

Oracle® Retail Brand Compliance Management Cloud Service Implementation Guide



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Preface

This Implementation Guide describes the Application Programming Interfaces (APIs) available for this Oracle Retail Brand Compliance Management Cloud Service release.

Audience

This Implementation Guide is intended for the users of the Oracle Retail Brand Compliance Management Cloud Service application integration and implementation staff, and other parties intending to integrate with Brand Compliance Management Cloud Service.

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Related Documents

For more information, see the following documents in the Oracle Retail Brand Compliance Management Cloud Service documentation set:

- *Oracle Retail Brand Compliance Management Cloud Service Administration Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Release Notes*
- *Oracle Retail Brand Compliance Management Cloud Service User Guide*

For information on the Oracle Retail Brand Compliance Management Cloud Service modules, see the following documents:

- *Oracle Retail Brand Compliance Management Cloud Service Product User Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Project User Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Reports User Guide*
- *Oracle Retail Brand Compliance Management Cloud Service Supplier User Guide*

Data Dictionary

For information on the content of the Oracle Retail Brand Compliance Management Cloud Service data records, see the associated Data Dictionary documents:

- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 8 - Product (Produce Specification)*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project*
- *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 10 - Reports*

These Data Dictionary documents are available through My Oracle Support:

Oracle Retail 19.x Data Models (Doc ID: 2619103.1)

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(Data Model documents can be obtained through My Oracle Support.)

Conventions

The following text conventions are used in this document:

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

1

Introduction

Oracle Retail Brand Compliance Management Cloud Service (Brand Compliance) is an application designed to meet all aspects of sourcing, developing, and protecting retailer brands. The application provides solutions for product development, compliance, quality, and traceability. It is designed specifically for retail, food service, and manufacturing businesses to develop and protect their brands, manage their suppliers, and ensure full end-to-end product lifecycle management.

Brand Compliance includes a number of exposed Application Programming Interfaces (APIs) that can be called by external systems. This document details all of the exposed APIs and the information required in order to access them.

An API is a way of exchanging data between computer systems. The owners of an external system can interact with Brand Compliance by developing the necessary functionality to trigger the web service submissions, and handle the returned messages from Brand Compliance.

In order to access Brand Compliance using its APIs, the portal owner must grant the external system access. This is achieved by creating an External Systems account in the Admin area and assigning the unique access credentials in the form of a login ID and password.

Contents of this Guide

This implementation guide addresses the following topics:

- [API Overview and Architecture](#): Overview of the Brand Compliance APIs and architecture used.
- [APIs Available in Brand Compliance](#): Summary of the APIs, including the release in which the API is available and the type of API.
- [RESTful APIs](#): Details of the available APIs that are based on the RESTful architecture.
- [SOAP APIs](#): Details of the available APIs that are based on the SOAP architecture.
- [Appendix: Secure Development Guide](#): Description of some best practices for web service use.
- [Appendix: Using the Data Privacy API](#): Additional detail on using the Data Privacy API, including examples.
- [Appendix: Using the Report Attachment API](#): Details on using the Report Attachment API.

Key Features of Brand Compliance Management Cloud Service

The application is composed of the following modules:

- Library enables the issue, receipt, and acceptance of policies, guidelines, and key working documents.
- Product supports the development of products and production specifications.
- Project supports the development of project briefs, plans, and workflow management.

- Supplier enables the identification, selection, and approval of suppliers.

2

API Overview and Architecture

The APIs exposed by Brand Compliance are implemented in one of two formats, SOAP web services or RESTful web services. In both cases, requests and responses are normally in an XML format.

The APIs are already built and available for clients to build services for their external applications to utilize. The external system makes a call to Brand Compliance using HTTPS. If the external system is validated (that is, it is enabled in the Admin area of Brand Compliance and the login user ID and password match), the call is accepted.

Calls will typically allow for the retrieval, creation, update, and in some cases deletion, of data through the API. Each call is logged in the Web Service Log in Brand Compliance, with the request and response messages being recorded as appropriate.

A call may contain a number of parameters or filters to determine the records to be returned or updated, or to identify where to create a new record, such as to filter Product Specification of a certain type, status and so on.

SOAP and RESTful APIs

The Brand Compliance APIs are web services in both SOAP and RESTful architectural styles. In general, the SOAP services are developed for specific requirements or are historical services. Unless there is a definite requirement for a SOAP implementation of a service, any new services or new versions of services are implemented using the RESTful architectural style.

Request and Response XML

In general, APIs exposed by Brand Compliance as web services use XML messages for both requests and responses. Exceptions to this are RESTful services where the use of an XML request is replaced by the use of URI parameters in a GET call. The APIs do not support other message formats, such as JSON.

The XML data schemas are written to allow for both forwards and backwards compatibility. All elements within the XML schemas are marked as optional. The element names are ordered so that new fields are added after existing elements and, within each sequence of elements, the last element is always an *any* element so that fields added in future versions are ignored by clients that are using an old version of the schema. For example:

```
<xs:complexType name="fpsMicroTestLocaleDataFullDTO">
  <xs:sequence>
    <xs:element form="qualified" minOccurs="0" name="description"
type="xs:string"/>
    <xs:element form="qualified" minOccurs="0" name="locale" type="xs:string"/>
    <xs:element form="qualified" minOccurs="0" name="id" type="xs:long"/>
    <xs:element form="qualified" minOccurs="0" name="createdOn" type="xs:string"/>
    <xs:element form="qualified" minOccurs="0" name="updatedOn" type="xs:string"/>
    <xs:any maxOccurs="unbounded" minOccurs="0" namespace="##other"
processContents="lax"/>
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>
</xs:complexType>
```

The element names in the XML Schemas are defined by the core system and do not change in specific implementations. If an implementation has additional fields that have been added to the system (the implementation is non-core), those fields may be exposed after the core fields (before the `xs:any` element) and will incur a maintenance overhead in later versions to cope with any additional core fields added after the custom fields.

Data types in the XML Schemas are the standard datatypes for XSDs, WSDLs, and WADLs. Values should be entered as described on the following web site:

<http://www.w3.org/TR/xmlschema-2/>

The following table lists the common data types used in the Brand Compliance schemas:

Data Types

Type	Example
<code>xs:string</code>	A normal string
<code>xs:string</code>	<code><![CDATA[A String with
 html data]]></code>
<code>xs:long</code>	9223372036854775807
<code>xs:int</code>	2147483647
<code>xs:short</code>	-32768
<code>xs:boolean</code>	true or false
<code>xs:boolean</code>	1 or 0
<code>xs:date</code>	2015-01-30
<code>xs:dateTime</code>	2015-01-30T23:59:59

Versioning

Due to the format of the XML schemas as described above, most revisions of the web services should be forwards and backwards compatible to allow clients of those web services to be upgraded and developed without binding the lifecycle of the client services to the upgrade cycle of Brand Compliance.

Where the necessary changes to a service cannot be made compatible with previous versions, a new endpoint will be created to expose the changed service. If possible, the previous version of the service will remain available at the original endpoint to enable existing and legacy clients to continue to work, but will be noted as deprecated in documentation to encourage developers of clients to the services to avoid using it.

Logging

All calls to APIs exposed as web services are logged within the application and can be viewed by logging into Brand Compliance as a Power User, navigating to Company > Admin > Notifications, and choosing the Web Service Log option. For each call, the name of the web service, date and time of the call, status (in progress/completed/

failed), duration of the call (not available for In Progress calls), and a list of error messages if the call failed are shown.

The request and response XMLs are attached to each web service log entry. If a request does not contain XML, no attachment is created.

Accessing the APIs

This section describes how to access the APIs.

Availability

If enabled within the portal, an API is accessible while the portal is online. The support for a portal's availability is subject to the client's service level agreement.

Updates to the APIs are applied as per changes and fixes to the application. Each release involves a scheduled period of downtime. Details of the change and impact are covered in the supporting Release Notes.



Note:

After a Brand Compliance upgrade release, it may be necessary to change the URLs that the external system uses to call the APIs.

Deployment Model

The APIs, made available by Brand Compliance, are all web services implemented using either a SOAP or RESTful architecture.

The web services are exposed over HTTPS and require HTTP Basic authentication in order to access the service requested.

Authentication

In order to authenticate with Brand Compliance when accessing an API deployed as a web service, a user name and password must be supplied for HTTP basic authentication. Within Brand Compliance, the External System record controls access to the web services.

To see the list of existing External System records, log in to Brand Compliance as a Power User, navigate to Company > Admin > Roles and Permissions, and select the External Systems option.

To create a new External System:

1. Select the Actions > New action to open up a tab for creating an External System.
2. Enter a Login ID (User Name) and Email Address, then select the Actions > Save & Exit option.
3. An Oracle Identity Cloud Service (IDCS) or Oracle Cloud Infrastructure Identity and Access Management (OCI IAM) profile will be automatically created and a notification email sent to the specified email address, containing instructions for setting the password.

The passwords used for External Systems are validated against the same criteria as the passwords for users of Brand Compliance. It is likely that a minimum length, mixed case, and digits will be required for the password, depending on the setup of the IDCS or OCI IAM tenant.

 **Note:**

From 18.2, IDCS or OCI IAM is used to authenticate access to the services. Calling a service using a web browser does not generate the necessary header for IDCS or OCI IAM authentication, thus resulting in a 401 or 407 authorization error. Instead, a web service tool should be used.

A web service tool such as PostMan, SoapUI, or a lower-level tool such as curl or wget must be used in order to be able to send the authentication header for each request while using Basic authentication.

To avoid sending the credentials on each request, the use of OAuth 2 / OpenID Connect is suggested; establish identity with IDCS or OCI IAM to get back an access bearer token and then supply that token on each request to the application's web services.

Authorization

At present, all APIs are available to all authenticated requesters.

Listing Available APIs

In all installations of Brand Compliance, a full list of the deployed web services can be found at /services.

For example, for a system where the application is deployed to URL `https://www.example.com/brandCompliance`, you can retrieve a list of all services from `https://www.example.com/brandCompliance/services`.

 **Note:**

In order to access the /services page, the user must first be logged in/ authenticated with the Brand Compliance portal.

When downloading the WSDL or WADL files, if prompted for further credentials, enter the Login ID and Password of the External System account.

To download the REST API WADL files:

1. Run the Windows *Command Prompt* app.
2. Enter the command `curl [url]/services/rest/[api]?_wadl=true -u[login] > [api].wadl`

Where [url] is the portal address; [api] is the name of the REST API; [login] is the login id of the External System account. For example:

```
curl https://<hostname>/services/rest/user?_wadl=true -uPROD_SYS > user.wadl
```

The file will be downloaded to your default directory. To download to a specific directory, provide the full path for the .wadl file. For example:

```
... -uPROD_SYS > c:\Users\JSmith\Downloads\APIs\18.2\user.wadl
```

3. Enter the password for the External System login id.

The file is saved to the specified location.

4. Import the WADL file into SoapUI.

 **Note:**

If using SoapUI and the HTTP 401 error is received, click the Auth tab on the request in SoapUI and add Basic authorization. Also check the *Authenticate pre-emptively* option, then resubmit the request.

To download the WSDL files for SOAP APIs:

1. Run the Windows *Command Prompt* app.
2. Enter the command `curl [url]/services/[api]?_wsdl -u[login] > [api].wsdl`

Where [url] is the portal address; [api] is the name of the REST API; [login] is the login id of the External System account. For example:

```
curl https://<hostname>/services/activityManagement?wsdl -uPROD_SYS > activityManagement.wsdl
```

The file will be downloaded to your default directory. To download to a specific directory, provide the full path for the .wsdl file. For example:

```
... -uPROD_SYS > c:\Users\JSmith\Downloads\APIs\18.2\activityManagement.wsdl
```

3. Enter the password for the External System login id.

The file is saved to the specified location.

 **Note:**

If using SoapUI and the HTTP 401 error is received, click the Auth tab on the request in SoapUI and add Basic authorization. Also check the *Authenticate pre-emptively* option, then resubmit the request.

REST API Path

A REST API Path system parameter allows for an alternative path to the REST APIs to be specified. This is of use where for example an alternative data center is being used, or where HTTP is being used instead of HTTPS.

By default, the path of the Base URL system parameter is used for the application and the APIs. The Rest API Path system parameter is only used if there is a need to override the base URL.

Change History

Change History Log

Updates made to Brand Compliance records through the APIs are shown in the record's Change History log with user shown as System. The Change History log data is not included in the XML payload.

Status Change History Log

For records that are subject to workflow, their Status Change History data is included in the XML payload, as follows:

- Each row in the record's Status Change History table is represented by a statusHistory element. It is populated accordingly when data is retrieved.
- When a new record is created, a row can be added to the Status Change History table by populating the contents of the statusHistory element.
- When updating a record, the only column of the Status Change History table that may be changed by populating the statusHistory element is the Comments column.
- It is not possible to remove rows from the Change History table.
- Status Changed By can be omitted if required, in which case within the application, the Status Change History table will display the system text value *System* in place of a user name. Or, Status Change By can be populated with a valid user (standard validation applies).
- The contents of the statusHistory element are as follows:

```
<statusHistory>
  <comments>
  <localeData>
    <locale>
    <statusFrom>
    <statusTo>
    <id>
  <id>
  <createdOn>
  <updatedOn>
  <statusChangedBy>
    <code>
    <disabled>
    <externalAuthenticationUser>
    <timeZone>
    <userType>
    <id>
```

createdOn and updatedOn are set by the application when the record is created or modified.

statusChangedBy can only be set when the record is created, and can either be:

- omitted, to denote the System was responsible, or,
- a simpleUserDTO structure, whereby the child tag of <id> or <code> is used to specify the relevant user.

comments can optionally be specified during creation or update. If not specified, the application will show a dash.

localeData can be specified during creation only.

Where values are submitted but not permitted to update the status change history, they will be ignored.

See the Product Record page in the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* data dictionary for details of the contents of the Change History tables.

 **Note:**

The above rules for making updates to the status change history currently apply to the Product Records REST API only. In time, it will also apply to other records that have workflow, such as Projects and their Activities, Audits and their Issues, Suppliers and their Sites, Scorecards, and Product Specifications.

However the, defaulting of *System* in place of a user name within the application does apply to all records with a Status Change History table.

Security Considerations

This section provides information on aspects of security you need to consider.

Password Management

Unlike interactive logins for users, the use of web services does not permit warnings to be included in the returned messages. Also, there is no guarantee that there is someone handling the call in order to interpret any warnings about password expiry. Therefore, Brand Compliance does not currently apply the password lifetime rules to External Systems.

 **Note:**

It is recommended that the passwords used for accessing APIs deployed as web services are changed regularly and that passwords are not reused or changed in such a way that the next value is predictable, such as, do not change from Password11 to Password12.

The passwords used to access the Brand Compliance APIs should be stored securely to prevent potential attackers from being able to masquerade as an authorized system.

Rich Text Data

In Brand Compliance, certain fields allow the display of HTML-formatted data. Such data is cleansed before display in Brand Compliance to ensure that any attempts at Cross-Site Scripting (XSS) attacks are mitigated, but this cleansing is not applied within the APIs. Therefore, it is advisable to cleanse any HTML-formatted data before it is displayed to users.

Excluded Fields

Many of the APIs published by Brand Compliance provide access to manage all of the records of a given type. With certain records, the fields accessible through the API are a subset of the fields within Brand Compliance. Any updates leave those fields unchanged.

Secured Connections

As all of the APIs are exposed as web services over HTTPS, it is necessary for callers to communicate over SSL/TLS using the ciphers that the Brand Compliance servers accept. To ensure optimal security, it is advised that standard certificate checks are in place and not disabled. In the case of Apache CXF, the Client TLS Parameter `disableCNCheck` should be left as `false`.

URL Encoding

Certain characters within URLs are reserved for a special meaning. In order to avoid calls that contain these characters being blocked by the API's security, the characters must be encoded and passed as plain text.

The reserved characters include ";", "/", "?", ":", "@", and "=", all of which could be present in the parameters passed to Brand Compliance APIs - such as within email addresses or within the names of users, products, or suppliers.

UTF-8 URL encoding should therefore be applied to all calls to the Brand Compliance APIs. The APIs will automatically decode the values on receipt.

For example, an un-encoded call of: `.../services/rest/user/byKey/john.smith@example.com`

should be encoded as: `.../services/rest/user/byKey/john.smith%40example.com`

The use of forward slash in parameters should be encoded as "%2f", for example an un-encoded call of: `.../services/rest/user/byKey/24/7 Support`

should be encoded as: `.../services/rest/user/byKey/24%2f7 Support`

If a call comprises multiple values, each must be encoded individually.

Reference Fields

This section describes how data is returned for fields that have their values derived by referencing a glossary or system text, such as the selections made from a configurable list of values.

Glossary and Locale/Language Fields

Fields that have their values selected from a glossary of configurable options generally have the code, description, and language translations of the selected value returned, along with the id reference to the glossary record.

The language translations are contained within a localeData element. Prior to release 18.0, a separate localeData element was returned for each language the portal had configured, now just the languages that the portal actually has active are returned. If a translation is not present for a language, the element is omitted, so if the portal has no alternative languages active, just a localeData element for the base language is returned.



Note:

Some APIs allow a locale parameter to be passed to optionally return a specific language, or languages. However, use of the parameter can have an impact on the call's response time, due to the additional selection processing.

Enumeration Fields

Certain reference fields have their options defined as system text rather than a configurable glossary. Referred to as enumerations, these are used where the selections are generally static, such as Yes/No options. Prior to release 18.0, just the code of an enumeration was returned, now the description of enumeration value is also returned as a description element.

Editable Text Selector Fields

Certain reference fields allow for a statement to be selected from a glossary and inline values entered after selection. Referred to as editable text selectors, these are used to build statements with variable content, but using a consistent format; for example, to describe cooking instructions in a common way without having to have an entry in the glossary for every permutation of time and temperature. Prior to release 18.0, just the separate statement and value elements were returned, now a packCopyText element containing the formed statement is also returned.

Key Features of the API Process

This section summarizes the key aspects of the API process:

- The external system makes a call to Brand Compliance using HTTPS. The external system must be registered in Brand Compliance, and the user ID and password must match.
- Calls to RESTful services use the GET, POST, PUT, and DELETE methods to retrieve, create, update, and delete records respectively. Calls to SOAP services use a predefined set of methods to perform the operations.
- Each call is logged in the Web Service Log in Brand Compliance. The request and response XML messages are attached to the logs.

- A predefined set of parameters is available to apply filters to the call, to retrieve a specific record or set of records.
- Data is returned as XML, as defined by the associated WADL or WSDL schema. Only elements that contain data are returned; empty elements are omitted.
- For RESTful APIs, an initial GET call to the service returns the unique internal key ID of the returned records in either the recordId or the id element. The record ID is then used in a subsequent call using a URI to retrieve the record's full XML data set, or to perform an update operation.

Update functions require the full set of fields and their values to be passed, as the full contents of the record are replaced. If all fields are not present in the external system, the update process would need to first retrieve the current contents of the record from Brand Compliance before applying the changes to that data set, and submitting the full data set as the update.

- There could be several initiators for the data exchange, including the following:
 - Human initiation, where an individual makes the request, such as by clicking a button to run the request.
 - End user action, where the completion of an activity in the external system triggers the exchange.
 - Scheduled request (or polling), where the external system sends or checks for data on a regular basis. For example, it may be looking for newly created Product Records or Specifications with a change in status.

For security purposes, the APIs rely on the external system polling, retrieving or submitting calls to the APIs. Brand Compliance does not push data externally.

- The nature of the APIs may require multiple requests to be made, for example:
 - Request a list of Product Records with their IDs.
 - Request the timestamp reference for each Product Record.
 - Identify any Product Records changed or created within a given time scale.
 - Request the full details for that Product Record.

These types of requests can be automated. The external system is altered to enable the operations to take place in sequence according to a pre-defined algorithm.

Certain modifications can also be made to the external system to enable the storage of data returned from Brand Compliance. For example, if the external system requests a record to be created in Brand Compliance, a confirmation response is sent, containing the record ID. This ID may then be stored in the external system for future reference.

 **Note:**

An External System must be specifically granted access to an API, either by the service or its endpoints. If none are specified, the External System will not have access to any of the APIs.

If a service is selected, it grants access to all of its endpoints, so there is no need to select the individual endpoints (if access is required to all of them); but selecting the service and all its endpoints would have the same effect.

Endpoints can be selected individually to grant granular access to specific endpoints of a service. In this case it appears that if the service is also selected, that overrides the endpoint selections, thus providing access to them all anyway. So if wanting to grant access to just specific endpoints, the way to do it is not to select the service, but just the individual endpoints.

3

APIs Available in Brand Compliance

The APIs deployed in a particular implementation of Brand Compliance can be found at / services: <https://<hostname>/<context>/services>.

Individual Services

The following table lists the individual services available in Brand Compliance, indicating at which version each was introduced and, where appropriate, at which version it was deprecated.

Brand Compliance API Services

Service Name and Functions	Description	Type	From Version	To Version
User Details				
userDetails	Manages single sign-on between the main Brand Compliance application and the Reports module. This is superseded by the SSO Restful Service.	SOAP	1.0	15.0
Product Service				
createProduct	Creates a new Product Record.	SOAP	1.8	TBC
updateProduct	Updates existing Product Records.	SOAP	1.8	TBC
submitProduct	Allows the update and creation of Product Records. If the record already exists, it is updated; otherwise, a new record is created.	SOAP	1.8	TBC
Retrieve Product Specifications				
getProductSpecificationV1	Retrieves a paged list of Product Specification records filtered according to the parameters defined in the request.	SOAP	1.8	TBC
Project Activities				
Activity Management	Allows updates to Project Activities from an external service. Used in Artwork integration. This service has been superseded by the Artwork Rest Service.	SOAP	1.8	1.10
UserRestService				
List of Values	Retrieves a list of retailer or supplier users in a paged list.	REST	1.9	NA
Retrieve Record by ID	Retrieves a single user's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	1.9	NA

Service Name and Functions	Description	Type	From Version	To Version
Retrieve Record by Business Key	Retrieves a single user's details. There are no request parameters, but the URL contains the login id parameter that determines the record to retrieve.	REST	1.9	NA
Check Record Modification Timestamp	Retrieves the last modification time for a user. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	1.9	NA
Create Record	Creates a new retailer or supplier user.	REST	1.9	NA
Update Record	Updates an existing retailer or supplier user.	REST	1.9	NA
SupplierRestService				
List of Values	Retrieves a list of suppliers in a paged list.	REST	1.9	NA
Retrieve Record by ID	Retrieves a single supplier's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	1.9	NA
Retrieve Record by Business Key	Retrieves a single supplier's details. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	1.9	NA
Check Record Modification Timestamp	Retrieves the last modification time for a supplier. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	1.9	NA
Create Record	Creates a new supplier.	REST	1.9	NA
Update Record	Updates an existing supplier .	REST	1.9	NA
SiteRestService				
List of Values	Retrieves a list of sites in a paged list.	REST	1.9	NA
Retrieve Record by ID	Retrieves a single site's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	1.9	NA
Retrieve Record by Business Key	Retrieves a single site's details. There are no request parameters, but the URL contains the supplier and site code parameters that determine the record to retrieve.	REST	1.9	NA
Check Record Modification Timestamp	Retrieves the last modification time for a site. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	1.9	NA
Create Record	Creates a new site.	REST	1.9	NA
Update Record	Updates an existing site.	REST	1.9	NA
ContactRestService				
List of Values	Retrieves a list of contacts in a paged list.	REST	15.0	NA

Service Name and Functions	Description	Type	From Version	To Version
Retrieve Record by ID	Retrieves a single contact's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	15.0	NA
Retrieve Supplier Contact Record by Business Key	Retrieves a single supplier contact's details. There are no request parameters, but the URL contains the supplier code, name, and email address parameters that determine the record to retrieve.	REST	15.0	NA
Retrieve Site Contact Record by Business Key	Retrieves a single site contact's details. There are no request parameters, but the URL contains the supplier and site codes, name, and email address parameters that determine the record to retrieve.	REST	15.0	NA
Check Record Modification Timestamp	Retrieves the last modification time for a contact. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	15.0	NA
Create Record	Creates a new contact.	REST	15.0	NA
Update Record	Updates an existing contact.	REST	15.0	NA
ProductRecordRestService				
List of Values	Retrieves a list of Product Records in a paged list.	REST	1.9	NA
Retrieve Record by ID	Retrieves a single Product Record's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	1.9	NA
Retrieve Record by Business Key	Retrieves a single Product Record's details. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	1.9	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Product Record. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	1.9	NA
Create Record	Creates a new Product Record.	REST	1.9	NA
Update Record	Updates an existing Product Record.	REST	1.9	NA
ProductSpecificationRestService				
List of Values	Retrieves a list of Product Specifications in a paged list.	REST	1.9	NA
Retrieve Record by ID	Retrieves a single Product Specification's details. There are no request parameters, but the URL contains the id parameter that determines the record to retrieve.	REST	1.9	NA

Service Name and Functions	Description	Type	From Version	To Version
Retrieve Record by Business Key	Retrieves a single Product Specification's details. There are no request parameters, but the URL contains the specification number and version parameters that determine the record to retrieve.	REST	1.9	NA
Retrieve List with Advanced Filtering	Retrieves a list of Product Specifications in a paged list using advanced filtering. Parameters are passed to filter the returned list by values such as specification status, specification type, country where sold, and so on.	REST	1.9	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Product Specification. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	1.9	NA
Create Record	Creates a new Product Specification.	REST	16.0	NA
Update Record	Updates an existing Product Specification.	REST	16.0	NA
BusinessCategoryService				
List of Values	Retrieves a list of Business Categories in a paged list.	REST	16.0	NA
Retrieve Record	Retrieves a single Business Category (a path of all levels). There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	16.0	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Business Category. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	16.0	NA
Create Record	Creates a new Business Category.	REST	16.0	NA
Update Record	Updates an existing Business Category.	REST	16.0	NA
Delete Record	Deletes an existing Business Category.	REST	16.0	NA
AuditRestService				
List of Values (Audit)	Retrieves a list of Audits or Visits in a paged list.	REST	16.0	NA
Retrieve Record by ID (Audit)	Retrieves a single Audit or Visit (and its Non Conformances/Issues). There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	16.0	NA
Retrieve Record by Business Key (Audit)	Retrieves a single Audit or Visit (and its Non Conformances/Issues). There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	16.0	NA

Service Name and Functions	Description	Type	From Version	To Version
Check Record Modification Timestamp (Audit)	Retrieves the last modification time for an Audit or Visit. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	16.0	NA
Create Record (Audit)	Creates a new Audit or Visit.	REST	16.0	NA
Update Record (Audit)	Updates an existing Audit or Visit.	REST	16.0	NA
List of Values (Checklist)	Retrieves a list of Checklists in a paged list.	REST	16.0	NA
Retrieve Record by ID (Checklist)	Retrieves a single Checklist. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	16.0	NA
Retrieve Record by Business Key (Checklist)	Retrieves a single Checklist. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	16.0	NA
Create Record (Checklist)	Creates a new Checklist.	REST	16.0	NA
Update Record (Checklist)	Updates an existing Checklist.	REST	16.0	NA
Delete Record (Checklist)	Deletes an existing Checklist.	REST	16.0	NA
TaskRestService				
List of Values	Retrieves a list of current tasks for the user in the given language.	REST	1.9	NA
UrgentItemsRestService				
Number of Urgent Items	Retrieves the number of urgent items pending for a given user.	REST	1.9	NA
ArtworkRestService				
Started Activities	Retrieves a list of Project Activities that are flagged as Artwork activities, and their status has changed to Started within the specified date range.	REST	1.10	NA
Update Record	Updates the sub-status of existing Artwork Project Activities.	REST	1.10	NA
SSO	Single sign-on integration between Brand Compliance and the external Artwork system.	REST	1.10	Removed in 18.2
DataPrivacyService				
Right to Access	Retrieves personal data from the system relating to the name of an individual.	REST	15.0	NA
Right to be Forgotten	Erases personal data from the system for an individual (subject to conditions).	REST	15.0	NA
AttachmentRestService				
Retrieve Report Attachment	Retrieves attachment files that have been generated by the system as report outputs.	REST	18.0	NA
Retrieve Attachment	Retrieves files that have been attached to records.	REST	18.1	NA
ScorecardRestService				
List of Values	Retrieves a list of Scorecards in a paged list.	REST	18.1	NA

Service Name and Functions	Description	Type	From Version	To Version
Retrieve Record by ID	Retrieves a single Scorecard. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA
Retrieve Record by Business Key	Retrieves a single Scorecard. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	18.1	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Scorecard. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA
ProjectRestService				
List of Values	Retrieves a list of Projects in a paged list.	REST	18.1	NA
Retrieve Record by ID	Retrieves a single Project. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA
Retrieve Record by Business Key	Retrieves a single Project. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	18.1	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Project. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA
ActivityRestService				
List of Values	Retrieves a list of Project Activities in a paged list.	REST	18.1	NA
Retrieve Record by ID	Retrieves a single Project Activity. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA
Retrieve Record by Business Key	Retrieves a single Project Activity. There are no request parameters, but the URL contains the key code parameter that determines the record to retrieve.	REST	18.1	NA
Check Record Modification Timestamp	Retrieves the last modification time for a Project Activity. There are no request parameters, but the URL contains the record id parameter that determines the record to retrieve.	REST	18.1	NA

History of Enhancements

Release Version	Enhancements
16.0	Business Categories REST API Audits & Visits REST API Specs REST API update & create Supplier REST API - Linked Suppliers? Updated to REST Spec Inbound API Additional Supplier Info added to Produce Product Record Sustainability added to Spec
17.0	Business Categories REST API Audits & Visits REST API Specs REST API update & create Supplier REST API - Linked Suppliers? Updated to REST Spec Inbound API Additional Supplier Info added to Produce Product Record Sustainability added to Spec
18.0	Additional filters on Specs REST API Attachments REST API for Reports Changes to Specs REST API for use as report data source Alternative Product Number & Division added to Spec Date Approved added to Spec Main Details section Fields added to Main Details Spec section XML Additional Supplier Info updated in Produce Product Record
18.1	Scorecards REST API Projects & Activities REST API Attachments REST API (Scorecards, Projects & Activities) Additional filters for Spec, Supplier & Site REST APIs Audit/Visit code added to Audits REST API Wildcard searching & error logging added to REST APIs Extended Nutrient Target fields added to Spec Combined Specs fields added to Spec
18.2	Artwork SSO API removed ORBC-IDCS APIs Password fields removed from Users API for IDCS or OCI IAM Advanced Packaging section added to Spec
18.3	Nutri-Score data added to Spec Dual Nutrition Panel data added to Spec

Services Grouped by Area

The following sections summarize the service features available by area of Brand Compliance functionality.

User and Supplier APIs

The following service features are applicable to the functionality available for user and supplier APIs:

Allows Supplier, Site, Contact, and User records to be created, updated, and extracted.

Does not allow deletion of records.

Does not import or export file attachments.

Does not include Scorecards, Audits & Visits, or Alerts.

A system log of service transactions is kept (not reportable).

Product APIs

The following service features are applicable to the functionality available for product APIs:

Allows Product Records to be created, updated, and extracted.

Barcodes transmitted by the data feed are stored on the Product Record and automatically transferred to the Product Specification when linked (using normal specification editor procedures).

A Product Record must be activated before it can be linked to a Product Specification.

Does not import file attachments.

Not intended for bulk upload of Product Records.

Does not include Pack Copy files or Surveillance test results.

If the full content of the Product Record is not included in the data feed, subsequent manual data entry may be required.

Does not apply to Produce Product Record types as they are created through a different process in Brand Compliance.

The SOAP version only applies to the single variant mode of operating the Product module, that is, does not handle multiple variants on the same Product Record.

A system log of service transactions is kept (not reportable).

Specification Outbound API

The following service features are applicable to the functionality available for the specification outbound API:

Transmit Product Specification data in XML form for Product Specifications that meet the filters used in the service call from the external system.

All specification types, including Produce and Counter Tickets, are supported.

Does not export file attachments.

Does not export Deleted Product Specifications.

A system log of service transactions is kept (not reportable).

Specification Inbound API

The following service features are applicable to the functionality available for the specification inbound API:

Allows Product Specification records to be created, updated, and extracted.

All specification types, including Produce and Counter Tickets, are supported.

Does not allow deletion of records.

Does not import or export file attachments.

Specifications can be created at any status; validation is applied when the user manually edits and progresses the specification through the Brand Compliance application UI.

A system log of service transactions is kept (not reportable).

Audits API

The following service features are applicable to the functionality available for the audits API:

Allows Audit and Visit records to be created, updated, and extracted.

Includes the associated Issues/Non Conformances and Checklists.

Does not allow deletion of records.

Does not import or export file attachments.

A system log of service transactions is kept (not reportable).

Artwork Project Activities

The following service features are applicable to the functionality available for the Artwork Project Activities API:

Enables external Artwork systems to update the sub-status of specific Project Activities that relate to Artwork. The external system is not enabled to complete the activity in Brand Compliance; this must be done manually.

Activity templates in the Project module of Brand Compliance have an option to integrate that activity with an Artwork system.

Project Activities in Brand Compliance, which have been set to integrate with Artwork and which have a status of Started, are available to the external system.

Pack Copy data is not sent using an API, it is automatically sent in email to the designer.

The start and end dates of the Activity are not sent to the Artwork system. The Artwork process is usually well defined and it is usual for a project to be set up in the Artwork system at this point, using the Artwork system's own templates and based on the date that the message is received.

The Artwork API is secured and initiated per other Brand Compliance APIs. The following table summarizes the features introduced by each Brand Compliance release:

Artwork Integration Features by Release

Release	Feature
1.0	Activity Management SOAP API available to send a message when an activity status is set to Started. Message can be returned to set the Activity's sub-status accordingly in Brand Compliance.
1.5/1.6	Single Sign-on (SSO) Phase I: <ul style="list-style-type: none"> The Artwork system's URI is stored in the Brand Compliance Admin Area. An Artwork option is added to the Brand Compliance Navigator bar. It is enabled if the user has the Artwork User authority profile. Users must be created manually in both systems. SSO is achieved using a SOAP call.
1.8	Single Sign-on (SSO) Phase II: <ul style="list-style-type: none"> Users are managed automatically between Brand Compliance and the Artwork system through a REST API to pass user and role information; so no need to create manually in both systems. It is not necessary to log into both applications. The user must first log in to Brand Compliance, and when the user clicks the Artwork link, a custom SSO takes places. This involves the exchange of a secure token, and a callback to Brand Compliance from the external system to retrieve the user's information.
1.10	The Activity Management SOAP API is deprecated. It is superseded by the equivalent Artwork Rest Service.
15.0	Security Improvements: <ul style="list-style-type: none"> Messages are no longer automatically sent out from Brand Compliance, but now rely on a call from the Artwork external system to check if an activity has started. Also relies on a call to Brand Compliance to check for new users.
18.2	Single sign-on SSO API is removed. Single sign-on between Brand Compliance and the Artwork module is achieved using IDCS. A separate IDCS tenant must be created for the Artwork system. See the <i>Oracle Retail Brand Compliance Management Cloud Service Administration Guide</i> for details of the use of IDCS in Brand Compliance. The Artwork solution must be upgraded to a version that can communicate with the IDCS tenant to continue to utilize Single Sign-on.

Data Privacy API

The following service features are applicable to the functionality available for the Data Privacy API:

Right to Access requests, to retrieve personal data relating to the name of an individual.

Right to be Forgotten requests, to erase personal data for an individual (subject to conditions).

Certain due diligence approval data is not permitted to be erased.

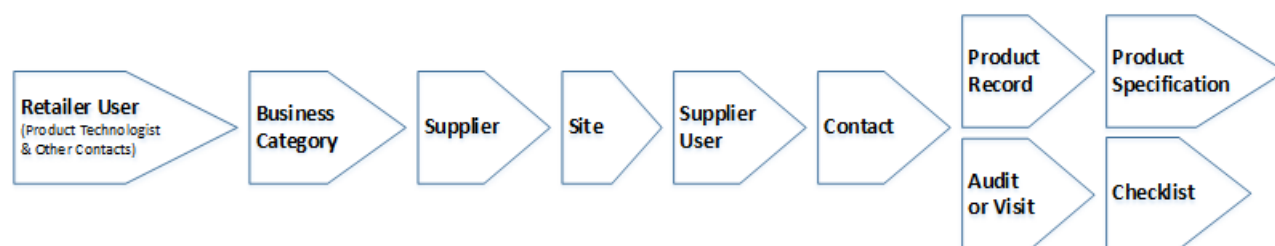
Data is erased by being overwritten with randomly-generated text.

The erasure of data is not recorded in Change History logs.

Dependencies

Following is the typical sequence of records to be created in order to create all of the above services:

Figure 3-1 Dependencies



The following table indicates the dependencies of each type of record that can be created using the APIs, that is, what configuration or other records must be in place for the creation to succeed:

Record Creation Dependencies

Record Type	Configuration	Other Record Types	Comments
User	Company (mandatory) Languages (mandatory) User Roles (mandatory) Authority Profiles Time Zones Users (Managers and Delegates) Areas	Supplier (if a supplier user)	When creating a user, it is associated to either the retailer or a supplier. If it is a supplier user, the ID of the Supplier record must be provided. The notification email sent to a new user is not generated when creating a user through the API.
Supplier	Billing Codes (mandatory) Business Units (mandatory) Supplier Types (mandatory) Countries Supplier Top Grades Currencies Invoicing Systems Supplier Statuses Areas	NA	When creating a Supplier, omit the Site and Supplier Contact elements, and omit the Billing Details ID. Create Sites, Contacts, AND Users after creating the Supplier. The initial user account is not automatically created when creating a supplier through the API.

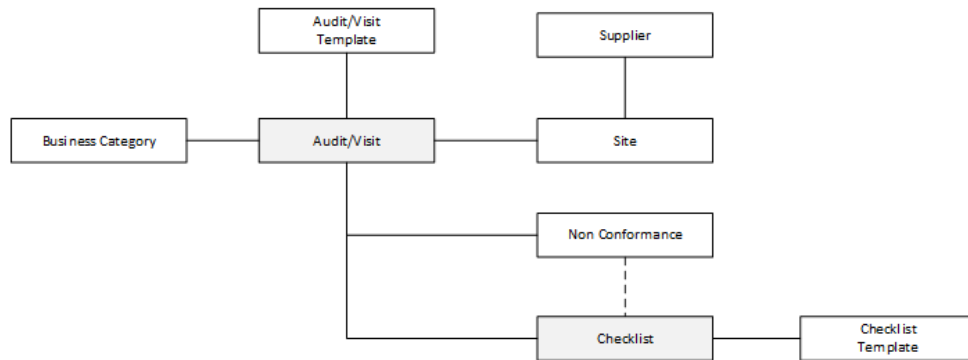
Record Type	Configuration	Other Record Types	Comments
Site	Product Technologists (mandatory) Business Categories (mandatory) Site Types (mandatory) Business Units Currencies Invoicing Systems Countries Audit Reasons Reference Types Reference Statuses Site Top Grades Site Statuses Risk Levels Other Production Details	Supplier User (Product Technologist)	<p>When creating a Site, the ID of the Supplier record must be provided. Omit the Scorecards and Audit elements, and omit the Billing Details ID and Reference ID.</p> <p>If assigning a Business Category, the ID of the Business Category record must be provided; if assigning a Product Technologist, the IDs of the User record must be provided.</p> <p>Create Contacts after creating the Site.</p>
Contact	Contact Roles (mandatory)	User Supplier Site (if a Site contact)	<p>When creating a Contact, the IDs of the associated User and Person records must be provided. The Person record holds an individual's personal contact details; the Contact record holds the individual's contact details in relation to that role (which may be different per role); the User record represents the individual's user account.</p> <p>A contact is associated to a supplier and/or a site; the IDs of the Supplier and Site records must be provided as appropriate. Omit the Site element if not a site-level contact.</p>
Product	RecordSpecification Types (mandatory) Product Record Statuses (mandatory) Product Technologist (mandatory) Other Contacts (mandatory) Test Disciplines Specification Formats Business Categories	Supplier (if Active) Site (if linked to a site) User	<p>A Product Record may be linked to a supplier/site; the IDs of the Supplier and Site records must be provided as appropriate. Omit the Discipline Detail, Product Covered, Barcode and Shipping Case Code IDs when creating.</p> <p>If assigning a Business Category, the ID of the Business Category record must be provided; if assigning a Product Technologist or Other Contact, the IDs of the User record must be provided.</p> <p>Product Technologist and Other Contacts are mandatory, however will be defaulted to TBC on creation if not provided, however, the dummy TBC User record must already exist.</p> <p>The status must be Active in order to be linked to a specification; for the status to be Active the Product Record must be linked to a supplier.</p>

Record Type	Configuration	Other Record Types	Comments
Product Specification	Specification Glossaries (some are mandatory)	Supplier (if linked to PR) Site (if linked to PR) Product Record (if linked to PR) Contact (if linked to PR) User (if linked to PR) Business Category (if linked to PR)	A Specification may be linked to a Product Record by providing the ID of a Product Record which it is at Active status. If linking to a Product Record, the Supplier, Site, and Product Record (and associated Users, Contacts and Business Categories) must be created first. Some links to Specification Glossaries are mandatory.
Business Category	Business Categories (parent levels) Specification Types	NA	When creating a Business Category, if the category is a lower-level category, the ID of its parent Business Category record must be provided.
Audit/Visit	Audit/Visit Template (mandatory) Audit/Visit Status (mandatory) Product Technologist (mandatory) People Present (mandatory) Supplier Contacts Business Categories Non Conformance: Assigned to Completed by Approved by	Supplier Site User	An Audit or Visit is linked to a supplier/site; the IDs of the Supplier and Site records must be provided. If assigning a Business Category, the ID of the Business Category record must be provided; if assigning a Product Technologist or People Present, the IDs of the User record must be provided. Non Conformances may include links to User records for the users who the issue is assigned to, was completed by, or is approved by. If the person is not a user of the application, a corresponding text field can be used to record the name. Also, see notes below.
Checklists	Audit/Visit (mandatory) Checklist Question (mandatory)	Audit/Visit Checklist Template	A Checklist is linked to an Audit/Visit, the IDs of the Audit or Visit record must be provided. The Checklist's questionnaire questions and available answers are derived from the Checklist Templates assigned to the Audit/Visit, the IDs of the Template records must be provided.

Notes on the Creation and Maintenance of Audits/Visits and Checklists

- The following diagram shows the main links between Audits/Visits, their Checklists, and other entities:

Figure 3-2 Links Between Audits/Visits and Other Entities

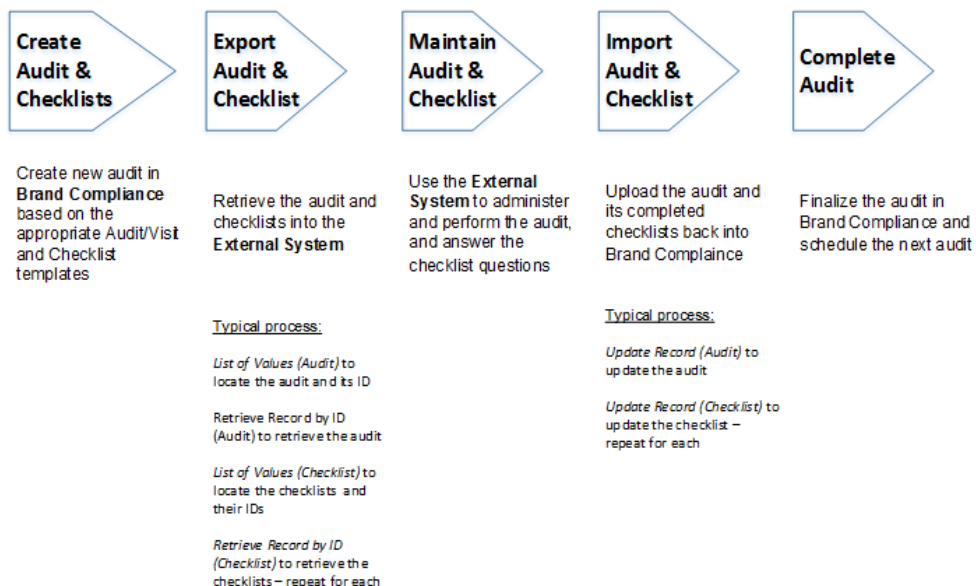


- For the creation of an Audit/Visit and its Checklists, in addition to providing the links to the associated Audit/Visit Template and Checklist Template records, certain values from the templates must also be included in the payload of the Audit/Visit Create and Update functions.
- It is recommended that the creation of Audits/Visits and Checklist be managed within the Brand Compliance application. Once created, records can be taken into the external system where the audit is performed, prior to importing back into Brand Compliance.

This approach ensures the necessary template fields will have been obtained with the initial Retrieve Record function.

The following diagram shows the stages of a typical scenario:

Figure 3-3 Stages of a Typical Scenario



- If it is necessary to create audits or visits from scratch in the external system, the recommended approach would be to create a set of *gold standard* audits/visits in Brand Compliance, which are assigned to a dummy supplier and site.

To create a new audit or visit, the process would be to retrieve the appropriate *gold standard* audit/visit through the GET function, amend the returned XML data to

reflect the audit/visit to be created, and then submit the creation of the new audit/visit (plus any non conformances and checklists) using the POST function.

- If a checklist audit is to be created using the Create Audit service, the Audit/Visit record must first be created using the Create Audit function, followed by the creation of each of its Checklist records.

Creating an audit through the API which is linked to a checklist template does not automatically create the checklists. They must be individually created using the Create Checklist function.

- An audit/visit's non conformances are included as separate elements within the audit/visit data. An audit/visit's non conformances are allocated when creating or updating the audit/visit.

 **Note:**

The API does not automatically create non conformances based on the answers of checklist questions.

Linking to Related Records

Links to associated records are included in the XML as an id element, which holds the record ID of the related record. In some cases, a code element also holds the related record's business key.

For example, the XML returned from the SiteRestService API will contain a supplier element, which itself contains an id element and a code element. The value in the id element can be used by the SupplierRestService Retrieve Record by ID function to retrieve the full details of the Supplier record. Alternatively, the value in the code element can be used by the SupplierRestService Retrieve Record by Business Key function to retrieve the Supplier record.

The id element is also used in the XML to hold the record ID of a value that is held in a glossary such as a recipe ingredient or a country.

The following table shows where an API provides links to other records, and the id or code elements used to locate those records. The list of notes below the table indicates the service to use to retrieve the related record.

Related Record Links

API	Links to Records
Supplier	Contact: contactDetail/id (Contact record ID link). See note 7. Contact (User): person/id (User record ID link). See note 1. Site: site/id (Site record ID link). See note 3. Site: site/code site (Site business key link). See note 4.

API	Links to Records
Site	<p>Supplier: supplier/id (Supplier record ID link). See note 5.</p> <p>Supplier: supplier/code (Supplier business key link). See note 6.</p> <p>Business Categories: businessCategories/id (Business Category record ID link). See note 10.</p> <p>Lead Business Category: leadBusinessCategory/id (Business Category record ID link). See note 10.</p> <p>Lead Product Technologist (User): leadTechnicalManager/id (User record ID link). See note 1.</p> <p>Lead Product Technologist (User):leadTechnicalManager/code (User business key link). See note 2.</p> <p>Other Technologists (User): otherTMs/id (User record ID link). See note 1.</p> <p>Other Technologists (User): otherTMs/code (User business key link). See note 2.</p> <p>Contact: siteContact/id (Contact record ID link). See note 7.</p>
Contact	<p>Contact (User): person/id (User record ID link). See note 1.</p> <p>Supplier: company/id (Supplier record ID link). See note 5.</p> <p>Supplier: Company/code (Supplier business key link). See note 6.</p> <p>Site: site/id (Site record ID link). See note 3.</p> <p>Site: Site/code (Site business key link). See note 4.</p>
User	<p>Supplier: supplier/id (Supplier record ID link). See note 5.</p> <p>Supplier: Supplier/code (Supplier business key link). See note 6.</p>
Audit/Visit	<p>Supplier: supplier/id (Supplier record ID link). See note 5.</p> <p>Supplier: supplier/code (Supplier business key link). See note 6.</p> <p>Site: site/id (Site record ID link). See note 3.</p> <p>Site: Site/code (Site business key link). See note 4.</p> <p>People Present (User): user/id (User record ID link). See note 1.</p> <p>People Present (User): user/code (User business key link). See note 2.</p> <p>Lead Product Technologist (User): leadTechnicalManager/id (User record ID link). See note 1.</p> <p>Lead Product Technologist (User): leadTechnicalManager/code (User business key link). See note 2.</p> <p>Business Categories: businessCategories/id (Business Category record ID link). See note 9.</p> <p>Lead Business Category: leadBusinessCategory/id (Business Category record ID link). See note 9.</p> <p>Non Conformance Assigned To (User): assignedTo/id (User record ID link). See note 1.</p> <p>Non Conformance Completed By (User): completedBy/id (User record ID link). See note 1.</p> <p>Non Conformance Approved By (User): approvedBy/id (User record ID link). See note 1.</p>
Checklist	<p>Audit/Visit: audit/id (Audit/Visit record ID link). See note 11.</p>
Product Record	<p>Supplier: supplier/id (Supplier record ID link). See note 5.</p> <p>Supplier: supplier/code (Supplier business key link). See note 6.</p> <p>Site: site/id (Site record ID link). See note 3.</p> <p>Site: site/code (Site business key link). See note 4.</p> <p>Business Categories: businessCategory/id (Business Category record ID link). See note 10.</p> <p>Technologist (User): technologist/id (User record ID link). See note 1.</p> <p>Technologist (User): technologist/code (User business key link). See note 2.</p> <p>Other Contacts (User): user/id record ID link). See note 1.</p> <p>Other Contacts (User): user/code (business key link). See note 2.</p>

API	Links to Records
Produce Product Record	As per Product Record, except Business Categories, which are derived from the Product Specification.
Product Specification	<p>Supplier: site/supplierId (Supplier record ID link). See note 5.</p> <p>Supplier: site/supplierCode (Supplier business key link). See note 6.</p> <p>Site: primarySites/site/id (Site record ID link). See note 3.</p> <p>Site: primarySites/site/code (Site business key link). See note 4.</p> <p>Product Record: productRecord/id (Product Record record ID link). See note 8.</p> <p>Product Record: productRecord/code (Product Record business key link). See note 9.</p> <p>Supplier Contact: contactDetails/id (Contact record ID link). See note 7.</p> <p>Supplier Contact (User): person/id (User record ID link). See note 1.</p> <p>For further details on locating a Specification's Product Record, see the Main Details page of the <i>Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)</i>.</p>

Notes:

1. User record ID link: UserRestService - Retrieve Record by ID
2. User business key link: UserRestService - Retrieve Record by Business Key
3. Site record ID link: SiteRestService - Retrieve Record by ID
4. Site business key link: SiteRestService - Retrieve Record by Business Key
5. Supplier record ID link: SupplierRestService - Retrieve Record by ID
6. Supplier business key link: SupplierRestService - Retrieve Record by Business Key
7. Contact record ID link: ContactRestService - Retrieve Record by ID
8. Product Record record ID link: ProductRestService - Retrieve Record by ID
9. Product Record business key link: ProductRestService - Retrieve Record by Business Key
10. Business Category record ID link: BusinessCategoryService - Retrieve Record
11. Audit/Visit Record ID link: AuditRestService - Retrieve Record by ID (Audit)

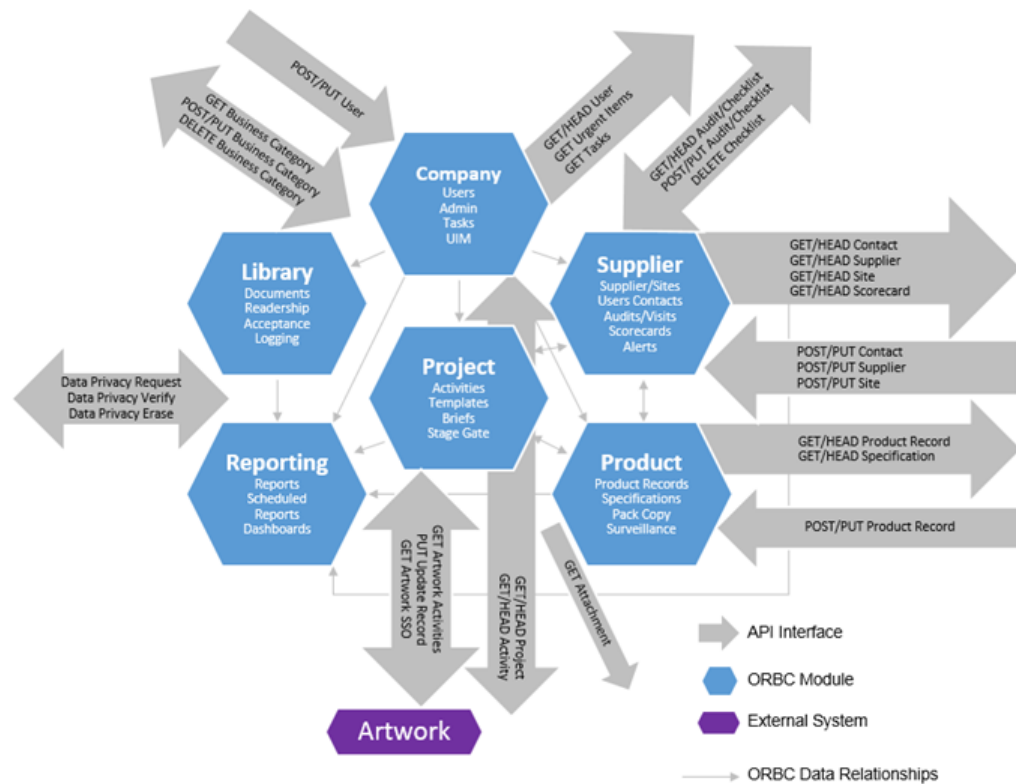
4

RESTful APIs

The following RESTful APIs are available:

- [UserRestService](#): Users
- [SupplierRestService](#): Suppliers
- [SiteRestService](#): Sites
- [ContactRestService](#): Supplier/Site Contacts
- [ProductRecordRestService](#): Product Records
- [ProductSpecificationRestService](#): Product Specifications
- [TaskRestService](#): Users' Tasks
- [UrgentItemsRestService](#): Users' Urgent Items
- [ArtworkRestService](#): Artwork Activities
- [BusinessCategoryService](#): Business Categories
- [AuditRestService](#): Audits and Visits
- [DataPrivacyService](#): Data Privacy Requests
- [AttachmentRestService](#): Attachment Files
- [ScorecardRestService](#): Scorecards
- [ProjectRestService](#): Projects
- [ActivityRestService](#): Project Activities

Figure 4-1 Overview of RESTful APIs



Note:

Only minimal business logic and validation is applied by the Brand Compliance REST APIs.

When creating or updating records, all values must be included. If a value or element is omitted from the XML, the field contents will be cleared when updating the record.

Generally, only the validation necessary to ensure the system's referential integrity is applied when updating records through the APIs. It is therefore possible to set the contents of some fields with values that are rejected when the user manually edits or validates the record through the UI. In some cases, it may be necessary to regress these records back to a prior status in order to edit and correct values that have been set incorrectly through the UI.

Parameters and Filtering

Various parameters can be included in calls to the APIs, generally to define what data is to be returned, but can also control how records are returned. The following table lists some commonly used parameters.

Common Parameters

Parameter	Type	Description
offset	int	Used with pageSize to control the paging of a returned list of records. Specifies the starting point for the retrieval of records. If not specified, zero is assumed. For example, to retrieve 150 records: <ol style="list-style-type: none"> 1. A call with offset = 0 and pageSize = 50 returns the first 50 records. 2. Then, a call with offset = 50 and pageSize = 50 returns the next 50. 3. Then, a call with offset = 100 and pageSize = 50 returns the final 50.
pageSize batchSize	int	Used with offset to control the paging of a returned list of records. Specifies the number of entries in each page of returned list of records. If not specified, 30 is assumed. The maximum is 100.
isActive	Boolean	Used to only return records that are flagged as being active (TRUE).
modifiedSince	string	Used to locate records that have been created or updated since a specific date/time.
modifiedUntil	string	Used to locate records that have been updated or created until a specific date/time.

When a list of records is returned, it may include a `previousPage` and `nextPage` element. These elements provide URI links to the previous or next pages of records respectively. A `totalRecords` element is included that shows the total number of records available for retrieval.

For example, using the List of Values function to retrieve a list of User records, where there are 150 records to be retrieved, with the `pageSize` parameter set to 50 returns the first 50 records within entity elements, along with a `nextPage` element containing a URI link to the next 50 records which can be used to retrieve the next 50 records. When the second page of 50 records are returned, the XML includes a `nextPage` URI link to the final 50 records, along with a `previousPage` URI link to the first 50. The following graphic illustrates this example.

Figure 4-2 Example of Retrieving a List of Users

```

<entries xsi:type="userLink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <recordId>100</recordId>
  <recordLink>http://example.com/services/rest/user/rest/user/100</recordLink>
  <loginId>John Smith</loginId>
  <name>John Smith</name>
</entries>
<previousPage>example.com/services/rest/user/?offset=0&pageSize=50</previousPage>
<nextPage>example.com/services/rest/user/?offset=100&pageSize=50</nextPage>
<totalRecords>150</totalRecords>

```



The totalRecords element shows the total number of retrievable records. The previousPage and nextPage elements are only present if there are previous and/or next pages to be retrieved.



Note:

Date/Time parameters must be provided in the YYYY-MM-DD hh:mm:ss format.

When retrieving records, the returned XML only includes elements that actually contain data; empty elements are omitted.

The details of the returned records are contained in an entities element, and repeated in an entryArray element. The entryArray element is a representation from the Java objects and can be ignored.

Where a date/time is passed in as a parameter to an endpoint, such as fromDate and toDate, validation checks for a valid date/time. If not valid, an HTTP 417 is returned, along with an XML error message detailing the exact issue with the date/time.

Error Messages

The Brand Compliance APIs use standard web services messaging protocols to notify the success or failure of a call to the service. Where an API handles a specific error condition, details of the returned message can be found in the following sections. The following table lists various generic error messages that may be returned by calls to any of the APIs.

Generic Error Messages

Element	Message	Meaning
userId	HTTP Status 401 - Bad credentials	User ID or password is invalid
Password	HTTP Status 401 - Bad credentials	User ID or password is invalid
Disabled	HTTP Status 401 - User is disabled	External System account is not enabled in Brand Compliance
offset	HTTP 417 IllegalStateException: Offset must be a positive integer	Invalid offset value - must be between zero and 2,147,483,647
offset	HTTP 404 Not Found	Not numeric or an integer
pageSize	HTTP 417 IllegalStateException: The Page Size must be between 1 and 100	Invalid page size value
	HTTP 404 Not Found	Record cannot be located due to an invalid key or ID
	HTTP 417 Expectation Failed	Record cannot be located due to an invalid ID
	HTTP Status 500 - Internal Server Error	Unspecified internal error occurred

Element	Message	Meaning
	HTTP Status 500 - Internal Server Error	Non-numeric value in numeric parameters
modifiedSince	HTTP 417 <errorMessage>	Not a valid date, whereby <errorMessage> will identify the issue For example: IllegalInstantException: Cannot parse "2018-03-25 01:00:00": Illegal instant due to time zone offset transition (Europe/London) In this example, due to the clocks moving forward (in the server's time-zone), the passed in date is invalid
modifiedUntil	HTTP 417 <errorMessage>	Not a valid date, whereby <errorMessage> will identify the issue (see example above)
	HTTP 400 Bad Request	Malformed XML, or general error in content of the XML

Wildcard Searches

The % character can be used as a wildcard filter when locating the records.

Using the % at the start of the string will search for matches where the given string ends with the text being searched for, for example, %smith could be used to search for all users with a surname of smith.

Using the % at the end of the string will look for matches where the given string begins with the text being searched for, for example, mark% could be used to search for all users with the name mark.

The following table shows which APIs and functions support the use of wildcards.

Wildcard Searches

API	Function
User	List of Values
Supplier	List of Values
Site	List of Values
Contact	List of Values Retrieve Supplier Contact Record by Business Key Retrieve Site Contact Record by Business Key
Product Report	List of Values
Product Specification	List of Values Retrieve List with Advanced Filtering
Business Category	List of Values
Task	List of Values
Urgent Items	Number of Urgent Items

Notes:

- Wildcard searches are not case sensitive so, for example, searching a name field for John Smith or john smith will return the same matches.
- When searching glossary parameters, be aware that they relate to the code (not the description) of the glossary entry.
- Wildcard searches can only be applied to parameters that are string type.

UserRestService

This section describes the API for managing retailer and supplier users. The following functions are available:

- [List of Values](#): retrieves a list of users
- [Retrieve Record by ID](#): retrieves a User record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a User record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a User record was last updated
- [Create Record](#): creates a new User record
- [Update Record](#): updates an existing User record

List of Values

Description

Retrieves a list of users in a paged list. Use this function to retrieve a simple list of user names and IDs, or to locate User record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/user **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
name	Optional	string	No	John Smith
jobTitle	Optional	string	No	Project Manager
language	Optional	string	No	en_GB
country	Optional	string	No	UK
userRoles	Optional	string	No	PROJECT ADMINISTRATOR

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
userType	Optional	string	Yes	RETAILER
authorityProfiles	Optional	string	No	PROJECT MANAGER
siteStatus	Optional	string	Yes	ACTIVE~INACTIVE
supplierActive	Optional	string	No	true (otherwise will return active and inactive suppliers)
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

.../services/rest/user/?offset=2&pageSize=20 .../services/rest/user/?siteStatus=Active .../
services/rest/user/?name=Frank%

Response Details

For a successful response, XML is returned with a UserLinkList root element containing an entries element for each matched user. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	User record's internal ID
recordLink	string	URI to the UserRestService Retrieve record service for this user
loginId	string	Login ID / business key to the User record
name	string	User's name

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

Retrieve Record by ID

Description

Retrieves a single User record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual user.

Endpoint address: /services/rest/user/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/user/105

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a userFullDTO root element containing the individual attributes of the requested User record. If an ID is not specified, a list of all users is returned (per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the User to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single User record's details using its business key (login ID). Use this function to retrieve the full details of an individual user using its Brand Compliance login ID.

Endpoint address: /services/rest/byKey/{loginId} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {loginId} parameter that determines the record to retrieve.

Example URL

.../services/rest/user/byKey/Frank Jones

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a userFullIDTO root element containing the individual attributes of the requested User record.



Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a userFullIDTO root element containing the individual attributes of the requested User record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
loginId	HTTP 404 Not found	Invalid {loginId} - blank or not found
loginId	HTTP 404 Not found	Invalid {loginId} - not found

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a User record. Use this function to determine when a user's details were last updated.

Endpoint address: /services/rest/user/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/user/105

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested User record. For example:

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not found	Invalid {id} - not numeric

Create Record

Description

Creates a new User record. Use this function to create a new user in Brand Compliance based on data sourced from the external system.

Dependencies: If creating a supplier user, the Supplier must be present in the application and its record ID obtained. For more information, see [Dependencies](#).

Endpoint address: /services/rest/user **HTTP method:** POST

Request Details

The body of the request contains a UserFullIDTO to specify the details of the user to create. Compared to retrieving a user (which uses the same UserFullIDTO type), this request is much shorter. Only the attributes that are to be populated on the created User record need to be included. As a minimum, this must include the fields shown in the following table:

Supplier User Mandatory Fields

Field Name	Element Name
Name	person / name
Email	person / email
Login Id	code
User Role	role / code
Supplier Code	person / supplier / code supplier / code
User Type	userType (Fixed value SUPPLIER)
Deleted Record	deleted (Set to false)
Login Id Disabled	disabled (Set to false)

Field Name	Element Name
Login Permitted	loginPermitted (Set to true)
Language	language / code

Example Request XML

This example shows the minimum requirement to be able to create a supplier user.

```
<ns0:userFullDTO xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/
simple" xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">
  <ns0:code>jphillips</ns0:code>
  <ns0:person>
    <ns0:email>jphillips@supplier.co.uk</ns0:email>
    <ns0:name>Jane Phillips</ns0:name>
    <ns0:supplier>
      <ns1:code>A0174</ns1:code>
    </ns0:supplier>
  </ns0:person>
  <ns0:role>
    <ns1:code>SUPPLIER ADMINISTRATOR</ns1:code>
  </ns0:role>
  <ns0:supplier>
    <ns1:code>A0174</ns1:code>
  </ns0:supplier>
  <ns0:userType>SUPPLIER</ns0:userType>
  <ns0:deleted>>false</ns0:deleted>
  <ns0:disabled>>false</ns0:disabled>
  <ns0:loginPermitted>>true</ns0:loginPermitted>
</ns0:userFullDTO>
```



Note:

When creating a supplier user, the user type must be set to SUPPLIER. The supplier code must be set to match the required supplier from Brand Compliance.

Site User Mandatory Fields

Field Name	Element Name
Name	person / name
Email	person / email
Login Id	code
User Role	role / code
Supplier Code	person / supplier / code supplier / code
Sites	sites / code sites/ supplierCode
User Type	userType (Fixed value SITE)
Deleted Record	deleted (Set to false)

Field Name	Element Name
Login Id Disabled	disabled (Set to false)
Login Permitted	loginPermitted (Set to true)
Language	language / code

Example Request XML

This example shows the minimum requirement to be able to create a site user.

```
<ns0:userFullDTO xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/
simple" xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">
  <ns0:code>jphillips</ns0:code>
  <ns0:person>
    <ns0:email>sphillips@supplier.co.uk</ns0:email>
    <ns0:name>Sean Phillips</ns0:name>
    <ns0:supplier>
      <ns1:code>WS0001</ns1:code>
      <ns1:id>22</ns1:id>
    </ns0:supplier>
  </ns0:person>
  <ns0:role>
    <ns1:code>SUPPLIER ADMINISTRATOR</ns1:code>
  </ns0:role>
  <ns0:sites>
    <ns1:code>WS0001-0001</ns1:code>
    <ns1:id>26</ns1:id>
    <ns1:supplierCode>WS0001</ns1:supplierCode>
    <ns1:id>22</ns1:id>
  </ns0:sites>
  <ns0:supplier>
    <ns1:code>WS0001</ns1:code>
    <ns1:id>22</ns1:id>
  </ns0:supplier>
  <ns0:userType>SITE</ns0:userType>
  <ns0:deleted>>false</ns0:deleted>
  <ns0:disabled>>false</ns0:disabled>
  <ns0:loginPermitted>>true</ns0:loginPermitted>
</ns0:userFullDTO>
```

Note:

When creating a site user the user type must be set to SITE. The supplier code must be set to match the required supplier from Brand Compliance. The site codes must be set to match the required site from Brand Compliance.

Retailer User Mandatory Fields

Field Name	Element Name
Name	person / name
Email	person / email

Field Name	Element Name
Login Id	code
User Role	role / code
Supplier Code	person / supplier / code supplier / code (Fixed value RETAILER)
User Type	userType (Fixed value RETAILER)
Deleted Record	deleted (Set to false)
Login Id Disabled	disabled (Set to false)
Login Permitted	loginPermitted (Set to true)
Language	language / code

Example Request XML

This example shows the minimum requirement to be able to create a retailer/portal owner user.

```
<ns0:userFullDTO xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/
simple" xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">
  <ns0:code>james howard</ns0:code>
  <ns0:person>
    <ns0:email>james.howard@oracle.com</ns0:email>
    <ns0:name>James Howard</ns0:name>
    <ns0:supplier>
      <ns1:code>RETAILER</ns1:code>
    </ns0:supplier>
  </ns0:person>
  <ns0:role>
    <ns1:code>POWER USER</ns1:code>
  </ns0:role>
  <ns0:supplier>
    <ns1:code>RETAILER</ns1:code>
  </ns0:supplier>
  <ns0:userType>RETAILER</ns0:userType>
  <ns0:deleted>>false</ns0:deleted>
  <ns0:disabled>>false</ns0:disabled>
  <ns0:loginPermitted>>true</ns0:loginPermitted>
</ns0:userFullDTO>
```

Note:

When creating a retailer/portal owner user, the user type must be set to RETAILER. The supplier code must be set to RETAILER.

Enabling User Accounts

Where the record is linked to another record, such as the Role in these cases, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

Set `loginPermitted` to true to ensure a corresponding IDCS or OCI IAM profile is automatically created for the user. If an IDCS or OCI IAM profile is not required, setting the `loginPermitted` attribute to false will skip the IDCS or OCI IAM profile creation.

Set the `deleted` attribute to false to ensure the record can be seen in the UI. If omitted, or set to true, it will exist, but will not be visible.

Where the record is linked to another record, such as the Role in these cases, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

When a new record is created in Brand Compliance, a corresponding IDCS or OCI IAM profile is automatically created to manage login authentication. If an IDCS or OCI IAM profile is not required, setting the `loginPermitted` attribute to false will skip the IDCS or OCI IAM profile creation.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

For a successful response, an HTTP 200 response is sent with a body containing a `UserLink` root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
<code>recordId</code>	long	Newly created User record's internal ID
<code>recordLink</code>	string	URI to the newly created User record, for use in a GET request
<code>loginId</code>	string	Login ID / business key to the newly created User record
<code>name</code>	string	User's name

Error Responses

If the supplied data does not result in a valid User (such as a missing mandatory field), an HTTP 417 response is sent with an `ErrorMessage/Message` XML body message stating the validation errors. The request should not be reattempted with the same content.

Element	Message	Meaning
<code>code</code>	ERROR: class com.micros.creations.core.domain.User. code - The condition is invalid	Code not provided
<code>email</code>	ERROR: class com.micros.creations.core.domain.User. person.email - The condition is invalid	Email not provided
<code>name</code>	ERROR: class com.micros.creations.core.domain.User. person.name - The condition is invalid	Name not provided

Element	Message	Meaning
role	ERROR: class com.micros.creations.core.domain.User.role - A user must have an active authority profile from either roles or additional authority profiles	Role or authority profiles not provided

Update Record

Description

Updates an existing User record. Use this function to update a user's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/{id} **HTTP method:** PUT

Request Details

The body of the request contains a UserFullDTO to specify the updates to the User record. Compared to retrieving a user (which uses the same UserFullDTO type), this request is much shorter. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is similar to that for creating a user. After the call, the User record is updated to match the request.

Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the User record.

Any values passed for Login Id or Email Address are ignored, as they cannot be updated once the record has been created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Process for Disabling User Accounts

A user's account can be disabled using the Update Record function as follows:

1. Call the Retrieve Record by Business Key GET function or the Retrieve Record by Id function, passing the login id or the record id respectively, to retrieve the full XML for the user.
2. Amend the returned XML as follows:

Set the account to disabled with `<ns0:disabled>>true<ns0:disabled>` and `<ns0:loginPermitted>>false<ns0:loginPermitted>`

Remove the localeData and activeAuthorityProfiles elements.

3. Call the Update Record PUT function, passing the full amended XML to disable the account.

Response Details

If successful, an HTTP 200 response is sent with a body containing a UserLink element. The UserLink element consists of the returned elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	User record's internal ID
recordLink	string	URI to the User record, for use in a GET request
loginId	string	Login ID/business key to the User record
name	string	User's name

Error Responses

If the supplied data does not result in a valid user (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

SupplierRestService

This section describes the API for managing suppliers. The following functions are available:

- [List of Values](#): retrieves a list of suppliers
- [Retrieve Record by ID](#): retrieves a Supplier record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Supplier record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Supplier record was last updated
- [Create Record](#): creates a new Supplier record
- [Update Record](#): updates an existing Supplier record

List of Values

Description

Retrieves a list of suppliers in a paged list. Use this function to retrieve a simple list of supplier names and IDs, or to locate Supplier record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/supplier **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
supplierStatus	Optional	string	Yes	AWAITING REGISTRATION
supplierCode	Optional	string	Yes	A0001
supplierName	Optional	string	Yes	West Road Site
supplierType	Optional	string	Yes	AGENT
country	Optional	string	Yes	UK
leadBusinessUnit	Optional	string	Yes	UK
isActive	Optional	string	No	true (otherwise will return active and inactive suppliers)
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39
invoicingRef	Optional	string	No	ABC123

Example URLs

.../services/rest/supplier/?offset=2&pageSize=20 .../services/rest/supplier/?
supplierStatus=AWAITING REGISTRATION .../services/rest/supplier/?supplierName=API%

Response Details

For a successful response, XML is returned with a SupplierLinkList root element containing an entries element for each matched supplier. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Supplier record's internal ID
recordLink	string	URI to the SupplierRestService Retrieve record service for this supplier
code	string	Supplier code business key to the Supplier record
name	string	Supplier's name
localName	string	Supplier's name in business language (if used)

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

Element	Message	Meaning
supplierStatus	HTTP 417 IllegalStateException: The Supplier Status <###> does not exist	Invalid supplier status
supplierStatus	HTTP 417 IllegalStateException: The Supplier Statuses <###~###~###> do not exist	Invalid supplier status
supplierType	HTTP 417 IllegalStateException: The Supplier Type <###> does not exist	Invalid supplier type
supplierType	HTTP 417 IllegalStateException: The Supplier Types <###~###> do not exist	Invalid supplier type
country	HTTP 417 IllegalStateException: The Country <###> does not exist	Invalid country
country	HTTP 417 IllegalStateException: The Countries <###~###> do not exist	Invalid country
leadBusinessUnit	HTTP 417 IllegalStateException: The Business Unit <###> does not exist	Invalid business unit
leadBusinessUnit	HTTP 417 IllegalStateException: The Business Units <###~###> do not exist	Invalid business unit
pageSize	Error Code: INVALIDRESTSERVICEPAGESIZE	Page Size must be between 1 and 100
offset	Error Code: INVALIDOFFSET	Offset must be a positive integer
supplierStatus	Error Code: INVALIDSUPPLIERSTATUS	Invalid Supplier Status
supplierType	Error Code: INVALIDSUPPLIERTYPE	Invalid Supplier Type
country	Error Code: INVALIDCOUNTRY	Invalid Country
leadBusinessUnit	Error Code: INVALIDBUSINESSUNIT	Invalid Business Unit
isActive	Error Code: INVALIDBOOLEAN	Invalid isActive value Permitted values (not case-sensitive) are: true; yes; 1; false; no; 0

Retrieve Record by ID

Description

Retrieves a single Supplier record's details using the record's internal ID (which is not visible in the UI). Use this function to retrieve the full details of an individual supplier.

Endpoint address: /services/rest/supplier/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/supplier/9

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a `supplierFullIDTO` root element containing the individual attributes of the requested Supplier record. If an ID is not specified, a list of all suppliers is returned (per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Supplier to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Supplier record's details using its business key (supplier code). Use this function to retrieve the full details of an individual supplier using the Brand Compliance supplier code.

Endpoint address: /services/rest/supplier/byKey/{code} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {code} parameter that determines the record to retrieve.

Example URL

.../services/rest/supplier/byKey/A0901

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a supplierFullIDTO root element containing the individual attributes of the requested Supplier record.

**Note:**

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a supplierFullIDTO root element containing the individual attributes of the requested Supplier record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
code	HTTP 404 Not Found	Invalid {code} - blank
code	HTTP 404 Not Found	Invalid {code}

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Supplier record. Use this function to determine when a supplier's details were last updated.

Endpoint address: /services/rest/supplier/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/supplier/9

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Supplier record.

```

HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0

```

Error Responses

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 Expectation Failed	Invalid {id} - not found

Create Record

Description

Creates a new Supplier record. Use this function to create new suppliers in Brand Compliance based on data sourced from the external system.

Dependencies: Create sites and contacts after creating the supplier. For more information, see [Dependencies](#).

Endpoint address: /services/rest/supplier **HTTP method:** POST

Request Details

The body of the request contains a SupplierFullDTO to specify the detail of the supplier to create. Compared to retrieving a supplier (which uses the same SupplierFullDTO type), this request is much shorter. Only the attributes that are to be populated on the created Supplier record need to be included. As a minimum, this must include the fields shown in the following table.

Supplier Mandatory Fields

Field Name	Element Name
Supplier Name	name
Contact Name	supplierContactName
Email	email
Supplier Type	supplierType/code
Lead Business Unit	businessUnit/code
Billing Code	billingCode/code
Status	Status
Supplier Code Confirmed Flag	supplierCodeConfirmed
Deleted Record	deleted (Set to false)
Created On	createdOn (set to current date using format YYYY-MM-DD or to current date and time using format YYYY-MM-DDThh:mm:ss)
Is Active	isActive - see below
Potential Supplier	potentialSupplier (Set to false)

Example Request XML

This example shows the minimum requirement to be able to create a supplier.

```

<ns0:supplierFullDTO
  xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple"
  xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">

  <ns0:billingCode>
    <ns1:code>SMALL</ns1:code>
  </ns0:billingCode>
  <ns0:businessUnit>
    <ns1:code>UK</ns1:code>
  </ns0:businessUnit>
  <ns0:email>supplier.contactemail@supplier.co.uk</ns0:email>
  <ns0:name>Name of Supplier</ns0:name>
  <ns0:status>AWAITING REGISTRATION</ns0:status>
  <ns0:supplierContactName>Supplier Contact Name</ns0:supplierContactName>
  <ns0:supplierCodeConfirmed>false</ns0:supplierCodeConfirmed>
  <ns0:supplierType>
    <ns1:code>SUPPLIER_TYPE</ns1:code>
  </ns0:supplierType>
  <ns0:deleted>false</ns0:deleted>
  <ns0:createdOn>2020-09-29T09:00:00</ns0:CreatedOn>
  <ns0:isActive>false</ns0:isActive>
  <ns0:potentialSupplier>false</ns0:potentialSupplier>

</ns0:supplierFullDTO>

```

Set the `deleted` attribute to false to ensure the record can be seen in the UI. If omitted or set to true, it will exist, but will not be visible.

The Supplier API only creates the Supplier record, just as the Site API only creates the Site record. The same goes for the User API; it only creates the User record, and similarly the Contact API only creates the Contacts records. Each Supplier record must also have at least one Site record created for it.

Supplier Contacts and their User records must be created using the respective APIs, and linked to the supplier/site with their record IDs. When a new Supplier is created through the API, the process does not automatically create the initial Supplier user.

Use of the `isActive` and `supplierCodeConfirmed` Flags

The `isActive` and `supplierCodeConfirmed` flags on the Supplier record are used to control the Registration process within the application UI.

isActive is a Boolean TRUE/FALSE value. It is always FALSE when a Supplier is created in the application UI. If set to FALSE in the API, when the supplier user first logs in to the system, the Supplier Registration wizard runs (as it does if the Supplier has been created through the application UI). Successful completion of the Registration wizard sets the `isActive` flag to TRUE, thus ensuring it only runs once. Therefore, if set to TRUE in the API, when the Supplier user first logs in to the system, the Registration wizard will not run.

supplierCodeConfirmed is a Boolean TRUE/FALSE value. It is always FALSE when a Supplier is created through the application UI. It is a security measure for the supplier user logging in for the first time, where they are prompted to enter their Supplier Code. The application changes the value to TRUE if there is a successful match.

Setting both `isActive` and `supplierCodeConfirmed` as `FALSE` will trigger the Registration wizard process when the supplier user first logs in, prompting for the entry of the Supplier Code.

Setting both `isActive` and `supplierCodeConfirmed` as `TRUE` indicates that the information captured during the Registration wizard process has effectively been provided, and therefore the wizard will not run.

Setting `isActive` as `FALSE` and `supplierCodeConfirmed` as `TRUE` indicates that part of the information captured during the Registration wizard process is present, but the wizard will run to allow the user to complete the data entry.

If a Supplier is created with a status of `AWAITING AUTHORISATION`, but with `isActive` set as `TRUE`, the Supplier status is changed to `REGISTERED`, thus bypassing the Registration process.



Note:

When a new supplier is created manually within the application, the system sends an email to the supplier requesting they complete the registration process. When creating a new supplier through the API, the email is not generated.

Where the record is linked to another record, such as the Supplier Type in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a `SupplierLink` root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
<code>recordId</code>	long	Newly created Supplier record's internal ID
<code>recordLink</code>	string	URI to the newly created Supplier record, for use in a GET request
<code>code</code>	string	Supplier code business key to the newly created Supplier record
<code>name</code>	string	Supplier's name
<code>localName</code>	string	Supplier's name in business language (if used)

Error Messages

If the supplied data does not result in a valid Supplier (such as a missing mandatory field), an HTTP 417 response is sent with an `ErrorMessage/Message` XML body message stating the validation errors. The request should not be reattempted with the same content.

Element	Message	Meaning
billingCode	ERROR: class <<hostname>>.Supplier.billingCode - The condition is invalid	No tag provided
billingCode	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.BillingCode using code:null	No <ns1:code> tag
billingCode	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>..BillingCode using code:<###>	Invalid <ns1:code>
businessUnit	ERROR: class <<hostname>>..Supplier.businessUnit - The condition is invalid	No tag provided
businessUnit	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>..domain.BusinessUnit using code:null	No <ns1:code> tag
businessUnit	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>..BusinessUnit using code:<###>	Invalid <ns1:code>
code	ERROR: class com.micros.creations.core.domain.Supplier.code - ??Another object exists with this value??	Supplier code already exists
email	ERROR: class com.micros.creations.core.domain.Supplier.email - The condition is invalid	No tag provided
email	ERROR: class <<hostname>>.Supplier.email - The attribute is invalid	Malformed email address
supplierContactName	ERROR: class <<hostname>>.Supplier.supplierContactName - The condition is invalid	No tag provided
supplierContactName	ERROR: class <<hostname>>.Supplier.supplierContactName - The condition is invalid	No value provided
name (supplier name)	ERROR: class <<hostname>>.Supplier.name - The condition is invalid	No tag provided
name (supplier name)	ERROR: class <<hostname>>.Supplier.name - The condition is invalid	No value provided
supplierType	ERROR: class <<hostname>>.Supplier.supplierType - The condition is invalid	No tag provided

Element	Message	Meaning
supplierType	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.SupplierType using code:null	No <ns1:code> tag
supplierType	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.SupplierType using code:<###>	Invalid <ns1:code>

Update Record

Description

Updates an existing Supplier record. Use this function to update a supplier's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/supplier/{id} **HTTP method:** PUT

Request Details

The body of the request contains a SupplierUpdatedDTO to specify the updates to the Supplier record. Compared to retrieving a supplier (which uses the SupplierFullDTO type), this request is much shorter. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is similar to that for creating a supplier, but crucially, the links to other top-level records (Sites, SiteContact, SupplierContact) are omitted. The omission of those ensures that when updating a supplier, only the supplier details need to be specified, and not the details for the related records that may not require updating (and which should be updated to calls to their respective services). After the call, the Supplier record is updated to match the request.

Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the Supplier record (except for the Sites, SiteContacts, and SupplierContacts).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a SupplierLink element. The SupplierLink element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Supplier record's internal ID
recordLink	string	URI to the Supplier record, for use in a GET request
code	string	Supplier code business key to the Supplier record
name	string	Supplier's name
localName	string	Supplier's name in business language (if used)

Error Messages

If the supplied data does not result in a valid Supplier (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Element	Message	Meaning
billingCode	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.BillingCode using code:<###>	Invalid <ns1:code>
businessUnit	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>domain.BusinessUnit using code:<###>	Invalid <ns1:code>
code	MySQLIntegrityConstraintViolationException: Duplicate entry <###> for key 'c_code'	Supplier code provided that already exists for another supplier
name	PropertyValueException: not-null property references a null or transient value: <<hostname>>.domain.Supplier.name	No tag provided
status	NullPointerException:	No status tag provided
status	IllegalArgumentException: Empty string is not allowed, should be null on method: <<hostname>>.domain.Supplier@1df35f3[id=<###>,code=<###>]	No status code provided

SiteRestService

This section describes the API for managing sites. The following functions are available:

- [List of Values](#): retrieves a list of sites
- [Retrieve Record by ID](#): retrieves a Site record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Site record using its business key

- [Check Record Modification Timestamp](#): retrieves the timestamp when a Site record was last updated
- [Create Record](#): creates a new Site record
- [Update Record](#): updates an existing Site record

List of Values

Description

Retrieves a list of sites in a paged list. Use this function to retrieve a simple list of supplier names and IDs, or to locate Site record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/site **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example	Validation
offset	Optional	int	No	60	
pageSize	Optional	int	No	30	
siteStatus	Optional	string	Yes	AWAITING REGISTRATION	
siteCode	Optional	string	Yes	A0001-0001	
siteName	Optional	string	Yes	West Road Site	
siteType	Optional	string	Yes	CANNERY	
country	Optional	string	Yes	UK	
businessCategory	Optional	string	Yes	CHEESE_DAIRY	Code in the Business Categories glossary at any level of the hierarchy. Applies the filter to Business Category and Lead Business Category (if used). Returns a result if any of the values match any of the specification's business categories.
businessUnit	Optional	string	Yes	UK	
supplierName	Optional	string	Yes	ABC Ltd	
supplierActive	Optional	String	No	true (otherwise will return active and inactive suppliers)	

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
modifiedSince	Optional	string	No	2015-05-19 13:30:39	
modifiedUntil	Optional	string	No	2015-05-19 13:30:39	
statusChangedFrom	Optional	string	No	2015-06-10 09:00:00	Both From and Until are required if either is used. Until date must be greater than or equal to the From date.
statusChangedUntil	Optional	string	No	2015-06-10 09:00:00	
statusChangedTo	Optional	string	Yes	ACTIVE	
leadTechnologist	Optional	string	Yes	John Smith	The user's Login Id.

Example URLs

.../services/rest/site/?offset=2&pageSize=20 .../services/rest/site/?siteStatus=ACTIVE
.../services/rest/site/?supplierName=API%

Response Details

For a successful response, XML is returned with a SiteLinkList root element containing an entries element for each matched site. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Site record's internal ID
recordLink	string	URI to the SiteRestService Retrieve record for this site
code	string	Site code business key to the Site record
name	string	Site's name
localName	string	Site's name in business language (if used)

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

Element	Message	Meaning
siteStatus	HTTP 417 IllegalStateException: The Supplier Status <###> does not exist	Invalid site status
siteStatus	HTTP 417 IllegalStateException: The Supplier Statuses <###~###~###> do not exist	Invalid site status
siteType	HTTP 417 IllegalStateException: The Supplier Type <###> does not exist	Invalid supplier type

Element	Message	Meaning
siteType	HTTP 417 IllegalStateException: The Supplier Types <###~###> do not exist	Invalid supplier type
country	HTTP 417 IllegalStateException: The Country <###> does not exist	Invalid country
country	HTTP 417 IllegalStateException: The Countries <###~###> do not exist	Invalid country
businessCategory	HTTP 417 IllegalStateException: The Business Category <###> does not exist	Invalid business category
businessCategory	HTTP 417 IllegalStateException: The Business Categories <###~###> do not exist	Invalid business category
businessUnit	HTTP 417 IllegalStateException: The Business Unit <###> does not exist	Invalid business unit
businessUnit	HTTP 417 IllegalStateException: The Business Units <###~###> do not exist	Invalid business unit
modifiedSince	Invalid dates cause stack trace to come back to "response"	
modifiedUntil	Invalid dates cause stack trace to come back to "response"	
pageSize	Error Code: INVALIDRESTSERVICEPAGESIZE INVALIDPAGESIZE	Page Size must be between 1 and 100
offset	Error Code: INVALIDOFFSET	Offset must be a positive integer
siteStatus	Error Code: INVALIDSITESTATUS INVALIDSITESTATUSSES	Invalid Site Status
siteType	Error Code: INVALIDSITETYPE	Invalid Site Type
country	Error Code: INVALIDCOUNTRY	Invalid Country
businessCategory	Error Code: INVALIDBUSINESSCATEGORY	Invalid Business Category
businessUnit	Error Code: INVALIDBUSINESSUNIT	Invalid Business Unit
supplierActive	Error Code: INVALIDBOOLEAN	Invalid supplierActive value Permitted values (not case-sensitive) are: true; yes; 1; false; no; 0
leadTechnologist	Error Code: INVALIDUSER	Invalid Lead Technologist
statusChangedFrom	Error Code: INVALIDDATEFORMAT	Invalid Status Changed From Must be a valid date/time format: Year-Month-DayOfMonth Hour:Minute:Seconds such as 2016-12-30 09:59:59

Element	Message	Meaning
statusChangedUntil	Error Code: INVALIDDATEFORMAT	Invalid Status Changed Until Must be a valid date/time format: Year-Month-DayOfMonth Hour:Minute:Seconds such as 2016-12-30 09:59:59
statusChangedTo	Error Code: INVALIDSTATUSCHANGEDTO	Either Status Changed From or Status Changed Until must be specified if filtering on Status Changed To

Retrieve Record by ID

Description

Retrieves a Site record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual site.

Endpoint address: /services/rest/site/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/site/87

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a siteFullIDTO root element containing the individual attributes of the requested Site record. If an ID is not specified, a list of all sites is returned (per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Site to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Site record's details using its business key (supplier and codes). Use this function to retrieve the full details of an individual site using the combination of the Brand Compliance supplier and site codes.

Endpoint address: /services/rest/site/byKey/{supplierCode}/{siteCode} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {supplierCode} and {siteCode} parameters that determine the record to retrieve.

Example URL

.../services/rest/site/byKey/A0001/A0001-0001

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a siteFullDTO root element containing the individual attributes of the requested Site record.



Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a siteFullDTO root element containing the individual attributes of the requested Site record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
supplierCode	HTTP 404 Not Found	Invalid {supplierCode} - blank
siteCode	HTTP 404 Not Found	Invalid {siteCode}

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Site record. Use this function to determine when a site's details were last updated.

Endpoint address: /services/rest/site/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/site/87

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Site record.

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 Expectation Failed	Invalid {id} - not found

Create Record

Description

Creates a new Site record. Use this function to create new sites in Brand Compliance based on data sourced from the external system.

Dependencies: The Supplier must be present in the application and its record ID obtained. If assigning a Business Category or Product Technologist, the record must be present in the application and its record ID obtained. Create Contacts after creating the Site. For more information, see [Dependencies](#).

Endpoint address: /services/rest/site **HTTP method:** POST

Request Details

The body of the request contains a SiteFullDTO element to specifying the details of the site to create. Compared to retrieving a site (which uses the same SiteFullDTO type), this request is much shorter. Only the attributes that are to be populated on the

created Site record need to be included. As a minimum, this must include the fields shown in the following table.

Site Mandatory Fields

Field Name	Element Name
Site Name	name
Site Type	siteType/code
Categories	businessCategories
Lead Product Technologist	leadTechnicalManager
Supplier	supplier/code
Site Status	siteStatus
Deleted Record	deleted (Set to false)

Example Request XML

This example shows the minimum requirement to be able to create a site against a supplier.

```
<ns1:siteFullDTO
  xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple"
  xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">

  <ns0:businessCategories>
    <ns1:code>CATEGORY2A</ns1:code>
  </ns0:businessCategories>
  <ns0:leadTechnicalManager>
    <ns1:code>techadmin</ns1:code>
  </ns0:leadTechnicalManager>

  <ns0:name>Site Name</ns0:name>
  <ns0:siteType>
    <ns1:code>SITE_TYPE_EXAMPLE</ns1:code>
  </ns0:siteType>
  <ns0:siteStatus>
    <ns1:status>ACTIVE</ns1:status>
  </ns0:siteStatus>
  <ns0:supplier>
    <ns1:code>WS0001</ns1:code>
  </ns0:supplier>
  <ns0:deleted>>false</ns0:deleted>

</ns1:siteFullDTO>
```

Set the deleted attribute to false to ensure the record can be seen in the UI. If omitted or set to true, it will exist, but will not be visible.

Where the record is linked to another record, such as the Site Type in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a SiteLink root element containing the site data, and a SupplierLink element, consisting of the parent supplier data. The returned elements are shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Newly created Site record's internal ID
recordLink	string	URI to the newly created Site record, for use in a GET request
code	string	Supplier and site code business key to the newly created Site record
name	string	Site's name
localName	string	Site's name in business language (if used)
supplierLink/recordId	long	Newly created site's Supplier record internal ID
supplierLink/recordLink	string	URI to the newly created site's Supplier record, for use in a GET request
recordLink/code	string	Supplier code business key to the newly created site's Supplier record
recordLink/name	string	Supplier's name
recordLink/localName	string	Supplier's name in business language (if used)

Error Messages

If the supplied data does not result in a valid Site (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Element	Message	Meaning
supplier/id	Null Pointer Exception	Supplier ID not provided
supplier/id	No row with the given identifier exists: [com.micros.creations.core.domain.Supplier#<###>]	Supplier not found
siteStatus	Null Pointer Exception	Site Status not provided
siteStatus	Cannot locate keyword for class com.micros.creations.core.domain.SiteStatus using status:<###>	Site Status not found
siteType	ERROR: class com.micros.creations.core.domain.SiteType - The condition is invalid	Site Type not provided
siteType	Cannot locate keyword for class com.micros.creations.core.domain.SiteType using code:<###>	Site Type not found

Element	Message	Meaning
name	class com.micros.creations.core.domain.Site.name - The condition is invalid	Site name not provided
leadTechnicalManager	ERROR: class com.micros.creations.core.domain.Site.leadTechnicalManager - The condition is invalid	Lead Technical Manager not provided
leadTechnicalManager	HTTP 417 IllegalStateException: Cannot locate keyword for class com.micros.creations.core.domain.User using code:<###>	Lead Technical Manager not found
businessCategories	ERROR: class com.micros.creations.core.domain.Site.businessCategories - The condition is invalid	Business Category not provided
businessCategories	Cannot locate keyword for class com.micros.creations.core.domain.BusinessCategory using code:<###>	Business Category not found
code	Duplicate site code	The site already exists for this supplier

Update Record

Description

Updates an existing Site record. Use this function to update a site's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/site/{id} **HTTP method:** PUT

Request Details

The body of the request contains a SiteUpdateDTO to specify the updates to the Site record. Compared to retrieving a site (which uses the SiteFullDTO type), this request is much shorter. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is similar to that for creating a site, but crucially, the links to other top-level records (SiteContact) are omitted. The omission of those ensures that when updating a site, only the site details need to be specified, and not the details for the related records that may not require updating (and which should be updated with calls to their respective services). After the call, the Site record is updated to match the request

Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the Site record (except for the SiteContacts).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a SiteLink root element containing the site data, and a SupplierLink element, consisting of the parent supplier data. The returned elements are shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Updated Site record's internal ID
recordLink	string	URI to the updated Site record, for use in a GET request
code	string	Site code business key to the updated Site record
name	string	Site's name
localName	string	Site's name in business language (if used)
supplierLink/recordId	long	Updated site's Supplier record internal ID
supplierLink/recordLink	string	URI to the updated site's Supplier record, for use in a GET request
recordLink/code	string	Supplier code business key to the updated site's Supplier record
recordLink/name	string	Supplier's name
recordLink/localName	string	Supplier's name in business language (if used)

Error Responses

If the supplied data does not result in a valid Site (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

ContactRestService

This section describes the API for managing supplier and site contacts. The following functions are available:

- [List of Values](#): retrieves a list of contacts
- [Retrieve Record by ID](#): retrieves a Contact record using its unique identifier
- [Retrieve Supplier Contact Record by Business Key](#): retrieves a Supplier Contact record using its business key
- [Retrieve Site Contact Record by Business Key](#): retrieves a Site Contact record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Contact record was last updated
- [Create Record](#): creates a new Contact record

- [Update Record](#): updates an existing Contact record

List of Values

Description

Retrieves a list of contacts in a paged list. Use this function to retrieve a simple list of contact names and IDs, or to locate Contact record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/contact **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
name	Optional	string	Yes	John Smith
supplierContactRoles	Optional	string	Yes	HEAD OF MANUFACTURING
siteContactRoles	Optional	string	Yes	HEAD OF MANUFACTURING
country	Optional	string	Yes	UK
selectedSites	Optional	string	No	A0001-0001
supplierCode	Optional	string	Yes	A0001
supplierName	Optional	string	Yes	ABC Ltd.
siteStatus	Optional	string	Yes	ACTIVE~INACTIVE
supplierActive	Optional	string	No	true (otherwise will return active and inactive suppliers)
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

.../services/rest/contact/?offset=2&pageSize=20 .../services/rest/contact/?
siteStatus=ACTIVE .../services/rest/contact/?supplierName=API%

Response Details

For a successful response, XML is returned with a ContactLinkList root element containing an entries element for each matched contact. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Contact record's internal ID
recordLink	string	URI to the ContactRestService Retrieve record service for this contact
email	string	Contact's email address
name	string	Contact's name
siteContact	Boolean	Indicates if a contact for the site (true), else false
supplierContact	Boolean	Indicates if a contact for the supplier (true), else false

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

Element	Message	Meaning
supplierContactRoles	HTTP 417 IllegalStateException: The Supplier Contact Role <###> does not exist	Invalid supplier contact role
supplierContactRoles	HTTP 417 IllegalStateException: The Supplier Contact Roles <###~###> do not exist	Invalid supplier contact role
siteContactRoles	HTTP 417 IllegalStateException: The Site Contact Role <###> does not exist	Invalid site contact role
siteContactRoles	HTTP 417 IllegalStateException: The Site Contact Roles <###~###> do not exist	Invalid site contact role
country	HTTP 417 IllegalStateException: The Country <###> does not exist	Invalid country code
country	HTTP 417 IllegalStateException: The Countries <###~###> do not exist	Invalid country code
siteStatus	HTTP 417 IllegalStateException: The Supplier Status <###> does not exist	Invalid supplier status code
pageSize	Error Code: INVALIDRESTSERVICEPAGESIZE INVALIDPAGESIZE	Page Size must be between 1 and 100
offset	Error Code: INVALIDOFFSET	Offset must be a positive integer
supplierContactRole	Error Code: INVALIDCONTACTROLE	Invalid Supplier Contact Role
siteContactRole	Error Code: INVALIDCONTACTROLE	Invalid Site Contact Role
country	Error Code: INVALIDCOUNTRY	Invalid Country
selectedSite	Error Code: INVALIDSITE	Invalid Site
supplierCode	Error Code: INVALIDSUPPLIER	Invalid Supplier
siteStatus	Error Code: INVALIDSITESTATUS	Invalid Site Status

Element	Message	Meaning
supplierActive	Error Code: INVALIDBOOLEAN	Invalid supplierActive value Permitted values (not case-sensitive) are: true; yes; 1; false; no; 0

Retrieve Record by ID

Description

Retrieves a single Contact record's details using the record's unique ID. Use this function to retrieve the full details of an individual supplier or site contact.

Endpoint address: /services/rest/contact/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/contact/405

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a contactAndPersonDTO root element containing the individual attributes of the requested Contact record and the person it associates to.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric

Element	Message	Meaning
id	HTTP 417 IllegalStateException: Cannot find the Contact to return with id:<###>	Invalid {id} - not found

Retrieve Supplier Contact Record by Business Key

Description

Retrieves a single Supplier Contact record's details using its business key (supplier code, contact name, and email address). Use this function to retrieve the full details of an individual supplier contact using the combination of the Brand Compliance supplier codes, name of the contact, and the contact's email address.

Endpoint address: /services/rest/contact/byKey/supplier/{supplierCode}/{name}/{email} **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (-) Supported?	Example
supplierCode	Mandatory	string	No	A0001
name	Mandatory	string	No	John Doe
email	Mandatory	string	No	john.doe@email.com

Example URL

.../services/rest/contact/byKey/supplier/A0001/John Doe/john.doe@email.com

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a contactAndPersonDTO root element containing the individual attributes of the requested Contact record.

Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a contactAndPersonDTO root element containing the individual attributes of the requested Contact record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Responses

In the document cannot be located, an HTTP 404 response is sent.

Retrieve Site Contact Record by Business Key

Description

Retrieves a single Site Contact record's details using its business key (supplier code, site code, contact name, and contact email). Use this function to retrieve the full details of an individual site contact using the combination of the Brand Compliance supplier and site codes, name of the contact, and the contact's email address.

Endpoint address: /services/rest/contact/byKey/site/{supplierCode}/{siteCode}/{name}/{email} **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
supplierCode	Mandatory	string	No	A0001
siteCode	Mandatory	string	No	A0001-0001
name	Mandatory	string	No	John Doe
email	Mandatory	string	No	john.doe@email.com

Example URL

.../services/rest/contact/byKey/site/A0001/A0001-0001/ John Doe/john.doe@email.com

Response Details

For a successful response, XML is returned with a contactAndPersonDTO root element containing the individual attributes of the requested Contact record and the person it associates to.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Responses

In the document cannot be located, an HTTP 404 response is sent.

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Contact record. Use this function to determine when a supplier or site contact's details were last updated.

Endpoint address: /services/rest/contact/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/contact/405

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header to show the last modification date and time of the last update of the requested Contact record.

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 Expectation Failed	Invalid {id} - not found

Create Record

Description

Creates a new Contact record (and the associated Person record). Use this function to create new supplier or site contacts in Brand Compliance based on data sourced from the external system.

Dependencies: The Supplier (and Site, if a site contact) must be present in the application and its record ID obtained. Omit the Site element if not a site contact. The User/Person must be present in the application and its record ID obtained. For more information, see [Dependencies](#).

Endpoint address: /services/rest/contact **HTTP method:** POST

Request Details

The body of the request contains a ContactAndPersonDTO to specify the details of the contact to create. Compared to the retrieving a contact (which uses the same

ContactAndPersonDTO type), this request is much shorter. Only the attributes that are to be populated on the created Contact record need to be included. As a minimum, this must include the fields shown in the following table.

Contact Mandatory Fields

Field Name	Element Name
Name	contactFullDTO/person/name personFullDTO/name
User Id	contactFullDTO/person/id
Supplier	contactFullDTO/person/supplier/id contactFullDTO/company/code personFullDTO/supplier/code personFullDTO/supplier/id
Email	contactFullDTO/person/email personFullDTO/email
Phone	contactFullDTO/contactDetails/phoneNumber
Supplier Contact Roles	contactFullDTO/supplierContactRole/code
Contact Type	contactFullDTO/dtype
Site Contact Flag	contactFullDTO/siteContact
Supplier Contact Flag	contactFullDTO/supplierContact
Deleted Record	deleted (Set to false)

Example Request XML

This example shows the minimum requirement to be able to create a contact against a supplier.

```
<ns0:ContactAndPersonDTO xmlns:ns4="http://www.oracle.com/orbcmcs/service/rest/model"
xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full"
xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple">
  <ns0:contactFullDTO>
    <ns0:contactDetails>
      <ns0:phoneNumber>01234 56789</ns0:phoneNumber>
    </ns0:contactDetails>
    <ns0:dtype>SupplierContact</ns0:dtype>
    <ns0:person>
      <ns1:email>jphillips@example.com</ns1:email>
      <ns1:name>Jane Phillips</ns1:name>
      <ns1:supplier>
        <ns1:code>A0001</ns1:code>
      </ns1:supplier>
    </ns0:person>
    <ns0:siteContact>>false</ns0:siteContact>
    <ns0:supplierContact>true</ns0:supplierContact>
    <ns0:supplierContactRole>
      <ns1:code>ACCOUNT MANAGER</ns1:code>
    </ns0:supplierContactRole>
    <ns0:company>
      <ns1:code>A0001</ns1:code>
    </ns0:company>
  </ns0:contactFullDTO>
</ns0:personFullDTO>
```

```

    <ns0:email>jphillips@example.com</ns0:email>
    <ns0:name>Jane Phillips</ns0:name>
    <ns0:supplier>
      <ns1:code>A0001</ns1:code>
    </ns0:supplier>
  </ns0:personFullDTO>
  <ns0:deleted>>false</ns0:deleted>
</ns0:ContactAndPersonDTO>

```

Set the `deleted` attribute to `false` to ensure the record can be seen in the UI. If omitted or set to `true`, it will exist, but will not be visible.

If a contact has multiple supplier or site contact roles, they should be separate entries as follows:

```

<ns0:supplierContactRole>
  <ns1:code>ACCOUNT MANAGER</ns1:code>
</ns0:supplierContactRole>
<ns0:supplierContactRole>
  <ns1:code>AUDITS AND VISITS CONTACT</ns1:code>
</ns0:supplierContactRole>
<ns0:supplierContactRole>
  <ns1:code>EMERGENCY CONTACT</ns1:code>
</ns0:supplierContactRole>

```

Where the record is linked to another record, such as the Contact Role in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a `ContactLink` root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
<code>recordId</code>	long	Newly created Contact record's internal ID
<code>recordLink</code>	string	URI to the newly created Contact record, for use in a GET request
<code>email</code>	string	Email address of the newly created contact
<code>name</code>	string	Contact's name
<code>siteContact</code>	Boolean	Indicates if a contact for the site (true), else false
<code>supplierContact</code>	Boolean	Indicates if a contact for the supplier (true), else false

Error Messages

Element	Message	Meaning
phoneNumber	phoneNumber - The condition is invalid	Missing tag
dtype	IllegalArgumentException: Invalid value for dtype:<###>	Invalid value SupplierContact; SiteContact
name & email	HTTP 417 IllegalStateException: Cannot locate Person record with name: <###> and email: <###>	A valid user must be found with matching name and email address
company	HTTP 417 IllegalStateException: Cannot locate keyword for class com.micros.creations.core.domain.Company using code:<###>	Invalid company/supplier code

Update Record

Description

Updates an existing Contact record. Use this function to update a supplier or site contact's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/contact/{id} **HTTP method:** PUT

Request Details

The body of the request contains a ContactAndPersonDTO element to specify the updates to the Contact record. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is the same as that for creating a contact. After the call, the Contact record is updated to match the request.

Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the Contact record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a ContactLink element. The ContactLink element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Contact record's internal ID
recordLink	string	URI to the Contact record, for use in a GET request
email	string	Contact's email address
name	string	Contact's name
siteContact	Boolean	Indicates if a contact for the site (true), else false
supplierContact	Boolean	Indicates if a contact for the supplier (true), else false

Error Messages

If the supplied data does not result in a valid Contact (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

ProductRecordRestService

This section describes the API for managing Product records. The following functions are available:

- [List of Values](#): retrieves a list of Product records
- [Retrieve Record by ID](#): retrieves a Product record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Product record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Product record was last updated
- [Create Record](#): creates a new Product record
- [Update Record](#): updates an existing Product record

List of Values

Description

Retrieves a list of Product records in a paged list. Use this function to retrieve a simple list of product titles and IDs, or to locate Product record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/productRecord **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
specType	Optional	string	Yes	FOOD~CNF
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39
productRecordCode	Optional	integer	No	123456
altProductNumber	Optional	string	No	ABC001
division	Optional	string	Yes	DIV_A~DIV_B Must be the code of an entry in the Divisions glossary

Example URLs

.../services/rest/productRecord/?offset=2&pageSize=20 .../services/rest/productRecord/?
specType=FOOD

Response Details

For a successful response, XML is returned with a ProductRecordLinkList root element containing an entries element for each matched Product Record. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Product record's internal ID
recordLink	string	URI to the ProductRecordRestService Retrieve record service for this Product record
code	string	Code business key to the Product record
title	string	Product's title

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

Element	Message	Meaning
specType	HTTP 417 IllegalStateException: The Spec Type <###> does not exist	Invalid specification type
modifiedSince	Invalid dates cause stack trace to come back to "response"	

Element	Message	Meaning
modifiedUntil	Invalid dates cause stack trace to come back to "response"	
pageSize	Error Code: INVALIDPAGESIZE	Page Size must be between 1 and 100
offset	Error Code: INVALIDOFFSET	Offset must be a positive integer
specificationVersion	Error Code: INVALIDSPECNOMANDATORYVERSION	Specification Number is mandatory if filtering on Version
specificationType	Error Code: INVALIDSPECIFICATIONTYPE	Invalid Specification Type

Retrieve Record by ID

Description

Retrieves a single Product record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual Product Record.

Endpoint address: /services/rest/productRecord/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/productRecord/99

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a productRecordFullIDTO root element containing the individual attributes of the requested Product record. If an ID is not specified, a list of all Product records is returned (per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Product Record to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Product record's details using its business key (code). Use this function to retrieve the full details of an individual Product record using its Brand Compliance product code.

The Product record's business key is the product code that is visible in the UI. This an individual number assigned by Brand Compliance. It is not the product's traded unit identifier such as a SKU, that is, the product number, which is also visible in the UI.

Endpoint address: /services/rest/productRecord/byKey/{code} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {code} parameter that determines the record to retrieve.

Example URL

.../services/rest/productRecord/byKey/31

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a productRecordFullDTO root element containing the individual attributes of the requested Product record.

Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a productRecordFullDTO root element containing the individual attributes of the requested Product record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
code	HTTP 404 Not Found	Invalid {code} - blank
code	HTTP 404 Not Found	Invalid {code} - not found
code	NumberFormatException: For input string: <###>	Invalid {code} - not numeric

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Product record. Use this function to determine when a Product record's details were last updated.

Endpoint address: /services/rest/productRecord/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/productRecord/99

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header to showing the date and time of the last update of the requested Product record.

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 Expectation Failed	Invalid {id} - not found

Create Record

Description

Creates a new Product record. Use this function to create new Product records in Brand Compliance based on data sourced from the external system.

Dependencies: If linked to a supplier or site, the Supplier/Site must be present in the application and its record ID obtained. If assigning a Business Category, Product

Technologist, or Other Contact, the record must be present in the application and its record ID obtained. Product Technologist and Other Contacts may be omitted to default to TBC if the TBC user is present in the application. The status must be Active in order to be linked to a specification; for the status to be Active, the Product record must be linked to a supplier. For more information, see [Dependencies](#).

Endpoint address: /services/rest/productRecord **HTTP method:** POST

Request Details

The body of the request contains a ProductRecordFullDTO to specify the Product record to create. Compared to retrieving a Product record (which uses the same ProductRecordFullDTO type), this request is much shorter. Only the attributes that are to be populated on the created Product record need to be included. As a minimum, this must include the fields shown in the following table.

Product Record Mandatory Fields

Field Name	Element Name
Product Title	title
Status	productRecordStatus
Variant Name	variantName
Quantity	quantity
Specification Type	specType - see below
Specification Type Format	specTypeFormat - see below
Technologist	technologist
Other Contacts	productRecordOtherUser
Supplier Details	supplier
Site Details	site
Deleted Record	deleted (Set to false)
Language	labell18NKey

Note:

To ensure a valid unique business key code is automatically assigned to the record being created, a value of zero must be passed in the <code> element of the XML when submitting the POST request.

Example Request XML

This example shows the minimum requirement to be able to create a Product record.

```
<ns0:productRecordFullDTO
  xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple"
  xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">

  <ns0:code>1290</ns0:code>
  <ns0:productCovered>
    <ns0:quantity>Small</ns0:quantity>
```

```

        <ns0:retailerProductNumber>ABC123</ns0:retailerProductNumber>
        <ns0:variantName>Small White Rolls</ns0:variantName>
    </ns0:productCovered>
    <ns0:productRecordOtherUser>
        <ns0:role>
            <ns1:code>BUYER</ns1:code>
        </ns0:role>
        <ns0:user>
            <ns1:code>TBC</ns1:code>
        </ns0:user>
        <ns0:labelI18NKey>contacts.buyer</ns0:labelI18NKey>
    </ns0:productRecordOtherUser>
    <ns0:productRecordOtherUser>
        <ns0:role>
            <ns1:code>PRODUCT DEVELOPMENT MANAGER</ns1:code>
        </ns0:role>
        <ns0:user>
            <ns1:code>TBC</ns1:code>
        </ns0:user>
        <ns0:labelI18NKey>contacts.productDevelopmentManager</
ns0:labelI18NKey>
    </ns0:productRecordOtherUser>
    <ns0:specTypeFormat>
        <ns1:code>FOODUK</ns1:code>
        <ns1:specType>FOOD</ns1:specType>
    </ns0:specTypeFormat>
    <ns0:technologist>
        <ns1:code>PRODUCT TECHNOLOGIST</ns1:code>
    </ns0:technologist>
    <ns0:title>White Bread Rolls</ns0:title>
    <ns0:productRecordStatus>
        <ns1:status>DRAFT</ns1:status>
    </ns0:productRecordStatus>
    <ns0:deleted>>false</ns0:deleted>

</ns0:productRecordFullDTO>

```

Set the `deleted` attribute to `false` to ensure the record can be seen in the UI. If omitted or set to `true`, it will exist, but will not be visible.

The `productCoverage` element holds the product's title, quantity, and code regardless of whether the portal is operating in multi variant mode where a single Product record may represent multiple variants (such as sizes) of the product, or in single variant mode, where the Product record represents just a single variant of the product. With single variant mode, there will only ever be a single `productCoverage` element.

Single Variant Mode

```

<productCovered>
  <productTitle/>
  <variantName/>
  <quantity/>
  <retailerProductNumber/>
</productCovered>

```

Multi Variant Mode

```

<productCovered>
  <productTitle/>
  <variantName/>
  <quantity/>

```

```

    <retailerProductNumber/>
  </productCovered>
</productCovered>
  <productCovered>
    <productTitle/>
    <variantName/>
    <quantity/>
    <retailerProductNumber/>
  </productCovered>

```

If a specification type has more than one format, such as a Food specification having separate formats for Food - UK and Food - US, the `specTypeFormat/code` element is used to specify the specification format and `specType` is used to identify the specification type, for example:

```

<ns0:specTypeFormat>
  <ns1:code>FOODUK</ns1:code>
  <ns1:specType>FOOD</ns1:specType>
</ns0:specTypeFormat>

```

The code of the specification type/format must be used rather than the description.

Where the record is linked to another record, such as the Technologist in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.



Note:

The API does not apply status-based validation as is applied using the Brand Compliance UI when manually progressing a Product record.

It is therefore possible, using the API, to create a Product record at Active status without the supplier or site being populated. In this case, it will not be possible to link Product Specifications to the Product record until a valid supplier and site has been assigned manually.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a `ProductRecordLink` root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Newly created Product record's internal ID
recordLink	string	URI to the newly created Product record, for use in a GET request
code	string	Code business key to the newly created Product record
title	string	Product's title

Error Messages

If the supplied data does not result in a valid Product record (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Element	Message	Meaning
productCoverage	ERROR: class <<hostname>>.ProductRecord.productCovered - The condition is invalid	No tag provided
code	ERROR: class <<hostname>>.ProductRecord.code - A Product Record's code is mandatory	No tag provided
code	ERROR: class <<hostname>>.ProductRecord.code - A Product Record's code is mandatory	No value provided
code	ERROR: class <<hostname>>.ProductRecord.code - A Product Record's code must be unique:<###>	Code already exists
code	HTTP Status 400 - Bad request	Code is not numeric
title	DtoValidationException: title is mandatory	No tag provided No value provided
productRecordStatus	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.PoductRecordStstus using status:<###>	No tag provided No value provided Status not found
variantName	ERROR: class <<hostname>>.ProductRecord.productCovered[###].variantName - Variant name is mandatory	No tag provided No value provided
quantity	ERROR: class <<hostname>>.ProductRecord.productCovered[###].quantity - Quantity name is mandatory	No tag provided No value provided
specType	ObjectNotFoundException: No row with the given identifier exists: [<<hostname>>.SpecTypeFormat#<###>]	No value provided Specification type not found
technologist	MySQLIntegrityConstraintViolationException: Cannot add or update a child row: a foreign key constraint fails ('<###>'.t_prdrcd,CONSTRAINT '<###>' FOREIGN KEY ('fk_technologist') REFERENCES 't_user' ('c_id'))	No tag provided No value provided
technologist	ObjectNotFoundException: No row with the given identifier exists: [com.micros.creations.core.domain.User#<###>]	Technologist not found

Element	Message	Meaning
productRecordOtherUser/ user	DtoValidationException: ProductRecordOtherUser has no valid user for role:<###> ProductRecordOtherUser Roles are mandatory for the following missing Roles: [<###>]	No tag provided User not found
productRecordOtherUser/ user	ObjectNotFoundException: No row with the given identifier exists: [<<hostname>>.User#<###>]	No value provided
productRecordOtherUser/ role	DtoValidationException: ProductRecordOtherUser has no valid user for role:<###> ProductRecordOtherUser Roles are mandatory for the following missing Roles: [<###>]	No tag provided User not found
productRecordOtherUser/ role	ObjectNotFoundException: No row with the given identifier exists: [<<hostname>>.Role#<###>]	No value provided
supplier	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.Company using code:<###>	No tag provided
supplier	MySQLIntegrityConstraintViolationExc eption: Cannot add or update a child row: a foreign key constraint fails ('<###>'. 't_prdrcd', CONSTRAINT '<###>' FOREIGN KEY ('fk_supplier') REFERENCES 't_company' ('c_id'))	No value provided Supplier not found
site	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.Site using id:<###>, code:<###>, supplierCode:<###> and supplierId:<###>	No tag provided No value provided Supplier not found
countryWhereSold	HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.CountryWhereSold using code:<###> and spec type:<###>	No value provided
countryWhereSold	ObjectNotFoundException: No row with the given identifier exists: [<<hostname>>.CountryWhereSold#< ###>]	Country not found
	ERROR: class <<hostname>>.ProductRecord.barcod e[<###> - Bar Code must be either 8 or 13 characters long	Invalid code length
	ERROR: class<<hostname>>.ProductRecord.s hippingCaseCode[<###> - Shipping Case Code must be either 14 digits long	Invalid code length

Update Record

Description

Updates an existing Product record. Use this function to update a Product record's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/productRecord/{id} **HTTP method:** PUT

Request Details

The body of the request contains a ProductRecordFullDTO to specify the updates to the Product record. Compared to retrieving a Product record (which uses the same ProductRecordFullDTO type), this request is much shorter. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is the same as that for creating a Product Record. After the call, the Product Record is updated to match the request.

Note:

When updating records, all values must be included. If a value is or element is omitted from the request, the field contents will be cleared on the Product record.

When a Product Specification is initially linked to the Product record, any values in the product title, barcode, shipping case code, and quantity fields are carried through to the Specification. If subsequent changes are made to the barcode or shipping case code using the Product Record API, the changes will not be automatically cascaded to the Specification, however, if the Specification is at draft status it may be manually delinked and relinked to the Product record in order to refresh these values.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a ProductRecordLink element. The ProductRecordLink element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Product record's internal ID
recordLink	string	URI to the Product record, for use in a GET request
code	string	Code business key to the Product record
title	string	Product's title

Error Responses

If the supplied data does not result in a valid Product record (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

ProductSpecificationRestService

This section describes the API for managing Product Specifications. The following functions are available:

- [List of Values](#): retrieves a list of Product Specifications
- [Retrieve Record by ID](#): retrieves a Product Specification using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Product Specification using its business key
- [Retrieve List with Advanced Filtering](#): retrieves a Product Specification using additional filtering options
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Product Specification was last updated
- [Create Record](#): creates a new Product Specification record
- [Update Record](#): updates an existing Product Specification record

List of Values

Description

Retrieves a list of Product Specifications in a paged list. Use this function to retrieve a simple list of product titles and IDs, or to locate Product Specification IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/specification **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
offset	Optional	int	No	60	
pageSize	Optional	int	No	30	
specType	Optional	string	Yes	FOOD~CNF	
modifiedSince	Optional	string	No	2015-05-19 13:30:39	
modifiedUntil	Optional	string	No	2015-05-19 13:30:39	

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example	Validation
specKey	Optional	string	Yes	12345-1	<p>Can be used to return one or more specifications by specifying the specification number and version. The - character is used to separate the spec number and versions.</p> <p>For example, to return a single specification: 1234-1; to return three specifications: 12345-1~12345-2~98765-1</p> <p>Validation ensures that each pair of values contains a digit, otherwise the message <i>Invalid Specification key, must contain a numeric specification number and specification version</i> is returned.</p> <p>So 1234-1 would be valid, 1234-one or 1234- would be invalid.</p>
productTechnologist	Optional	string	Yes	John Smith	<p>The name of the product technologist.</p> <p>Validation ensures that each value is a valid user name, otherwise the message <i>Invalid Product Technologist</i> is returned.</p>
packCopyLocale	Optional	string	No	en_GB	<p>Limits the returned specifications to those where their pack copy language is the language specified.</p> <p>Validation ensures that each value is a valid Locale code, otherwise the message <i>Invalid Pack Copy Locale</i> is returned.</p> <p>So pt_BR would be valid; Brazil would be invalid.</p>

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
status	Optional	string	Yes	RETAILER_DRAFT	Available options: SUPPLIER_DRAFT RETAILER_DRAFT COLLABORATIVE_DRAFT GATE_STEP PART_PACK_COPY_SEN T PACK_COPY_SENT PACK_COPY_READY READY_FOR_AUTHORIS ATION SUPPLIER_AUTHORISED ACTIVE OFF_RANGE DE_LISTED SUPERSEDED NOT_PROGRESSED APPROVE_FOR LABELLI NG PRODUCE_DRAFT PRODUCE_PACK_COPY PRODUCE_APPROVED PRODUCE_ARCHIVED
title	Optional	string	Yes	12345	Applies the filter to the Product Title in the specification's Header section to return specifications that contain the specified value in the Product Title or Product Title in Business Language.
supplierName	Optional	string	Yes	ABC Supplies Ltd.	Applies the filter to the Supplier Name (in the Supplier Information table for Produce) to return specifications that contain the specified value in the Supplier Name or Supplier Name in Business Language.

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
siteName	Optional	string	Yes	ABC London	Applies the filter to the Site Name in the Primary Sites table (in the Supplier Information table for Produce) to return specifications that contain the specified value in the Site Name or Site Name in Business Language.
specNumber	Optional	integer	No	12	The specification number. Mandatory if Version filter is used.
version	Optional	integer	No	1	Used in association with SpecNumber. Must be at least 1.
brand	Optional	string	Yes	BRANDA	The Code for the required Brand.
businessArea	Optional	string	Yes	UK	The Code for the required Business Area.
language	Optional	string	Yes	en_GB	The Code for the required pack copy language, such as, en_GB. Specifying a preferred language will return only values in that language. If not specified, the base language is assumed.
supplierCode	Optional	string	Yes	A0001	Filters on the Primary Sites supplier code for Produce Specifications or the Supplier code for all other types of Specification.
siteCode	Optional	string	Yes	A0001-001	Filters on the code of the Sites in the Primary Sites table of the Product Specification. Use the full site code incorporating the Supplier Code, such as A0001-001.
businessCategory	Optional	string	Yes	CHEESE_DAIRY	The Code for the required Business Category. Searches all levels of Business Category and Lead Business Category path. Returns a result if any of the values match any of the specification's business categories.

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
productNumber	Optional	string	Yes	12345	Filters on the Product Number column of the Product Coverage table.
countryWhereSold	Optional	string	Yes	FOOD_COUNTRY_ WHERE_SOLD	The Code for the required Country Where Sold.
productCoverage	Optional	string	Yes	Chicken (500g)	Filters on the Product Name column of the Product Coverage table. Note: The source of the Product Coverage data is the Product Specification, regardless of the specification type and specification status.
specificationSection Type	Optional	string	Yes	RECIPE_AND_RAW _MATERIALS	Available values: ADVANCED_PACKAGING ALLERGY_AND_DIETARY _ADVICE BATCH_CODING CLAIMS_SUBSTANTIATIO N COMPONENTS COUNTER_TICKET FINISHED_PRODUCT_ST ANDARDS FNF_STORAGE MAIN_DETAILS NUTRITION OTHER LABELLING_CO PY PACKAGING POST_LAUNCH_INFORM ATION PROCESS_CONTROLS PRODUCT_APPROVAL_R EQUIREMENTS PRODUCT_CHARACTER _COMP PRODUCT_REQUIREME NTS RECIPE_AND_RAW_MAT ERIALS STORAGE
productRecordCode	Optional	integer	No	123456	
altProductNumber	Optional	string	No	ABC001	

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example	Validation
division	Optional	string	Yes	DIV_A~DIV_B	Must be the code of an entry in the Divisions glossary.
statusChangedFrom	Optional	string	No	2018-06-10 09:00:00	Date the specification status changed.
statusChangedUntil	Optional	string	No	2018-06-10 09:00:00	Date the specification status changed. Date must be either the same as, or after the statusChangedFrom parameter.
statusChangedTo	Optional	string	Yes	ACTIVE	Must have a statusChangedFrom and/or status changedTo entry, if used. Specification status codes Allowable values: SUPPLIER_DRAFT RETAILER_DRAFT COLLABORATIVE_DRAFT GATE-STEP PART_PACK_COPY_SENT PACK_COPY_SENT PACK_COPY_READY READY_FOR_AUTHORIZATION SUPPLIER_AUTHORISED ACTIVE OFF_RANGE DE-LISTED SUPERSEDED NOT_PROGRESSED APPROVE_FOR LABELLING PRODUCE_DRAFT PRODUCE_PACK_COPY PRODUCE_APPROVED PRODUCE_ARCHIVED

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
softDelete	Optional	string	No	true This also includes specifications that have been soft deleted. Otherwise soft deleted specifications are excluded. Soft deleted specifications are those that show in the Deleted Specifications list view within Brand Compliance.	

 **Note:**

The status filter applies to the specification's current status. The statusChanged filters are used together to retrieve specifications that changed to the statuses specified in statusChangedTo within the date range specified in statusChangedFrom and statusChangedUntil.

This could also be used with status to, for example, retrieve all the specifications that are currently Active, and changed from Collaborative Draft or Gate Step within a particular date range.

Example URLs

.../services/rest/specification/?offset=2&pageSize=20 .../services/rest/specification/?specType=FOOD

Response Details

For a successful response, XML is returned with a ProductSpecificationLinkList root element containing an entries element for each matched Product Specification. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Product Specification's internal ID
recordLink	string	URI to the ProductSpecificationRestService Retrieve record service for this specification
specNumber	string	Specification number business key to the Product Specification record
specVersion	int	Specification version business key to the Product Specification record
title	string	Product Specification's title

The returned XML also contains a `totalRecords` element, which states the total number of retrievable records that match the filter parameters.

Error Messages

Element	Message	Meaning
	<code><errorCode>NOFILTER</code> <code><errorMessage>No Filter Specified, please try again</code>	No parameter provided
<code>pageSize</code>	<code><errorCode>INVALIDBATCHSIZE</code> <code><errorMessage>The Batch Size must be between 1 and 100</code>	Invalid batch size No batch size provided No batch size tag
<code>specStatus</code>	<code><errorCode>INVALIDSPECSTATUS</code> <code><errorMessage>The Status <###> does not exist</code>	Spec Status not found Spec Status is blank
<code>specType</code>	<code><errorCode>INVALIDSPECTYPE</code> <code><errorMessage>The Spec Type <###> does not exist</code>	Spec Type not found Spec Type is blank
<code>countryWhereSold</code>	<code><errorCode>INVALIDCOUNTRYWHE RESOLD</code> <code><errorMessage>The Country Where Sold >###> does not exist</code>	Country not found Country is blank
<code>language</code>	<code><errorCode>INVALIDLANGUAGE</code> <code><errorMessage>The Language <###> does not exist</code>	Language not found Language is blank
<code>sectionType</code>	<code><errorCode>INVALIDSECTIONTYPE</code> <code><errorMessage>The Section Type does not exist</code>	Section type not found Section type is blank
<code>fromDate</code>	HTTP 400 Bad Request	Invalid date/time format
<code>toDate</code>	HTTP 400 Bad Request	Invalid date/time format

Retrieve Record by ID

Description

Retrieves a single Product Specification's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual specification.

Endpoint address: `/services/rest/specification/{id}` **HTTP method:** GET

Request Details

The URL contains the `{id}` parameter that determines the record to retrieve. Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
specificationSectionType	Optional	string	Yes	STORAGE	Allowable Values: ADVANCED_PACKAGING ALLERGY_AND_DIETARY_ADVICE BATCH_CODING CLAIMS_SUBSTITUTION COMPONENTS COUNTER_TICKET FINISHED_PRODUCTS FNF_STORAGE MAIN_DETAILS NUTRITION OTHER_LABELLING_COPY PACKAGING POST_LAUNCH_INFORMATION PROCESS_CONTROLS PRODUCT_APPROVAL_REQUIREMENTS PRODUCT_CHARACTER_COMP PRODUCT_REQUIREMENTS RECIPE_AND_RAW_MATERIALS STORAGE This filter should behave like the equivalent filter in the existing Specifications SOAP API - only returning data from the Main Details section plus the specified sections.

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example	Validation
locale	Optional	string	Yes	en_GB~fr	Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/specification/97

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a productSpecificationFullDTO root element containing the individual attributes of the requested specification. If an ID is not specified, a list of all specifications is returned (per the List of Values function).



Note:

The XML structure caters for nutrient targets in the Nutrition section.

The foodStandardCategory element provides the category description details; a specificationFoodStandardCategoryDetail element per nutrient in the category provides the details of the nutrients and whether the target was achieved, for each.

The foodStandardCategory and specificationFoodStandardCategoryDetail elements are both children to the specificationSectionFoodNutritionSection element.

The response includes the following elements, which are sourced from the Product Record associated with the specification: Business Category, Lead Business Category, Product Coverage table (Product Name, Product Number, Quantity, Alt. Product Number, and Division).

If the locale parameter is used, fields that can hold a separate on-pack value in the specification's pack copy language have those values returned in a packCopyLocaleData element. If no value is present, the element is omitted. For example, if the API is called with the locale parameter set to the portal's base language and the specification's pack copy language is French, the XML returned for the FoP Product Type field would be:

```
<frontOfPackProductType>
  <code>ANZ_FULL_PER_PACK_SOLID_FOOD</code>
  <packCopyLocaleData>
```

```

        <description>Full Table Per Pack Solid Food</description>
        <id>32</id>
        <locale>fr</locale>
        <referenceIntakeText> DI*</referenceIntakeText>
    </packCopyLocaleData>
</localeData>
        <description>Full Table Per Pack Solid Food</description>
        <id>31</id>
        <referenceIntakeText> DI*</referenceIntakeText>
    </localeData>
...
</frontOfPackProductType>

```

Change History:

The date and time of a specification's status change is included as a timestamp value within the statusHistory element. This can be used to determine the age distribution of specifications. For example:

```

<ns1:statusHistory>
  <ns1:comments>...</ns1:comments>
  <ns1:localData>
    <ns1:statusFrom>Deleted</ns1:statusFrom>
    <ns1:statusTo>Retailer Draft</ns1:statusTo>
    <ns1:id>160544</ns1:id>
  </ns1:localData>
  <ns1:id>3682</ns1:id>
  <ns1:createdOn>2018-12-20T12:23:43.000Z</ns1:createdOn>
  <ns1:updatedOn>2018-12-20T12:23:43.000Z</ns1:updatedOn>
</ns1:statusHistory>
<ns1:statusHistory>
  <ns1:localData>
    <ns1:statusTo>Retailer Draft</ns1:statusTo>
    <ns1:statusFrom>Deleted</ns1:statusFrom>
    <ns1:id>160531</ns1:id>
  </ns1:localData>
  <ns1:id>3681</ns1:id>
  <ns1:createdOn>2018-12-20T12:22:52.000Z</ns1:createdOn>
  <ns1:updatedOn>2018-12-20T12:22:52.000Z</ns1:updatedOn>
</ns1:statusHistory>

```

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*, and *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Product Specification to return with id:<###>	Invalid {id} - not found

Element	Message	Meaning
specificationSectionType	Error Code: INVALIDSPECIFICATIONSECTIONTYPE	Invalid Specification Section Type

Retrieve Record by Business Key

Description

Retrieves a single Product Specification's details using its business key (specification number and version). Use this function to retrieve the full details of an individual specification using its Brand Compliance specification number and version.

Endpoint address: /services/rest/specification/byKey/{specNumber}/{specVersion}

HTTP method: GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve. Parameters are passed as URI parameters.

Example URL

.../services/rest/specification/byKey/104/1

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return a productSpecificationFullDTO root element containing the individual attributes of the requested specification.

Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a productSpecificationFullDTO root element containing the individual attributes of the requested specification.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*, and *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
specNumber	HTTP 404 Not Found	Invalid {specNumber} - blank
specNumber	HTTP 404 Not Found	Invalid {specNumber} - not found
specVersion	HTTP 404 Not Found	Invalid {specVersion} - blank
specVersion	HTTP 404 Not Found	Invalid {specVersion} - not found
specificationSectionType	Error Code: INVALIDSPECIFICATIONSECTIONTYPE	Invalid Specification Section Type

Retrieve List with Advanced Filtering

Description

Retrieves a list of Product Specifications in a paged list using advanced filtering. Use this function to retrieve specifications based on the values of specific fields.

Endpoint address: /services/rest/specification/advanced **HTTP method:** POST

Request Details

Parameters are passed in the request in XML format.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example	Validation
offset	Mandatory	int	No	60	>0
batchsize	Mandatory	int	No	30	>0 and <=100
specType	Optional	string	Yes	FOOD	FOOD FNF CNF PRODUCE BWS

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
specStatus	Optional	string	Yes	RETAILER_ DRAFT	SUPPLIER_DRAFT RETAILER_DRAFT COLLABORATIVE_ DRAFT GATE_STEP PART_PACK_COPY _SENT PACK_COPY_SENT PACK_COPY_READ Y READY_FOR_AUTH ORISATION SUPPLIER_AUTHO RISED ACTIVE OFF_RANGE DE_LISTED SUPERSEDED NOT_PROGRESSE D APPROVE_FOR_LA BELLING PRODUCE_DRAFT PRODUCE_PACK_C OPY PRODUCE_APPRO VED PRODUCE_ARCHIV ED
productNumber	Optional	string	Yes	12345	Filters on the Product Number column of the Product Coverage table.
language	Optional	string	Yes	en_GB	The Code for the required pack copy language, such as, en_GB. Specifying a preferred language will return only values in that language. If not specified, the base language is assumed.

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
specificationSectionType	Optional	string	Yes	RECIPE_AND_RAW_MATERIALS	Available values: ADVANCED_PACKAGING ALLERGY_AND_DIETARY_ADVICE BATCH_CODING CLAIMS_SUBSTANTIATION COMPONENTS COUNTER_TICKET FINISHED_PRODUCT_STANDARDS FNF_STORAGE MAIN_DETAILS NUTRITION OTHER LABELLING_COPY PACKAGING POST_LAUNCH_INFORMATION PROCESS_CONTROLS PRODUCT_APPROVAL_REQUIREMENTS PRODUCT_CHARACTER_COMP PRODUCT_REQUIREMENTS RECIPE_AND_RAW_MATERIALS_STORAGE
countryWhereSold	Optional	string	Yes	FOOD_COUNTRY_WHERE_SOLD	The Code for the required Country Where Sold.
Product Coverage	Optional	string	Yes	Chicken (500g)	Filters on the Product Name column of the Product Coverage table.
supplier	Optional	string	Yes	A0001	Filters on the Primary Sites supplier code for Produce Specifications or the Supplier code for all other types of Specification.

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example	Validation
site	Optional	string	Yes	A0001-001	Filters on the code of the Sites in the Primary Sites table of the Product Specification. Use the full site code incorporating the Supplier Code, such as A0001-001.
fromDate	Optional	string	No	2013-06-10T09:00:00	Can be used in conjunction with toDate to form a date range or can be specified individually.
toDate	Optional	string	No	2013-06-10T09:00:00	Can be used in conjunction with fromDate to form a date range or can be specified individually.

For example, to retrieve the Main Details and Nutrition sections for active Food specifications where the product number is ABC001 from a specific supplier/site, the request would be:

```
<request>
  <batchsize>100</batchsize>
  <offset>0</offset>
  <specStatus>ACTIVE</specStatus>
  <specType>FOOD</specType>
  <countryWhereSold>UK</countryWhereSold>
  <productNumber>ABC001</productNumber>
  <language>en_GB</language>
  <sectionType>MAIN_DETAILS</sectionType>
  <sectionType>NUTRITION</sectionType>
  <supplier>A0001</supplier>
  <site>A0001-0001</site>
  <fromDate>2016-01-01T01:00:00</fromDate>
  <toDate>2016-10-01T01:00:00</toDate>
</request>
```

If no filtering is required, omit the parameter from the call. For example, if all specification types are to be included, omit the specType element (rather than including it with no value specified).

If multiple values for a parameter are to be included, repeat the parameter in the call. For example, if Main Details and Nutrition section types are to be returned, include two specificationSectionType elements in the call, one for MAIN_DETAILS and one for NUTRITION.

Searching with either fromDate or toDate specified, as well as one or more specStatus, filters the specifications on the Status Change History. Use this to retrieve specifications that changed to a specific status during a date range.

Searching with either fromDate or toDate specified without specStatus filters on the specification's last amended date.

When filtering with site codes, the following rules apply:

- For non-unique site codes, for example passing a site code filter which finds more than one site with the same code: specifications from all sites with the site code are returned.
- For non-unique site codes with a uniquely identifying supplier code, for example passing a site code and a supplier code: specifications from sites with site codes linked to the supplier code are returned.
- For unknown site codes, for example passing a site code which does not find any matching sites: no specifications are returned.
- For combination of unique, non-unique, and unknown site codes, for example passing multiple different site codes, which find a mix of more than one site with the same code, a single matching site, and no matching site: specifications from all sites with the relevant site codes are returned.
- If no filters, for example when not passing in any site code data: specifications are returned based upon the other parameters.

Response Details

For a successful response, XML is returned with a GetProductSpecificationServiceResponse root element containing details of the specifications that match the selection criteria.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*, and *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
	<errorCode>NOFILTER <errorMessage>No Filter Specified, please try again	No parameter provided
batchSize	<errorCode>INVALIDBATCHSIZE <errorMessage>The Batch Size must be between 1 and 100	Invalid batch size No batch size provided No batch size tag
specStatus	<errorCode>INVALIDSPECSTATUS<error rMessage>The Status <###> does not exist	Spec Status not found Spec Status is blank
specType	<errorCode>INVALIDSPECTYPE <errorMessage>The Spec Type <###> does not exist	Spec Type not found Spec Type is blank
countryWhereSold	<errorCode>INVALIDCOUNTRYWHERE SOLD <errorMessage>The Country Where Sold >###> does not exist	Country not found Country is blank

Element	Message	Meaning
language	<errorCode>INVALIDLANGUAGE	Language not found
	<errorMessage>The Language <###> does not exist	Language is blank
sectionType	<errorCode>INVALIDSECTIONTYPE	Section type not found
	<errorMessage>The Section Type does not exist	Section type is blank
fromDate	HTTP 400 Bad Request	Invalid date/time format
toDate	HTTP 400 Bad Request	Invalid date/time format

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Product Specification. Use this function to determine when a specification's details were last updated.

Endpoint address: /services/rest/specification/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/specification/97

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested specification.

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Product Specification to return with id:<###>	Invalid {id} - not found

Create Record

Description

Creates a new Product Specification record. Use this function to create a new specification in Brand Compliance based on data sourced from the external system.

Dependencies: If linking to a Product Record, the active Product Record must be present and in the application and its record ID obtained; the Supplier and Site (and associated Users, Contacts, and Business Categories) must be present in the application and the record IDs obtained. For more information, see [Dependencies](#).

Endpoint address: /services/rest/specification **HTTP method:** POST

Request Details

The body of the request contains a ProductSpecificationFullDTO to specify the detail of the specification to create. Compared to retrieving a specification (which uses the same ProductSpecificationFullDTO type), this request is much shorter. Only the attributes that are to be populated on the created specification need to be included. As a minimum, this must include the fields shown in the following table.

Product Specification Mandatory Fields

Field Name	Element Name
Specification Name	title
Legislation	legislation
Pack Copy Language	packCopyLanguage / code
Specification Type	specTypeFormat / code
Specification Number (unique)	specNumber
Version	specVersion
Status	productSpecificationStatus / status
Multi-pack Specification	isMultipack
Main Details Section (container)	specificationSectionDetail/specificationSectionFoodMainDetailsSection
Deleted Record	deleted (Set to false)

 **Note:**

These fields represent the minimum necessary to create a specification. Various other fields will be mandatory in order to then progress the specification through its workflow.

The Main Details Section "container" is necessary to create the specification's Main Details section. For specification types other than Food, the specificationSectionFoodMainDetailsSection will be alternatively named accordingly.

To ensure a valid unique business key code is automatically assigned to the record being created, a value of zero must be passed in the <code> element of the XML when submitting the POST request.

Assigning the Supplier and Contacts

As described in *Dependencies* above, if the specification is to be linked to a supplier and contact users, the necessary record IDs must be obtained and populated when creating the specification (or updated after creation).

When a Product Record is created through the application UI and is linked to a Product Specification, the system automatically assigns the supplier, site, and contacts to the specification. When created through the API, these links must be formed by providing the appropriate record IDs.

For a specification to be assigned to a supplier and site, it must also be linked to a Product Record. A Supplier must exist and have at least one Site assigned to it; a Product Record must exist and have the Supplier and Site assigned to it. The record IDs of the Supplier, Site, and Product Records must be obtained using the GET method of the respective APIs, and inserted in the XML message when creating or updating the Product Specification.

For users to be assigned to a specification as contacts, the record IDs of the Contacts and Users must be obtained using the GET method of the respective APIs and inserted into the XML message (per contact type) when creating or updating the Product Specification.

The same applies for other values that may be derived from the Product Record, such as Business Category and Country Where Sold.

Retailer Contacts do not appear in the Specification API's XML; they are derived in the UI from the linked Product Records.

Example Request XML

This example shows the minimum requirement to be able to create a specification.

```
<ns0:productSpecificationFullDTO xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full" xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple">
  <ns0:isMultipack>>false</ns0:isMultipack>
  <ns0:legislation>MODULE_TYPE_EU</ns0:legislation>
  <ns0:packCopyLanguage>
    <ns1:code>en_GB</ns1:code>
  </ns0:packCopyLanguage>
  <ns0:specNumber>8925</ns0:specNumber>
```

```

<ns0:specTypeFormat>
  <ns1:code>FOODUK</ns1:code>
</ns0:specTypeFormat>
<ns0:specVersion>1</ns0:specVersion>
<ns0:specificationSectionDetail>
  <ns0:specificationSectionFoodMainDetailsSection>
  </ns0:specificationSectionFoodMainDetailsSection>
</ns0:specificationSectionDetail>
<ns0:title>API Test Specification</ns0:title>
<ns0:productSpecificationStatus>
  <ns1:status>RETAILER_DRAFT</ns1:status>
</ns0:productSpecificationStatus>
</ns0:productSpecificationFullDTO>
</ns0:productSpecificationStatus>
<ns0:deleted>>false</ns0:deleted>
</ns0:productSpecificationFullDTO>

```

Set the deleted element to false to ensure the specification can be seen in the UI. If omitted, or set to true, the specification will not be visible.

Where the record is linked to another record, such as the Specification Type in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)*, and *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 8 - Product (Produce Specification)* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

For a successful response, an HTTP 200 response is sent with a body containing a ProductSpecificationLink root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Newly created Product Specification's internal ID
recordLink	string	URI to the newly created Product Specification record, for use in a GET request
specNumber	long	Specification Number business key to the newly created Product Specification record
specVersion	int	Specification Version business key to the newly created Product Specification record
title	string	Product Specification's title

Error Responses

If the supplied data does not result in a valid Product Specification (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body

message stating the validation errors. The request should not be reattempted with the same content.

Update Record

Description

Updates an existing Product Specification. Use this function to update a Product Specification's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/specification/{id} **HTTP method:** PUT

Request Details

The body of the request contains a ProductSpecificationFullDTO element to specify the updates to the specification. Compared to retrieving a specification (which uses the same ProductSpecificationFullDTO type), this request is much shorter. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

The request content is similar to that for creating a specification. After the call, the Product Specification record is updated to match the request.

Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the Product Specification record.

The fields in the Product Coverage table (variant name, quantity, and product number) may be updated regardless of the status of the specification. If the specification is at a draft status, the Product Coverage parent element is <ns0:productCovered> (the Product Record); otherwise, it is <ns0:specificationProductCovered> (a *snapshot* of the data held on the Product Specification).

Cascade update of Product/Article Number:

Where there is a one-to-one relationship, it is possible for the Retailer Product Number (also known as the Article number) in the Product Coverage table to be automatically updated in the Specification when it is updated in the related Product Record (or vice versa for Produce Specifications). This is of use where the product number is assigned to the Product Record, typically from an external system, after the Specification has been created. Use of the feature is controlled by system parameters.

In order for the cascade update to occur, the user must form a unique key using the Alternative Product Number and Division fields in the Product Coverage table. The cascade only updates the Retailer Product Number; it does not add or remove rows in the Product Coverage table; if the Alternative Product Number or Division change, a new version of the Product Record must be created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data*

Dictionary, Volume 6 - Product (FNF Specification), Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification), and Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 8 - Product (Produce Specification) for details of their mapping to the fields within the Brand Compliance UI.

Advanced Packaging Section

When maintaining the Advanced Packaging section using the UI, when a row is added to the Packaging Component table, if its Material or Level is configured to require a recycling advice icon, a corresponding row is automatically added to the Recycling Advice table to capture the details for that Component and Material/Level Component (on clicking the *Refresh Packaging Data* button). The parent/child relationship is formed automatically by the system, where the child Recycling Advice row references its parent Packaging Component row's Global Id. When updating Advanced Packaging section using the API, the global id relationship must also be maintained.

When adding to the Packaging Components table, there are two options:

1. Omit the global id, to have the system allocate it. For this method, it is not possible to add to the Recycling Advice table at the same time. It requires a secondary update after retrieving the globalId the system has assigned.
2. Specify the global id on the Packaging Components record. This method allows entries to be added to the Packaging Component and Recycling Advice at the same time, but requires a globalId to be supplied in the XML.

Further details are as follows:

- The basic structure of the XML that represents the Packaging Components and Recycling Advice tables (the example below is for Food, but applies to all specification types):

```
<specificationSectionFoodAdvancedPackagingSection>
  <advancedPackagingComponentDetails> - contains <globalId> to uniquely
  identify the row
  <advancedPackagingRecyclingAdviceDetails>
    <advancedPackagingComponentDetail> - contains <entityGlobalId> to
    reference the parent <globalId>
```

- When adding a child `advancedPackagingComponentDetail` record, it is not possible to create a child `advancedPackagingRecyclingAdviceDetails` record at the same time, unless `<globalId>` is populated for the `<advancedPackagingComponentDetails>` record.
- Validation will prevent the generation of an `advancedPackagingRecyclingAdviceDetails` record when its parent (`advancedPackagingComponentDetail`) global id is not specified, and will return code #417, with an appropriate error message instead.
- When `globalId` in the `<advancedPackagingComponentDetails>` is omitted, the system will automatically assign a global id to the `<advancedPackagingComponentDetails>`, as previously.
- When generating an `advancedPackagingRecyclingAdviceDetails` record, the system automatically controls the creation of its child `<advancedPackagingComponentDetail>` reference data, from the Parent `<advancedPackagingComponentDetails>` `<globalId>` (thereby maintaining the same parent/child relationship as if the process was initiated through the UI).

- If the global id of an `advancedPackagingComponentDetails` record is modified, the child `advancedPackagingRecyclingAdviceDetails` records will be automatically updated accordingly, therefore always maintaining the correct reference to the parent entity.
- The `advancedPackagingRecyclingAdviceDetails` records' child `<advancedPackagingComponentDetail>` reference data is now read only.

An outline example of the process is as follows:

1. Assuming the Advanced Packaging Section exists, with empty `advancedPackagingComponentDetails` and `advancedPackagingComponentDetail` (the bare minimal data), retrieve the specification XML.

```
<ns1:productSpecificationFullDTO>
  <ns1:specificationSectionDetail>
    <ns1:specificationSectionFoodAdvancedPackagingSection>
```

2. Add `advancedPackagingComponentDetails`.

```
<ns1:productSpecificationFullDTO>
  <ns1:specificationSectionDetail>
    <ns1:specificationSectionFoodAdvancedPackagingSection>
      <ns1:advancedPackagingComponentDetails>
        <ns1:specType>FOOD</ns1:specType>
        <ns1:specTypeText>Food</ns1:specTypeText>
      </ns1:advancedPackagingComponentDetails>
```

3. Submit the update.
4. Re-retrieve the specification XML.

```
<ns1:productSpecificationFullDTO>
  <ns1:specificationSectionDetail>
    <ns1:specificationSectionFoodAdvancedPackagingSection>
      <ns1:advancedPackagingComponentDetails>
        <ns1:globalId>fbe43b25-ae66-492e-a596-cbe8eabacdaa</
ns1:globalId>
        <ns1:specType>FOOD</ns1:specType>
        <ns1:specTypeText>Food</ns1:specTypeText>
        <ns1:id>791</ns1:id>
      </ns1:advancedPackagingComponentDetails>
```

5. Add `advancedPackagingRecyclingAdviceDetails`.

```
<ns1:productSpecificationFullDTO>
  <ns1:specificationSectionDetail>
    <ns1:specificationSectionFoodAdvancedPackagingSection>
      <ns1:advancedPackagingComponentDetails>
        <ns1:advancedPackagingRecyclingAdviceDetails>
          <ns1:specType>FOOD</ns1:specType>
          <ns1:specTypeText>Food</ns1:specTypeText>
        <ns1:advancedPackagingRecyclingAdviceDetails>
          <ns1:globalId>fbe43b25-ae66-492e-a596-cbe8eabacdaa</
ns1:globalId>
          <ns1:specType>FOOD</ns1:specType>
```

```

    <ns1:specTypeText>Food</ns1:specTypeText>
    <ns1:id>791</ns1:id>
  </ns1:advancedPackagingComponentDetails>

```

6. Re-retrieve the specification XML. This will automatically add `advancedPackagingComponentDetail`.

```

<ns1:productSpecificationFullDTO>
  <ns1:specificationSectionDetail>
    <ns1:specificationSectionFoodAdvancedPackagingSection>
      <ns1:advancedPackagingComponentDetails>
        <ns1:advancedPackagingRecyclingAdviceDetails>
          <ns1:advancedPackagingComponentDetail>
            <ns1:entityGlobalId>fbe43b25-ae66-492e-a596-cbe8eabacdaa</
ns1:entityGlobalId>

<ns1:entityReferenceClass>com.micros.creations.core.domain.AdvancedPackagi
ngComponentDetail</ns1:entityReferenceClass>
  <ns1:id>735</ns1:id>
  </ns1:advancedPackagingComponentDetail>
  <ns1:specType>FOOD</ns1:specType>
  <ns1:specTypeText>Food</ns1:specTypeText>
  <ns1:id>545</ns1:id>
  </ns1:advancedPackagingRecyclingAdviceDetails>
  <ns1:globalId>fbe43b25-ae66-492e-a596-cbe8eabacdaa</ns1:globalId>
  <ns1:specType>FOOD</ns1:specType>
  <ns1:specTypeText>Food</ns1:specTypeText>
  <ns1:id>791</ns1:id>
</ns1:advancedPackagingComponentDetails>

```

Opening the specification in the UI, the Advanced Packaging section shows the Packaging Component table now has a single row (with data as '-'), and also the Recycling Advice table has a single row (again with data as '-'). To define the relevant columns of data for these tables, it is of course necessary to define the appropriate XML data accordingly.

Response Details

If successful, an HTTP 200 response is sent with a body containing a `ProductSpecificationLink` element. The `ProductSpecificationLink` element consists of the returned elements shown in the following table.

Returned Elements

Element	Type	Description
<code>recordId</code>	long	Product Specification's internal ID
<code>recordLink</code>	string	URI to the Product Specification record, for use in a GET request
<code>code</code>	string	Code business key to the Product Specification
<code>specNumber</code>	long	Specification Number business key to the Product Specification record
<code>specVersion</code>	int	Specification Version business key to the Product Specification record
<code>title</code>	string	Specification's title

Error Responses

If the supplied data does not result in a valid Product Specification (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating an Internal Error Id. The request should not be reattempted with the same content.

TaskRestService

This section describes the API for managing user tasks. The following function is available:

- [List of Tasks](#): Retrieves a list of user tasks

List of Tasks

Description

Retrieves a list of tasks for a user in the given language. Use this function to retrieve a list of a specific user's entries in their Brand Compliance Task Manager app. Parameters are used to specify the name of the user, and the language of the returned task details.

Endpoint address: /services/rest/task **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
userId	Mandatory	string	No	John Smith
language	Mandatory	string	No	en_GB

Example URL

.../services/task/?language=en_GB

The userId parameter is the login ID of the user for which the tasks list is to be retrieved. The language parameter is the code of the language record/locale in which to retrieve the task details.

Response Details

For a successful response, XML is returned with a TaskDTOList root element containing a tasks element for each matched task. The root element consists of the elements in the following table.

Returned Elements

Element	Type	Description
message	string	Name of the task, in the language specified
messageId	string	A language-agnostic identifier for the task
myCreationsLink	string	A URI to the Brand Compliance system, which will open the list of items for that task
taskItemCount	int	The number of items in the task

Error Messages

Element	Message	Meaning
userId	userId required	User not provided
userId	Cannot find user with login id <###>	User not found
language	language required	Language not provided
language	Invalid locale format: <###>	Language not found

UrgentItemsRestService

This section describes the API for retrieving a count of a user's urgent items. The following function is available:

- [Number of Urgent Items](#): retrieves the number of urgent items pending for a user

Number of Urgent Items

Description

Retrieves a count of the number of Urgent Item tasks for a user. Use this function to determine the number of pending urgent tasks a specific user has in their Brand Compliance Urgent Item Manager app. A parameter is passed to specify the name of the user.

Endpoint address: /services/rest/urgentItems **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
userId	Mandatory	string	No	John Smith

The userId parameter is the login ID of the user for which the number of pending urgent items are to be retrieved.

Response Details

For a successful response, XML is returned with an UrgentItemsModel root element containing an itemCount element that specifies the number of Urgent Items.

Error Messages

Element	Message	Meaning
userId	User not provided: userId required	User not provided
userId	Cannot find user with login id <###>	User not found

ArtworkRestService

This section describes the API for Artwork integration. The following functions are available:

- [Started Activities](#): retrieves a list of Artwork Activities that have started
- [Update Record](#): updates existing Artwork Activities

Started Activities

Description

Retrieves a list of Project Activities that have their useMyArtwork flag set, and their status has changed to Started within the specified date range. This function is used for the integration of Brand Compliance with an external Artwork Management system.

Endpoint address: /services/rest/artwork/started **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	0
pageSize	Optional	int	No	30
fromDate	Mandatory	string	No	2014-12-30 23:59:59
toDate	Mandatory	string	No	2015-12-30 23:59:59

Response Details

For a successful response, XML is returned with a CreateArtworkRequestList root element containing an entries element for each matching Artwork project activity. A totalRecords element identifies the number of records returned. Separate activityDetails and project elements group the returned activity and project data. The elements consist of the elements in the following tables.

Returned Elements - activityDetails

Element	Type	Description
activityName	string	Project activity's title
activityRecordId	long	Project activity record's internal ID
actualStartDate	string	Actual start date of the project activity
checkpointOnly	Boolean	Is the project activity a checkpoint only type
criticalPath	Boolean	Is the project activity a critical path type
duration	int	Duration of the project activity
isAutoGate	string	Project's type of auto gate
isGate	Boolean	Is the project activity a gate type
isKey	Boolean	Is the project activity a key type
projectId	long	Project record's internal ID
projectTitle	string	Project's title
proposedEndDate	string	Proposed end date of the project activity
proposedStartDate	string	Proposed start date of the project activity
responsibleUserRoles	string	Role names of the responsible users
sequenceNumber	string	Project activity's sequence number
statusCode	string	Code of the project activity's status
subStatusCode	string	Code of the project activity's sub-status

Returned Elements - projects

Element	Type	Description
brand	string	Name of the project's brand
categories	string	Names of the project's categories (the lowest level of the selected category - may be multiples)
masterProject	Boolean	If the project is a master type
newCategoryComments	string	Category comments
packaging	string	Packaging details
productRangeInformation	string	Project's product range details
projectConcept	string	Project's business key ID
projectId	string	Project's business key ID
projectManager	string	Name of the project's project manager
projectRecordId	long	Project record's internal ID
projectTitle	string	Project's title
projectType	string	Type of project
proposedProducts	string	Project's proposed products
specType	string	Type of project's product specification

Element	Type	Description
status	string	Status of the project
subBrand	string	Name of the project's sub-brand
supplier	string	Name of the supplier associated to the project
site	string	Name of the site associated with the project
targetConsumer	string	Project's target consumer details
teamDetails/role	string	Name of the team role
teamDetails/users	string	Name of the team users
templateFolder	string	Name of the project template folder
templateType	string	Type of the project's template
templateUsed	string	Name of the project's template

Error Messages

Element	Message	Meaning
fromDate	fromDate parameter required	From date not provided
toDate	toDate parameter required	To date not provided
fromDate	fromDate and toDate parameters are required	From and To dates not provided
toDate	From date must be before or equal to To date	From date is after To date
fromDate	HTTP 417 <errorMessage>	Not a valid date, whereby <errorMessage> will identify the issue For example: IllegalInstantException: Cannot parse "2018-03-25 01:00:00": Illegal instant due to time zone offset transition (Europe/London) In this example, due to the clocks In this example, due to the clocks moving forward (in the server's time-zone), the passed in date is invalid
toDate	HTTP 417 <errorMessage>	Not a valid date, whereby <errorMessage> will identify the issue (see example above)

Update Record

Description

Updates the sub-status of existing Artwork Project Activities. This function is used for the integration of Brand Compliance with an external Artwork Management system, to update the status of an Artwork activity from the external system.

Endpoint address: /services/rest/artwork/update **HTTP method:** POST

Request Details

The body of the request contains an `activityUpdateRequest` element consisting of the elements shown in the following table.

Request Elements

Element	Type	Description
<code>activityName</code>	string	Project activity's name
<code>activityRecordId</code>	long	Project activity record's internal ID
<code>projectId</code>	string	ID business key to the Project record
<code>projectRecordId</code>	long	Project record's internal ID
<code>subStatusCode</code>	string	Code business key to the activity's sub-status

After the call, the Project Activity record's sub-status is updated to match the request.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an `ArtworkActivityLink` element. The `ArtworkActivityLink` element consists of the elements shown in the following table.

Returned Elements

If successful, an HTTP 200 response is sent.

Element	Type	Description
<code>recordId</code>	long	Project activity's internal ID
<code>recordLink</code>	string	URI to the Product Activity record, for use in a GET request
<code>code</code>	string	Code business key to the Project Activity record
<code>title</code>	string	Project activity's title

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

The following conditions may prevent a successful update:

- An invalid project record id or activity record id.
- The activity sub-statuses not being configured in Brand Compliance (including the general sub-statuses COMPLETED, MESSAGE SENT, MESSAGE ACCEPTED, and MESSAGE FAILED).
- The activity's template not being flagged as an artwork type, or having the permitted activity sub-statuses assigned, prior to the activity being created (a snapshot of the template settings is stored on the Activity record on creation).

BusinessCategoryService

This section describes the API for managing Business Categories. The following functions are available:

- [List of Values](#): retrieves a list of categories
- [Retrieve Record by ID](#): retrieves a Business Category record using its unique identifier
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Business Category record was last updated
- [Create Record](#): creates a new Business Category record
- [Update Record](#): updates an existing Business Category record
- [Delete Record](#): deletes an existing Business Category record

List of Values

Description

Retrieves a list of categories in a paged list. Use this function to retrieve a simple list of categories and IDs, or to locate Business Category record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/businessCategory **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
code	Optional	string	Yes	POTATOES_LOOSE
parentCode	Optional	string	Yes	POTATOES
entityDescription	Optional	string	Yes	Loose Potatoes
specificationType	Optional	string	Yes	FOOD~PRODUCE
topLevelCategory	Optional	Boolean	No	TRUE
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

```
.../services/rest/businessCategory/?offset=2&pageSize=20 .../services/rest/
businessCategory/?code=POTATOES_LOOSE .../services/rest/businessCategory/?
entityDescription=Potato%
```

The code parameter will attempt to find a single category with a matching code. The parentCode parameter will find any categories whose parent has the given code.

The entityDescription matches any category whose description (irrespective of language) matches the value given; this is just the description of the category in question and does not include those of parents.

The specificationType parameter is a tilde (~) separated list of types.



Note:

Including a value in the specificationType filter will exclude any categories for which no specification type has been selected.

The topLevelCategory parameter determines whether only top-level categories (those with no parent) will be included in the results.

Response Details

For a successful response, XML is returned with a BusinessCategoryLinkList root element containing an entries element for each matched category. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Business Category record's internal ID
recordLink	string	URI to the BusinessCategoryService Retrieve record service for this category
code	string	Code business key to the Business Category record
entityDescription	string	Category's name
path	string	Category's full path (including parent levels - separated by '/')

Error Messages

Element	Message	Meaning
specificationType	<###> is not a valid Specification Type	Specification type not found
pageSize	Error Code: INVALIDPAGESIZE	Page Size must be between 1 and 100
offset	Error Code: INVALIDOFFSET	Offset must be a positive integer
code	Error Code: INVALIDBUSINESSCATEGORY	Invalid Business Category

Element	Message	Meaning
parentCode	Error Code: INVALIDBUSINESSCATEGORY	Invalid Business Category
specificationType	Error Code: INVALIDSPECIFICATIONTYPE	Invalid SpecificationType
topLevelCategory	Error Code: INVALIDBOOLEAN	Invalid topLevelCategory value Permitted values (not case-sensitive) are: true; yes; 1; false; no; 0

Retrieve Record by ID

Description

Retrieves a single Business Category record's details using the record's unique ID. Use this function to retrieve the full details of an individual category.

Endpoint address: /services/rest/businessCategory/{id} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/businessCategory/105

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a BusinessCategoryFullDTO root element containing the individual attributes of the requested Business Category record. If an ID is not specified, a list of all categories is returned (per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not found	Invalid {id} - not numeric
id	Invalid record id	Invalid {id} - not found

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Business Category record. Use this function to determine when a category's details were last updated.

Endpoint address: /services/rest/businessCategory/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/businessCategory/105

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Business Category record. For example:

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not found	Invalid {id} - not numeric

Create Record

Description

Creates a new Business Category record. Use this function to create a new category in Brand Compliance based on data sourced from the external system.

Dependencies: If a lower-level category, the parent Business Category must be present in the application and its record ID obtained. For more information, see [Dependencies](#).

Endpoint address: /services/rest/businessCategory **HTTP method:** POST

Request Details

The body of the request contains a BusinessCategoryFullIDTO to specify the details of the category to create. Compared to retrieving a user (which uses the same BusinessCategoryFullIDTO type), this request is much shorter. Only the attributes that are to be populated on the created Business Category record need to be included. As a minimum, this must include the fields shown in the following table:

Business Category Mandatory Fields

Field Name	Element Name
Code	code
Description	description
Parent Code	parentCode
Parent or Child level	topLevelCategory

Field Name	Element Name
Deleted Record	deleted (Set to false)
Path	path (The category's full path descriptions, concatenated and separated by /)

**Note:**

If creating a top level category, `topLevelCategory` must be set to true; if creating a lower level category, `topLevelCategory` must be set to false, and `parentCode` becomes mandatory (the parent category's code).

Example Request XML

```
<ns0:businessCategoryFullDTO xmlns:ns0="http://www.micros.com/creations/core/
domain/dto/vlp0/full" xmlns:ns1="http://www.micros.com/creations/core/domain/dto/
vlp0/simple">
  <ns0:code>X1</ns0:code>
  <ns0:localeData>
    <ns0:description>Category X - Level 1</ns0:description>
    <ns0:path>Category X - Level 1</ns0:path>
  </ns0:localeData>
  <ns0:topLevelCategory>true</ns0:topLevelCategory>
  <ns0:deleted>false</ns0:deleted>
</ns0:businessCategoryFullDTO>
```

Set the `deleted` attribute to false to ensure the record can be seen in the UI. If omitted or set to true, it will exist, but will not be visible.

The following example adds a second level category to the above top-level parent category:

```
<ns0:businessCategoryFullDTO xmlns:ns0="http://www.micros.com/creations/core/
domain/dto/vlp0/full" xmlns:ns1="http://www.micros.com/creations/core/domain/dto/
vlp0/simple">
  <ns0:code>X2</ns0:code>
  <ns0:localeData>
    <ns0:description>Category X - Level 2</ns0:description>
    <ns0:path>Category X - Level 1 / Category X - Level 2</ns0:path>
  </ns0:localeData>
  <ns0:parentCode>X1</ns0:parentCode>
  <ns0:topLevelCategory>false</ns0:topLevelCategory>
  <ns0:deleted>false</ns0:deleted>
</ns0:businessCategoryFullDTO>
```

The value of the code element must be unique.

The description and path elements are locale-dependent, so are contained within a `localeData` element, with a locale element supported language code, for example:

```
<ns0:localeData>
  <ns0:description>Cheese</ns0:description>
  <ns0:locale>en_GB</ns0:locale>
</ns0:localeData>

<ns0:localeData>
  <ns0:description>Fromage</ns0:description>
```

```
<ns0:locale>fr</ns0:locale>
</ns0:localeData>
```

The hierarchy of category levels is maintained through the parent code, linking a category to its immediate parent. All levels except the top level must therefore have a valid parent code specified.

The number of levels in the hierarchy is defined in the Brand Compliance Admin area.

Categories may be assigned to specific product specifications, or available for use by all; if specified, the specification type must match those assigned to its parent categories.

Where the record is linked to another record, such as the Locale in this case, the business key must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

For a successful response, an HTTP 200 response is sent with a body containing a BusinessCategoryLink root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Newly created Business Category record's internal ID
recordLink	string	URI to the newly created Business Category record, for use in a GET request
code	string	Code ID business key to the newly created Business Category record
entityDescription	string	Category's description

Error Responses

If the supplied data does not result in a valid Business Category (such as a missing mandatory field), an HTTP 417 response is sent with an XML body message stating the validation errors. The request should not be reattempted with the same content.

Error Messages

Element	Message	Meaning
code	Code {0} has already been used	Codes must be unique
parent	The Parent Code cannot be blank when the Top Level Category flag is false	A parent code must be specified unless the category is a top level category
topLevelCategory	The Top Level Category flag cannot be true when the Parent Code has a value	A category cannot be a top level category and have a parent
description	Description must be provided	Descriptions are mandatory

Element	Message	Meaning
code	The parent Business Category with code {0} cannot be found	The parent category must exist
parent	A new Business Category cannot be added to the Business Category with the code{0} because it will fall outside of the Business Category Hierarchy	Categories can only be added within the bounds of the Business Category Hierarchy as defined in Brand Compliance's Admin/System Control/ Business Category Configuration
specificationType	{0} is not a valid Specification Type(s)	The specification type or types must be valid
specificationType	The Specification Types must be a subset of the parent Business Category's Specification Types: {0}	This message is issued when no specification types are specified on a child, but there are specification types assigned to the parent It lists the specification types selected on the parent
specificationType	The Business Category Specification Types {0} are not a subset of the parent Business Category Specification Types {1}	This message is issued when the category's specification types have not all be selected on the parent The child's specification types are listed in {0} and the parent's specification types are listed in {1}

Update Record

Description

Updates an existing Business Category record. Use this function to update a category's details in Brand Compliance based on data sourced from the external system, or to move a category to appear beneath a different parent category.

Endpoint address: /services/rest/businessCategory/{id} **HTTP method:** PUT

Request Details

The body of the request contains a BusinessCategoryUpdateDTO to specify the updates to the Business Category record.

The request content is similar to that for creating a category, but does not include the child categories link. If children are to be managed, then a separate call is required for each child. As a minimum, the values specified as mandatory for the Create Record function (see above) must be included.

After the call, the Business Category record is updated to match the request.



Note:

When updating records, all values must be included. If a value or element is omitted from the request, the field contents will be cleared on the Business Category record.

The id element is used to locate the category to update.

The hierarchy of category levels is maintained through the parent code, linking a category to its immediate parent. All levels except the top level must therefore have a valid parent code specified.

The number of levels in the hierarchy is defined in the Brand Compliance Admin area.

Categories may be assigned to specific product specifications, or available for use by all; if specified, the specification type must be match those assigned to its parent categories.

Categories may be moved to the same level within another part of the hierarchy. When a category is moved, its children are automatically moved.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 1 - Framework* for details of their mapping to the fields within the Brand Compliance UI.

The body of the request contains a BusinessCategoryUpdatedDTO element to specify how the category should appear after the update.

Response Details

If successful, an HTTP 200 response is sent with a body containing a BusinessCategoryLink element. The BusinessCategoryLink element consists of the returned elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Business Category record's internal ID
recordLink	string	URI to the Business Category record, for use in a GET request
code	string	Code ID business key to the Business Category record
entityDescription	string	Category's description
path	string	Category's full path (including parent levels - separated by '/')

Error Responses

If the supplied data does not result in a valid Business Category (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Error Messages

Element	Message	Meaning
recordId	Invalid record id	The ID used to call the PUT process does not relate to an existing record
parent	The Parent Code cannot be blank when the Top Level Category flag is false	A parent code must be specified unless the category is a top level category
topLevelCategory	The Top Level Category flag cannot be true when the Parent Code has a value	A category cannot be a top level category and have a parent

Element	Message	Meaning
code	The parent Business Category with code {0} cannot be found	The parent category must exist
code	A new Business Category cannot be added to the Business Category with the code{0} because it will fall outside of the Business Category Hierarchy	Categories can only be added within the bounds of the Business Category Hierarchy as defined in Brand Compliance's Admin/System Control/ Business Category Configuration
parent	Business Category cannot be moved from a parent at level {0} to a parent at level {1}	Categories can only be moved between parent categories at the same level in the hierarchy
specificationType	{0} is not a valid Specification Type(s)	The specification type(s) must be valid
specificationType	The Specification Types must be a subset of the parent Business Category's Specification Types: {0}	This message is issued when no specification types are specified on a child but there are specification types assigned to the parent It lists the specification types selected on the parent
specificationType	The Business Category Specification Types {0} are not a subset of the parent Business Category Specification Types {1}	This message is issued when the category's specification types have not all be selected on the parent The child's specification types are listed in {0} and the parent's specification types are listed in {1}

Delete Record

Description

Deletes an existing Business Category record, along with any associated child categories. Use this function to remove a single category or a category and all its lower level categories.

Endpoint address: /services/rest/businessCategory/{id} **HTTP method:** DELETE

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to delete.

Response Details

If the Business Category is deleted successfully, an HTTP 200 response is sent.

Error Responses

If a Business Category cannot be deleted due to it being referenced by another record (or a child of the category being referenced by another record), an HTTP 417 response is sent with an ErrorMessage/Message XML body containing the message: "Could not delete: with a URI link to the category."

Error Messages

Element	Message	Meaning
id	HTTP 417 Could not delete: {URI}	Category is referenced by another record
id	HTTP 404 Not found	Invalid {id} - not numeric
id	Invalid record id for deletion	Invalid {id} - not found

AuditRestService

This section describes the API for managing audit and visits. The following functions are available:

- [List of Values \(Audit\)](#): retrieves a list of audits and visits
- [Retrieve Record by ID \(Audit\)](#): retrieves an Audit or Visit record using its unique identifier
- [Retrieve Record by Business Key \(Audit\)](#): retrieves an Audit or Visit record using its business key
- [Check Record Modification Timestamp \(Audit\)](#): retrieves the timestamp when an Audit or Visit record was last updated
- [Create Record \(Audit\)](#): creates a new Audit or Visit record
- [Update Record \(Audit\)](#): updates an existing Audit or Visit record
- [List of Values \(Checklist\)](#): retrieves a list of checklists
- [Retrieve Record by ID \(Checklist\)](#): retrieves a Checklist record using its unique identifier
- [Retrieve Record by Business Key \(Checklist\)](#): retrieves a Checklist record using its business key
- [Create Record \(Checklist\)](#): creates a new Checklist record
- [Update Record \(Checklist\)](#): updates an existing Checklist record
- [Delete Record \(Checklist\)](#): deletes an existing Checklist record

List of Values (Audit)

Description

Retrieves a list of Audits or Visits in a paged list. Use this function to locate Audit or Visit record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/audit **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39
status	Optional	string	Yes	Scheduled~In Progress
code	Optional	string	No	2001

Example URL

.../services/rest/audit/?offset=2&pageSize=20

Response Details

For a successful response, XML is returned with an AuditVisitLinkList root element containing an entries element for each matched audit or visit. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Audit/Visit record's internal ID
recordLink	string	URI to the AuditRestService Retrieve record service for this audit/visit
code	string	Audit/Visit's code business key
dueDate	string	Audit/Visit's due date
siteCode	string	Audit/Visit's site code
supplierCode	string	Audit/Visit's supplier code
templateCode	string	Audit/Visit's template code

Error Messages

Element	Message	Meaning
pageSize	Error Code: INVALIDPAGESIZE	Page Size must be between 1 and 100

Retrieve Record by ID (Audit)

Description

Retrieves a single Audit or Visit record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual audit or visit.

Endpoint address: /services/rest/audit/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (~) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/audit/105

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of an AuditFullDTO root element containing the individual attributes of the requested Audit or Visit record. If an ID is not specified, a list of all audits/visits is returned (per the List of Values function).

File Structure:

The main elements of the auditFullDTO root element:

- auditTemplateSnapshot and Template - the settings from the associated template.
- nonConformances - If the audit/visit has any non conformances/issues raised against it, they appear within a nonConformances element - a separate element for each.
- supplier and site - details of the supplier and site that the audit/visit is related to.
- udfData - the contents of any user-defined custom fields associated to the Audit/Visit record. nonConformances may also contain udfData elements, if the Non Conformance record has user-defined custom fields configured.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Audit to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key (Audit)

Description

Retrieves a single Audit or Visit record's details using its business key (code). Use this function to retrieve the full details of an individual audit or visit using its key code.

Endpoint address: `/services/rest/audit/byKey/{code}` **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the `{code}` parameter that determines the record to retrieve.

Example URL

`.../services/rest/audit/byKey/110`

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return an AuditFullDTO Element Message containing the individual attributes of the requested Audit or Visit record.

Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a AuditFullDTO root element containing the individual attributes of the requested Audit or Visit record.

File Structure:

The main elements of the auditFullDTO root element:

- `auditTemplateSnapshot` and `Template` - the settings from the associated template.
- `nonConformances` - If the audit/visit has any non conformances/issues raised against it, they appear within a `nonConformances` element - a separate element for each.
- `supplier` and `site` - details of the supplier and site that the audit/visit is related to.
- `udfData` - the contents of any user-defined custom fields associated to the Audit/Visit record. `nonConformances` may also contain `udfData` elements, if the Non Conformance record has user-defined custom fields configured.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
code	HTTP 404 Not Found	Invalid {code} - blank or not found
code	HTTP 404 Not Found	Invalid {code} - not found

Check Record Modification Timestamp (Audit)

Description

Retrieves the last modification date and time of an Audit or Visit record. Use this function to determine when the audit or visit was last updated.

Endpoint address: /services/rest/audit/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/audit/105

Response

If successful, an HTTP 200 response is sent containing the Last-Modified header to show the last modification date and time of the last update of the requested Audit or Visit record.

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not Found	Invalid {id} - not numeric

Create Record (Audit)

Description

Creates a new Audit or Visit record. Use this function to create a new audit or visit in Brand Compliance based on data sourced from the external system.

Dependencies: The Supplier and Site must be present in the application and its record ID obtained. If assigning a Business Category, the ID of the Business Category record must be present in the application and its record ID obtained. If assigning a Product Technologist or People Present, the users must be present in the application and the record IDs of the User record obtained. If non conformances/issues are to be included, and they are associated to a

specific user of the application, the record IDs of the User record must be obtained. An audit/visit must be associated to an audit/visit template. For more information, see [Dependencies](#).

Endpoint address: /services/rest/audit **HTTP method:** POST

Request Details

The body of the request contains an AuditFullDTO element to specify the detail of the audit or visit to create, which is based on the AuditFullDTO element returned when retrieving an audit/visit. As a minimum, the fields shown in the following table must be populated.

Audit/Visit Mandatory Fields

Field Name	Element Name
Audit/Visit Template	template / id (or code) auditTemplateSnapshot
Audit/Visit Code	code
Lead Technologist	leadTechnicalManager / code
Supplier	supplier / id
Site	site / id
Due Date	dueDate
Record Type	recordType
Status	status / id
From Date	fromDate
To Date	toDate
People Present	peoplePresent / name
Deleted Record	deleted (Set to false)

Note:

If the status is Scheduled, fromDate, toDate, and peoplePresent are not mandatory.

To ensure a valid unique business key code is automatically assigned to the record being created, a value of zero must be passed in the <code> element of the XML when submitting the POST request.

People Present Table:

This table is used to identify the people present during the audit or visit. The options for completing the table depend on the settings in the audit/visit's template:

- The table must contain at least one entry (whether an audit or a visit).
- If a visit or an internal audit, the entry should be a user of the system who has a Technologist role and is set as an approved auditor. The template may have been set to just allow specific auditors.

- If a third-party audit, the entry should be a Certification Body. The template may have been set to just allow specific auditors.
- Rows of free text may be added to the table.

File Structure:

The main elements of the AuditFullDTO root element are shown in the following table:

Summary of AuditFullDTO Elements

Element Name	Description
announced costChargedToSupplier auditTemplateSnapshot	Values from the audit/visit template, required to control the record's behavior when it is progressed within Brand Compliance.
code	The audit/visit's business key.
dueDate fromDate toDate leadTechnical Manager recordType	Values that may be mandatory for the audit/visit to be created.
nonConformances	Container for the non conformance data - a separate element for each non conformance/issue.
supplier	ID of the supplier that the audit/visit is associated to.
site	ID of the site that the audit/visit is associated to.
status	The audit/visit's status.
template	ID of the audit/visit template that the audit/visit is associated to.

Example Request XML

This example shows the minimum requirement to be able to create an In Progress audit or visit.

```
<ns0:auditFullDTO xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full" xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple">
  <ns0:announced>true</ns0:announced>
  <ns0:costChargedToSupplier>false</ns0:costChargedToSupplier>
  <ns0:auditTemplateSnapshot>
    <ns0:allowWorkingOffline>false</ns0:allowWorkingOffline>
    <ns0:allowableScoreOptions>
      <ns1:code>AMBER</ns1:code>
    </ns0:allowableScoreOptions>
    <ns0:allowableScoreOptions>
      <ns1:code>GREEN</ns1:code>
    </ns0:allowableScoreOptions>
    <ns0:auditType>INTERNAL</ns0:auditType>
    <ns0:auditVisibility>OPTIONAL</ns0:auditVisibility>
    <ns0:autoSchedule>false</ns0:autoSchedule>
    <ns0:buyerInformationRequired>true</ns0:buyerInformationRequired>
    <ns0:categoriesRequired>2</ns0:categoriesRequired>
    <ns0:categoryRequired>false</ns0:categoryRequired>
    <ns0:certificationBodiesSelectable>ALL</ns0:certificationBodiesSelectable>
    <ns0:closureDeadline>56</ns0:closureDeadline>
    <ns0:closureDeadlineNoOfDays>0</ns0:closureDeadlineNoOfDays>
    <ns0:commentsNotVisibleToOrganisationRequired>true
  </ns0:auditTemplateSnapshot>
</ns0:auditFullDTO>
```

```

</ns0:commentsNotVisibleToOrganisationRequired>
<ns0:costChargedToSupplier>>false</ns0:costChargedToSupplier>
<ns0:defaultFrequency>12</ns0:defaultFrequency>
<ns0:defaultIssueCompletion>28</ns0:defaultIssueCompletion>
<ns0:extendedDeadline>56</ns0:extendedDeadline>
<ns0:extendedDeadlineNoOfDays>0</ns0:extendedDeadlineNoOfDays>
<ns0:internalAuditorsSelectable>ALL</ns0:internalAuditorsSelectable>
<ns0:isActive>>true</ns0:isActive>
<ns0:localeData>
  <ns0:name>Checklist Audit</ns0:name>
  <ns0:id>49</ns0:id>
</ns0:localeData>
<ns0:mayExternalManagersEditConfig>MAY_NOT_EDIT
</ns0:mayExternalManagersEditConfig>
<ns0:nonConformanceCreationMethod>VIA_CHECKLISTS
</ns0:nonConformanceCreationMethod>
<ns0:organisationType>SITE</ns0:organisationType>
<ns0:recordType>AUDIT</ns0:recordType>
<ns0:scoreAudit>>true</ns0:scoreAudit>
<ns0:scoreRequired>>true</ns0:scoreRequired>
<ns0:stampOrgWithLastAuditDate>>true</ns0:stampOrgWithLastAuditDate>
<ns0:supplierGenerated>>false</ns0:supplierGenerated>
<ns0:useAuditVisitStandards>>false</ns0:useAuditVisitStandards>
<ns0:id>6</ns0:id>
</ns0:auditTemplateSnapshot>
<ns0:dueDate>2017-04-27</ns0:dueDate>
<ns0:fromDate>2017-04-27</ns0:fromDate>
<ns0:leadTechnicalManager>
  <ns1:code>PROD-TECH</ns1:code>
  <ns1:disabled>>false</ns1:disabled>
  <ns1:externalAuthenticationUser>>false</ns1:externalAuthenticationUser>
  <ns1:timeZone>Europe/London</ns1:timeZone>
  <ns1:userType>RETAILER</ns1:userType>
  <ns1:id>12</ns1:id>
</ns0:leadTechnicalManager>
<ns0:nonConformances>
  <ns0:description>&lt;p>Test&lt;/p></ns0:description>
  <ns0:reference>AR01</ns0:reference>
  <ns0:status>
    <ns1:status>OPEN</ns1:status>
  </ns0:status>
  <ns0:type>
    <ns1:code>MAJOR</ns1:code>
  </ns0:type>
  <ns0:code>AR01-11</ns0:code>
</ns0:nonConformances>
<ns0:recordType>AUDIT</ns0:recordType>
<ns0:site>
  <ns1:id>27</ns1:id>
</ns0:site>
<ns0:status>
  <ns1:status>IN PROGRESS</ns1:status>
</ns0:status>
<ns0:supplier>
  <ns1:id>21</ns1:id>
</ns0:supplier>
<ns0:template>
  <ns1:id>8</ns1:id>
</ns0:template>
<ns0:toDate>2017-04-27</ns0:toDate>
<ns0:code>AR1</ns0:code>

```

```
<ns0:deleted>false</ns0:deleted>
</ns0:auditFullDTO>
```

Set the deleted attribute to false to ensure the record can be seen in the UI. If omitted or set to true, it will exist, but will not be visible.

Where the record is linked to another record, such as the Template, the business key or ID must be provided (not the description) in order to form the link between the records. In general, the business key will be the code attribute of the linked record. The supplier and site elements can contain just the ID of the respective record links.

A unique code for the audit/visit must be assigned.

Templates:

The audit/visit is linked to its template using the template and auditTemplateSnapshot elements. The template element can contain just the code or ID of the associated Template record.

The auditTemplateSnapshot element must be completed to provide the parameters that control the audit/visits' behavior as it progresses through its Brand Compliance workflow. If scoring is used, the allowable options can be specified using the code or ID of the glossary record; if none are specified, all options will be available when the user selects the score.

Non Conformances:

If the audit/visit is to be created with non conformances/issues already raised against it, they can be added within a nonConformances element - a separate element for each. A unique code must be assigned to each. The status can be set using its code or ID.

For further information about the process for creating audit, non conformances and checklists, see [Dependencies](#).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a AuditVisitLink root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Newly created Audit/Visit record's internal ID
recordLink	string	URI to the newly created Audit/Visit record, for use in a GET request
code	string	Audit/Visit's code business key
dueDate	string	Audit/Visit's due date
siteCode	string	Audit/Visit's site code
supplierCode	string	Audit/Visit's supplier code
templateCode	string	Audit/Visit's template code

Error Responses

If the supplied data does not result in a valid Audit or Visit (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Error Messages

Element	Message	Meaning
peoplePresent	WARNING: class com.micros.creations.core.domain.Audit.peoplePresent - There must be at least one entry in the People Present table	People Present not provided
recordType	IllegalArgumentException: No enum constant com.micros.creations.core.type.AuditRecordType. <###>	Record Type not found
supplier/id	HTTP 417 IllegalStateException: Cannot locate keyword for class com.micros.creations.core.domain.Site using id: <###>, code:<###>, supplierCode:<###> and supplierId:<###>	Site Id not found
code		Site Code not found
site/id		Supplier Id not found
code		Supplier Code not found
supplierId		
supplierCode		
template	EntityNotFoundException: Unable to find com.micros.creations.core.domain.AuditTemplate with id <###>	Template not found
fromDate	ERROR: class com.micros.creations.core.domain.Audit.fromDate - The condition is invalid	From Date not provided
code	ERROR: class com.micros.creations.core.domain.Audit.code - The condition is invalid	Audit/Visit code not provided
code	ERROR: class com.micros.creations.core.domain.Audit.code - Another object exists with this value	Audit/Visit code already exists

Update Record (Audit)

Description

Updates an existing Audit or Visit record. Use this function to update an audit or visit's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/audit/{id} **HTTP method:** PUT

Request Details

The body of the request contains an AuditFullDTO element to specify the updates to the Audit or Visit record, which is based on the AuditFullDTO type returned when retrieving an audit/visit.

 **Note:**

The request content is similar to that for creating an audit or visit.

As a minimum, the values specified as mandatory for the Create Record function (see above) must be included. However, when updating records, all values must be included.

If a value or element is omitted from the request, the field contents will be cleared on the Audit/Visit record.

If the audit/visit has any non conformance/issues raised against it, they appear within a nonConformances element - a separate element for each. The non conformance/issues can be updated or created when updating the audit/visit. If creating a new Non Conformance record, assign a unique code and omit the id element.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an AuditVisitLink element. The AuditVisitLink element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Audit/Visit record's internal ID
recordLink	string	URI to the Audit/Visit record, for use in a GET request
code	string	Audit/Visit's code business key
dueDate	string	Audit/Visit's due date
siteCode	string	Audit/Visit's site code
supplierCode	string	Audit/Visit's supplier code
templateCode	string	Audit/Visit's template code

Error Responses

If the supplied data does not result in a valid Audit or Visit (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

List of Values (Checklist)

Description

Retrieves a list of Checklists in a paged list. Use this function to locate Checklist record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/audit/{auditId}/checklist **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
auditId	Optional	long	No	105
offset	Optional	int	No	60
pageSize	Optional	int	No	30

Example URL

.../services/rest/audit/105/checklist/?offset=2&pageSize=20

Response Details

For a successful response, XML is returned with an AuditChecklistLinkList root element containing an entries element for each matched audit or visit. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Checklist record's internal ID
recordLink	string	URI to the AuditRestService Retrieve record service for this checklist
parentId	string	The parent Audit/Visit's internal ID
auditCode	string	The parent Audit/Visit's code business key
globalId	string	Checklist's code business key

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

Retrieve Record by ID (Checklist)

Description

Retrieves a single Checklist record's details using the record's internal unique ID (which is not visible in the UI) and its parent audit/visit's internal unique Id. Use this function to retrieve the full details of an individual audit or visit.

Endpoint address: /services/rest/audit/{auditId}/checklist/{id} **HTTP method:** GET

Request Details

The URL contains the {auditId} parameter that identifies the parent Audit/Visit record, and the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/audit/105/checklist/7

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of an auditChecklistFullDTO root element containing the individual attributes of the requested Checklist record. If a Checklist ID is not specified, a list of all the audit/visit's checklists is returned (as per the List of Values function).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
auditId	HTTP 404 Not found	Invalid {auditId} - not numeric
auditId	HTTP 417 IllegalStateException: Cannot find the Audit to return with id:<###>	Invalid {auditId} - not found
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Audit to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key (Checklist)

Description

Retrieves a single Checklist record's details using its business key (code) and its parent audit/visit's code. Use this function to retrieve the full details of an individual checklist using its key code.

Endpoint address: /services/rest/audit/byKey/{auditCode}/checklist/{checklistCode} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {auditCode} parameter that identifies the parent Audit/Visit record, and the {checklistCode} parameter that determines the record to retrieve.

Example URL

```
.../services/rest/audit/byKey/110/checklist/7374be1e-2a6c-11e7-8fda-0021f60dd918
```

Response Details

If successful, an HTTP 301 redirect response is sent containing a header Location with the URI of the document requested.

The returned URI represents the call to be made to the Retrieve Record by ID function (with the id substituted with the relevant value), which will return an auditChecklistFullDTO root element containing the individual attributes of the requested Checklist record.



Note:

If your method of calling the API is configured to automatically follow HTTP 301 redirects, the call may automatically return a auditChecklistFullDTO root element containing the individual attributes of the requested Checklist record.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
auditCode	HTTP 404 Not Found	Invalid {auditCode} - blank or not found
checklistCode	HTTP 404 Not Found	Invalid {checklistCode} - blank or not found

Create Record (Checklist)

Description

Creates a new Checklist record. Use this function to create a new checklist in Brand Compliance based on data sourced from the external system.

Dependencies: To create an audit with a checklist, the parent Audit record must be created using the Create Record (Audit/Visit) function, before creating the associated Checklist records.

Therefore, when creating the checklist, the parent Audit/Visit record must be present in the application and its record ID obtained. A checklist's questions and the permitted answers are determined by the checklist template that has been assigned to the audit/

visit's template. The IDs of the Checklist Template record must also be provided when creating a template. For more information, see [Dependencies](#).

Endpoint address: /services/rest/audit{auditId}/checklist **HTTP method:** POST

Request Details

The body of the request contains an auditChecklistFullIDTO element to specify the detail of the checklist to create, which is based on the auditChecklistFullIDTO element returned when retrieving a checklist. As a minimum, the fields shown in the following table must be populated.

Checklist Mandatory Fields

Field Name	Element Name
Audit/Visit Id	audit / id See note 1.
Audit/Visit Code	audit /code See note 1.
Checklist Template	localeData / id
Checklist Comments Allowed	commentsAllowed
Questionnaire Questions	questionnaire / questionnaireQuestion / questionDetails
Question Answers	questionnaire / questionnaireQuestion / questionnaireAnswer questionnaire / questionnaireQuestion / quesAvailAnsFull
Deleted Record	deleted (Set to false)

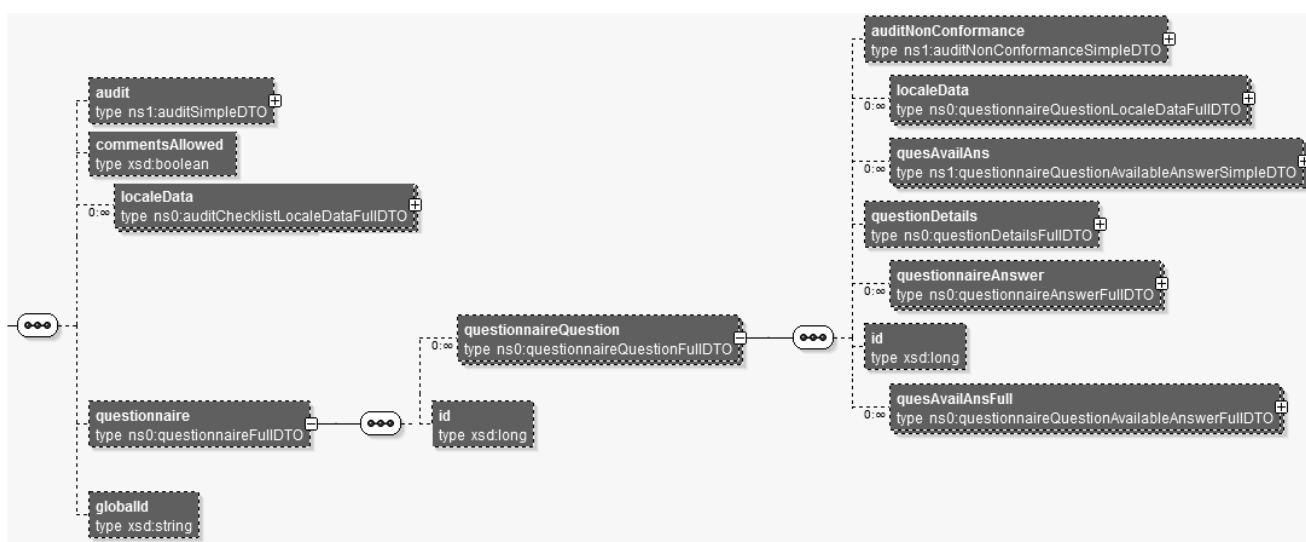
Notes:

1. Either code or ID may be specified to identify the audit/visit.

File Structure:

The following diagram shows the structure of the auditChecklistFullIDTO request file structure:

Figure 4-3 RESTful Checklist Request



Summary of AuditChecklistFullDTO Elements

Element Name	Description
audit	Identifies the parent audit record by code or id.
commentsAllowed	A value from the checklist template, required to control the record's behavior when it is progressed within Brand Compliance.
localeName	Identifies the checklist template by name and id.
questionnaire	Groups the questions and their answers.
questionnaireQuestion	Groups the checklist questions and their answers - repeated for each question in the checklist. reference is the question reference.
questionDetails	Individual questions. question is the question text. answerComment is the answer's comments (if configured). answerFieldType is code of answer type (MULTI_SELECTION, TEXT, or SINGLE_SELECTION). commentAllowed is whether comments are allowed.
questionnaireAnswer	Groups the answer details.
questionnaireAvailableAnswer	Answers for the individual questions. code is the question's unique key. commentMandatory is whether comments are mandatory or not. generateNonConformance is whether an answer will generate an issue.
quesAvailAnsFull	The available answers - repeated for each answer. code is the question's unique key. commentMandatory is whether comments are mandatory or not. id and keywordTypeEnum are the keys to the Issues glossary.

Process for Creating Checklist Audits

The general process for creating checklist audits:

1. Create the Audit/Visit. While it is possible to create a checklist audit using the Create Audit function, it is recommended that they be created within the Brand Compliance application.

A method of creating a new audit:

- a. Retrieve an existing audit using a GET function.
- b. Omit the id and statusChangeHistory elements from the retrieved file.
- c. Omit localData elements from status and allowableAuditStandards.
- d. Assign a new unique code.
- e. Link to the Supplier, Site, and Audit Template records using the relevant IDs.
- f. Change other content to reflect the new audit.
- g. Submit using the POST function.

- h. If non conformances are to be created at the time of creating the audit/visit, include them as nonConformances elements.

 **Note:**

The API does not automatically create a non conformance based on the answer of a checklist question. Non conformances must be assigned when either creating or updating the Audit/Visit record.

- Retrieve the code or ID of the newly created Audit, and its template detail using a GET function.
- Create the checklist using the POST function (repeat for each checklist):
 - Identify the parent audit/visit by setting the code or id within audit element.
 - Can retrieve an existing checklist using a GET function, in which case the id and questionnaireQuestionAvailableAnswer elements must be omitted. Also omit any id elements within the questionnaire element, except those that relate to the auditNonConformance element.

Example Request XML

This example shows the minimum requirement to be able to create an audit checklist. This example contains three questions, each with the available answers of Yes, No, or Not Applicable.

Figure 4-4 Checklist Questions

Details Attachments Change History		
Questions		
Ref1	Question 1	
	Yes	Yes comment
Ref2	Question 2	
	No	No comment
	Assigned to: Assignee	Deadline: 20/05/17
Ref3	Question 3	
	Not Applicable	N/A comment

```
<ns0:auditChecklistFullDTO xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/simple" xmlns:ns0="http://www.micros.com/creations/core/domain/dto/v1p0/full">
  <ns0:audit>
    <ns1:code>AUD09</ns1:code>
    <ns1:id>132</ns1:id>
  </ns0:audit>
  <ns0:commentsAllowed>false</ns0:commentsAllowed>
  <ns0:localeData>
    <ns0:name>
      <![CDATA[ API Test Template ]]>
    </ns0:name>
    <ns0:id>563</ns0:id>
  </ns0:localeData>
</ns0:auditChecklistFullDTO>
```

```
<ns0:questionnaire>
  <ns0:questionnaireQuestion>
    <ns0:localeData>
      <ns0:reference>
        <![CDATA[Ref1]]>
      </ns0:reference>
    </ns0:localeData>
    <ns0:questionDetails>
      <ns0:answerComment>
        <![CDATA[Yes comment]]>
      </ns0:answerComment>
      <ns0:answerFieldType>SINGLE_SELECTION</ns0:answerFieldType>
      <ns0:commentAllowed>true</ns0:commentAllowed>
      <ns0:localeData>
        <ns0:question>
          <![CDATA[Question 1]]>
        </ns0:question>
      </ns0:localeData>
    </ns0:questionDetails>
    <ns0:questionnaireAnswer>
      <ns0:questionnaireAvailableAnswer>
        <ns1:code>QQAA7236</ns1:code>
        <ns1:commentMandatory>>false</ns1:commentMandatory>
        <ns1:generateNonConformance>>false</ns1:generateNonConformance>
        </ns1:generateNonConformance>
        <ns1:localeData>
          <ns0:answer>Yes</ns0:answer>
        </ns1:localeData>
      </ns0:questionnaireAvailableAnswer>
      <ns0:questionnaireQuestion>
        <ns1:localeData>
          <ns0:reference>
            <![CDATA[Ref1]]>
          </ns0:reference>
        </ns1:localeData>
      </ns0:questionnaireQuestion>
    </ns0:questionnaireAnswer>
    <ns0:quesAvailAnsFull>
      <ns0:code>QQAA7236</ns0:code>
      <ns0:commentMandatory>>false</ns0:commentMandatory>
      <ns0:generateNonConformance>>false</ns0:generateNonConformance>
      <ns0:localeData>
        <ns0:answer>Yes</ns0:answer>
      </ns0:localeData>
    </ns0:quesAvailAnsFull>
    <ns0:quesAvailAnsFull>
      <ns0:code>QQAA7237</ns0:code>
      <ns0:commentMandatory>true</ns0:commentMandatory>
      <ns0:generateNonConformance>true</ns0:generateNonConformance>
      <ns0:localeData>
        <ns0:answer>No</ns0:answer>
      </ns0:localeData>
    </ns0:quesAvailAnsFull>
    <ns0:quesAvailAnsFull>
      <ns0:code>QQAA7238</ns0:code>
      <ns0:commentMandatory>>false</ns0:commentMandatory>
      <ns0:generateNonConformance>>false</ns0:generateNonConformance>
      <ns0:localeData>
        <ns0:answer>Not Applicable</ns0:answer>
      </ns0:localeData>
    </ns0:quesAvailAnsFull>
  </ns0:questionnaire>
```

```
</ns0:questionnaireQuestion>
<ns0:questionnaireQuestion>
  <ns0:localeData>
    <ns0:reference>
      <![CDATA[Ref2]]>
    </ns0:reference>
  </ns0:localeData>
  <ns0:questionDetails>
    <ns0:answerComment>
      <![CDATA[No comment]]>
    </ns0:answerComment>
    <ns0:answerFieldType>SINGLE_SELECTION</ns0:answerFieldType>
    <ns0:commentAllowed>true</ns0:commentAllowed>
    <ns0:localeData>
      <ns0:question>
        <![CDATA[Question 2]]>
      </ns0:question>
    </ns0:localeData>
  </ns0:questionDetails>
  <ns0:questionnaireAnswer>
    <ns0:questionnaireAvailableAnswer>
      <ns1:code>QQAA7240</ns1:code>
      <ns1:commentMandatory>true</ns1:commentMandatory>
      <ns1:generateNonConformance>true</ns1:generateNonConformance>
      <ns1:localeData>
        <ns0:answer>No</ns0:answer>
      </ns1:localeData>
    </ns0:questionnaireAvailableAnswer>
  </ns0:questionnaireAnswer>
  <ns0:questionnaireQuestion>
    <ns1:localeData>
      <ns0:reference>
        <![CDATA[Ref2]]>
      </ns0:reference>
    </ns1:localeData>
  </ns0:questionnaireQuestion>
</ns0:questionnaireAnswer>
<ns0:quesAvailAnsFull>
  <ns0:code>QQAA7239</ns0:code>
  <ns0:commentMandatory>false</ns0:commentMandatory>
  <ns0:generateNonConformance>false</ns0:generateNonConformance>
  <ns0:localeData>
    <ns0:answer>Yes</ns0:answer>
  </ns0:localeData>
</ns0:quesAvailAnsFull>
<ns0:quesAvailAnsFull>
  <ns0:code>QQAA7240</ns0:code>
  <ns0:commentMandatory>true</ns0:commentMandatory>
  <ns0:generateNonConformance>true</ns0:generateNonConformance>
  <ns0:localeData>
    <ns0:answer>No</ns0:answer>
  </ns0:localeData>
</ns0:quesAvailAnsFull>
<ns0:quesAvailAnsFull>
  <ns0:code>QQAA7241</ns0:code>
  <ns0:commentMandatory>false</ns0:commentMandatory>
  <ns0:generateNonConformance>false</ns0:generateNonConformance>
  <ns0:localeData>
    <ns0:answer>Not Applicable</ns0:answer>
  </ns0:localeData>
</ns0:quesAvailAnsFull>
</ns0:questionnaireQuestion>
```

```

<ns0:questionnaireQuestion>
  <ns0:localeData>
    <ns0:reference>
      <![CDATA[Ref3]]>
    </ns0:reference>
  </ns0:localeData>
  <ns0:questionDetails>
    <ns0:answerComment>
      <![CDATA[N/A comment]]>
    </ns0:answerComment>
    <ns0:answerFieldType>SINGLE_SELECTION</ns0:answerFieldType>
    <ns0:commentAllowed>true</ns0:commentAllowed>
    <ns0:localeData>
      <ns0:question>
        <![CDATA[Question 3]]>
      </ns0:question>
    </ns0:localeData>
  </ns0:questionDetails>
  <ns0:questionnaireAnswer>
    <ns0:questionnaireAvailableAnswer>
      <ns1:code>QQA7244</ns1:code>
      <ns1:commentMandatory>>false</ns1:commentMandatory>
      <ns1:generateNonConformance>>false</ns1:generateNonConformance>
      <ns1:localeData>
        <ns0:answer>Not Applicable</ns0:answer>
      </ns1:localeData>
    </ns0:questionnaireAvailableAnswer>
    <ns0:questionnaireQuestion>
      <ns1:localeData>
        <ns0:reference>
          <![CDATA[Ref3]]>
        </ns0:reference>
      </ns1:localeData>
    </ns0:questionnaireQuestion>
  </ns0:questionnaireAnswer>
  <ns0:quesAvailAnsFull>
    <ns0:code>QQA7242</ns0:code>
    <ns0:commentMandatory>>false</ns0:commentMandatory>
    <ns0:generateNonConformance>>false</ns0:generateNonConformance>
    <ns0:localeData>
      <ns0:answer>Yes</ns0:answer>
    </ns0:localeData>
  </ns0:quesAvailAnsFull>
  <ns0:quesAvailAnsFull>
    <ns0:code>QQA7243</ns0:code>
    <ns0:commentMandatory>true</ns0:commentMandatory>
    <ns0:generateNonConformance>true</ns0:generateNonConformance>
    <ns0:localeData>
      <ns0:answer>No</ns0:answer>
    </ns0:localeData>
  </ns0:quesAvailAnsFull>
  <ns0:quesAvailAnsFull>
    <ns0:code>QQA7244</ns0:code>
    <ns0:commentMandatory>>false</ns0:commentMandatory>
    <ns0:generateNonConformance>>false</ns0:generateNonConformance>
    <ns0:localeData>
      <ns0:answer>Not Applicable</ns0:answer>
    </ns0:localeData>
  </ns0:quesAvailAnsFull>
</ns0:questionnaireQuestion>
</ns0:questionnaire>

```

```
<ns0:globalId>7470e250-36cc-4dea-a0f1-eb6040185865</ns0:globalId>
<ns0:deleted>>false</ns0:deleted>
</ns0:auditChecklistFullDTO>
```

Set the deleted attribute to false to ensure the record can be seen in the UI. If omitted or set to true, it will exist, but will not be visible.

For further information about the process for creating audit, non conformances, and checklists, see [Dependencies](#).

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an AuditChecklistLink root element. The root element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Checklist record's internal ID
recordLink	string	URI to the newly created Checklist record, for use in a GET request
parentId	long	The parent Audit/Visit's internal ID
auditCode	string	The parent Audit/Visit's code business key
globalId	string	Checklist's code business key

Error Responses

If the supplied data does not result in a valid Checklist (such as a missing mandatory field), an HTTP 417 response is sent with an ErrorMessage/Message XML body message stating the validation errors. The request should not be reattempted with the same content.

Error Messages

Element	Message	Meaning
audit / id audit / code	HTTP 417 IllegalStateException: The checklists audit cannot be located	Audit/Visit id/code not found
id	HTTP 417 IllegalStateException: Cannot find matching relation to update on <###> looking for <###>	Invalid link to related record

Update Record (Checklist)

Description

Updates an existing Checklist record. Use this function to update a checklist's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/rest/audit/{auditId}/checklist/{id} **HTTP method:** PUT

Request Details

The body of the request contains an `auditChecklistFullDTO` element to specify the updates to the Audit or Visit record, which is based on the `auditChecklistFullDTO` type which is returned when retrieving an audit/visit.

Note:

The request content is similar to that for creating a checklist.

As a minimum, the values specified as mandatory for the Create Record function (see above) must be included. However, when updating records, all values must be included.

If a value or element is omitted from the request, the field contents will be cleared on the Checklist record.

The link to the parent Audit/Visit record is defined by the code or ID within the audit element.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an `auditChecklistLink` element. The `auditChecklistLink` element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
<code>recordId</code>	long	Checklist record's internal ID
<code>recordLink</code>	string	URI to the Checklist record, for use in a GET request
<code>parentId</code>	long	The parent Audit/Visit's internal ID
<code>auditCode</code>	string	The parent Audit/Visit's code business key
<code>globalId</code>	string	Checklist's code business key

Error Messages

If the supplied data does not result in a valid Audit or Visit (such as a missing mandatory field), an HTTP 417 response is sent with an `ErrorMessage/Message` XML body message stating the validation errors. The request should not be reattempted with the same content.

Delete Record (Checklist)

Deletes an existing Checklist record. Use this function to delete a checklist that has been created in error from the external system

Endpoint address: /services/rest/audit/{auditId}/checklist/{id} **HTTP method:** DELETE

Request Details

There are no request parameters, but the URL contains the {auditId} parameter that identifies the parent Audit/Visit record, and the {id} parameter that determines the record to delete.

Note:

It is not possible to manually delete checklists from an audit/visit within the application; this delete function has been provided solely for the deletion of checklists that have been created in error by the API.

To delete a checklist, the external system must be granted access to the AUDIT_CHECKLIST_DELETE endpoint.

Example URL

.../services/rest/audit/105/checklist/7

Response Details

If successful, an HTTP 200 response is sent.

Error Messages

Element	Message	Meaning
auditId	HTTP 404 Not Found	Invalid {auditId} - not numeric
auditId	HTTP 417 IllegalStateException: Cannot find the Audit to return with id:<###>	Invalid {auditId} - not found
id	HTTP 404 Not Found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Audit Checklist to return with id:<###>	Invalid {id} - not found

DataPrivacyService

This section describes the API for executing Data Privacy requests. The following functions are available:

- **Right to Access:** retrieves personal data from the system relating to the name of an individual
- **Right to be Forgotten:** erases personal data from the system for an individual

Although minimal personal data is held in Brand Compliance, it does include the names and contact details of retailer/portal owner, supplier, and third-party users. The Data Privacy API provides a means for the retailer/portal owner to:

1. Request details of personal data relating to an individual be held within the system.
2. Request that the personal data relating to the individual be removed from the system.

For additional detail on using the Data Privacy API, including examples, see [Appendix: Using the Data Privacy API](#).

Right to Access

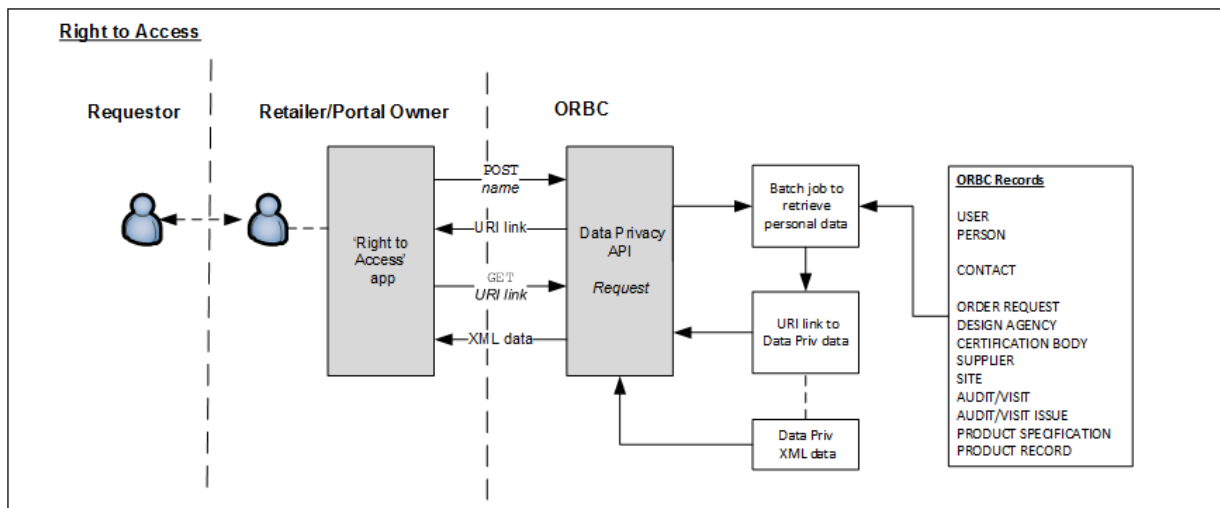
Description

Retrieves a set of personal data that relates to the name of an individual. Use this function to perform Right to Access requests for the following scenarios:

- An employee of the retailer/portal owner requests an electronic copy of their personal data that is held within the system.
- An employee of one of the retailer/portal owner's suppliers requests an electronic copy of their personal data that is held within the system.
- An employee of the retailer/portal owner's partner organizations requests an electronic copy of their personal data that is held within the system.

The API's access function allows the name of the individual to be passed, with an XML message being returned containing any personal data found for that name. The XML message is a structured text format, which is both machine and human readable.

Figure 4-5 Right to Access Process



The steps for completing a Right to Access request are as follows (for further details, see [Appendix: Using the Data Privacy API](#)):

1. Submit a POST call, passing the name of the individual.

A batch job is submitted within Brand Compliance to search the system for personal data for the presence of the name (for which records and fields are searched, see [Appendix: Using the Data Privacy API](#)). On completion, a Data Privacy record containing the retrieved personal data is created within Brand Compliance.

A link to the Data Privacy record is returned as the response to the POST call.

2. On receipt of the response to the POST call, submit a GET call, passing the returned URI link.

 **Note:**

If the GET call is submitted before the batch job has finished compiling the personal data, just a header will be returned, and the GET call should be retried.

A message containing the personal data is returned. The XML data is structured within a `dataprivRequestDTO` root element (for details of the message structure, see [Appendix: Using the Data Privacy API](#)).

Just the personal data fields and values to identify the record are returned, not the full record contents.

Addresses may contain multiple `localeData` elements for the language translation of countries.

XML elements will only be present if they contain data.

3. Assess whether the returned data relates to the individual who made the request, editing and/or reformatting it if necessary, before passing it to the requestor.

Endpoint address: `/services/rest/datapriv/access` **HTTP methods:** POST, GET

Request Details

For the POST method, a name parameter is passed in the payload.

For the GET method, an id parameter is passed as a URI parameter.

URI Parameters

Example URL (POST method): `.../services/rest/access/`

Example URL (GET method): `.../services/rest/access/?id=16`

Response Details

For a successful response to the POST method, a link to the Data Privacy record is returned.

For a successful response to the GET method, XML is returned with a `dataprivRequestDTO` root element containing an element for each record where the personal data has been found.

Error Responses

In the event that an error occurs, an HTTP 500 response is sent.

Right to be Forgotten

Description

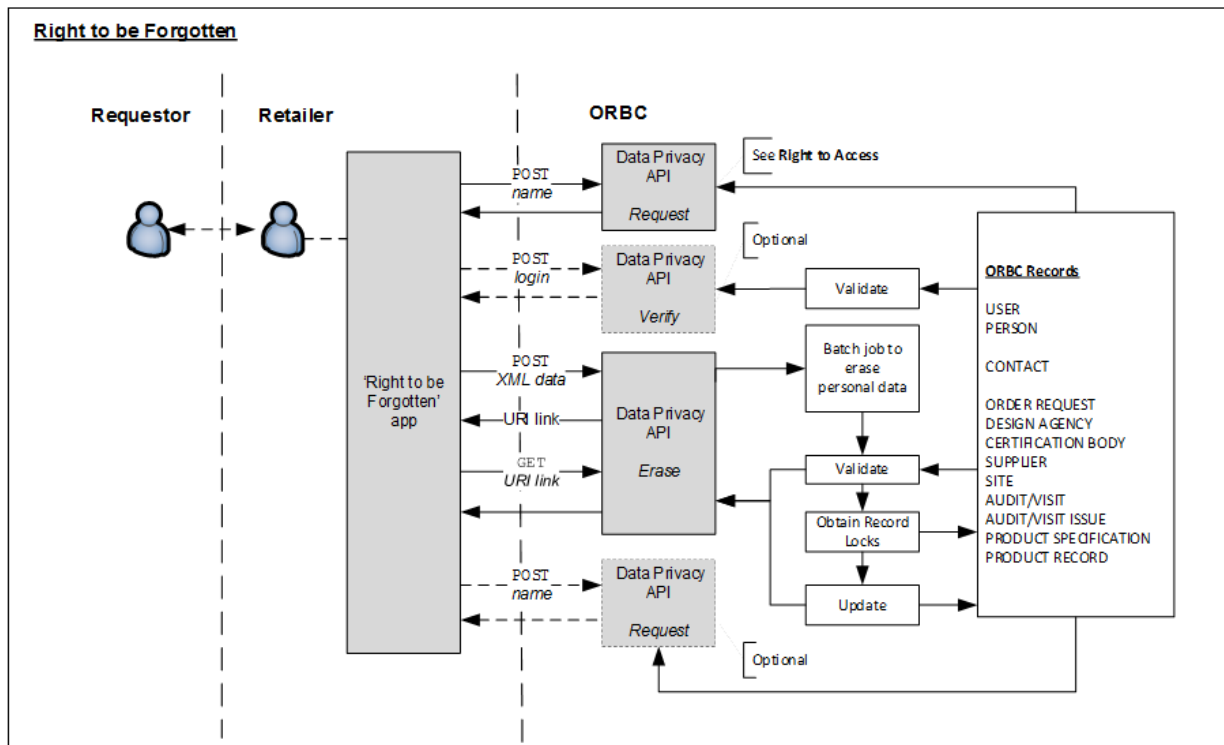
Erases a set of personal data that relates to an individual. Use this function to perform Right to be Forgotten requests for the following scenarios:

- An employee of the retailer/portal owner requests their personal data be erased from the system.
- An employee of one of the retailer/portal owner's suppliers requests their personal data be erased from the system.

- An employee of a partner organizations requests their personal data be erased from the system.
- The retailer/portal owner initiates the purging of an inactive user's personal data from the system.

An erase function allows the XML message returned from a Right to Access request to be used to erase the data.

Figure 4-6 Right to be Forgotten Process



The steps for completing a Right to be Forgotten request are as follows:

1. The Right to Access service must be used to retrieve the personal data for the individual. For details, see [Right to Access](#)
2. View, and if necessary, edit the XML returned from the Right to Access request.

As there may be any number of users with the same name, it is necessary to decide which data represents the individual who made the request, removing any that is not relevant (for further information on editing the XML message, see [Appendix: Using the Data Privacy API](#)).

3. Optionally submit a POST call to the verify function, passing the login id of the individual (obtained from the XML message returned in Step 2).

This step is used to check whether the erasure of data for the individual will be permitted, before actually submitting the request. The erase will not be permitted if the individual is responsible for the completion of a supplier site's Scorecard.

XML is returned with a `dataprivVerifyDTO` root element containing a status and a message element. If the call is successful the message will contain *Success*,

otherwise it will contain *Failure* and the reason for the failure will be present in the message element.

4. Submit a POST call to the erase function, passing the XML retrieved from the Right to Access request (with any edits having been applied).

A batch job is submitted to validate the request, verify that the erasure is permitted (that is, the individual is not responsible for the completion of a Scorecard), and obtain locks on the records to be updated.

5. If the validation fails, or a lock cannot be obtained, the process is terminated and an XML is returned with a `dataprivErasureDTO` root element containing a message element that contains the reason for the failure, and the status element set to *Failure*.

If no exceptions are encountered, a Data Privacy record containing the personal data to erase is created and a link to the record is returned as the response to the POST call.

6. On receipt of the response to the POST call, submit a GET call to the erase function, using the returned URI link.

The update processing replaces the data passed in the XML message with 30 characters of randomly-generated text. Email addresses are changed to `x@example.com`, where `x` is 15 characters of randomly-generated text*. GPS coordinate numbers and country selections are blanked.

Some fields have a specific length, in which case the 30 characters of obfuscated text is overridden:

- Name 50 characters
- Login 20 characters
- Address lines 20 characters
- Post Code 5 characters

* Email addresses that are stored as free text are fully obfuscated, rather than set to `x@example.com`.

Only certain fields are permitted to be erased (for details, see [Appendix: Using the Data Privacy API](#)).

When updating a user account, the account is set to deactivated, and the password is set to expired.

 **Note:**

If the GET call is submitted before the batch job has finished compiling the personal data, just a header will be returned, and the GET call should be retried.

The erasure of data is not reversible.

7. Optionally submit another Right to Access request to check that the data has been erased as expected.
8. Inform the requestor of the outcome of their request.

The Right to be Forgotten facility may also be used for purging user accounts that are no longer active.

Endpoint address: /services/rest/datapriv/erase **HTTP methods:** POST (verify and erase), GET (erase)

Request Details

For the verify POST method, a loginId parameter is passed in the payload.

For the erase POST method, an XML message is passed in the payload.

For the erase GET method, an id parameter is passed as a URI parameter.

URI Parameters

Example URL (verify POST method): .../services/rest/verify/

Example URL (erase POST method): .../services/rest/erase/

Example URL (erase GET method): .../services/rest/erase/?id=32

Response Details

For a successful response to the verify POST method, XML is returned with a dataprivVerifyDTO root element containing a status of *Success*.

For a successful response to the erase POST method, a link to the Data Privacy record is returned.

For a successful response to the erase GET method, an HTTP 200 response is sent with a dataprivErasureDTO root element containing a status of *Success*.

Error Responses

For a failure response to the verify method, XML is returned with a dataprivVerifyDTO root element containing a status of *Failure*, with the reason in the message element.

For a failure response to the erase method, XML is returned with a dataprivErasureDTO root element containing a status of *Failure*, with the reason in the message element.

Error Messages

Element	Message	Meaning
user	Only one User can be erased at a time	More than one User was passed in to the erase function. The XML must only relate to a single user.
person	Only one Person can be erased at a time	More than one Person was passed in to the erase function. The XML must only relate to a single person.
id	The User is linked to Person with ID: %id but the Person included has ID: %id	The wrong Person has been included. %id is the id taken from the XML.
id	The Contacts are linked to Person with ID: %id but the Person included has ID: %id	The wrong Person has been included. %id is the id taken from the XML.
id	The Contact with ID %id is linked to a different User than the one being erased	The Contacts passed do not match the user being erased. %id is replaced with the id from the XML.

Element	Message	Meaning
person	All Contacts being erased must be linked to the same Person	Where no User is being erased, all Contacts being erased must be for the same person.
person	Please include Person with ID: %id	If User or Contacts are passed, the matching Person must also be included.
id	Cannot find entity of type: %rec and ID: %id	An id is passed that is not found. %rec is the internal name of the record, such as ProductRecord. %id is the id taken from the XML.
id	Entity of type: %rec and ID: %id is currently locked, please try again later	One of the records to be erased is currently locked. %rec is the internal name of the record, such as ProductRecord. %id is the id taken from the XML. Retry the request until the record becomes available.
id	Entity of type: %rec with id: %id has been edited during the erase process, please verify data	One of the records updated has been edited between up front validation and the processing of that particular record. %rec is the internal name of the record, such as ProductRecord. %id is the id taken from the XML.
user	The user cannot be erased because they are responsible for the approval of a Scorecard	The user is named as being responsible for completing a scorecard, so they cannot be erased.
login id	Cannot find User with login ID: %id	No User account found for the passed login id. %id is the login id.
	The erase has failed due to unexpected internal error	Other unexpected condition has occurred.

AttachmentRestService

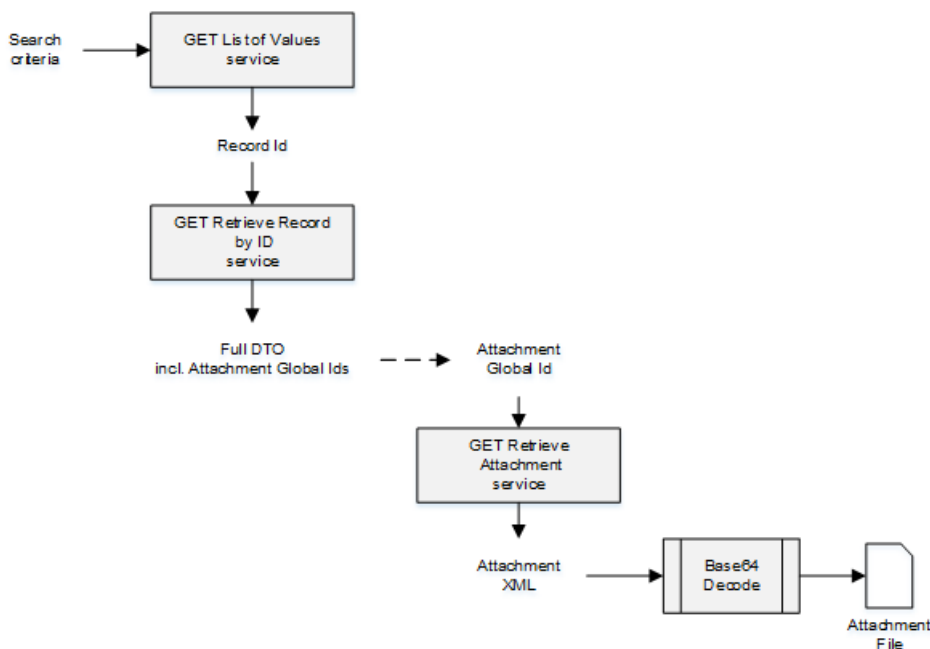
This section describes the API for retrieving the file attachments from certain records. The following function is available:

- [Retrieve Report Attachment](#): retrieves attachment files that have been generated by the system as report outputs
- [Retrieve Attachment](#): retrieves files that have been attached to records

The scorecardFullIDTO, projectFullIDTO and projectActivityFullIDTO elements contain an attachments element which will include a globalId element for each of the record's file attachments. The Retrieve Attachment service can be used to retrieve the actual attachment files by passing globalId as a parameter.

The following describes the steps for retrieving file attachments:

Figure 4-7 Steps for Retrieving Attachments



- Call the List of Values service for the record with appropriate filters to locate the records for which attachments are to be retrieved. Record ids are returned for any records that match search criteria.
- Call the Retrieve Record by ID service for each record id returned from the List of Values call. The record's full DTO element is returned, containing the record's data, including an attachments element which has a globalId element for each of the record's file attachments.
- Call the Retrieve Attachment service passing the globalId as a parameter. The attachment file's data is returned as a Base 64 text string. Use a suitable decoder to generate the actual attachment file.

Retrieve Report Attachment

Description

Retrieves an attachment file that has been generated as the output of a report. The file types will be PDF, Excel, RTF, or HTML. When a report is generated, the outputs are stored in the Report Outputs area, grouped within a hierarchical folder structure.

The API provides a means of automatically locating reports for further analysis of the data within an external system. The ID of the attachment to be retrieved is sent to the external system's designated email address.

For additional detail on using the Report Attachment API, see [Appendix: Using the Report Attachment API](#).

Endpoint address: /services/rest/attachment/report/{globalId} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {globalId} parameter that determines the record to retrieve.

Example URL

.../services/rest/attachment/report/f25eebdd-e7c5-4bb2-b61c-f35171438386

Response Details

For a successful response, XML is returned with a data element which contains the actual attachment as a Base64 encoded text string. The string must then be processed by a Base64 decoder to convert it to the actual report file.

Error Messages

Element	Message	Meaning
globalId	HTTP 404 Not found	Invalid {globalId} - not numeric
globalId	HTTP 417 IllegalStateException: Cannot find the Attachment to return with id:<###>	Invalid {globalId} - not found

Retrieve Attachment

Description

Retrieves a file that has been attached to a record. The files types will typically be documents or images.

Endpoint address: /services/rest/attachment/{globalId} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {globalId} parameter that determines the record to retrieve.

Example URL

.../services/rest/attachment/RTxy92Ha4lsQE6Bjc-18t1wJ7smbYoCH

Response Details

For a successful response, XML is returned with a data element which contains the actual attachment as a Base64 encoded text string. The string must then be processed by a Base64 decoder to convert it to the actual attachment file.

Error Messages

Element	Message	Meaning
globalId	HTTP 404 Not found	Invalid {globalId} - not numeric

Element	Message	Meaning
globalId	HTTP 417 IllegalStateException: Cannot find the Attachment to return with id:<###>	Invalid {globalId} - not found

ScorecardRestService

This section describes the API for managing scorecards. The following functions are available:

- [List of Values](#): retrieves a list of scorecards
- [Retrieve Record by ID](#): retrieves a Scorecard record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Scorecard record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Scorecard record was last updated

List of Values

Description

Retrieves a list of scorecards in a paged list. Use this function to locate Scorecard record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/scorecard **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
status	Optional	string	Yes	IN PROGRESS~COMPLETE
siteStatus	Optional	string	Yes	AWAITING REGISTRATION
siteType	Optional	string	Yes	PRIMARY
siteCode	Optional	string	Yes	A0001-0001
siteName	Optional	string	Yes	West Road Site
siteNameBusiness Language	Optional	string	Yes	West Road Site
supplierCode	Optional	string	Yes	A0001

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
supplierName	Optional	string	Yes	ABC Ltd
supplierNameBusiness Language	Optional	string	Yes	ABC Ltd
businessCategory	Optional	string	Yes	POTATOES_LOOSE
templateCode	Optional	string	Yes	ETHICAL_SCORECARD
dueDate	Optional	string	Yes	2015-05-19
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

.../services/rest/scorecard/?offset=2&pageSize=20 .../services/rest/scorecard/?status=IN
PROGRESS~COMPLETE .../services/rest/scorecard/?
businessCategory=POTATOES_LOOSE

Response Details

For a successful response, XML is returned with a ScorecardLinkList root element containing an entries element for each matched scorecard. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Scorecard record's internal ID
recordLink	string	URI to the ScorecardRestService Retrieve record service for this scorecard
scorecardCode	string	Scorecard's code business key
siteCode	string	Scorecard's site code
supplierCode	string	Scorecard's supplier code
templateCode	string	Scorecard's template code

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

Retrieve Record by ID

Description

Retrieves a single Scorecard record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual scorecard.

Endpoint address: /services/rest/scorecard/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/scorecard/54

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a scorecardFullDTO root element containing the individual attributes of the requested Scorecard record. If an ID is not specified, a list of all scorecards is returned (per the List of Values function).

File Structure

The main elements of the scorecardFullDTO root element:

- scorecardTemplateSnapshot and Template - the settings from the associated template.
- scorecardQuestions - the scorecard's questions and their answers - a separate element for each.
- supplier and site - details of the supplier and site that the scorecard is related to.
- udfData - the contents of any user-defined custom fields associated to the Scorecard record.
- attachments - a child element containing the ids of any file attachments the scorecard has.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not found	Invalid {id} - not numeric

Element	Message	Meaning
id	HTTP 417 IllegalStateException: Cannot find the Scorecard to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Scorecard record's details using its business key (code). Use this function to retrieve the full details of an individual scorecard using its key code.

Endpoint address: /services/rest/scorecard/byKey/{code} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {code} parameter that determines the record to retrieve.

Example URL

.../services/rest/scorecard/byKey/184

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a scorecardFullDTO root element containing the individual attributes of the requested Scorecard record.

File Structure

The main elements of the scorecardFullDTO root element:

- scorecardTemplateSnapshot and Template - the settings from the associated template.
- scorecardQuestions - the scorecard's questions and their answers - a separate element for each.
- supplier and site - details of the supplier and site that the scorecard is related to.
- udfData - the contents of any user-defined custom fields associated to the Scorecard record.
- attachments - a child element containing the ids of any file attachments the scorecard has.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 2 - Supplier* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
code	HTTP 404 Not found	Invalid {code} - blank or not found

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Scorecard record. Use this function to determine when a scorecard was last updated.

Endpoint address: /services/rest/scorecard/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/scorecard/54

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Scorecard record. For example:

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not found	Invalid {id} - not numeric

ProjectRestService

This section describes the API for managing projects. The following functions are available:

- [List of Values](#): retrieves a list of projects
- [Retrieve Record by ID](#): retrieves a Project record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves a Project record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when a Project record was last updated

List of Values

Description

Retrieves a list of projects in a paged list. Use this function to locate Project record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/project **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (-) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
projectStatus	Optional	string	Yes	IN PROGRESS~COMPLETED
templateCode	Optional	string	Yes	NEW_BAKERY_RANGE
masterProject	Optional	Boolean	No	TRUE
parentProject	Optional	string	Yes	NEW_LINE_DEVELOPMENT
projectType	Optional	string	Yes	CHANGE OF SUPPLIER
projectName	Optional	string	Yes	New Potato Product Launch
projectManagerName	Optional	string	Yes	John Smith
businessCategory	Optional	string	Yes	POTATOES_LOOSE
specificationType	Optional	string	Yes	FOOD
siteStatus	Optional	string	Yes	AWAITING REGISTRATION
siteType	Optional	string	Yes	PRIMARY
siteCode	Optional	string	Yes	A0001-0001
siteName	Optional	string	Yes	West Road Site
siteNameBusiness Language	Optional	string	Yes	West Road Site
supplierCode	Optional	string	Yes	A0001
supplierName	Optional	string	Yes	ABC Ltd
supplierNameBusiness Language	Optional	string	Yes	ABC Ltd
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

```
.../services/rest/user/?offset=2&pageSize=20 .../services/rest/user/?projectStatus=IN  
PROGRESS~COMPLETED .../services/rest/user/?  
templateCode=NEW_LINE_DEVELOPMENT
```

Response Details

For a successful response, XML is returned with a ProjectLinkList root element containing an entries element for each matched project. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Project record's internal ID
recordLink	string	URI to the ProjectRestService Retrieve record service for this project
projectId	string	Project's business key
projectName	string	Project's name
parentProjectId	string	Parent project's business key
parentProjectName	string	Parent project's name

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

Retrieve Record by ID

Description

Retrieves a single Project record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual project.

Endpoint address: /services/rest/project/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/project/20

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a projectFullDTO root element containing the individual attributes of the requested Project record. If an ID is not specified, a list of all projects is returned (per the List of Values function).

File Structure

The main elements of the projectFullDTO root element:

- projectTemplateSnapshot and Template - the settings from the associated template.
- briefs - the associated project briefs; a separate element for each.
- teams - the users and their roles associated to the project.
- linkedRecords - the associated linked records; a separate element for each.
- udfData - the contents of any user-defined custom fields associated to the Project record.
- attachments - a child element containing the ids of any file attachments the project has.

Projects and their activities can be nested within a hierarchy. In the absence of a function to extract the full hierarchy with a single GET call, to retrieve the hierarchy of a project a number of successive calls is required. The Parent Project field is a Boolean value which will be blank for projects that have no hierarchy, or are at the top level of the hierarchy. Use the id or code of the Parent Project to traverse the levels. Use the Activities endpoints to retrieve the project's activity details. Master projects will not have a parent project id or a project name.

If a project is linked to a record such as a Product Specification or Audit, the linkedRecords element contains a list of the linked records, containing the id and business key of the record (audit code, product record code, spec number, supplier code, or site code), its type, name and status, and the date it was created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Project to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Project record's details using its business key (code). Use this function to retrieve the full details of an individual project using its key code.

Endpoint address: /services/rest/project/byKey/{code} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {code} parameter that determines the record to retrieve.

Example URL

.../services/rest/project/byKey/943

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a projectFullDTO root element containing the individual attributes of the requested Project record.

File Structure

The main elements of the projectFullDTO root element:

- projectTemplateSnapshot and Template - the settings from the associated template.
- teams - the users and their roles associated to the project.
- briefs - the associated project briefs; a separate element for each.
- linkedRecords - the associated linked records; a separate element for each.
- udfData - the contents of any user-defined custom fields associated to the Project record.
- attachments - a child element containing the ids of any file attachments the project has.

Projects and their activities can be nested within a hierarchy. In the absence of a function to extract the full hierarchy with a single GET call, to retrieve the hierarchy of a project a number of successive calls is required. The Parent Project field is a Boolean value which will be blank for projects that have no hierarchy, or are at the top level of the hierarchy. Use the id or code of the Parent Project to traverse the levels.

Use the Activities endpoints to retrieve the project's activity details. Master projects will not have a parent project id or a project name.

If a project is linked to a record such as a Product Specification or Audit, the `linkedRecords` element contains a list of the linked records, containing the id and business key of the record (audit code, product record code, spec number, supplier code, or site code), its type, name and status, and the date it was created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
code	HTTP 404 Not found	Invalid {code} - blank or not found

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of a Project record. Use this function to determine when the project was last updated.

Endpoint address: `/services/rest/project/{id}` **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the `{id}` parameter that determines the record to retrieve.

Example URL

`.../services/rest/project/20`

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Project record. For example:

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not found	Invalid {id} - not numeric

ActivityRestService

This section describes the API for managing project activities. The following functions are available:

- [List of Values](#): retrieves a list of activities
- [Retrieve Record by ID](#): retrieves an Activity record using its unique identifier
- [Retrieve Record by Business Key](#): retrieves an Activity record using its business key
- [Check Record Modification Timestamp](#): retrieves the timestamp when an Activity record was last updated

List of Values

Description

Retrieves a list of activities in a paged list. Use this function to locate Activity record IDs prior to a retrieve or update operation. Parameters are available to apply specific selection criteria for filtering the returned records.

Endpoint address: /services/rest/activity **HTTP method:** GET

Request Details

Parameters are passed as URI parameters.

URI Parameters

Parameter Name	Mandatory/Optional	Value Type	Multiple Value Separator (~) Supported?	Example
offset	Optional	int	No	60
pageSize	Optional	int	No	30
projectId	Optional	string	Yes	PR0000007
projectName	Optional	string	Yes	New Potato Product Launch
activityName	Optional	string	Yes	Artwork
activityCode	Optional	string	Yes	762
activityStatus	Optional	string	Yes	STARTED~COMPLETED
activitySubStatus	Optional	string	Yes	MESSAGE SENT
activityType	Optional	string	Yes	PRODUCT_ARTWORK
activityTemplateCode	Optional	string	Yes	ARTWORK

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
linkedRecord	Optional	string	Yes	SUPPLIER Note: Wildcard search not supported. Options are: SCORECARD SUPPLIER SITE AUDIT PRODUCT RECORD PRODUCT SPECIFICATION
personResponsible Name	Optional	string	Yes	John Smith
proposedStartDate	Optional	string	No	2015-05-19
proposedEndDate	Optional	string	No	2015-05-19
actualStartDate	Optional	string	No	2015-05-19
actualEndDate	Optional	string	No	2015-05-19
sequenceNo	Optional	string	Yes	1.0
modifiedSince	Optional	string	No	2015-05-19 13:30:39
modifiedUntil	Optional	string	No	2015-05-19 13:30:39

Example URLs

.../services/rest/user/?offset=2&pageSize=20 .../services/rest/user/?
activityStatus=STARTED~COMPLETED

Response Details

For a successful response, XML is returned with a ProjectActivityLinkList root element containing an entries element for each matched project. The entries element consists of the elements shown in the following table.

Returned Elements

Element	Type	Description
recordId	long	Project Activity record's internal ID
recordLink	string	URI to the ActivityRestService Retrieve record service for this activity
activityCode	string	Project Activity's business key
projectRecordId	string	The parent Project's internal ID
projectId	string	The parent Project's business key

The returned XML also contains a totalRecords element, which states the total number of retrievable records that match the filter parameters.

Error Messages

In the event that an error occurs, an HTTP 500 response is sent.

Retrieve Record by ID

Description

Retrieves a single Activity record's details using the record's internal unique ID (which is not visible in the UI). Use this function to retrieve the full details of an individual project activity.

Endpoint address: /services/rest/activity/{id} **HTTP method:** GET

Request Details

The URL contains the {id} parameter that determines the record to retrieve.

URI Parameters

Parameter Name	Mandatory/ Optional	Value Type	Multiple Value Separator (-) Supported?	Example
locale	Optional	string	Yes	en_GB~fr Locale country code. If used, fields that have language translations have a localeData element returned for the specified locales if data is present.

Example URL

.../services/rest/activity/5

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a projectActivityFullIDTO root element containing the individual attributes of the requested Activity record.

File Structure

The main elements of the projectActivityFullIDTO root element:

- activityTemplateSnapshot and Template - the settings from the associated template.
- briefs - the associated project briefs; a separate element for each.
- linkedRecords - the associated linked records; a separate element for each.
- udfData - the contents of any user-defined custom fields associated to the Activity record.

- attachments - a child element containing the ids of any file attachments the activity has.

If an activity is linked to a record such as a Product Specification or Audit, the linkedRecords element contains a list of the linked records, containing the id and business key of the record (audit code, product record code, spec number, supplier code or site code), its type, name and status, and the date it was created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
id	HTTP 404 Not found	Invalid {id} - not numeric
id	HTTP 417 IllegalStateException: Cannot find the Activity to return with id:<###>	Invalid {id} - not found

Retrieve Record by Business Key

Description

Retrieves a single Activity record's details using its business key (code) and its parent project's code. Use this function to retrieve the full details of an individual activity using its key code.

Endpoint address: /services/rest/activity/byKey/{activityCode} **HTTP method:** GET

Request Details

There are no request parameters, but the URL contains the {activityCode} parameter that determines the record to retrieve.

Example URL

.../services/rest/activity/byKey/762

Response Details

For a successful response, an HTTP 301 message is returned, which is automatically acted upon to retrieve XML consisting of a projectActivityFullDTO root element containing the individual attributes of the requested Activity record.

File Structure

The main elements of the projectActivityFullDTO root element:

- activityTemplateSnapshot and Template - the settings from the associated template.
- briefs - the associated project briefs; a separate element for each.
- linkedRecords - the associated linked records; a separate element for each.
- udfData - the contents of any user-defined custom fields associated to the Activity record.
- attachments - a child element containing the ids of any file attachments the activity has.

If an activity is linked to a record such as a Product Specification or Audit, the linkedRecords element contains a list of the linked records, containing the id and business key of the record

(audit code, product record code, spec number, supplier code, or site code), its type, name and status, and the date it was created.

See the associated WADL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
activityCode	HTTP 404 Not found	Invalid {activityCode} - blank or not found

Check Record Modification Timestamp

Description

Retrieves the last modification date and time of an Activity record. Use this function to determine when the project activity was last updated.

Endpoint address: /services/rest/activity/{id} **HTTP method:** HEAD

Request Details

There are no request parameters, but the URL contains the {id} parameter that determines the record to retrieve.

Example URL

.../services/rest/activity/5

Response Details

If successful, an HTTP 200 response is sent containing the Last-Modified header showing the date and time of the last update of the requested Activity record. For example:

```
HTTP/1.1 200 OK
Date: Wed, 13 Jul 2016 07:52:14 GMT
Last-Modified: Fri, 08 Jul 2016 06:44:46 GMT
Content-Type: application/xml
Content-Length: 0
```

Error Messages

Element	Message	Meaning
id	HTTP 417 Expectation Failed	Invalid {id} - not found
id	HTTP 404 Not found	Invalid {id} - not numeric

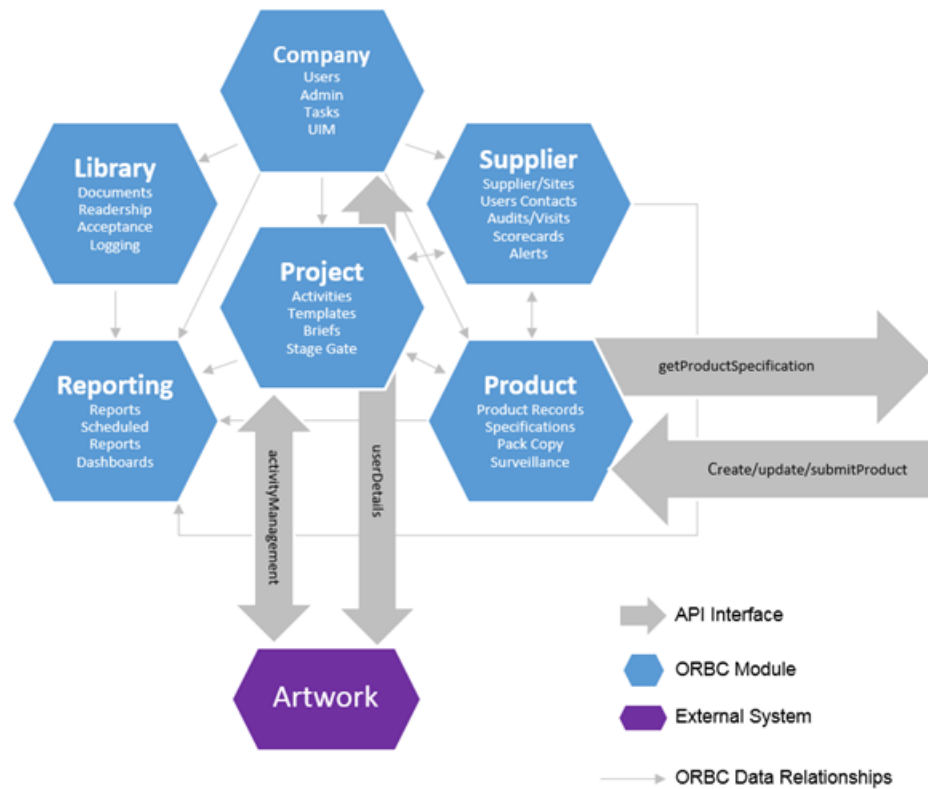
5

SOAP APIs

The following SOAP APIs are available:

- **User Details:** Users
- **Product Service:** Product Records
- **Retrieve Product Specifications:** Product Specifications
- **Project Activities:** Project Activities

Figure 5-1 Overview of SOAP APIs



Parameters and Filtering

Various parameters can be included in calls to the APIs, generally to define what data is to be returned, but can also control how records are returned. The following table lists some commonly used parameters.

Common Parameters

Parameter	Type	Description
offset	int	Used with pageSize to control the paging of a returned list of records. Specifies the starting point for the retrieval of records. If not specified, zero is assumed. For example, to retrieve 150 records: <ol style="list-style-type: none"> 1. A call with offset = 0 and pageSize = 50 returns the first 50 records. 2. Then, a call with offset = 50 and pageSize = 50 returns the next 50. 3. Then, a call with offset = 100 and pageSize = 50 returns the final 50.
batchSize	int	Used with offset to control the paging of a returned list of records. Specifies the number of entries in each page of returned list of records. If not specified, 30 is assumed. The maximum is 100.



Note:

Date/Time parameters must be provided in the YYYY-MM-DD hh:mm:ss format.

When retrieving records, the returned XML only includes elements that actually contain data; empty elements are omitted.

The following example provides the first 50 Product Specifications that changed status to either Active or Off Range in May 2016. Searching with either fromDate or toDate specified without specStatus, will filter based on the last amended date of the Product Specification.

```
<soapenv:Envelope xmlns:soapenv="<<hostname>>/soap/
envelope/" xmlns:v1="<<servicename>>/">
<soapenv:Header/>
<soapenv:Body>
  <v1:getProductSpecification>
    <request>
      <batchsize>50</batchsize>
      <offset>0</offset>
      <specStatus>ACTIVE</specStatus>
      <specStatus>OFF_RANGE</specStatus>
      <fromDate>2016-05-01T00:00:00</fromDate>
      <toDate>2016-05-31T24:00:00</toDate>
    </request>
  </v1:getProductSpecification>
</soapenv:Body>
```

User Details

This section describes the API for managing single sign-on between Brand Compliance and the JasperReports Server used by the Reports module. The following function is available:

- **userDetails**: retrieves user information for the user currently logged into Brand Compliance

userDetails

Description

This API is used in the Reports Single Sign-On integration with the TIBCO JasperSoft JasperReports Server to allow the JasperReports Server to retrieve the user information for the user that is logged into Brand Compliance. A oneTimePad is given to the JasperReports Server for use in calling this API. For each oneTimePad, a single call is permitted. Attempting to use the same oneTimePad multiple times results in failures.

This API is used in the Reporting Single Sign-On integration. The oneTimePad is automatically generated when the user clicks the Reports link; it is not feasible to manually call this service.

The API can be tested by clicking the navigation link to the Reports module.



Note:

This service is superseded by the SSO Restful Service.

Endpoint address: /services/userDetails **HTTP method:** getUser

Request Details

The request contains a single value, oneTimePad, which is the identifier passed to the JasperReports Server when the Reports tab is opened.

Response Details

If the oneTimePad value matches a value stored in the application, the details of the currently logged in user are returned to the caller.

Error Messages

Element	Message	Meaning
oneTimePad	Value not recognized: <###>.	The oneTimePad value is not found or not specified
oneTimePad	userId cannot be null	The user is not found

Product Service

This section describes the API managing Product Records. The following functions are available:

- [createProduct](#): creates a new Product Record
- [updateProduct](#): update an existing Product Record
- [submitProduct](#): automatically detects whether a submitted Product Record is to be updated or created based on whether it already exists or not

**Note:**

The SOAP version of the Product Record API is only compatible with portals that are operating in single variant mode, where the Product Record represents just a single variant of the product.

createProduct

Description

Creates a new Product Record. Use this function to create new Product Records in Brand Compliance based on the data sourced from, the external system.

Dependencies: If linked to a supplier or site, the Supplier/Site must be present in the application and its record ID obtained. If assigning a Business Category, Product Technologist, or Other Contact the record must be present in the application and its record ID obtained. Product Technologist and Other Contacts may be omitted to default to TBC if the TBC user is present in the application. The status must be Active in order to be linked to a specification; for the status to be Active the Product Record must be linked to a supplier. For more information, see [Dependencies](#).

**Note:**

The Use Alternative Code for Product SOAP API system parameter enables a facility for holding alternative supplier codes against Supplier records. This feature is of use in the external system that does not hold the Brand Compliance supplier codes.

If enabled, and the supplier code submitted by the API is not found in Brand Compliance, a secondary lookup will be performed to attempt to locate the Supplier using the alternative codes facility.

Endpoint address: /services/productService **HTTP method:** createProduct

Request Details

The body of the request contains a createProductRequest element to specify the details of the Product Record to create. Only the attributes that are to be populated on

the created Product Record need to be included. As a minimum, this must include the fields shown in the following table.

Product Record Mandatory Fields

Field Name	Element Name
Product Title	ProductName
Status	Status
Variant Name	ProductName
Quantity	Quantity
Specification Type	SpecificationType - see below
Specification Type Format	SpecificationTypeFormat - see below
Technologist	ProductTechnologist - see below
Other Contacts	OtherContacts - see below
Supplier Details	supplier
Site Details	site

Example Request XML

This example shows the minimum requirement to be able to create a Product Record.

```

xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ext="external.service creations.micros.com" xmlns:sch="http://www.micros.com/
schema">
  <soapenv:Header/>
  <soapenv:Body>
    <ext:createProductRequest>
      <product>
        <sch:ProductNumber>ABC124</sch:ProductNumber>
        <sch:ProductName>AR Product</sch:ProductName>
        <sch:SupplierCode>A0001</sch:SupplierCode>
        <sch>Status>DRAFT</sch>Status>
        <sch:ProductTechnologist>TBC</sch:ProductTechnologist>
        <sch:OtherContacts>
          <sch:Contact>
            <sch>Name>TBC</sch>Name>
            <sch:Role>BUYER</sch:Role>
          </sch:Contact>
          <sch:Contact>
            <sch>Name>TBC</sch>Name>
            <sch:Role>PRODUCT DEVELOPMENT MANAGER</sch:Role>
          </sch:Contact>
        </sch:OtherContacts>
        <sch:Quantity>100g</sch:Quantity>
      </product>
    </ext:createProductRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

If a specification type has more than one format, such as a Food specification having separate formats for Food - UK and Food - US, the SpecificationTypeFormat element is used to specify the specification format and SpecificationType is used to identify the specification type, for example:

```
<sch:SpecificationType>FOOD</sch:SpecificationType>
<sch:SpecificationTypeFormat>FOODUK</sch:SpecificationTypeFormat>
```

The code of the specification type/format must be used rather than the description.

ProductName populates the product name/title and the variant name.

ProductNumber populates the retailer's product code, such as SKU in the Product Coverage table.



Note:

The Allow Duplicate Product Codes for Product SOAP API system parameter controls whether the API permits the same product number to be used by different suppliers or not.

ProductBarcode and OuterBarcode populate the EAN Barcodes and Shipping Case Code barcodes on the Product Record, and are cascaded to the Product Specification when it is linked to the Product Record.

ProductTechnologist and OtherContacts populate the retailer contacts. If not specified, TBC will be defaulted (if the necessary User record has been configured).

Depending on the setup of Brand Compliance, there can be zero to many additional roles for which users must be nominated on a Product Record. For each Role of users, a Contact sub-element is added to OtherContacts which maps to the application's Product Record based on the Role element's value matching the Code of the user role in the application. The users are then loaded using the name supplied. For example, if the system has been set up to include the Buyer role in the Product Record's list of roles:

```
<sch:OtherContacts>
  <sch:Contact>
    <sch:Name>John Smith</sch:Name>
    <sch:Role>BUYER</sch:Role>
  </sch:Contact>
</sch:OtherContacts>
```

See the associated WSDL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a createProductResponse root element, consisting of a Status element populated with SUCCEEDED.

If an error occurs, the createProductResponse root element contains the elements shown in the following table.

Returned Elements

Element	Type	Description
Status	string	Contains FAILED to indicate an error

Element	Type	Description
Message/Message/Severity	string	Contains ERROR to indicate an error
Message/Message/Description	string	The error message, for example: Specification Type FOOD does not map to a single Specification Type Format in Brand Compliance, product not added

**Note:**

Even if the request succeeds, additional warning messages may be included. Check the Status element for SUCCEEDED or FAILED to determine the success or failure of the call.

Errors are returned with a Severity element set to either ERROR (action failed) or WARNING (action completed with the invalid data omitted) and a Description element containing the error message.

Error Messages

Element	Message	Meaning
	Error: Contact TBC not found in Brand Compliance Management Cloud Service, product not added.	User TBC not found; required as the default for contacts if no valid user is specified
SpecificationType	Error: Specification Type <###> does not map to a single Specification Type Format in Brand Compliance Management Cloud Service, product not added.	Specification type not found
SpecificationTypeFormat	Error: Specification Type Format <###> does not exist in Brand Compliance Management Cloud Service, product not added.	Specification format not found
ProductNumber	Error: Product Number <###> already exists in Brand Compliance Management Cloud Service, product not added.	Product Record already exists for the product number and supplier combination
SupplierCode	Error: Supplier <###> is not found in Brand Compliance Management Cloud Service, product with product number null not added.	Supplier not found
SiteCode	Error: Site with code <###> not found in Brand Compliance Management Cloud Service, product not added.	Site not found
ProductBarcode	Warning: EAN barcode <###> is invalid.	Invalid barcode format - ignored
OuterBarcode	Warning: Shipping Case code <###> is invalid.	Invalid barcode format - ignored

Element	Message	Meaning
ProductTechnologist	Error: Contact <###> not found in Brand Compliance Management Cloud Service.	Product Technologist not found
ProductTechnologist	Error: Contact <###> does not have PRODUCT TECHNOLOGIST role, product not added.	User does not have the Product Technologist role
OtherContacts	Error: <###> role is not a valid product record contact role, product not added.	Role not found
OtherContacts	Warning: Contact <###> not found in Brand Compliance Management Cloud Service.	User not found - ignored
LeadBusinessCategory BusinessCategories	Warning: Business Category <###> not found in Brand Compliance Management Cloud Service.	Business category not found - ignored
CountryWhereSold	Warning: Country Where Sold with code <###> not found in Brand Compliance Management Cloud Service.	Business category not found - ignored

updateProduct

Description

Updates an existing Product Record. Use this function to update a Product Record's details in Brand Compliance based on data sourced from the external system.

Endpoint address: /services/productService **HTTP method:** updateProduct

Request Details

The body of the request contains an updateProductRequest element to specify the updates to the Product Record. As a minimum, the values specified as mandatory for the createProduct function (see above) must be included.

The request content is similar to that for creating a Product Record. After the call, the Product Record is updated to match the request.

See the associated WSDL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an updateProductResponse root element, consisting of a Status element populated with SUCCEEDED.

If an error occurs, the updateProductResponse root element contains the elements shown in the following table.

Returned Elements

Element	Type	Description
Status	string	Contains FAILED to indicate an error
Message/Message/ Severity	string	Contains ERROR to indicate an error
Message/Message/ Description	string	The error message, for example: Specification Type FOOD does not map to a single Specification Type Format in Brand Compliance, product not added

Note:

Even if the request succeeds, additional warning messages may be included. Check the Status element for SUCCEEDED or FAILED to determine the success or failure of the call.

Error messages are the same as createProduct, plus the messages shown in the following table.

Error Messages

Element	Message	Meaning
	Error: API does not support multiple variants per Product Record.	Updates may only be applied if the portal is operating in the mode where a separate Product Record is created for individual product variants (such as sizes)
ProductNumber	Error: Product Record not found in Brand Compliance Management Cloud Service (based on Product Number and Supplier Code). Product Record status must be Draft or Active.	Product Record not found

submitProduct

Description

Updates an existing Product Record or creates a new Product Record if it does not already exist. Use this function to pass data from the external system and have the API automatically determine whether a Product Record needs to be updated or created based on whether it already exists in Brand Compliance.

The Product Record to be updated is identified by matching Product Number, Product Name, and Supplier Code as a minimum.

Endpoint address: /services/productService **HTTP method:** submitProduct

Request Details

The body of the request contains a `submitProduct` element to specify the Product Record details. As a minimum, the values specified as mandatory for the `createProduct` function (see above) must be included.

This service determines if the specified product already exists and if so, updates it (per `updateProduct` above). Otherwise, it creates the product (per `createProduct` above).

See the associated WSDL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 3 - Product* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing a `submitProductResponse` root element, consisting of a `Status` element populated with `SUCCEEDED`.

Error Messages

If an error occurs, the `submitProductResponse` root element contains the elements shown in the following table.

Returned Elements

Element	Type	Description
Status	string	Contains FAILED to indicate an error
Message/Message/Severity	string	Contains ERROR to indicate an error
Message/Message/Description	string	The error message, for example: Specification Type FOOD does not map to a single Specification Type Format in Brand Compliance, product not added

 **Note:**

Even if the request succeeds, additional warning messages may be included. Check the `Status` element for `SUCCEEDED` or `FAILED` to determine the success or failure of the call.

Retrieve Product Specifications

This section describes the API for Product Specifications. The following function is available:

- `getProductSpecificationV1`: retrieves a list of Product Specifications in a page list

getProductSpecificationV1

Description

Retrieves a list of Product Specification in a paged list. Use this to extract specifications from Brand Compliance for use in the external system, using parameters to filter the returned specifications to meet the desired selection criteria.

Endpoint address: /services/getProductSpecificationV1 **HTTP method:** getProductSpecification

Request Details

Parameters are passed as URI parameters

URI Parameters

Parameter	Mandatory/Optional	Type	Multiple Value Separator (~) Supported?	Example	Validation
offset	Mandatory	int	No	60	>=0
batchSize	Mandatory	int	No	30	>0 and <=100
specType	Optional	string	Yes	FOOD	FOOD FNF CNF PRODUCE BWS
language	Optional	string	Yes	en_GB	The Code for the required Language, such as en_GB. Specifying a preferred language will return only values in that language. If not specified, the base language is assumed

Parameter	Mandatory/ Optional	Type	Multiple Value Separator (~) Supported?	Example	Validation
specStatus	Optional	string	Yes	RETAILER_D RAFT	SUPPLIER_DRAFT RETAILER_DRAFT COLLABORATIVE_DRAFT GATE_STEP PART_PACK_COPY_SENT PACK_COPY_SENT PACK_COPY_READY READY_FOR_AUTHORISATI ON SUPPLIER_AUTHORISED ACTIVE OFF_RANGE DE_LISTED SUPERSEDED NOT_PROGRESSED APPROVE_FOR_LABELLIN G PRODUCE_DRAFT PRODUCE_PACK_COPY PRODUCE_APPROVED PRODUCE_ARCHIVED
countryWhereSold	Optional	string	Yes	FOOD_COU NTRY_WHE RE_SOLD	The Code for the required Country Where Sold.
productNumber	Optional	string	Yes	12345	Filters on the Product Number column of the Product Coverage table.

Parameter	Mandatory/ Optional	Type	Multiple Value Separator (~) Supported?	Example	Validation
sectionType	Optional	string	Yes	RECIPE_AND_RAW_MATERIALS	ADVANCED_PACKAGING ALLERGY_AND_DIETARY_ADVICE BATCH_CODING CLAIMS_SUBSTANTIATION COMPONENTS COUNTER_TICKET FINISHED_PRODUCT_STANDARDS FNF_STORAGE MAIN_DETAILS NUTRITION OTHER LABELLING_COPY PACKAGING POST_LAUNCH_INFORMATION PROCESS_CONTROLS PRODUCT_APPROVAL_REQUIREMENTS PRODUCT_CHARACTERISTICS PRODUCT_REQUIREMENTS RECIPE_AND_RAW_MATERIALS STORAGE
productCoverage	Optional	string	Yes	Chicken (500g)	Filters on the Product Name column of the Product Coverage table.
supplier	Optional	string	Yes	A0001	Filters on the Primary Sites supplier code for Produce Specifications or the Supplier code for all other types of Specification.
site	Optional	string	Yes	A0001-001	Filters on the code of the Sites in the Primary Sites table of the Product Specification. Use the full site code incorporating the Supplier Code, such as A0001-001.
fromDate	Optional	string	No	2013-06-10T09:00:00	Can be used in conjunction with toDate to form a date range or can be specified individually.

Parameter	Mandatory/ Optional	Type	Multiple Value Separator (~) Supported?	Example	Validation
toDate	Optional	string	No	2013-06-10T 09:00:00	Can be used in conjunction with fromDate to form a date range or can be specified individually.

For example, to retrieve the Main Details and Nutrition sections for active Food specifications where the product number is ABC001 from a specific supplier/site, the request would be:

```
<request>
  <batchsize>100</batchsize>
  <offset>0</offset>
  <specStatus>ACTIVE</specStatus>
  <specType>FOOD</specType>
  <countryWhereSold>UK</countryWhereSold>
  <productNumber>ABC001</productNumber>
  <language>en_GB</language>
  <sectionType>MAIN_DETAILS</sectionType>
  <sectionType>NUTRITION</sectionType>
  <supplier>A0001</supplier>
  <site>A0001-0001</site>
  <fromDate>2016-01-01T01:00:00</fromDate>
  <toDate>2016-10-01T01:00:00</toDate>
</request>
```

If no filtering is required, omit the parameter from the call. For example, if all specification types are to be included, omit the specType element (rather than including it with no value specified).

If multiple values for a parameter are to be included, repeat the parameter in the call. For example if Main Details and Nutrition section types are to be returned, include two sectionType elements in the call, one for MAIN_DETAILS and one for NUTRITION.

Searching with either fromDate or toDate specified, as well as one or more specStatus, filters the specifications on the Status Change History. Use this to retrieve specifications that changed to a specific status during a date range.

Searching with either fromDate or toDate specified without specStatus filters on the specification's last amended date.

Response Details

If successful, an HTTP 200 response is sent with a body containing details of the specifications that match the selection criteria.

See the associated WSDL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 4 - Product (Food Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 5 - Product (CNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 6 - Product (FNF Specification)*, *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 7 - Product (BWS Specification)*, and *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 8 - Product (Produce Specification)* for details of their mapping to the fields within the Brand Compliance UI.

Error Messages

Element	Message	Meaning
offset	Unmarshalling Error: Exception Description: An error occurred unmarshalling the document Internal Exception: org.xml.sax.SAXParseException; cvc-maxInclusive-valid: Value '9999999999999999' is not facet-valid with respect to maxInclusive '2147483647' for type 'int'.	Invalid offset value
offset batchSize	Unmarshalling Error: Exception Description: An error occurred unmarshalling the document Internal Exception: org.xml.sax.SAXParseException; cvc-datatype-valid.1.2.1: '?' is not a valid value for 'integer'.	Non-numeric offset value Non-numeric batch size value
batchSize	<errorCode>INVALIDBATCHSIZE <errorMessage>The Batch Size must be between 1 and 100	Invalid batch size No batch size provided No batch size tag
specType	<errorCode>INVALIDSPECTYPE <errorMessage>The Spec Type <###> does not exist	Specification type not found
specStatus	<errorCode>INVALIDSPECSTATUS <errorMessage>The Status <###> does not exist	Spec Status not found
countryWhereSold	<errorCode>INVALIDCOUNTRYWHERE SOLD <errorMessage>The Country Where Sold <###> does not exist	Country not found
language	<errorCode>INVALIDLANGUAGE <errorMessage>The Language <###> does not exist	Language not found
sectionType	<errorCode>INVALIDSECTIONTYPE<errorMessage>The Section Type does not exist	Section type not found
fromDate toDate	Unmarshalling Error: Exception Description: An error occurred unmarshalling the document Internal Exception: org.xml.sax.SAXParseException; cvc-datatype-valid.1.2.1: '?' is not a valid value for 'dateTime'.	Invalid date format

Project Activities

This section describes the API for Artwork integration. The following function is available:

- [Activity Management](#): updates existing Artwork activities

Activity Management

Description

Updates the sub status of existing Artwork Project Activities. This function is used for the integration of Brand Compliance with an external Artwork Management system, to update the status of an artwork activity from the external system.



Note:

This service has been superseded by the Artwork Restful Service.

Endpoint address: /services/activityManagement **HTTP method:**
updateActivityStatus

Request Details

The body of the request contains an updateActivityStatus/activityUpdateRequest element consisting of the elements shown in the following table.

Request Elements

Element	Type	Description
activityName	string	Project activity's name
activityRecordId	string	Project activity record's internal ID
projectId	string	ID business key to the Project record
projectRecordId	string	Project record's internal ID
subStatusCode	string	Code business key to the activity's sub status

After the call, the Project Activity record's sub status is updated to match the request.

See the associated WSDL for a full list of the attributes, and the *Oracle Retail Brand Compliance Management Cloud Service Data Dictionary, Volume 9 - Project* for details of their mapping to the fields within the Brand Compliance UI.

Response Details

If successful, an HTTP 200 response is sent with a body containing an updateActivityStatusResponse root element, consisting of a return element populated with SUCCESS.

Error Messages

If an error occurs, the updateActivityStatusResponse root element's return element will contain FAILURE.

A

Appendix: Secure Development Guide

The web service APIs provided by Brand Compliance are designed to be secure by default. When consuming these services, there are recommended best practices for the clients which call them. These development and usage guidelines are provided to maintain secure use, and preserve integrity throughout the system domain.

The Brand Compliance web services are secured using HTTPS Basic Authentication. In order to use them, calling clients require an External System logon with which to authenticate. Transport encryption is enabled using TLS v1.2 as a minimum standard.

Best Practices for Web Service Use

This section describes some best practices.

Store External System Credentials Securely

In order to grant access to web services, credentials must be set up within Brand Compliance in an External System record. These credentials, used by the client to call web services, should be managed securely in the client's domain. It is advised *not* to store passwords in plaintext, either in a file or a database table.

Configure External Systems Permissions Appropriately

The permissions of External Systems are configurable, and determine which services may be accessed. The permissions model governs not only the service which is accessible (for example, The Product Service), but also the endpoints (or actions) permissible on that service (for example, Read a Product or Add a Product).

It is recommended that External Systems are set up with the minimum authorities required to perform their required function. External System records should have granular permissions wherever feasible, rather than be granted access to many disparate functions. This minimizes the level of disclosure possible if credentials are compromised.

Maintain Strong Passwords for External System Records

Configurable parameters within the Brand Compliance Oracle Identity Cloud Service (IDCS) or Oracle Cloud Infrastructure Identity and Access Management (OCI IAM) tenant govern the strength of passwords used for External Systems and the rules surrounding their expiry. These parameters are set to values which strike a suitable balance between usability and security by default.

It is advised that should a client wish to change any of these parameter values, it should only be to increase security. Changes which slacken security are *not* recommended.

Those responsible for maintaining clients which consume services should note that passwords for External Systems expire in the same manner as those for regular application users.

 **Note:**

A process for updating the credentials used by the client should be put in place, as IDCS or OCI IAM does not send automated notifications of pending password expiry.

For full details of this functionality, and of External Systems in general, see the *Oracle Retail Brand Compliance Management Cloud Service Administration Guide*.

Make Use of the Web Service Log

Intrusion detection mechanisms are employed within the hosted environment of Brand Compliance to capture to prevent malicious behavior at the network level. In addition to this, protections against XML injection attacks exist at the logical tier.

The application also provides a Web Service Log for users with sufficient permissions to see what calls have been made to its services. This provides a user-centric audit of the web service activity within the application, and can help clients monitor usage, or gather metrics to understand usage behavior further.

Ensure Your Client Supports TLS v1.2 or Higher

All Brand Compliance deployments require communication over HTTPS, and use TLS v1.2 as a minimum encryption protocol. Clients of the web service must be developed within a technology which supports TLS v 1.2 or higher. For example, Java 7 does not support TLS v1.2 out of the box.

Limit the Size of Web Service Payloads

The web services are designed for continued, real-time use. It is recommended that calls to the services are made in a manner to retrieve or send only what is required.

Where larger result sets are necessary however, provision is made within the web service APIs to allow paging of data. By providing an offset and a page size, it is possible to retrieve a page of results at a time.

B

Appendix: Using the Data Privacy API

The Brand Compliance Data Privacy web service API provides a means for the retailer/portal owner to execute data privacy requests. The requests are classified as Right to Access, where an individual requests details of all their personal data that is held in the system; and Right to be Forgotten, where the individual requests that their personal data be erased from the system.

Note:

The provision of the Data Privacy API is a security enhancement which aids the retailer/portal owner to carry out data privacy requests.

It is the responsibility of the retailer/portal owner to manage the fulfilment of data privacy requests. In order to do so, they will need to build an application to call the Data Privacy API, and handle the returned data. The API will be permanently available for access on demand.

The retailer/portal owner's responsibilities include verifying the identity of the individual making the request, presenting the information back to them in a secure manner, and deleting any local copies of the data; also the configuration of the portal's Terms and Conditions to include statements about the consent to store personal data, and any opt-out procedure.

This appendix provides additional detail to support the [DataPrivacyService](#) section of this document. It covers the following areas:

- [Definition of Personal Data](#): an explanation of some of the terminology used, and the type of data within Brand Compliance that is considered to be personal data.
- [Personal Data Flow](#): an overview of the flow of data within Brand Compliance which is considered to be personal data.
- [Right to Access Requests](#): further detail on this type of request, with an example of its execution.
- [Right to be Forgotten Requests](#): further detail on this type of request, with an example of its execution.
- [Other Aspects of Data Privacy](#): other aspects of Data Privacy and how they relate to Brand Compliance.

Definition of Personal Data

The following terms are used to describe the actors involved in the handling and processing of personal data:

- Data Subject - The person whom the personal data describes. In Brand Compliance, this refers to an employee of the retailer/portal owner, an employee of a supplier, or an employee of a third party such as a design agency or certification body.
- Data Controller - The retailer/portal owner. In a cloud environment, Oracle becomes the data custodian, but the retailer/portal owner retains ownership and control of the data.
- Data Processor - Applications that work with personal data, such as Brand Compliance, and any external applications that share its data.

The definition of personal data is any information that can be mapped to a unique user, whether the identifiable information is stored with the key or not.

The personal data held in Brand Compliance is business contact information, such as:

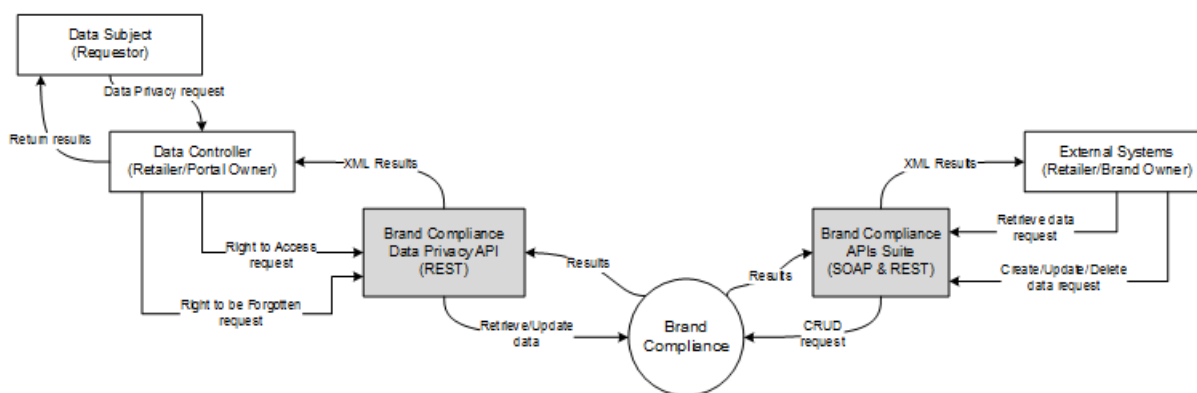
- Name of the data subject
- Contact addresses
- Email addresses
- Telephone and Fax numbers

A general assumption is that user-defined/custom fields and file attachments are not used to store personal data. This is applied as a policy constraint rather than specific controls within the system.

Personal Data Flow

The following diagram outlines the flow of personal data within Brand Compliance:

Figure B-1 Personal Data Flow



The Data Subject (requestor) makes the request to the Data Controller (retailer/portal owner) who submits the request to the Brand Compliance Data Privacy API. The API performs the search or erase processing accordingly and returns the results for the retailer/portal owner to relay back to the requestor.

The full suite of Brand Compliance APIs allows the retailer/portal owner to make requests from external systems to retrieve, create, update, (and in some cases delete) Brand Compliance data. The data handled by these APIs may include personal data.

Access to Brand Compliance data through the APIs is secured by an extension of the system's configurable Permissions security model. Based on the role-based access control model which restricts users' access to data and functionality based on their role within the system, external systems are granted access to the API services. If necessary, the access can be restricted to individual endpoints of the services. Authentication is achieved using individual ids and passwords.

 **Note:**

Brand Compliance does not *push* data to external systems; the retailer/portal owner *pulls* the data. It is therefore the responsibility of the retailer/portal owner to trace and flag any personal data that has been taken from Brand Compliance, as appropriate.

Right to Access Requests

The Right to Access service facilitates the request from the data subject (individual requestor) to the data controller (retailer/portal owner) to provide details of what personal data concerning them is held, and to provide a copy of the data in electronic format.

The majority of personal data is held within User/Person records (an account for each user of the system) and Contact records (supplier users may be designated specific contact roles). There are also instances of personal data that are not linked to a user account, such as the names and email addresses of general contacts, who are not users of the system. The retailer/portal owner must decide which of that data returned by a search relates to the requestor.

When a retailer/portal owner receives a request, they use the *Right to Access* application they have developed to call the Data Privacy API. The API searches Brand Compliance and returns the results for the retailer/brand owner to analyze, and edit or reformat if necessary, before relaying back to the requestor.

Personal Data Searched and Returned

The following table describes the areas of the system that hold personal data, and which fields are searched and returned.

Personal Data

Record/ Element Name	Details
User <user>	<p>Each user of the system has a User record and a Person record which contain their Name, Email, Phone, Mobile, Fax, and Address details. Each account has a Login id, which is unique to the user. Names and email addresses are not necessarily unique.</p> <p>Search Field: Name</p> <p>Returned Fields: Record Type; Name; Email; Phone; Mobile; Fax; Login; Address; User Type (RETAILER, SUPPLIER or SITE); User record id; Person record id</p>

Record/ Element Name	Details
Contact <contact>	<p>A supplier user may be designated a contact for the supplier or its sites. Contact records share data with the User and Person records; they contain the Name, Email, Alternative Email, Phone, Mobile, Fax, and Address fields. A contact may be an individual who is not a user of the system.</p> <p>Search Field: Name (where contact is flagged as not a user of the system)</p> <p>Returned Fields: Record Type; Name; Email; Alternative Email; Phone; Mobile; Fax; Address; Contact record id; Supplier Name; Supplier Code</p>
Company <retailer>	<p>The single Company record holds the main retailer/portal owner contact details of a Contact Name and associated Email, Phone, Fax, and Address fields. The contact may or may not be a user of the system.</p> <p>Search Field: Contact Name</p> <p>Returned Fields: Record Type; Contact Name; Email; Phone; Fax; Address; Company record id</p>
Order Request <orderRequest>	<p>Order Requests are created when a new supplier completes registration. They contain details entered using the registration wizard, such as the name of an Individual or Department, a Contact Name, and associated Email, Phone, Fax, and Address. The contact may or may not be a user of the system.</p> <p>Search Field: Individual or Department; Contact Name</p> <p>Returned Fields: Record Type; Individual or Department; Contact Name; Email; Phone; Fax; Address; Order Request record id; Supplier Name; Supplier Code</p>
Design Agency <designAgency>	<p>A glossary of Design Agencies is used for sending email containing Pack Copy files when a product specification is completed. Each record contains a Contact Name and supporting Email, Phone, Fax, and Address, which refers to an individual at a third-party organization.</p> <p>Search Field: Contact Name</p> <p>Returned Fields: Record Type; Contact Name; Email; Phone; Fax; Address; Design Agency record id</p>
Counter Ticket Producer <counterTicketProducer>	<p>A glossary of Counter Ticket Producers is used for sending email containing Counter Ticket files when a Food or Produce counter ticket specification is completed. Each record contains a Contact Name and supporting Email, Phone, Fax, and Address, which refers to an individual at a third-party organization.</p> <p>Search Field: Contact Name</p> <p>Returned Fields: Record Type; Contact Name; Email; Phone; Fax; Address; Counter Ticket Producer record id</p>
Certification Body <certificationBody>	<p>A glossary of Certification Bodies is used to assign to Third Party Audits. Each record contains a Contact Name and supporting Email, Phone, Fax, and Address, which refers to an individual at a third-party organization.</p> <p>Search Field: Contact Name</p> <p>Returned Fields: Record Type; Contact Name; Email; Phone; Fax; Address; Certification Body record id</p>

Record/ Element Name	Details
Supplier <supplier>	<p>The Supplier record contains a Contact Name and associated Email, Phone, Fax, and Address fields, which refer to an individual who may or may not be a user of the system.</p> <p>Search Field: Contact Name</p> <p>Returned Fields: Record Type; Contact Name; Email; Phone; Fax; Address; Supplier record id; Supplier Name; Supplier Code</p> <hr/> <p>The Supplier record also contains billing details entered using the registration wizard, including the name of an Individual or Department, a Billing Contact Name, and associated Email, Phone, Fax, and Address. They refer to an individual who may or may not be a user of the system.</p> <p>Search Field: Individual or Department; Billing Contact Name</p> <p>Returned Fields: Record Type; Individual or Department; Billing Contact Name; Email; Phone; Fax; Address; Supplier record id; Supplier Name; Supplier Code</p>
Site <site>	<p>The site may have a list of Growers associated to it for Produce type products. The Grower details contain a Grower Name and associated Email and Address, which refer to a third-party organization.</p> <p>Search Field: Grower Name</p> <p>Returned Fields: Record Type; Grower Name; Email; Address; Grower record id; Supplier Name; Supplier Code; Site Name; Site Code</p>
Audit/Visit <audit>	<p>The Audit/Visit record may have free text Name entries in the People Present table for attendees who are not users of the system. Entries for users also store the name in a <i>snapshot</i> text field.</p> <p>The Audit/Visit Issue record may have non-conformance actions with a free text Assigned To Name or a free text Completed By Name. Audit Checklists also share the Assigned To Name when a non-conformance is being created for a Checklist.</p> <p>Search Field: Name in People Present table; Issue Assigned To Name; Issue Completed By Name</p> <p>Returned Fields: Record Type; Name, Assigned To Name; Completed By Name; Audit/Visit record id; Audit/Visit Template Name; Audit/Visit Code; Supplier Name; Supplier Code; Site Name; Site Code; Audit/Visit Issue record id; Audit/Visit Issue Code</p>
Product Specification <productSpecification>	<p>The Product Specification record has a table of Printer Contact Name and associated Email, Phone, Fax, and Address, which refer to individuals at a third-party organization.</p> <p>Search Field: Printer Contact Name</p> <p>Returned Fields: Record Type; Printer Contact Name; Email; Phone; Fax; Address; Specification record id; Specification Number; Specification Version; Specification Name; Supplier Name; Supplier Code; Site Name; Site Code</p> <hr/> <p>The FNF Product Specification record has a PIF Person Responsible and associated Email, Phone, and Fax, which refer to individuals at a third-party organization.</p> <p>Search Field: PIF Person Responsible</p> <p>Returned Fields: Record Type; PIF Person Responsible; Email; Phone; Fax; Specification record id; Specification Number; Specification Version; Specification Name; Supplier Name; Supplier Code</p>

Record/ Element Name	Details
	<p>The Product Specification has various approval names which are stored as free text.</p> <p>Search Field: Supplier Approved Name; Retailer Approved Name/ Counter Ticket Issued By; Validation Override Approved By</p> <p>Returned Fields: Record Type; Supplier Approved Name, Retailer Approver Name; Validation Override Approved By; Specification record id; Specification Number; Specification Version; Specification Name; Supplier Name; Supplier Code</p>
Product Record <productRecord>	<p>The Product Record holds the name of the retailer approver of an associated specification/counter ticket.</p> <p>Search Field: Retailer Approved Name</p> <p>Returned Fields: Record Type; Retailer Approver Name; Product Record id; Product Number; Product Name; Supplier Name; Supplier Code</p>

Security and Logging

The following Service and Endpoint configurations must be configured within the Brand Compliance Admin area, and assigned to the External Systems that are to have access to the Right to Access service:

Service:	DATAPRIV	Data Privacy Service
Endpoint:	DATAPRIV_ACCESS_POST	Creates a new DataPriv request and returns a link to the record's details
Endpoint:	DATAPRIV_ACCESS_GET	Retrieves DataPriv details for a given id

All calls to the service will be logged in the Brand Compliance Web Service Log.

The Data Privacy records created by the service are not viewable in Brand Compliance, and are not purged.

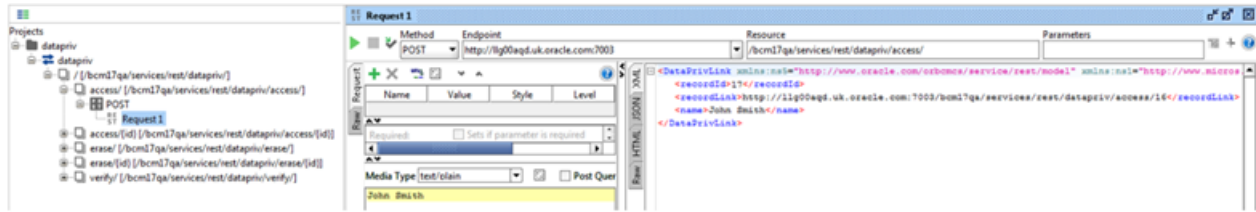
Example of Using the Right to Access Service

The request returns the actual data held, not the context in which it is used within the system. For example, to return the name and contact details of a Product Technologist, but not the fact that within the system they are responsible for approving product specifications and so on.

The stages involved in executing a Right to Access request are as follows. For this worked example, the call is made using a web service testing application.

1. Download the datapriv WADL definition from the /services area of the Brand Compliance portal.
2. Submit a POST call to the services/rest/datapriv/access service, passing the name of the individual in the payload.

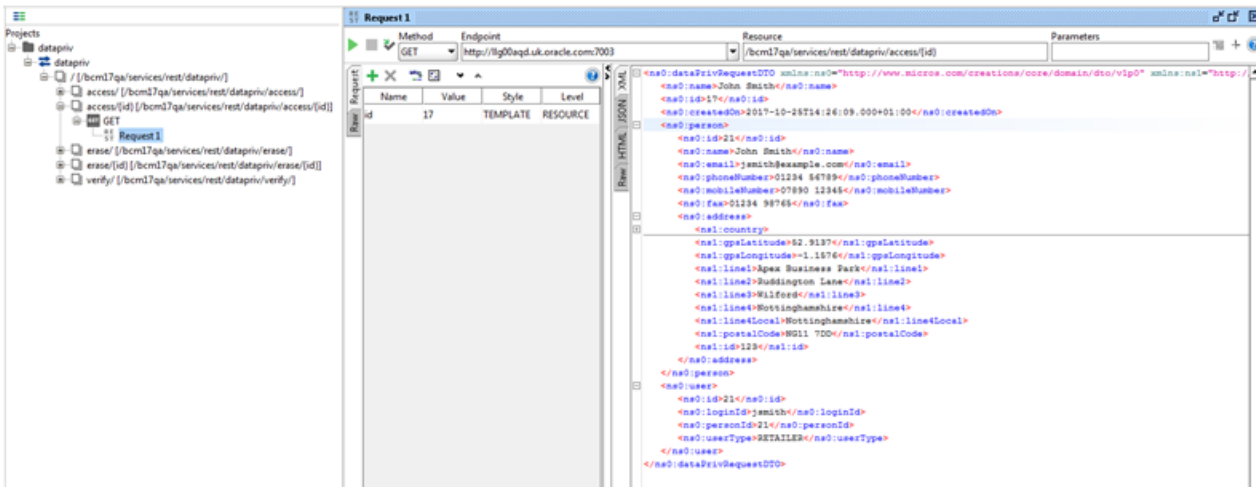
Figure B-2 Access Post Request



A recordLink element is returned with a link to a Data Privacy record.


3. Submit a GET call to the `services/rest/datapriv/access` service, passing the returned recordId value as the id parameter.

Figure B-3 Access Get Request



A message is returned containing the personal data that matches the name, within a `dataprivRequestDTO` root element. The structure of the XML message is as follows:

Figure B-4 Access Returned Message



```

<ns0:dataprivRequestDTO xmlns:ns0="http://www.micros.com/creations,
http://www.micros.com/creations/core/domain/dto/vlp0/full" xmlns:ns:
<ns0:name>John Smith</ns0:name>
<ns0:id>17</ns0:id>
<ns0:createdOn>2017-09-07T09:01:50.000+01:00</ns0:createdOn>
<ns0:person>
<ns0:person>
<ns0:user>
<ns0:user>
<ns0:designAgency>
<ns0:counterTicketProducer>
<ns0:certificationBody>
<ns0:orderRequest>
<ns0:retailer>
<ns0:supplier>
<ns0:supplier>
<ns0:site>
<ns0:contact>
<ns0:contact>
<ns0:audit>
<ns0:audit>
<ns0:audit>
<ns0:productSpecification>
<ns0:productSpecification>
<ns0:productSpecification>
<ns0:productSpecification>
<ns0:productRecord>
<ns0:productRecord>
</ns0:dataprivRequestDTO>

```

Returned Elements

Element Name	Details
name	The name of the individual as passed on the POST request.
id	The record id of the Data Privacy record created for this request.
createdOn	Timestamp of when the request was submitted.
person	Personal data fields from the Person records that match the name parameter.
user	Personal data fields from the User records that match the name parameter.
designAgency	Personal data fields from the Design Agency records that match the name parameter.
counterTicketProducer	Personal data fields from the Counter Ticket Producer records that match the name parameter.
certificationBody	Personal data fields from the Certification Body records that match the name parameter.
orderRequest	Personal data fields from the Order Request records that match the name parameter.
retailer	Personal data fields from the Company/Retailer record that matches the name parameter.
supplier	Personal data fields from the Supplier record that match the name parameter.
site	Personal data fields from the Site record that match the name parameter.
contact	Personal data fields from the Contact records that match the name parameter.

Element Name	Details
audit	Personal data fields from the Audit/Visit and Issue records that match the name parameter.
productSpecification	Personal data fields from the Product Specification records that match the name parameter.
productRecord	Personal data fields from the Product Records that match the name parameter.

The personal data fields are contained within tags that are similar to their (English) field labels in the UI:

```
<ns0:user>
  <ns0:id>7</ns0:id>
  <ns0:loginId>john smith</ns0:loginId>
  <ns0:name>John Smith</ns0:name>
  <ns0:email>jsmith-supplier@example.com</ns0:email>
  <ns0:userType>SUPPLIER</ns0:userType>
</ns0:user>
```

Additional metadata fields are included to identify the record by its code/id, name/description, and type.

Address elements may contain multiple localeData elements for country language translations:

```
<ns0:address>
  <ns1:country>
    <ns2:code>GB</ns2:code>
    <ns2:countryType>COUNTRY</ns2:countryType>
    <ns2:internetDomainSuffix>co.uk</ns2:internetDomainSuffix>
    <ns2:localeData>
      <ns1:description>Reino Unido</ns1:description>
      <ns1:locale>es</ns1:locale>
      <ns1:id>1904</ns1:id>
    </ns2:localeData>
```

There may be duplicates of the elements, where the system has more than one user with the same name, or where there are multiple records associated to an individual.

4. Edit the message using a text editor to remove duplicates, or entries that do not relate to the individual who made the request, and reformat if necessary, before delivering back to the requestor.

Right to be Forgotten Requests

The Right to be Forgotten service facilitates the request from the data subject (individual requestor) to the data controller (retailer/portal owner) to erase the personal data concerning them. The erasure of data is subject to certain predefined conditions within the system, and to the discretion of the data controller as to if/what data may be erased. The erasure is not reversible.

Data is erased by obfuscation, that is, replacing the value with a string of random text.

When a retailer/portal owner receives a request, they use the *Right to be Forgotten* application they have developed to call the Data Privacy API. The API validates the request and erases the requested data from Brand Compliance. The retailer/portal owner then relays the result back to the requestor.

Personal Data Updated

Generally, personal data is erased from User and Contact records, with the obfuscation of names and email addresses being reflected elsewhere in the system wherever they are referenced. Personal data that is not linked to a User or Contact record may also be erased; the retailer/portal owner must make a judgement on whether the data relates to the individual making the request.

The following table describes which areas of the system may have data erased.

Erasurable Personal Data

Record	Fields
Users	Name; Email; Phone; Mobile; Fax; Login; Address
Contacts	Name; Email; Alternative Email; Phone; Mobile; Fax; Address
Company	Contact Name; Email; Phone; Fax
Order Request	Individual or Department; Contact Name; Email; Phone; Fax
Design Agency	Contact Name; Email; Phone; Fax; Address
Counter Ticket Producer	Contact Name; Email; Phone; Fax; Address
Certification Body	Contact Name; Email; Phone; Fax; Address
Supplier	Contact Name; Email; Phone; Fax Individual or Department; Billing Contact Name; Email; Phone; Fax in the Billing Details
Site	Grower Name; Email; Address in the Growers table
Audit/Visit	Name in the People Present table Assigned To Name; Completed By Name in the Issue record
Product Specification	Printer Contact Name; Email; Phone; Fax; Address in the OLC section's Printers table PIF Person Responsible; Email; Phone; Fax in the FNF specification's Formulation section Supplier Approved Name; Retailer Approver Name; Validation Override Approved By
Product Record	Retailer Approver Name

Text fields are replaced with randomly-generated text; the numeric GPS address fields are blanked; email addresses are set to x@example.com where x is 15 characters of randomly-generated text; countries and region selections are set to blank. If a field is blank, it remains unchanged.

If a User record is updated, the account is also deactivated and the password is expired.

 **Note:**

The obfuscation of data in Brand Compliance as a result of a Right to be Forgotten erasure request is not reversible.

Personal data may also be updated using the individual APIs, or manually edited within the system. Physical deletion is not possible, due to referential integrity.

Exceptions

The key purpose of Brand Compliance is to assure due diligence in the management of the retailer/portal owner's products, and the suppliers thereof. There are legal or regulatory obligations to retain the approved technical product specifications for a set number of years, and during that time they may be required as legal evidence as part of a product safety issue. Where the approval or authorization by an individual forms part of the due diligence evidence, it is not feasible for the individual to be *forgotten*.

The following table indicates which fields are considered to be authorizations, and are preserved for due diligence purposes. These exceptions are therefore not erasable.

Preserved Personal Data

Record	Field
Scorecard	Completed By
Product Record	Retailer Approval
Produce Product Record	Retailer Approval
Temporary Specification	Approved By
Produce Specification	Approved By
	Counter Ticket Issued By
Product Specification	Supplier Approved Name
	Retailer Approved Name
	Validation Override Approved By
	Counter Ticket Issued By

Also, any names and email addresses within Pack Copy Files that have already been generated, and the Email, Batch Job, and Permissions Upload logs in the Admin area are preserved.

Purging Inactive User Accounts

The Right to be Forgotten service may also be used for purging user accounts that are no longer active, that is, those of users who have left the organization or are no longer involved in using the system. This is achieved by calling the API in the same way as if processing a Right to be Forgotten request.

Automatic date-based purging, such as a period of time since the user's account was disabled, or since their last login, is not provided, however the retailer/portal owner could feasibly develop a means of recursively calling the API based on a set of logic rules.

Security and Logging

The following Service and Endpoint configurations must be configured within the Brand Compliance Admin area, and assigned to the External Systems that are to have access to the Right to be Forgotten service:

Service:	DATAPRIV	Data Privacy Service
Endpoint:	DATAPRIV_VERIFY_POST	Creates a new verification request for a login id
Endpoint:	DATAPRIV_ERASE_POST	Creates a new Erasure request and returns a link to the record's details
Endpoint:	DATAPRIV_ERASE_GET	Retrieves Erase details for a given id

All calls to the service will be logged in the Brand Compliance Web Service Log.

The Data Privacy records created by the service are not viewable in Brand Compliance, and are not purged.

Entries within the Brand Compliance Change History logs, Attachments logs, and Comments logs use a foreign key to reference the name of the user who updated the record, attached the file, or added the comment. This means that if the name of the user is obfuscated in the User record, the name will automatically become overwritten with randomly-generated text in the logs.

Updates to records to erase personal data through the Data Privacy API are not recorded in the record's Change History log. This avoids showing what the value was before and after obfuscation.

Example of Using the Right to be Forgotten Service

The stages involved in executing a Right to be Forgotten request are as follows. For this worked example, the call is made using a web service testing application.

1. Download the `datapriv` WADL definition from the `/services` area of the Brand Compliance portal.
2. Use the Right to Access service to retrieve the individual's set of personal data (see [Right to Access Requests](#)).
3. Edit the returned XML message using a suitable text editor, removing duplicate user and person elements.

Figure B-5 XML for Forgotten Returned

```

1 <ns0:dataPrivRequestDTO xmlns:ns0="http://www.micros.com/creation
2 http://www.micros.com/creations/core/domain/dto/vlp0/full" xmlns:
3 <ns0:name>John Smith</ns0:name>
4 <ns0:id>17</ns0:id>
5 <ns0:createdOn>2017-10-25T14:26:09.000+01:00</ns0:createdOn>
6 <ns0:person>
7   <ns0:id>21</ns0:id>
8   <ns0:name>John Smith</ns0:name>
9   <ns0:email>jsmith@example.com</ns0:email>
10  <ns0:phoneNumber>01234 56789</ns0:phoneNumber>
11  <ns0:mobileNumber>07890 12345</ns0:mobileNumber>
12  <ns0:fax>01234 98765</ns0:fax>
13  <ns0:address>
14 </ns0:person>
15 <ns0:person>
16   <ns0:id>7</ns0:id>
17   <ns0:name>John Smith</ns0:name>
18   <ns0:email>jsmith-supplier@example.com</ns0:email>
19   <ns0:phoneNumber>09876 54321</ns0:phoneNumber>
20   <ns0:mobileNumber>07890 12345</ns0:mobileNumber>
21   <ns0:fax>09876 54320</ns0:fax>
22   <ns0:address>
23 </ns0:person>
24 <ns0:user>
25   <ns0:id>21</ns0:id>
26   <ns0:loginId>jsmith</ns0:loginId>
27   <ns0:personId>21</ns0:personId>
28   <ns0:userType>RETAILER</ns0:userType>
29 </ns0:user>
30 <ns0:user>
31   <ns0:id>7</ns0:id>
32   <ns0:loginId>john smith</ns0:loginId>
33   <ns0:name>John Smith</ns0:name>
34   <ns0:email>jsmith-supplier@example.com</ns0:email>
35   <ns0:userType>SUPPLIER</ns0:userType>
36   <ns0:address>
37     <ns1:id>36</ns1:id>
38   </ns0:address>
39 </ns0:user>
40 <ns0:designAgency>

```

In this example, there are two pairs of user and person elements because there are two user accounts with the name John Smith - one for a retailer user and one for a supplier user (user name and email address are not unique, it is the login id that uniquely identifies a user).

In order to pass validation, there must only be one user and person element in the submitted XML message. Remove any user and person elements that are not the individual being erased. Delete all the data between the opening and closing tags, just leaving a single person and user:

Figure B-6 XML for Forgotten One Person

```

1 <ns0:dataPrivRequestDTO xmlns:ns0="http://www.micros.com/creation:
2 http://www.micros.com/creations/core/domain/dto/vlp0/full" xmlns:
3 <ns0:name>John Smith</ns0:name>
4 <ns0:id>17</ns0:id>
5 <ns0:createdOn>2017-10-25T14:26:09.000+01:00</ns0:createdOn>
6 <ns0:person>
7   <ns0:id>21</ns0:id>
8   <ns0:name>John Smith</ns0:name>
9   <ns0:email>jsmith@example.com</ns0:email>
10  <ns0:phoneNumber>01234 56789</ns0:phoneNumber>
11  <ns0:mobileNumber>07890 12345</ns0:mobileNumber>
12  <ns0:fax>01234 98765</ns0:fax>
13  <ns0:address>
14 </ns0:person>
15 <ns0:user>
16   <ns0:id>21</ns0:id>
17   <ns0:loginId>jsmith</ns0:loginId>
18   <ns0:personId>21</ns0:personId>
19   <ns0:userType>RETAILER</ns0:userType>
20 </ns0:user>
21 <ns0:designAgency>

```

 **Note:**

The message is XML and can be edited using any UTF-8 compliant text editor.

It is vital that the structure and syntax of the message is maintained (with matching pairs of tags), so editing with a tool that recognizes the XML file format is recommended. For details of the message structure, see [Right to Access Requests](#).

Metadata fields that are included in the message to identify the records by their code/id, name/description or type are not erased. For details of which fields may be erased, see the [Erasable Personal Datatable](#).

Person/User/Contact Relationships

There may be a combination of user, person, and contact elements for an individual, depending on their role within the system:

- Each user of the system has a single User record and a single Person record.
- If a supplier user is a contact, in addition to their User and Person records, they have a Contact record for each of their designated contact roles.
- If an individual is a contact but they are not actually a user of the system, they have a Person record, plus a Contact record for each of their designated contact roles.

When submitting a Right to be Forgotten request, the following validation checks are applied:

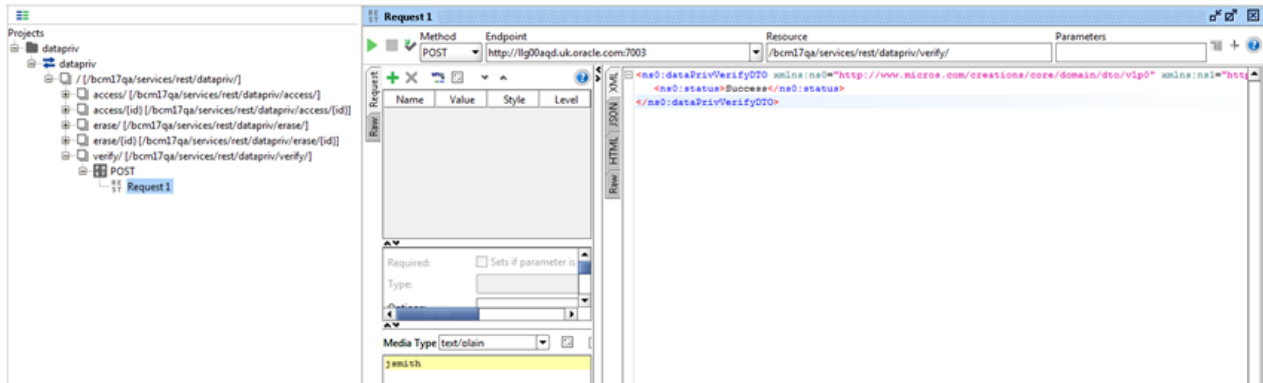
- Only one user element must be present.
 - Only one person must be present.
 - The associated person element must be present for a user or a contact element.
 - The personId in the user element must match the id in the person element.
 - The personId in the contact element must match the id in the person element.
 - The user id in the contact element must match that in the user element.
 - All contacts must be linked to the same person.
 - A person element must have an associated user or contact element.
4. Make further edits to the XML message to check that the data in the elements for designAgency, supplier, productSpecification, and so on, all relate to the individual making the request. If not, delete the elements.

When submitted, the personal data elements that remain in the message will result in the corresponding fields being erased in Brand Compliance (the field contents are replaced with randomly-generated text).

If an element is removed, the field contents remain unchanged. For example, if wishing to erase the Grower Name but not the associated Email Address or Address within the Site element, delete the growerEmail and growerAddress elements from the XML message.

- Optionally submit a POST call to the services/rest/datapriv/verify service, passing the login id of the individual (obtained from the User element of the XML message returned in Step 2) in the payload:

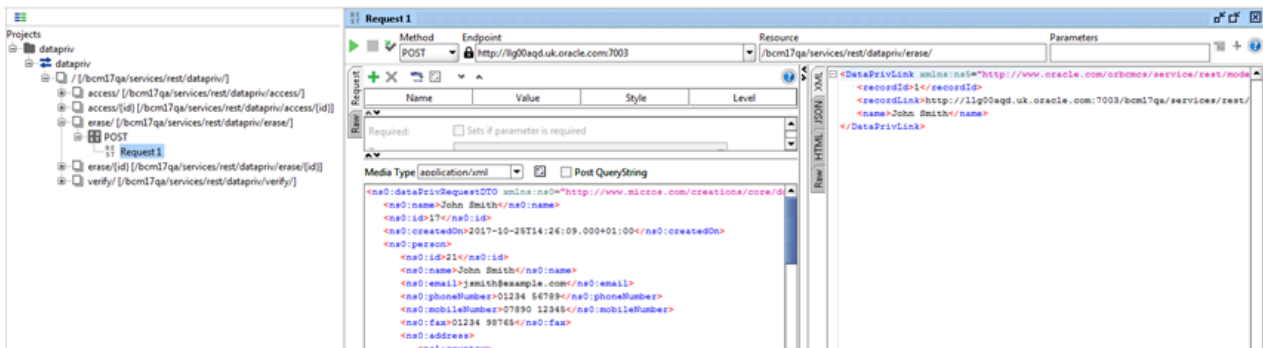
Figure B-7 Forgotten Post Call



This step checks whether the individual is responsible for the completion of a Scorecard, in which case they will not be permitted to be erased.

- Submit a POST call to the services/rest/datapriv/erase service, passing the XML message in the payload:

Figure B-8 Forgotten Post Second Call

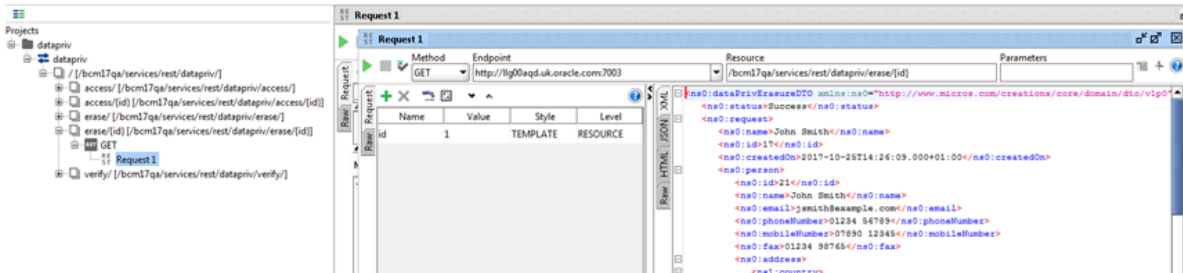


A recordLink element is returned with a link to a Data Privacy record.

For possible failure conditions, see the [Error Messages](#) table.

- Submit a GET call to the services/rest/datapriv/erase service, passing the returned recordId value as the id parameter:

Figure B-9 Forgotten Get Call

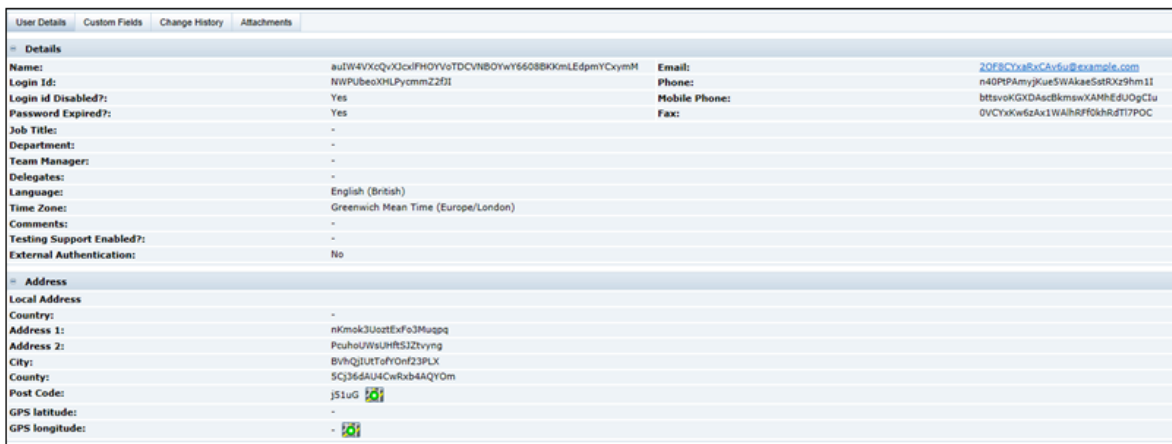


A confirmation message is returned, with the original data in a `dataPrivErasureDTO` root element.

- Optionally perform another a Right to Access request to check that the personal data has been erased as expected.

Otherwise, viewing the erased records within Brand Compliance will show the obfuscated data:

Figure B-10 Forgotten Removed Data



- Advise the requestor of the outcome of their request.

Other Aspects of Data Privacy

This section describes some other aspects of Data Privacy, and how they relate to Brand Compliance.

 **Note:**

The data passed to IDCS or OCI IAM includes personal information (user name and email address). The user may also manually enter personal contact information in IDCS or OCI IAM.

The Brand Compliance *Right to Access* and *Right to Erase/Right to be Forgotten* data privacy services are not extended to access IDCS or OCI IAM, so the retailer must also check for a corresponding user profile in IDCS or OCI IAM, and where necessary, remove the personal information from OCI IAM.

When a new user is created in Brand Compliance, the User record has a flag set to indicate that its data has been passed to IDCS or OCI IAM.

Data Portability

Data Portability is the right for the data subject to receive the data concerning them, in a common, structured machine-readable format. The Right to Access service and other APIs provide access to the majority of Brand Compliance data. The Reports module also allows the export of data in various formats.

Privacy by Design and Data Minimization

Privacy by Design and Data Minimization relates to making data privacy and protection integral to the design of the system, such as minimizing the data set to that which is necessary to perform the function of the system, and restricting the access to personal data to just the users that need it. The personal data held in Brand Compliance is already minimal; it relates to business contact data.

Access to the Brand Compliance data is restricted by the Permissions security model, based on the user's roles and what organization they are associated to; the configurable access controls are granular, down the level of individual fields.

There is no need to specifically mark fields as *sensitive* in Brand Compliance, however, the retailer/portal owner could chose to do so by configuring the field label system text themselves.

Data Deletion

The deletion of data is limited due to the due diligence nature of Brand Compliance. Certain data must be retained indefinitely, so options to delete or purge data are limited to a select few areas. Where data is deleted, it is not possible for it to be re-accessed.

The Right to be Forgotten solution includes the retailer/portal owner's ability to purge personal data from inactive user accounts. As certain data cannot be physically deleted, the erasure is by obfuscating the appropriate fields.

Notice and Consent

Notice and Consent is necessary where personal data is being held or processed. In Brand Compliance, the Terms and Conditions pages can be configured by the retailer/portal owner to include the necessary notices for the user to accept or otherwise.

Availability

Backup and disaster recovery facilities for Brand Compliance are provided as standard as part of the Cloud Service solution.

The majority of Brand Compliance data is available for export using the suite of secure APIs.

Tracking Technologies

Brand Compliance does not include any Tracking Technologies such as IP addresses or device fingerprints. A single cookie is used, for session connectivity.

Separation of Duties

Some tasks, such as the approval of a Product Specification or completion of an Audit, require actions by separate users; the completion of the tasks is controlled in Brand Compliance by workflow rules.

Logging

Maintenance of Brand Compliance records is recorded in the Change History log. Read access is not logged.

The Web Service log records details of all API calls; these are accessible only to administrators.

The Brand Compliance data is secured by HTTPS/SSL in transit; data at rest in the MySQL application database is not encrypted.

C

Appendix: Using the Report Attachment API

The Brand Compliance Reports module provides a suite of *standard* reports with the facility for building new reports using the Oracle BI Publisher Template Builder plug-in for Word. Reports are scheduled in the Report Scheduler area where the recipients are assigned, along with whether the report is a single or recurring run, and the type of output (PDF, Excel, RTF, or HTML). When the report has been generated, it is stored as a file attachment in the Report Outputs area, within a hierarchical folder structure.

The Report Attachment API provides a means of automatically retrieving the report output attachments from the Report Outputs area, for taking the data into an external system for further analysis or processing.

When a report is generated, the recipients are notified by an email which contains a link to the report. An external system can be defined as a recipient. The External System record in the Brand Compliance Admin area can have an email address assigned, making it available for selection as the recipient of a report. The email sent to the external system contains a link to the report along with a link to the actual attachment file; the Report Attachment API can then be used to retrieve the attachment using this link.

The data returned by the API is a Base64 encoded text string which must then be processed by a Base64 decoder to convert it to the actual report file.

The following diagram describes the stages of the process for using the Report Attachment API to retrieve a report output.

- The external system processes the returned messages and report attachment data according to its intended purpose. The data must first be decoded from Base64 encoding.

Response Example:

```
<ns1:attachmentFullDTO
  xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/full"
  xmlns:ns2="http://www.micros.com/creations/core/domain/dto/v1p0/simple">
  <ns1:attachedBy>
    <ns2:code>oau</ns2:code>
    <ns2:disabled>>false</ns2:disabled>
    <ns2:externalAuthenticationUser>>false</ns2:externalAuthenticationUser>
    <ns2:timeZone>Europe/London</ns2:timeZone>
    <ns2:userType>RETAILER</ns2:userType>
    <ns2:id>22</ns2:id>
  </ns1:attachedBy>
  <ns1:attachedOn>2018-06-28T10:20:27.000+01:00</ns1:attachedOn>
  <ns1:dataLength>3786</ns1:dataLength>
  <ns1:fileName>RT1.pdf</ns1:fileName>
  <ns1:localeData>
    <ns1:description><![CDATA[Test]]></ns1:description>
    <ns1:id>1190</ns1:id>
  </ns1:localeData>
  <ns1:id>1190</ns1:id>
  <ns1:ownerClass>com.micros.creations.core.domain.ReportResult</ns1:ownerClass>
  <ns1:ownerId>156</ns1:ownerId>
  <ns1:data>JVBERi0xLjYNCjUgMCEvYmoNCjw8DQovVHlwZSAvUGFnZQ0KL1Bhc...</ns1:data>
</ns1:attachmentFullDTO>
```

Note:

It is the responsibility of the retailer/portal owner to build an application to call the Report Attachment API and handle the returned messages and data, including any further processing of the data or interfaces with external systems.

For portals that use the Enhanced Access Control (EAC) level of permissions, the retrieval of reports as attachments through the API does not apply EAC area permissions filtering (as is the case for all other Brand Compliance APIs).

Glossary

API

Application Programming Interface, a type of web service. It provides a way of communicating with a particular computer program or internet service, such as the interfaces between Brand Compliance and other systems, by exchanging data as XML files.

DELETE

A web service call used to delete an existing resource (not generally used in the APIs exposed in Brand Compliance).

GET

A web service call used to retrieve data without modifying it, for example, to request details of specifications.

HEAD

Identical to GET except that the server does not return a message-body in the response. The header information retrieved is the same as for a GET request and obtains meta-information without transferring the entity-body itself.

HTTP

Hyper Text Transfer Protocol, an application protocol used as the foundation for data communication on the World Wide Web.

HTTPS

Communication over Hyper Text Transfer Protocol which is protected with an additional security layer. Used to authenticate the site visited and protect the exchanged data.

oneTimePad

A secure encryption technique which uses a string of randomly generated numbers to produce a key for encoding and decoding a message. Both the sender and receiver of the message have a copy of the key and each key (or section of the key) is used only once.

POST

A web service call used to create new resources, for example, to create a new supplier or new user record.

PUT

A web service call used to update an existing resource, for example, to update/amend an existing supplier or user record.

REST / RESTful

Representational State Transfer, an architectural style consisting of a coordinated set of architectural constraints applied to components, connectors, and data elements, within a distributed system.

In Brand Compliance, most new services or new versions of services will use RESTful architecture.

SOAP

Simple Object Access Protocol, an XML-based protocol for exchanging data over HTTP. In Brand Compliance, SOAP services are developed for specific, definite requirements or tend to be associated with historical services.

URI

Uniform Resource Identifier, a string of characters used to identify the name of a resource and enable it to be accessed over a network such as the World Wide Web. A common example of a URI is the Uniform Resource Locator (URL), or web address.

WADL

Web Application Description Language, an XML-based interface description language for describing the functionality offered by a RESTful web service.

WSDL

Web Services Description Language, an XML-based interface description language for describing the functionality offered by a SOAP web service.

XML

Extensible Markup Language, a language used to encode a document in a way which is both human readable and machine readable.

Markup symbols are used to define the content of the document and to indicate what that content is associated to in the sending or receiving system.

XSD

XML Schema Definition, defines the structure and data type of the elements in an XML document. XSD is used to validate the content of an XML document.