      ui.jsp?ui_mode=paging& charset=UTF-8&
      language=en-US& prior_transaction_id=31&
      navigation_purpose=ANSWER& page_number=0& direction=next</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;
      q=0.7</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.2;
      en-US; rv:1.8.1.6) Gecko/20070725 Firefox/2.0.0.6</param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
  </params>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session>...</session>
</message>
```

Response

```
<message type="response">
  <params>
    <param name="sessionHasExpired">false</param>
    <param name="Question"></param>
    <param name="FacetShowAll"></param>
    <param name="baseUrl">http://test.myco.com:15122/inquirapp/ui.jsp</param>
    <param name="extSessionId">9636E6E2AA3E99173A961F0F51B2521D</param>
    <param name="charset">UTF-8</param>
    <param name="PriorTransactionId">31</param>
    <param name="SearchWithin"></param>
    <param name="TransactionId">34</param>
    <param name="type">Navigate</param>
    <param name="agentAddress">http://test.myco.com:15122/inquirapp/ui.jsp</param>
    <param name="FacetPriorTransactionId">31</param>
    <param name="processorAddress">
      soap: urn:inquirapp@http://localhost:15120/inquiragw/servlet/rpcrouter</param>
    <param name="ui_mode">navigate</param>
    <param name="Facet">CMS-CHANNEL-myco.Glossary</param>
    <param name="structured_chart"></param>
    <param name="user-agent.parameters.ui_mode">navigate</param>
    <param name="user-agent.parameters.structured_chart"></param>
    <param name="user-agent.parameters.facetCollectionID"></param>
    <param name="user-agent.parameters.question_box"></param>
    <param name="user-agent.parameters.prior_transaction_id">31</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.facet">CMS-CHANNEL-myco.Glossary</param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.accept-encoding">gzip, deflate</param>
    <param name="user-agent.headers.referer">
      http://test.myco.com:15122/inquirapp/ui.jsp?ui_mode=paging&
      charset=UTF-8&language=en-US&prior_transaction_id=31&
      navigation_purpose=ANSWER&page_number=0&direction=next
    </param>
    <param name="user-agent.headers.accept">
      text/xml,application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;
      q=0.8,image/png,*/*;q=0.5
    </param>
    <param name="user-agent.headers.accept-charset">
      ISO-8859-1,utf-8;q=0.7,*;q=0.7</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.user-agent">
      Mozilla/5.0 (Windows; U; Windows NT 5.2; en-US; rv:1.8.1.6)
      Gecko/20070725 Firefox/2.0.0.6
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.host">test.myco.com:15122</param>
    <param name="processorVersion">8.0.1.05(66)</param>
  </params>
  <responses type="response">
    <purpose page_start="0" page_number="0" total_results="1" unshown_results="-1"
      page_size="2" name="ANSWER" score="0.99999500622665" page_more="0">
      <answer rule="476815602" type="template" answer_id="16777216"
        score="0.99999500622665">
        <name>Answer Template</name>
        <element type="String" id="title">
          Sign up for a Free Checking Account!
        </element>
        <element type="URL" id="link">
          http://test.myco.com:15122/inquirapp/ui.jsp?ui_mode=answer&
```



```

        prior_transaction_id=34&iq_action=1028&
        answer_id=16777216&turl=http%3A%2F%2F
        www.myco.com%2Fpersonal%2Ffreechecking.html
    </element>
    <element type="URL" id="image"></element>
    <element type="HTML" id="text">
        Looking for a free checking account? Sign up today!</element>
</answer>
<answer type="unstructured" score="0.4991022410282163" docType="CMS-XML"
    language="en-US" charset="UTF-8" collectionId="6"
    collectionName="IM_GLOSSARY" answer_id="16777217"
    docId="12582914" highlight_version="true">
    <section>
        <title url="http://test.myco.com:15032/InfoCenter/
            index?page=content&id=GL1&actp=search">
            <snippet lvl="0">Free Checking</snippet>
        </title>
        <text url="http://test.myco.com:15032/InfoCenter/
            index?page=content&id=GL1&actp=search">
            <snippet lvl="1">Washington Mutual</snippet>
            <snippet lvl="3">Free Checking</snippet>
            <snippet lvl="1">.</snippet>
        </text>
        <text>
            <snippet lvl="0">Check out the free checking!</snippet>
        </text>
    </section>
    <highlighted_link type="text">
        http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=answer&
        prior_transaction_id=34&iq_action=5&
        answer_id=16777217&highlight_info=12582914,2,6&
        turl=http%3A%2F%2Ftest.myco.com%3A15032%2F
        InfoCenter%2Findex%3Fpage%3Dcontent%26id%3D
        GL1%26actp%3Dsearch#__highlight
    </highlighted_link>
    <link type="highlight">
        <protocol>http</protocol>
        <host>test.myco.com</host>
        <port>15122</port>
        <path>/inquiraapp/</path>
        <file>ui.jsp</file>
        <params>
            <param name="ui_mode">answer</param>
            <param name="prior_transaction_id">34</param>
            <param name="iq_action">5</param>
            <param name="answer_id">16777217</param>
            <param name="highlight_info">12582914,2,6</param>
            <param name="turl">
                http://test.myco.com:15032/InfoCenter/in-
                dex?page=content&
                id=GL1&actp=search
            </param>
        </params>
        <anchor>__highlight</anchor>
    </link>
    <click_through_link type="text">
        http://test.myco.com:15122/inquiraapp/ui.jsp?ui_mode=answer&
        prior_transaction_id=34&iq_action=4&answer_id=16777217&
        turl=http%3A%2F%2Ftest.myco.com%3A15032%2FInfoCenter%2F
        index%3Fpage%3Dcontent%26id%3DGL1%26actp%3Dsearch
    </click_through_link>
    <link type="click">

```

```

        <protocol>http</protocol>
        <host>test.myco.com</host>
        <port>15122</port>
        <path>/inquiraapp/</path>
        <file>ui.jsp</file>
        <params>
            <param name="ui_mode">answer</param>
            <param name="prior_transaction_id">34</param>
            <param name="iq_action">4</param>
            <param name="answer_id">16777217</param>
            <param name="turl">
                http://test.myco.com:15032/InfoCenter/in-
dex?page=content&
                id=GL1&actp=search
            </param>
        </params>
    </link>
    <similar_response_link type="text">
        http://test.myco.com:15122/inquiraapp/
        ui.jsp?ui_mode=answer&prior_transaction_id=34&
        iq_action=12&answer_id=16777217&related_ids=
    </similar_response_link>
    <link type="similar">
        <protocol>http</protocol>
        <host>test.myco.com</host>
        <port>15122</port>
        <path>/inquiraapp/</path>
        <file>ui.jsp</file>
        <params>
            <param name="ui_mode">answer</param>
            <param name="prior_transaction_id">34</param>
            <param name="iq_action">12</param>
            <param name="answer_id">16777217</param>
            <param name="related_ids"></param>
        </params>
    </link>
    <timestamp>
        <date>2</date>
        <month>9</month>
        <year>2007</year>
        <hour>10</hour>
        <minute>11</minute>
        <second>21</second>
        <millisecond>47</millisecond>
    </timestamp>
</answer>
</purpose>
</responses>
<facets>
    <result-facet>
        <id>Language</id>
        <description>LANGUAGE</description>
        <count>1</count>
        <result-facet>
            <id>Language.en</id>
            <description>English</description>
            <count>1</count>
        </result-facet>
    </result-facet>
    <result-facet>
        <id>Document Type</id>
        <description>DOCUMENT TYPE</description>
        <count>1</count>
    </result-facet>

```

```

        <result-facet>
          <id>Document Type.CMS-XML</id>
          <description>CMS-XML</description>
          <count>1</count>
        </result-facet>
      </result-facet>
    <result-facet>
      <id>Collection</id>
      <description>COLLECTION</description>
      <count>1</count>
      <result-facet>
        <id>Collection.IM_GLOSSARY</id>
        <description>IM_GLOSSARY</description>
        <count>1</count>
      </result-facet>
    </result-facet>
  </facets>
  <query>
    <question referenceId="31" language="en-US" transactionId="34">
      <original>What is free checking?</original>
      <paraphrase>What is free checking?</paraphrase>
    </question>
    <question language="en-US" transactionId="31">
      <original>What is free checking?</original>
      <paraphrase>What is free checking?</paraphrase>
    </question>
  </query>
  <config>
    <param name="searchWithin">false</param>
  </config>
  <constraint>
    <address>192.168.111.1</address>
    <host>192.168.111.1</host>
    <language>en-US</language>
  </constraint>
  <session id="d6970937-6e25-11dc-8650-e6ed81188eab" binary="true"
    extId="9636E6E2AA3E99173A961F0F51B2521D">
    ...
  </session>
</message>

```

Process Wizard

Request

```
<message type="request">
  <params>
    <param name="type">AnswerQuestion</param>
    <param name="charset">UTF-8</param>
    <param name="Question">ipod integration with my car</param>
    <param name="structured_chart"></param>
    <param name="TransactionId">1019864122</param>
    <param name="ui_mode">question</param>
    <param name="Facet"></param>
    <param name="SearchWithin"></param>
    <param name="FacetShowAll"></param>
    <param name="user-agent.parameters.debug">>true</param>
    <param name="user-agent.parameters.ui_mode">question</param>
    <param name="user-agent.parameters.question_box">ipod integration with my car</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.headers.host">gold.inquiria.com</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.1;
      en-US; rv:1.8.1.12) Gecko/20080201 Firefox/2.0.0.12</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.accept-encoding">gzip,deflate</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
      </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.referer">http://gold.inquiria.com/inquirawb/
      ui.jsp?debug=true</param> <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.content-type">application/x-www-form-urlencoded
      </param>
    <param name="user-agent.headers.content-length">98</param>
    <param name="agentAddress">http://gold.inquiria.com/inquirawb/ui.jsp</param>
    <param name="processorAddress">transport: local</param>
    <param name="baseURL">http://gold.inquiria.com:80/inquirawb/ui.jsp</param>
    <param name="extSessionId">E1CAAD0625407D19BB8B29ABA8A2BCC5</param>
  </params>
  <constraint>
    <language>en-US</language>
    <host>10.0.9.35</host>
    <address>10.0.9.35</address>
  </constraint>
</message>
```

Response

```

<message type="response">
  <params>
    <param name="type">AnswerQuestion</param>
    <param name="charset">UTF-8</param>
    <param name="Question">ipod integration with my car</param>
    <param name="structured_chart"></param>
    <param name="TransactionId">1019864122</param>
    <param name="ui_mode">question</param>
    <param name="Facet"></param>
    <param name="SearchWithin"></param>
    <param name="FacetShowAll"></param>
    <param name="user-agent.parameters.debug">true</param>
    <param name="user-agent.parameters.ui_mode">question</param>
    <param name="user-agent.parameters.question_box">ipod integration with my car</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.headers.host">gold.inquiria.com</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.1;
    en-US; rv:1.8.1.12) Gecko/20080201 Firefox/2.0.0.12</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
    xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.accept-encoding">gzip,deflate</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.referer">http://gold.inquiria.com/inquirawb/
    ui.jsp?debug=true</param> <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.content-type">application/x-www-form-urlencoded
    </param>
    <param name="user-agent.headers.content-length">98</param>
    <param name="agentAddress">http://gold.inquiria.com/inquirawb/ui.jsp</param>
    <param name="processorAddress">transport: local</param>
    <param name="baseUrl">http://gold.inquiria.com:80/inquirawb/ui.jsp</param>
    <param name="extSessionId">E1CAAD0625407D19BB8B29ABA8A2BCC5</param>
    <param name="processorVersion">8.0.3.01(11)</param>
  </params>
  <responses type="response">
    <purpose page_start="0" page_number="0" total_results="44" page_size="10"
      name="ANSWER" score="1.0" page_more="4">
      <wizard label="Car Integration" description="Let us help you determine the best
options to
      enjoy your iPod in your car." first_step="1A" id="ipod_in_car"
      default_step="default Step" version="1.1">
      <step label="Make" uuid="9acdaleb-b0b8-11db-ac24-9033f30a2a5b"
id="2A">
        <section type="fields">
          <field type="html" description="Enter the make of your
car"/>
          <field type="select" description="Make" id="select_1">
            <option value="Acura">Acura</option>
            <option value="Aston Martin">Aston Martin</option>
            <option value="Audi">Audi</option>
            <option value="BMW">BMW</option>
            <option value="Bentley">Bentley</option>
            <option value="Buick">Buick</option>
            <option value="Cadillac">Cadillac</option>
            <option value="Chevrolet">Chevrolet</option>
            <option value="Dodge">Dodge</option>
            <option value="Ferrari">Ferrari</option>

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                                <option value="Ford">Ford</option>
                            </field>
                        </section>
                        <section type="transitions">
                            <transition step="3A">
                                <condition op="equal" value="Acura"

field="2A.select_1"/>

                                </transition>
                                <transition step="3B">
                                    <condition op="equal" value="Cadillac"

field="2A.select_1"/>

                                </transition>
                                <transition step="3C">
                                    <condition op="equal" value="Aston Martin"

field="2A.select_1"/>

                                </transition>
                            </section>
                        </step>
                        <step label="Model_Acura" uuid="9acdalec-b0b8-11db-ac24-9033f30a2a5b"
id="3A">
                            <section type="fields">
                                <field type="html" description="Enter the model of your car"/>
                                <field type="select" description="Model" id="select_1">
                                    <option value="MDX">MDX</option>
                                    <option value="RL">RL</option>
                                    <option value="RSX">RSX</option>
                                    <option value="TL">TL</option>
                                    <option value="TSX">TSX</option>
                                </field>
                            </section>
                            <section type="transitions">
                                <transition step="4A">
                                    <condition op="equal" value="MDX"

field="3A.select_1"/>

                                    <condition op="equal" value="RL" field="3A.select_1"/>
                                >
                                    <condition op="equal" value="TL" field="3A.select_1"/>
                                >

                                </transition>
                                <transition step="4B">
                                    <condition op="equal" value="RSX"

field="3A.select_1"/>

                                    <condition op="equal" value="TSX"

field="3A.select_1"/>

                                </transition>
                            </section>
                        </step>
                        <step label="Model_Cadillac" uuid="9acdaled-b0b8-11db-ac24-9033f30a2a5b"
id="3B">
                            <section type="fields">
                                <field type="html" description="Enter the model of your car"/>
                                <field type="select" description="Model" id="select_1">
                                    <option value="CTS">CTS</option>
                                    <option value="CTSV">CTS-V</option>
                                    <option value="DTS">DTS</option>
                                    <option value="Escalade">Escalade</option>
                                    <option value="Escalade ESV">Escalade ESV</option>
                                    <option value="Escalade EXT">Escalade EXT</option>
                                    <option value="SRX">SRX</option>
                                    <option value="STS">STS</option>
                                    <option value="STSV">STS-V</option>
                                    <option value="XLR">XLR</option>
                                    <option value="XLRV">XLR-V</option>
                                </field>
                            </section>

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        </field>
      </section>
      <section type="transitions">
        <transition step="4B"/>
      </section>
    </step>
    <step label="Year" uuid="9acdalee-b0b8-11db-ac24-9033f30a2a5b" id="1A">
      <section type="fields">
        <field type="html" description="Enter the Year of your car."/>
        <field type="select" description="Year" id="text_1">
          <option value="2008">2008</option>
          <option value="2007">2007</option>
          <option value="2006">2006</option>
          <option value="2005">2005</option>
          <option value="2004">2004</option>
          <option value="2003">2003</option>
          <option value="2002">2002</option>
          <option value="2001">2001 and before</option>
        </field>
      </section>
      <section type="transitions">
        <transition step="2A">
          <condition op="not equal" value="2001"
field="1A.text_1"/>
          </transition>
          <transition step="4B">
            <condition op="equal" value="2001" field="1A.text_1"/>
          </transition>
        </section>
      </step>
      <step label="integrated" uuid="9acdalef-b0b8-11db-ac24-9033f30a2a5b"
id="4A">
        <section type="fields">
          <field type="html" description="Acura offers seamless inte-
gration between
          your car and your iPod"/>
        </section>
      </step>
      <step label="options" uuid="9acdalf0-b0b8-11db-ac24-9033f30a2a5b"
id="4B">
        <section type="fields">
          <field type="html" description="Unfortunately, your car does
not come with
factory iPod integration. However, you have several options
for integrating
your iPod into your car stereo."/>
          <field type="radio" description="Option" id="options">
            <option value="replace">Replace the factory head unit
with an
aftermarket unit</option>
            <option value="integrate">Add an aftermarket adapter
to integrate your
ipod into your existing car stereo</option>
            <option value="fm_modulation">Transmit your ipod over
an unused radio
station of your car stereo</option>
          </field>
        </section>
        <section type="transitions">
          <transition step="5A">
            <condition op="equal" value="replace" field="4B.op-
tions"/>
          </transition>

```

```

        <transition step="5B">
            <condition op="equal" value="fm_modulation"

field="4B.options"/>

        </transition>
        <transition step="5C">
            <condition op="equal" value="integrate"

field="4B.options"/>

        </transition>
    </section>
</step>
<step label="aftermarket" uuid="9acd1f1-b0b8-11db-ac24-9033f30a2a5b"
id="5A">
    <section type="fields">
        <field type="html" description="There are many, high qual-
ity aftermarket car
gration <
car/
tails. ">
            stereo manufacturers offering seamless ipod inte-
            a href= ";http://www.apple.com/ipodnano/ipodyour-
            accessories.html ">click here</a> for more de-
    </section>
</step>
<step label="<New Step>" uuid="9acd1f2-b0b8-11db-ac24-9033f30a2a5b"
id="0A">
    <section type="fields">
        <field type="html" description="*** Replace with step de-
description ***"/>
    </section>
</step>
<step label="fm_modulation" uuid="9acd1f3-b0b8-11db-ac24-
9033f30a2a5b"
id="5B">
    <section type="fields">
        <field type="html" description="<a href= ";http://
www.griffintechology.com/products/itrip/
";>iTrip</a>
sends your music wirelessly from your iPod to any
FM radio ? in your car,
at a party, or wherever the mood strikes you. Simply
tune your radio to an
unused radio station, select your tunes, and your
music will be playing
over the radio. <br><img src= ";http://
www.griffintechology.com/assets/images/products/
itrip/
prod_itrip_main.jpg ">"/>
    </section>
</step>
<step label="integrated_switch" uuid="9acd1f4-b0b8-11db-ac24-
9033f30a2a5b"
id="5C">
    <section type="fields">
        <field type="html" description="There are several, <a href=
";http://
www.apple.com/ipodnano/ipodyourcar/accessories.ht-
ml ">high
quality aftermarket car stereo switches</a> offer-
ing seamless ipod
integration into your existing car stereo. ">
    </section>
</step>
<step label="Model_Aston_Martin" uuid="9acd1f5-b0b8-11db-ac24-

```



```

9033f30a2a5b"
                                id="3C">
                                <section type="fields"> <field type="html" description="Enter
your Aston Martin
                                model."/>
                                <field type="select" description="Model" id="select_1">
                                    <option value="DB9">DB9</option>
                                    <option value="Vanquish">Vanquish</option>
                                    <option value="Vantage">Vantage</option>
                                </field>
                                </section>
                                <section type="transitions">
                                    <transition step="4C"/>
                                </section>
                            </step>
                            <step label="Aston Martin integrated" uuid="9acda1f6-b0b8-11db-ac24-
9033f30a2a5b" id="4C">
                                <section type="fields">
                                    <field type="html" description="Exciting news! Your Aston
Martin features
                                    factory integration between your iPod and the fac-
tory car stereo."/>
                                </section>
                            </step>
                            <step label="<New Step>" uuid="5d68661e-b0ba-11db-8c53-caldec857616"
id="0B">
                                <section type="fields">
                                    <field type="html" description="*** Replace with step de-
scription ***"/>
                                </section>
                            </step>
                            <step label="Thanks!" id="defaultStep">
                                <section type="fields">
                                    <field type="html" description="If your question was not
                                    answered,<br>please call our Customer Support."/>
                                </section>
                            </step>
                        </wizard>

```

Rate Question

Note: UserRating and UserFeedback must be specified in separate SOAP submissions.

Request

```
<message type="request">
  <params>
    <param name="type">RateQuestion</param>
    <param name="charset">UTF-8</param>
    <param name="TransactionId">1019864264</param>
    <param name="PriorTransactionId">1019864260</param>
    <param name="FacetPriorTransactionId">1019864260</param>
    <param name="UserRating">3</param>
    <param name="ui_mode">feedback</param>
    <param name="user-agent.parameters.debug">true</param>
    <param name="user-agent.parameters.ui_mode">feedback</param>
    <param name="user-agent.parameters.rating">3</param>
    <param name="user-agent.parameters.rating_val">3</param>
    <param name="user-agent.parameters.prior_transaction_id">1019864260</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.headers.host">gold.inquiracom</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.1;
      en-US; rv:1.8.1.14) Gecko/20080404 Firefox/2.0.0.14</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.accept-encoding">gzip,deflate</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.referer">http://gold.inquiracom/inquirawb/ui.jsp</
param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.content-type">application/x-www-form-urlencoded
    </param>
    <param name="user-agent.headers.content-length">12</param>
    <param name="agentAddress">http://gold.inquiracom/inquirawb/ui.jsp</param>
    <param name="processorAddress">transport: local</param>
    <param name="baseUrl">http://gold.inquiracom:80/inquirawb/ui.jsp</param>
    <param name="extSessionId">91E8F1DD210150C575D23AB7A57F615E</param>
  </params>
  <constraint>
    <language>en-US</language>
    <host>10.0.9.35</host>
    <address>10.0.9.35</address>
  </constraint>
</message>
```

Response

```

<message type="response">
  <params>
    <param name="type">RateQuestion</param>
    <param name="charset">UTF-8</param>
    <param name="TransactionId">1019864264</param>
    <param name="PriorTransactionId">1019864260</param>
    <param name="FacetPriorTransactionId">1019864260</param>
    <param name="UserRating">3</param>
    <param name="ui_mode">feedback</param>
    <param name="user-agent.parameters.debug">>true</param>
    <param name="user-agent.parameters.ui_mode">feedback</param>
    <param name="user-agent.parameters.rating">3</param>
    <param name="user-agent.parameters.rating_val">3</param>
    <param name="user-agent.parameters.prior_transaction_id">1019864260</param>
    <param name="user-agent.parameters.language">en-US</param>
    <param name="user-agent.parameters.charset">UTF-8</param>
    <param name="user-agent.headers.host">gold.inquiracom</param>
    <param name="user-agent.headers.user-agent">Mozilla/5.0 (Windows; U; Windows NT 5.1;
      en-US; rv:1.8.1.14) Gecko/20080404 Firefox/2.0.0.14</param>
    <param name="user-agent.headers.accept">text/xml,application/xml,application/
      xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5</param>
    <param name="user-agent.headers.accept-language">en-us,en;q=0.5</param>
    <param name="user-agent.headers.accept-encoding">gzip,deflate</param>
    <param name="user-agent.headers.accept-charset">ISO-8859-1,utf-8;q=0.7,*;q=0.7
    </param>
    <param name="user-agent.headers.keep-alive">300</param>
    <param name="user-agent.headers.connection">keep-alive</param>
    <param name="user-agent.headers.referer">http://gold.inquiracom/inquirawb/ui.jsp</
param>
    <param name="user-agent.headers.cookie"></param>
    <param name="user-agent.headers.content-type">application/x-www-form-urlencoded
    </param>
    <param name="user-agent.headers.content-length">12</param>
    <param name="agentAddress">http://gold.inquiracom/inquirawb/ui.jsp</param>
    <param name="processorAddress">transport: local</param>
    <param name="baseUrl">http://gold.inquiracom:80/inquirawb/ui.jsp</param>
    <param name="extSessionId">91E8F1DD210150C575D23AB7A57F615E</param>
    <param name="processorVersion">8.0.3.01 (11)</param>
  </params>
  <facets>
    <result-facet>
      <id>CMS-CHANNEL-DEMO</id>
      <description>Information Manager Channel</description>
      <count>1</count>
      <result-facet>
        <id>CMS-CHANNEL-DEMO.Solutions</id>
        <description>Solutions</description>
        <count>1</count>
      </result-facet>
    </result-facet>
    <result-facet>
      <id>CMS-VIEW-DEMO</id>
      <description>Information Manager View</description>
      <count>5</count>
      <result-facet>
        <id>CMS-VIEW-DEMO.Demo</id>
        <description>Demo</description>
        <count>5</count>
      </result-facet>
    </result-facet>
  </facets>
</responses type="response">

```

```

<purpose page_start="0" page_number="0" total_results="0" page_size="10"
name="ANSWER" score="0.9997008895433345" page_more="4">
<answer type="unstructured" score="0.9997008895433345" docType="IQXML"
language="en-US" charset="UTF-8" collectionId="4"
collectionName="product_support_discussions" answer_id="16777216"
docId="8388655" highlight_version="true">
<section>
<title url="http://demo/index?page=forums&
topic=00323b32ec3b010f310b5af5007d77&
actp=search#00323b32ec3b010f310b5af5007d77">
<snippet lvl="1">How do I install Information </snippet>
<snippet lvl="3">Manager</snippet>
<snippet lvl="1">?</snippet>
</title>
</section>
<highlighted_link type="text">http://gold.inquirawb/
ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
iq_action=5&answer_id=16777216&highlight_info=8388655,
0,6&turl=http%3A%2Fdemo%2Findex%3Fpage%3D
forums%26topic%3D00323b32ec3b010f310b5af5007
d77%26actp%3Dsearch%2300323b32ec3b010f310
b5af5007d77#__highlight
</highlighted_link>
<link type="highlight">
<protocol>http</protocol>
<host>gold.inquirawb</host>
<path>/inquirawb</path>
<file>ui.jsp</file>
<params>
<param name="ui_mode">answer</param>
<param name="prior_transaction_id">1019864260</param>
<param name="iq_action">5</param>
<param name="answer_id">16777216</param>
<param name="highlight_info">8388655,0,6</param>
<param name="turl">http://demo/index?page=forums&
topic=00323b32ec3b010f310b5af5007d77&
actp=search#00323b32ec3b010f310b5af5007d77</param>
</params>
<anchor>__highlight</anchor>
</link>
<click_through_link type="text">http://gold.inquirawb/
ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
iq_action=4&answer_id=16777216&turl=http%3A%2F
demo%2Findex%3Fpage%3Dforums%26topic%3
D00323b32ec3b010f310b5af5007d77%26actp%3D
search%2300323b32ec3b010f310b5af5007d77#0032
3b32ec3b010f310b5af5007d77
</click_through_link>
<link type="click">
<protocol>http</protocol>
<host>gold.inquirawb</host>
<path>/inquirawb</path>
<file>ui.jsp</file>
<params>
<param name="ui_mode">answer</param>
<param name="prior_transaction_id">1019864260</param>
<param name="iq_action">4</param>
<param name="answer_id">16777216</param>
<param name="turl">http://demo/index?page=forums&
topic=00323b32ec3b010f310b5af5007d77&
actp=search#00323b32ec3b010f310b5af5007d77
</param>
</params>
<anchor>00323b32ec3b010f310b5af5007d77</anchor>

```

```

        </link>
        <similar_response_link type="text">http://gold.inquirawb.com:80/in-
quirawb/
        ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
iq_action=12&answer_id=16777216&de-
bug=true&related_ids=
        </similar_response_link>
        <link type="similar">
        <protocol>http</protocol>
        <host>gold.inquirawb.com</host>
        <path>/inquirawb</path>
        <file>ui.jsp</file>
        <params>
        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">1019864260</param>
        <param name="iq_action">12</param>
        <param name="answer_id">16777216</param>
        <param name="debug">true</param>
        <param name="related_ids"></param>
        </params>
        </link>
        <timestamp>
        <date>29</date>
        <month>10</month>
        <year>2006</year>
        <hour>0</hour>
        <minute>25</minute>
        <second>33</second>
        <millisecond>0</millisecond>
        </timestamp>
        <facets>
        <facet hidden="true">
        <item id="CMS-SOURCE-TYPE" selected="false">
        <description>Content Source Type</description>
        </item>
        <item id="CMS-SOURCE-TYPE.IM_DISCUSSION" select-
ed="false">
        <description>IM_DISCUSSION</description>
        </item>
        </facet>
        <facet hidden="true">
        <item id="CMS-GUID" selected="false">
        <description>CMS GUID</description>
        </item>
        <item id="CMS-GUID.00323b32ec3b010f310b5af5007d77"
selected="false">
        <description>00323b32ec3b010f310b5af5007d77</de-
scription>
        </item>
        </facet>
        <facet hidden="true">
        <item id="CMS-FORUM_STRUCTURE" selected="false">
        <description>IM Forum Structure</description>
        </item>
        <item id="CMS-FORUM_STRUCTURE.DEMO" selected="false">
        <description>DEMO</description>
        </item>
        <item id="CMS-FORUM_STRUCTURE.DEMO.PRODUCT_SUPPORT"
selected="false">
        <description>PRODUCT_SUPPORT</description>
        </item>
        <item id="CMS-FORUM_STRUCTURE.DEMO.PRODUCT_SUPPORT.
INSTALLATION" selected="false">
        <description>INSTALLATION</description>

```

```

        </item>
        <item id="CMS-FORUM_STRUCTURE.DEMO.PRODUCT_SUPPORT.
            INSTALLATION.00323b32ec3b010f310b5af5007d77" select-
ed="false">
            <description>00323b32ec3b010f310b5af5007d77</de-
scription>
        </item>
    </facet>
</facets>
</answer>
<answer type="unstructured" score="0.9997008894912779" docType="IQXML"
    language="en-US" charset="UTF-8" collectionId="4"
    collectionName="product_support_discussions" answer_id="16777217"
    docId="8388669" highlight_version="true">
    <section>
        <title url="http://demo/index?page=forums&top-
ic=00323b32ec3b010f31
            0b5af5007d77&message=00325878c742010f5f870163006f39
            &actp=search#00325878c742010f5f870163006f39">
er?</snippet>
        </title>
        <text>
            <snippet lvl="0">The installation documentation can usu-
ally be found below
                the directory where the application was installed.
            </snippet>
        </text>
        <text>
            <snippet lvl="0">Look for a &quot;docs&quot; fold-
er.</snippet>
        </text>
        <text url="http://demo/index?page=forums&
            topic=00323b32ec3b010f310b5af5007d77&
            message=00325878c742010f5f870163006f39&
            actp=search#00325878c742010f5f870163006f39">
            <snippet lvl="1">If INformation </snippet>
            <snippet lvl="3">Manager </snippet>
            <snippet lvl="1">was instlled along with Intelligent
Search, the documents
            can be found in the &quot;docs' directory for your
            installation.
        </text>
    </section>
    <highlighted_link type="text">http://gold.inquirawb/
        ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
iq_action=5&answer_id=16777217&highlight_info=8388669,37,
        63&turl=http%3A%2Fdemo%2Findex%3Fpage%3Dforums%26
        topic%3D00323b32ec3b010f310b5af5007d77%26message%3D00
        325878c742010f5f870163006f39%26actp%3Dsearch%2300325878
        c742010f5f870163006f39#__highlight
    </highlighted_link>
    <link type="highlight">
        <protocol>http</protocol>
        <host>gold.inquirawb</host>
        <path>/inquirawb</path>
        <file>ui.jsp</file>
        <params>
            <param name="ui_mode">answer</param>
            <param name="prior_transaction_id">1019864260</param>
            <param name="iq_action">5</param>
            <param name="answer_id">16777217</param>

```

```

        <param name="highlight_info">8388669,37,63</param>
        <param name="turl">http://demo/index?page=forums&
            topic=00323b32ec3b010f310b5af5007d77&
            message=00325878c742010f5f870163006f39&
            actp=search#00325878c742010f5f870163006f39
        </param>
    </params>
    <anchor>__highlight</anchor>
</link>
<click_through_link type="text">http://gold.inquirawb.com:80/inquirawb/
    ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
    iq_action=4&answer_id=16777217&turl=http%3A%2F
    demo%2Findex%3Fpage%3Dforums%26topic%3D00323b32ec3
    b010f310b5af5007d77%26message%3D00325878c742010f5f870
    163006f39%26actp%3Dsearch%2300325878c742010f5f87016300
    6f39#00325878c742010f5f870163006f39
</click_through_link>
<link type="click">
    <protocol>http</protocol>
    <host>gold.inquirawb.com</host>
    <path>/inquirawb/</path>
    <file>ui.jsp</file>
    <params>
        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">1019864260</param>
        <param name="iq_action">4</param>
        <param name="answer_id">16777217</param>
        <param name="turl">http://demo/index?page=forums&
            topic=00323b32ec3b010f310b5af5007d77&
            message=00325878c742010f5f870163006f39&
            actp=search#00325878c742010f5f870163006f39
        </param>
    </params>
    <anchor>00325878c742010f5f870163006f39</anchor>
</link>
<similar_response_link type="text">http://gold.inquirawb.com:80/in-
    quirawb/
    ui.jsp?ui_mode=answer&prior_transaction_id=1019864260&
    iq_action=12&answer_id=16777217&de-
    bug=true&related_ids=
</similar_response_link>
<link type="similar">
    <protocol>http</protocol>
    <host>gold.inquirawb.com</host>
    <path>/inquirawb/</path>
    <file>ui.jsp</file>
    <params>
        <param name="ui_mode">answer</param>
        <param name="prior_transaction_id">1019864260</param>
        <param name="iq_action">12</param>
        <param name="answer_id">16777217</param>
        <param name="debug">true</param>
        <param name="related_ids"></param>
    </params>
</link>
<timestamp>
    <date>11</date>
    <month>11</month>
    <year>2006</year>
    <hour>7</hour>
    <minute>44</minute>
    <second>14</second>
    <millisecond>0</millisecond>
</timestamp>

```

```

        <facets>
          <facet hidden="true">
            <item id="CMS-SOURCE-TYPE" selected="false">
              <description>Content Source Type</description>
            </item>
            <item id="CMS-SOURCE-TYPE.IM_DISCUSSION" select-
ed="false">
              <description>IM_DISCUSSION</description>
            </item>
          </facet>
          <facet hidden="true">
            <item id="CMS-GUID" selected="false">
              <description>CMS GUID</description>
            </item>
            <item id="CMS-GUID.00325878c742010f5f870163006f39" se-
lected="false">
              <description>00325878c742010f5f870163006f39</de-
scription>
            </item>
          </facet>
          <facet hidden="true">
            <item id="CMS-TOPIC_ID" selected="false">
              <description>CMS Topic Id</description>
            </item>
            <item id="CMS-TOPIC_ID.00323b32ec3b010f310b5af5007d77"
selected="false">
              <description>00323b32ec3b010f310b5af5007d77</de-
scription>
            </item>
          </facet>
          <facet hidden="true">
            <item id="CMS-FORUM_STRUCTURE" selected="false">
              <description>IM Forum Structure</description>
            </item>
            <item id="CMS-FORUM_STRUCTURE.DEMO" selected="false">
              <description>DEMO</description></item>
            <item id="CMS-FORUM_STRUCTURE.DEMO.PRODUCT_SUPPORT"
selected="false">
              <description>PRODUCT_SUPPORT</description>
            </item>
            <item id="CMS-FORUM_STRUCTURE.DEMO.PRODUCT_SUPPORT
.INSTALLATION" selected="false">
              <description>INSTALLATION</description>
            </item>
          </facet>
        </facets>
      </answer>
    </purpose>
  </responses>
</query>
  <question language="en-US" transactionId="1019864260">
    <original>information manager</original>
    <paraphrase>information manager</paraphrase>
  </question>
</query>
<config>
  <param name="searchWithin">false</param>
</config>
<constraint>
  <language>en-US</language>
  <host>10.0.9.35</host>
  <address>10.0.9.35</address>
</constraint>
</message>

```


Oracle Knowledge XML Schema Definition

This chapter shows the elements in XML Schema Definition for the Oracle Knowledge SOAP API.

Summary of SOAP Elements

address	answer	application	cca
changed_fields	changed_fields	chart	chartTypes
click_through_link	condition	config	constraint
correction	count	documentDetail	domainGroup
element	excerpt	facet	facets
field	find	header	headers
highlighted_link	host	item	language
link	map	Message	option
original	param	params	paraphrase
primaryAnswer	principal	purpose	query
question	Redirect	responses	result-facet
row	section	sentence	session
similar_response_link	snippet	spellchecked	step
suggestion	summary	table	text
timestamp	title	transition	unavailable_fields
user	version	wizard	

SOAP Elements

```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

Message

```
<xsd:element name="message">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="params" minOccurs="0"/>
      <xsd:element ref="responses" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="facets" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="find" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="query" minOccurs="0"/>
      <xsd:element ref="config" minOccurs="0"/>
      <xsd:element ref="constraint" minOccurs="0"/>
      <xsd:element ref="session" minOccurs="0"/>
      <xsd:element ref="Message" minOccurs="0"/>
      <xsd:element ref="MessageCode" minOccurs="0"/>
      <xsd:element ref="StackTrace" minOccurs="0"/>
      <xsd:element ref="satisfied" minOccurs="0"/>
      <xsd:element ref="Redirect" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="type" use="required" type="xsd:string"/>
    <xsd:attribute name="XSL_MODE" use="optional" type="xsd:string"/>
    <xsd:attribute name="language" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="Message" type="xsd:string"/>
<xsd:element name="MessageCode" type="xsd:string"/>
<xsd:element name="StackTrace" type="xsd:string"/>
<xsd:element name="satisfied" type="xsd:string"/>
<!--responses-->
```

Redirect

```
<xsd:element name="Redirect">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="optional"
type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
```

responses

```

</xsd:element> <!--responses-->
<xsd:element name="responses">
  <xsd:complexType>
    <xsd:choice maxOccurs="unbounded">
      <xsd:element ref="primaryAnswer" maxOccurs="unbounded" minOccurs="0"/>
      <xsd:element ref="purpose" maxOccurs="unbounded" minOccurs="0"/>
    </xsd:choice>
    <xsd:attribute name="type" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>

```

params

```

<!--params-->
<xsd:element name="params">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="param" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

param

```

<xsd:element name="param">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="name" use="required" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>

```

session

```

<!--session-->
<xsd:element name="session">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="binary" use="required" type="xsd:string"/>
        <xsd:attribute name="id" use="optional" type="xsd:string"/>
        <xsd:attribute name="extId" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>

```

constraint

```

<!--constaint-->
<xsd:element name="constraint">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="user"/>
      <xsd:element ref="host"/>
      <xsd:element ref="address"/>
    </xsd:choice>
  </xsd:complexType>

```

```
        <xsd:element ref="application"/>
        <xsd:element ref="version"/>
        <xsd:element ref="language"/>
        <xsd:element ref="domainGroup"/>
        <xsd:element name="segment" maxOccurs="unbounded" minOccurs="0"
type="xsd:string"/>
    </xsd:choice>
</xsd:complexType>
</xsd:element>
```

user

```
<xsd:element name="user">
    <xsd:complexType mixed="true">
        <xsd:choice minOccurs="0" maxOccurs="unbounded">
            <xsd:element name="name" type="xsd:string"/>
            <xsd:element ref="principal"/>
        </xsd:choice>
    </xsd:complexType>
</xsd:element>
```

principal

```
<xsd:element name="principal">
    <xsd:complexType>
        <xsd:simpleContent>
            <xsd:extension base="xsd:string">
                <xsd:attribute name="binary" use="required" type="xsd:string"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>
</xsd:element>
```

host

```
<xsd:element name="host" type="xsd:string"/>
```

address

```
<xsd:element name="address" type="xsd:string"/>
```

application

```
<xsd:element name="application" type="xsd:string"/>
```

version

```
<xsd:element name="version" type="xsd:string"/>
```

language

```
<xsd:element name="language" type="xsd:string"/>
```

domainGroup

```
<xsd:element name="domainGroup" type="xsd:string"/>
```

query

```
<!--query-->
<xsd:element name="query">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="question" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

question

```
<xsd:element name="question">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="3">
      <xsd:element ref="original"/>
      <xsd:element ref="paraphrase"/>
      <xsd:element ref="spellchecked"/>
    </xsd:choice>
    <xsd:attribute name="transactionId" use="required" type="xsd:string"/>
    <xsd:attribute name="language" use="optional" type="xsd:string"/>
    <xsd:attribute name="type" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

original

```
<xsd:element name="original" type="xsd:string"/>
```

paraphrase

```
<xsd:element name="paraphrase" type="xsd:string"/>
```

spellchecked

```
<xsd:element name="spellchecked">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="correction"/>
      <xsd:element ref="original"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

correction

```
<xsd:element name="correction">
  <xsd:complexType mixed="true">
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="suggestion"/>
    </xsd:choice>
    <xsd:attribute name="word" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

suggestion

```
<xsd:element name="suggestion">
```

```
<xsd:complexType>
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="confidence" use="required" type="xsd:string"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
</xsd:element>
```

config

```
<!--config-->
<xsd:element name="config">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="param" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

facets

```
<!--facets-->
<xsd:element name="facets">
  <xsd:complexType>
    <xsd:choice>
      <xsd:element ref="result-facet" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="facet" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

result-facet

```
<xsd:element name="result-facet">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="id"/>
      <xsd:element ref="description"/>
      <xsd:element ref="data" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="count" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="result-facet" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="inEffect" use="optional" type="xsd:string"/>
    <xsd:attribute name="incomplete" use="optional" type="xsd:string"/>
    <xsd:attribute name="showlink" use="optional" type="xsd:string"/>
    <xsd:attribute name="tempSelect" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="id" type="xsd:string"/>
<xsd:element name="description" type="xsd:string"/>
<xsd:element name="data" type="xsd:string"/>
```

facet

```
<xsd:element name="facet">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="item" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="hidden" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

count

```
<xsd:element name="count">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="atLeast" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

primaryAnswer

```
<xsd:element name="primaryAnswer">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="answer" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

purpose

```
<xsd:element name="purpose">
  <xsd:complexType>
    <xsd:sequence minOccurs="0">
      <xsd:element ref="wizard" maxOccurs="unbounded" minOccurs="0"/>
      <xsd:element ref="answer" maxOccurs="unbounded" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="page_more" use="optional" type="xsd:string"/>
    <xsd:attribute name="page_number" use="optional" type="xsd:string"/>
    <xsd:attribute name="page_start" use="optional" type="xsd:string"/>
    <xsd:attribute name="page_size" use="optional" type="xsd:string"/>
    <xsd:attribute name="total_results" use="optional" type="xsd:string"/>
    <xsd:attribute name="unshown_results" use="optional" type="xsd:string"/>
    <xsd:attribute name="score" use="required" type="xsd:string"/>
    <xsd:attribute name="name" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```


answer

```

<xsd:element name="answer">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="link" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="sentence" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="title" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="section" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="highlighted_link" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="click_through_link" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="similar_response_link" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="summary" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="chart" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="chartTypes" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="unavailable_fields" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="changed_fields" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="sortCol" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="table" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="timestamp" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="facets" minOccurs="0" maxOccurs="1"/>
      <xsd:element ref="cca" minOccurs="0" maxOccurs="1"/>
      <xsd:element name="name" minOccurs="0" maxOccurs="1" />
      <xsd:element ref="element" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="text" minOccurs="0" maxOccurs="1"/>
    </xsd:choice>
    <xsd:attribute name="type" use="required" type="xsd:string" />
    <xsd:attribute name="answer_id" use="optional" type="xsd:string"/>
    <xsd:attribute name="score" use="optional" type="xsd:string"/>
    <xsd:attribute name="docType" use="optional" type="xsd:string"/>
    <xsd:attribute name="collectionId" use="optional" type="xsd:string"/>
    <xsd:attribute name="docId" use="optional" type="xsd:string"/>
    <xsd:attribute name="collectionName" use="optional" type="xsd:string"/>
    <xsd:attribute name="charset" use="optional" type="xsd:string"/>
    <xsd:attribute name="highlight_version" use="optional" type="xsd:string"/>
    <xsd:attribute name="language" use="optional" type="xsd:string"/>
    <xsd:attribute name="table_summary_rows" use="optional" type="xsd:string"/>
    <xsd:attribute name="similar_count" use="optional" type="xsd:string"/>
    <xsd:attribute name="rule" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="sortCol" type="xsd:string"/>

```

element

```
<xsd:element name="element">
  <xsd:complexType >
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="optional" type="xsd:string" />
        <xsd:attribute name="id" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

sentence

```
<xsd:element name="sentence">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="required" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

title

```
<xsd:element name="title">
  <xsd:complexType mixed="true">
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="snippet" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:attribute name="idx" use="optional" type="xsd:string"/>
    <xsd:attribute name="url" use="optional" type="xsd:string"/>
    <xsd:attribute name="type" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

link

```
<xsd:element name="link">
  <xsd:complexType mixed="true">
    <xsd:all minOccurs="0" maxOccurs="1">
      <xsd:element ref="protocol"/>
      <xsd:element ref="host"/>
      <xsd:element ref="port"/>
      <xsd:element ref="path"/>
      <xsd:element ref="file"/>
      <xsd:element ref="params"/>
      <xsd:element ref="anchor" minOccurs="0"/>
    </xsd:all>
    <xsd:attribute name="type" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="protocol" type="xsd:string"/>
<xsd:element name="port" type="xsd:string"/>
<xsd:element name="path" type="xsd:string"/>
<xsd:element name="file" type="xsd:string"/>
<xsd:element name="anchor" type="xsd:string"/>
```

summary

```
<xsd:element name="summary">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="title"/>
      <xsd:element ref="link"/>
      <xsd:element ref="highlighted_link"/>
      <xsd:element ref="click_through_link"/>
      <xsd:element ref="timestamp"/>
      <xsd:element ref="similar_response_link"/>
      <xsd:element ref="excerpt"/>
      <xsd:element ref="description"/>
      <xsd:element ref="paraphrase"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

excerpt

```
<xsd:element name="excerpt">
  <xsd:complexType mixed="true">
    <xsd:sequence>
      <xsd:element ref="snippet" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="type" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

snippet

```
<xsd:element name="snippet">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="name" use="optional" type="xsd:string"/>
        <xsd:attribute name="score" use="optional" type="xsd:string"/>
        <xsd:attribute name="lvl" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

```
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

chart

```
<xsd:element name="chart">
  <xsd:complexType mixed="true">
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="headers"/>
      <xsd:element ref="item"/>
    </xsd:choice>
    <xsd:attribute name="description" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

headers

```
<xsd:element name="headers">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element name="header" type="xsd:string"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

item

```
<xsd:element name="item">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="field"/>
      <xsd:element ref="description"/>
      <xsd:element ref="data"/>
    </xsd:choice>
    <xsd:attribute name="shape" use="optional" type="xsd:string"/>
    <xsd:attribute name="coords" use="optional" type="xsd:string"/>
    <xsd:attribute name="id" use="optional" type="xsd:string"/>
    <xsd:attribute name="selected" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

field

```
<xsd:element name="field">
  <xsd:complexType mixed="true">
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="option"/>
      <xsd:element ref="map"/>
    </xsd:choice>
    <xsd:attribute name="id" use="optional" type="xsd:string"/>
    <xsd:attribute name="type" use="optional" type="xsd:string"/>
    <xsd:attribute name="isSharedType" use="optional" type="xsd:string"/>
    <xsd:attribute name="description" use="optional" type="xsd:string"/>
    <xsd:attribute name="orig" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

option

```
<xsd:element name="option">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="value" use="optional" type="xsd:string"/>
        <xsd:attribute name="id" use="optional" type="xsd:string"/>
        <xsd:attribute name="selected" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

map

```
<xsd:element name="map">
  <xsd:complexType>
    <xsd:attribute name="field" use="optional" type="xsd:string"/>
    <xsd:attribute name="variable" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

transition

```
<xsd:element name="transition">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="condition"/>
    </xsd:choice>
    <xsd:attribute name="step" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

condition

```
<xsd:element name="condition">
  <xsd:complexType>
    <xsd:attribute name="field" use="optional" type="xsd:string"/>
    <xsd:attribute name="op" use="optional" type="xsd:string"/>
    <xsd:attribute name="value" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

chartTypes

```
<xsd:element name="chartTypes">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="chart"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

table

```
<xsd:element name="table">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="header"/>
      <xsd:element ref="row" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="total_possible_results" use="required" type="xsd:string"/>
    <xsd:attribute name="total_results" use="required" type="xsd:string"/>
    <xsd:attribute name="complete" use="required" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

header

```
<xsd:element name="header">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="field" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

row

```
<xsd:element name="row">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="field"/>
      <xsd:element ref="facets"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
```

unavailable_fields

```
<xsd:element name="unavailable_fields">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="field" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

changed_fields

```
<xsd:element name="changed_fields">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="old_field"/>
      <xsd:element ref="new_field"/>
    </xsd:choice>
  </xsd:complexType>
</xsd:element>
<xsd:element name="old_field" type="xsd:string"/>
<xsd:element name="new_field" type="xsd:string"/>
```

highlighted_link

```
<xsd:element name="highlighted_link">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

click_through_link

```
<xsd:element name="click_through_link">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

similar_response_link

```
<xsd:element name="similar_response_link">
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="xsd:string">
        <xsd:attribute name="type" use="optional" type="xsd:string"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

timestamp

```
<xsd:element name="timestamp">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="date"/>
      <xsd:element ref="month"/>
      <xsd:element ref="year"/>
      <xsd:element ref="hour"/>
      <xsd:element ref="minute"/>
      <xsd:element ref="second"/>
      <xsd:element ref="millisecond"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="year" type="xsd:string"/>
<xsd:element name="date" type="xsd:string"/>
<xsd:element name="month" type="xsd:string"/>
<xsd:element name="second" type="xsd:string"/>
<xsd:element name="minute" type="xsd:string"/>
<xsd:element name="hour" type="xsd:string"/>
<xsd:element name="millisecond" type="xsd:string"/>
```


section

```
<xsd:element name="section">
  <xsd:complexType>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="section"/>
      <xsd:element ref="title"/>
      <xsd:element ref="text"/>
      <xsd:element ref="field"/>
      <xsd:element ref="transition"/>
    </xsd:choice>
    <xsd:attribute name="type" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

text

```
<xsd:element name="text">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="snippet" minOccurs="1" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="idx" use="optional" type="xsd:string"/>
    <xsd:attribute name="url" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

wizard

```
<xsd:element name="wizard">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="step" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="id" use="optional" type="xsd:string"/>
    <xsd:attribute name="version" use="optional" type="xsd:string"/>
    <xsd:attribute name="label" use="optional" type="xsd:string"/>
    <xsd:attribute name="description" use="optional" type="xsd:string"/>
    <xsd:attribute name="first_step" use="optional" type="xsd:string"/>
    <xsd:attribute name="default_step" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

step

```
<xsd:element name="step">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="section" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="id" use="optional" type="xsd:string"/>
    <xsd:attribute name="label" use="optional" type="xsd:string"/>
    <xsd:attribute name="uuid" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

cca

```
<xsd:element name="cca">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="solution"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="solution" type="xsd:string"/>
```

find

```
<xsd:element name="find">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" ref="documentDetail"/>
    </xsd:sequence>
    <xsd:attribute name="count" type="xsd:integer"/>
    <xsd:attribute name="size" use="optional" type="xsd:integer"/>
    <xsd:attribute name="startIndex" use="optional" type="xsd:integer"/>
  </xsd:complexType>
</xsd:element>
```

documentDetail

```
<xsd:element name="documentDetail">
  <xsd:complexType mixed="true">
    <xsd:all maxOccurs="1">
      <xsd:element name="title" minOccurs="0" type="xsd:string"/>
      <xsd:element name="facet" minOccurs="0" type="xsd:string"/>
      <xsd:element name="excerpt" minOccurs="0" type="xsd:string"/>
      <xsd:element name="url" minOccurs="0" type="xsd:string"/>
      <xsd:element name="fmdt" minOccurs="0" type="xsd:string"/>
    </xsd:all>
    <xsd:attribute name="colId" use="optional" type="xsd:string"/>
    <xsd:attribute name="colName" use="optional" type="xsd:NCName"/>
    <xsd:attribute name="docId" use="optional" type="xsd:string"/>
    <xsd:attribute name="enc" use="optional" type="xsd:NCName"/>
    <xsd:attribute name="extId" type="xsd:NCName"/>
    <xsd:attribute name="guid" type="xsd:NMTOKEN"/>
    <xsd:attribute name="lang" use="optional" type="xsd:NCName"/>
    <xsd:attribute name="mdt" use="optional" type="xsd:long"/>
    <xsd:attribute name="status" type="xsd:NCName"/>
    <xsd:attribute name="uniqueId" use="optional" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
</xsd:schema>
```