

**Oracle® Retail Brand Compliance Management  
Cloud Service**

Implementation Guide

Release 18.3

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Primary Author: Bernadette Goodman

Contributing Author: Aidan Ratcliffe, Simon Tucker

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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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For more information, see the following documents in the Oracle Retail Brand Compliance Management Cloud Service Release 18.3 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 18.0.x Data Models* (Doc ID: 2480297.1)

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## Conventions

The following text conventions are used in this document:

| Convention      | Meaning                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | 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. |



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# 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:

- [Chapter 2, "API Overview and Architecture"](#): Overview of the Brand Compliance APIs and architecture used.
- [Chapter 3, "APIs Available in Brand Compliance"](#): Summary of the APIs, including the release in which the API is available and the type of API.
- [Chapter 4, "RESTful APIs"](#): Details of the available APIs that are based on the RESTful architecture.
- [Chapter 5, "SOAP APIs"](#): Details of the available APIs that are based on the SOAP architecture.
- [Appendix A, "Appendix: Secure Development Guide"](#): Description of some best practices for web service use.
- [Appendix B, "Appendix: Using the Data Privacy API"](#): Additional detail on using the Data Privacy API, including examples.
- [Appendix C, "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.

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## 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>

```

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

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

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## 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 Identity Cloud Service (IDCS) 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 tenant.

---

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

Prior to 18.2, access was direct from the browser through the load balancer/firewall, into the application. After the first call, a session was established with the application for the authenticated user (the external system), and was used thereafter. From 18.2 onwards, all requests are guarded by IDCS and CloudGate. Using Basic authentication, no user session is established with IDCS and CloudGate. Subsequent requests will need to continue sending the Basic authentication header. Web browsers do not re-send this authentication header.

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 to get back an access bearer token and then supply that token on each request to the application's web services.

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## 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

## 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`.

## Change History

Updates made to Brand Compliance records through the APIs are shown in the record's Change History log with user shown as System.

## 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.

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**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.

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### 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.

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**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.

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## 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 |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|
| <b>User Details</b>                    |                                                                                                                                                                  |      |              |            |
| userDetails                            | Manages single sign-on between the main Brand Compliance application and the Reports module.<br><br>This is superseded by the SSO Restful Service.               | SOAP | 1.0          | 15.0       |
| <b>Product Service</b>                 |                                                                                                                                                                  |      |              |            |
| 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        |
| <b>Retrieve Product Specifications</b> |                                                                                                                                                                  |      |              |            |
| getProductSpecificationV1              | Retrieves a paged list of Product Specification records filtered according to the parameters defined in the request.                                             | SOAP | 1.8          | TBC        |
| <b>Project Activities</b>              |                                                                                                                                                                  |      |              |            |
| Activity Management                    | Allows updates to Project Activities from an external service. Used in Artwork integration.<br><br>This service has been superseded by the Artwork Rest Service. | SOAP | 1.8          | 1.10       |
| <b>UserRestService</b>                 |                                                                                                                                                                  |      |              |            |

| Service Name and Functions          | Description                                                                                                                                                                | Type | From Version | To Version |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|
| 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         |
| 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         |
| <b>SupplierRestService</b>          |                                                                                                                                                                            |      |              |            |
| 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         |
| <b>SiteRestService</b>              |                                                                                                                                                                            |      |              |            |
| 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         |

| Service Name and Functions                       | Description                                                                                                                                                                                             | Type | From Version | To Version |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|
| 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         |
| <b>ContactRestService</b>                        |                                                                                                                                                                                                         |      |              |            |
| List of Values                                   | Retrieves a list of contacts in a paged list.                                                                                                                                                           | REST | 15.0         | NA         |
| 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         |
| <b>ProductRecordRestService</b>                  |                                                                                                                                                                                                         |      |              |            |
| 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         |

| Service Name and Functions             | Description                                                                                                                                                                                                                       | Type | From Version | To Version |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|
| Update Record                          | Updates an existing Product Record.                                                                                                                                                                                               | REST | 1.9          | NA         |
| <b>ProductSpecificationRestService</b> |                                                                                                                                                                                                                                   |      |              |            |
| 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         |
| 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         |
| <b>BusinessCategoryService</b>         |                                                                                                                                                                                                                                   |      |              |            |
| 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         |
| <b>AuditRestService</b>                |                                                                                                                                                                                                                                   |      |              |            |
| List of Values (Audit)                 | Retrieves a list of Audits or Visits in a paged list.                                                                                                                                                                             | REST | 16.0         | NA         |

| Service Name and Functions                  | Description                                                                                                                                                                                | Type | From Version | To Version      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|-----------------|
| 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              |
| 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              |
| <b>TaskRestService</b>                      |                                                                                                                                                                                            |      |              |                 |
| List of Values                              | Retrieves a list of current tasks for the user in the given language.                                                                                                                      | REST | 1.9          | NA              |
| <b>UrgentItemsRestService</b>               |                                                                                                                                                                                            |      |              |                 |
| Number of Urgent Items                      | Retrieves the number of urgent items pending for a given user.                                                                                                                             | REST | 1.9          | NA              |
| <b>ArtworkRestService</b>                   |                                                                                                                                                                                            |      |              |                 |
| 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 |

| Service Name and Functions          | Description                                                                                                                                                                 | Type | From Version | To Version |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|------------|
| <b>DataPrivacyService</b>           |                                                                                                                                                                             |      |              |            |
| 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         |
| <b>AttachmentRestService</b>        |                                                                                                                                                                             |      |              |            |
| 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         |
| <b>ScorecardRestService</b>         |                                                                                                                                                                             |      |              |            |
| List of Values                      | Retrieves a list of Scorecards in a paged list.                                                                                                                             | REST | 18.1         | NA         |
| 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         |
| <b>ProjectRestService</b>           |                                                                                                                                                                             |      |              |            |
| 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         |
| <b>ActivityRestService</b>          |                                                                                                                                                                             |      |              |            |
| List of Values                      | Retrieves a list of Project Activities 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 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<br>Audits & Visits REST API<br>Specs REST API update & create<br>Supplier REST API - Linked Suppliers?<br>Updated to REST Spec Inbound API<br>Additional Supplier Info added to Produce Product Record<br>Sustainability added to Spec                                                                                           |
| 17.0            | Business Categories REST API<br>Audits & Visits REST API<br>Specs REST API update & create<br>Supplier REST API - Linked Suppliers?<br>Updated to REST Spec Inbound API<br>Additional Supplier Info added to Produce Product Record<br>Sustainability added to Spec                                                                                           |
| 18.0            | Additional filters on Specs REST API<br>Attachments REST API for Reports<br>Changes to Specs REST API for use as report data source<br>Alternative Product Number & Division added to Spec<br>Date Approved added to Spec Main Details section<br>Fields added to Main Details Spec section XML<br>Additional Supplier Info updated in Produce Product Record |

| Release Version | Enhancements                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.1            | Scorecards REST API<br>Projects & Activities REST API<br>Attachments REST API (Scorecards, Projects & Activities)<br>Additional filters for Spec, Supplier & Site REST APIs<br>Audit/Visit code added to Audits REST API<br>Wildcard searching & error logging added to REST APIs<br>Extended Nutrient Target fields added to Spec<br>Combined Specs fields added to Spec |
| 18.2            | Artwork SSO API removed<br>ORBC-IDCS APIs<br>Password fields removed from Users API for IDCS<br>Advanced Packaging section added to Spec                                                                                                                                                                                                                                  |
| 18.3            | Nutri-Score data added to Spec<br>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.<br>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"> <li>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.</li> <li>Users must be created manually in both systems. SSO is achieved using a SOAP call.</li> </ul>                                                                                                                                                                                                                |
| 1.8     | Single Sign-on (SSO) Phase II: <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> |
| 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"> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                          |
| 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.<br><br>See the <i>Oracle Retail Brand Compliance Management Cloud Service Administration Guide</i> for details of the use of IDCS in Brand Compliance.<br><br>The Artwork solution must be upgraded to a version that can communicate with the IDCS tenant to continue to utilize Single Sign-on.                                                                                                            |

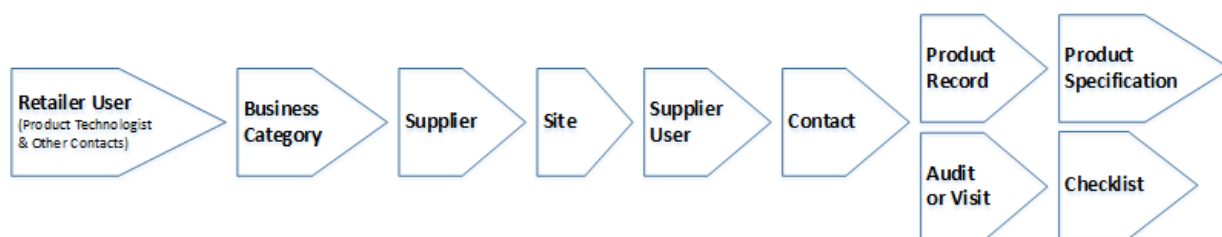
## Data Privacy API

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:



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

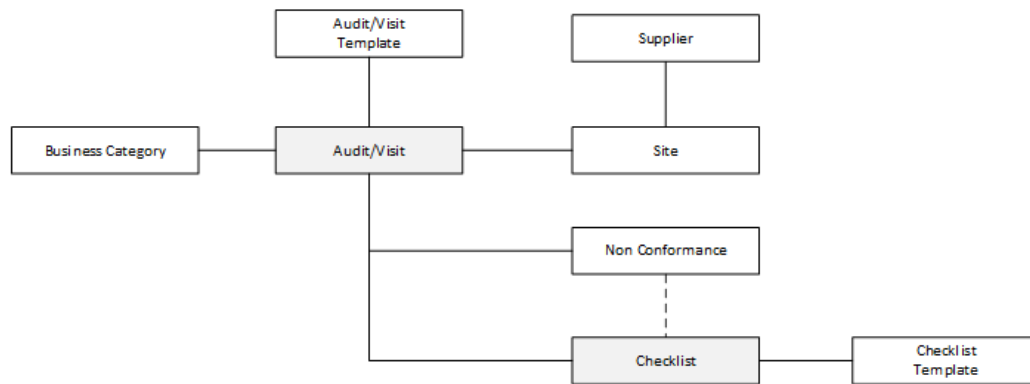
| Record Type | Configuration                                                                                                                                                                                                   | Other Record Types               | Comments                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| User        | <b>Company</b> (mandatory)<br><b>Languages</b> (mandatory)<br><b>User Roles</b> (mandatory)<br>Authority Profiles<br>Time Zones<br>Users (Managers and Delegates)<br>Areas                                      | Supplier<br>(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.<br><br>The notification email sent to a new user is not generated when creating a user through the API.                       |
| Supplier    | <b>Billing Codes</b> (mandatory)<br><b>Business Units</b> (mandatory)<br><b>Supplier Types</b> (mandatory)<br>Countries<br>Supplier Top Grades<br>Currencies<br>Invoicing Systems<br>Supplier Statuses<br>Areas | NA                               | When creating a Supplier, omit the Site and Supplier Contact elements, and omit the Billing Details ID.<br><br>Create Sites, Contacts, and Users after creating the Supplier.<br><br>The initial user account is not automatically created when creating a supplier through the API. |

| Record Type | Configuration                                                                                                                                                                                                                                                                                                                  | Other Record Types                                         | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site        | <b>Product Technologists</b> (mandatory)<br><b>Business Categories</b> (mandatory)<br><b>Site Types</b> (mandatory)<br>Business Units<br>Currencies<br>Invoicing Systems<br>Countries<br>Audit Reasons<br>Reference Types<br>Reference Statuses<br>Site Top Grades<br>Site Statuses<br>Risk Levels<br>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     | <b>Contact Roles</b> (mandatory)                                                                                                                                                                                                                                                                                               | User<br>Supplier<br>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     | <b>RecordSpecification Types</b> (mandatory)<br><b>Product Record Statuses</b> (mandatory)<br><b>Product Technologist</b> (mandatory)<br><b>Other Contacts</b> (mandatory)<br>Test Disciplines<br>Specification Formats<br>Business Categories                                                                                 | Supplier (if Active)<br>Site (if linked to a site)<br>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)<br>Site (if linked to PR)<br>Product Record (if linked to PR)<br>Contact (if linked to PR)<br>User (if linked to PR)<br>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.<br><br>If linking to a Product Record, the Supplier, Site, and Product Record (and associated Users, Contacts and Business Categories) must be created first.<br><br>Some links to Specification Glossaries are mandatory.                                                                                                                                                                                                                                                   |
| Business Category     | Business Categories (parent levels)<br>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           | <b>Audit/Visit Template</b> (mandatory)<br><b>Audit/Visit Status</b> (mandatory)<br><b>Product Technologist</b> (mandatory)<br><b>People Present</b> (mandatory)<br>Supplier Contacts<br>Business Categories<br><br>Non Conformance:<br>Assigned to<br>Completed by<br>Approved by | Supplier<br>Site<br>User                                                                                                                                                               | An Audit or Visit is linked to a supplier/site; the IDs of the Supplier and Site records must be provided.<br><br>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.<br><br>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.<br><br>Also, see notes below. |
| Checklists            | <b>Audit/Visit</b> (mandatory)<br><b>Checklist Question</b> (mandatory)                                                                                                                                                                                                            | Audit/Visit<br>Checklist<br>Template                                                                                                                                                   | A Checklist is linked to an Audit/Visit, the IDs of the Audit or Visit record must be provided.<br><br>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

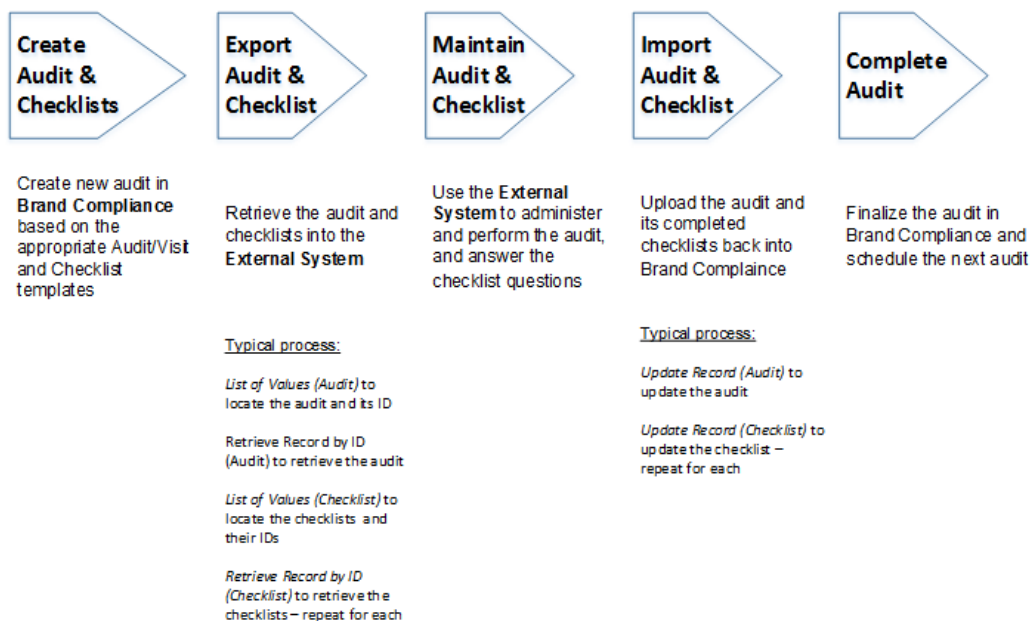
- The following diagram shows the main links between Audits/Visits, their Checklists, and other entities:



- 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:



- 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 | <p>Contact: contactDetail/id (Contact record ID link). See note 7.</p> <p>Contact (User): person/id (User record ID link). See note 1.</p> <p>Site: site/id (Site record ID link). See note 3.</p> <p>Site: site/code site (Site business key link). See note 4.</p> |

| 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| API                    | Links to Records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                                                                                                                   |
| 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)



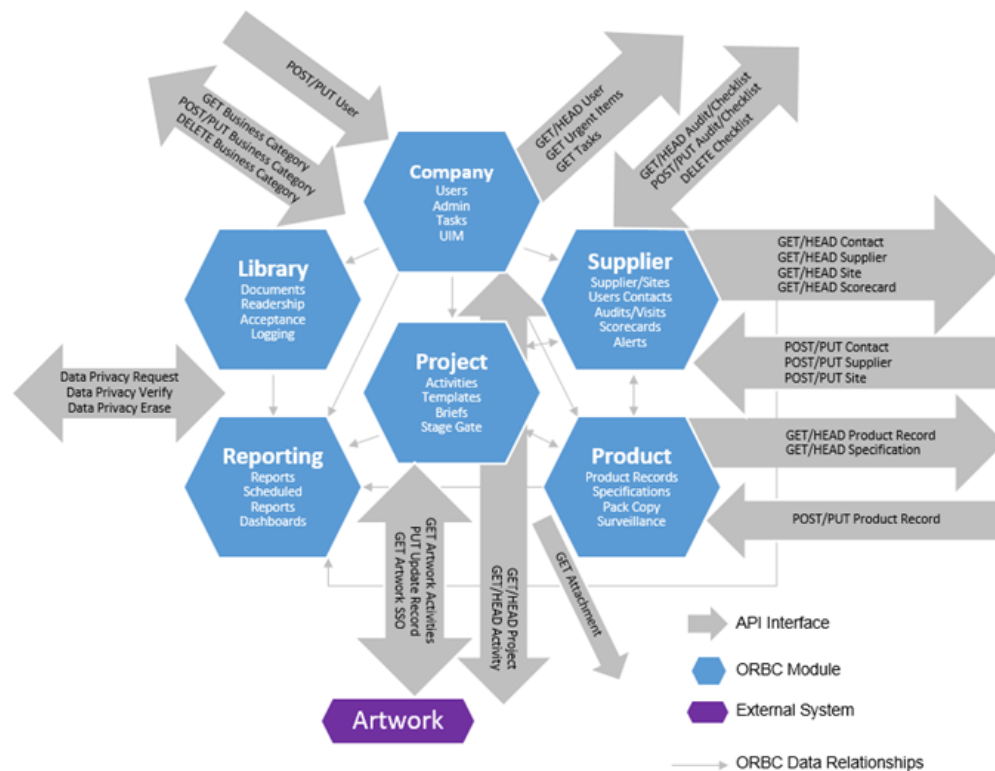
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## RESTful APIs

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     | <p>Used with <code>pageSize</code> 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.</p> <p>For example, to retrieve 150 records:</p> <ol style="list-style-type: none"> <li>1. A call with <code>offset = 0</code> and <code>pageSize = 50</code> returns the first 50 records.</li> <li>2. Then, a call with <code>offset = 50</code> and <code>pageSize = 50</code> returns the next 50.</li> <li>3. Then, a call with <code>offset = 100</code> and <code>pageSize = 50</code> returns the final 50.</li> </ol> |
| pageSize<br>batchSize | int     | Used with <code>offset</code> 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.

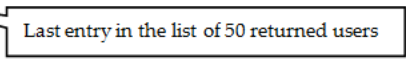
```

<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                           |
|          | HTTP Status 500 - Internal Server Error                                 | Non-numeric value in numeric parameters                       |

| Element       | Message                 | Meaning                                                                                                                                                                                                                                                                                                                                               |
|---------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| modifiedSince | HTTP 417 <errorMessage> | Not a valid date, whereby <errorMessage> will identify the issue<br><br>For example: <code>IllegalInstantException: Cannot parse "2018-03-25 01:00:00": Illegal instant due to time zone offset transition (Europe/London)</code><br><br>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<br>Retrieve Supplier Contact Record by Business Key<br>Retrieve Site Contact Record by Business Key |
| Product Report        | List of Values                                                                                                     |
| Product Specification | List of Values<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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<br>ADMINISTRATOR |
| userType       | Optional               | string     | Yes                                           | RETAILER                 |

| Parameter Name    | Mandatory/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                             |
|-------------------|------------------------|------------|-----------------------------------------------|---------------------------------------------------------------------|
| authorityProfiles | Optional               | string     | No                                            | PROJECT MANAGER                                                     |
| siteStatus        | Optional               | string     | Yes                                           | ACTIVE~INACTIVE                                                     |
| supplierActive    | Optional               | string     | No                                            | true<br>(otherwise will return<br>active and inactive<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                      |
|----------------|------------------------|------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br><br>Locale country code.<br><br>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:<br>Cannot find the User to return with<br>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 userFullDTO 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 userFullDTO 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 UserFullDTO to specify the details of the user to create. Compared to retrieving a user (which uses the same UserFullDTO 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<br>supplier / code |
| User Type         | userType (Fixed value SUPPLIER)             |
| 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 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<br>supplier / code |
| Sites             | sites / code<br>sites/ supplierCode         |
| User Type         | userType (Fixed value SITE)                 |
| 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 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>
    </ns0:supplier>
  </ns0:person>

```

```

        <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                                                        |
| Login Id          | code                                                                  |
| User Role         | role / code                                                           |
| Supplier Code     | person / supplier / code<br>supplier / code<br>(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.

---

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 profile is automatically created to manage login authentication. If an IDCS profile is not required, setting the loginPermitted attribute to false will skip the IDCS profile creation.

### 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 profile is automatically created for the user. If an IDCS profile is not required, setting the loginPermitted attribute to false will skip the IDCS 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.

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                             |
|----------|------|-----------------------------------------|
| recordId | long | Newly created User record's internal ID |

| Element    | Type   | Description                                                    |
|------------|--------|----------------------------------------------------------------|
| recordLink | string | URI to the newly created User record, for use in a GET request |
| loginId    | string | Login ID / business key to the newly created 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.

| Element | Message                                                                                                                                                                | Meaning                                    |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| code    | ERROR: class<br>com.micros.creations.core.domain.User.<br>code - The condition is invalid                                                                              | Code not provided                          |
| email   | ERROR: class<br>com.micros.creations.core.domain.User.<br>person.email - The condition is invalid                                                                      | Email not provided                         |
| name    | ERROR: class<br>com.micros.creations.core.domain.User.<br>person.name - The condition is invalid                                                                       | Name not provided                          |
| role    | ERROR: class<br>com.micros.creations.core.domain.User.<br>role - A user must have an active<br>authority profile from either roles or<br>additional authority profiles | Role or authority profiles not<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                 |
|------------------|------------------------|------------|-----------------------------------------------|-------------------------------------------------------------------------|
| offset           | Optional               | int        | No                                            | 60                                                                      |
| pageSize         | Optional               | int        | No                                            | 30                                                                      |
| supplierStatus   | Optional               | string     | Yes                                           | AWAITING<br>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<br><br>(otherwise will return<br>active and inactive<br>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                                                                           |
|-------------------------|--------|---------------------------------------------------------------------------------------|
| <code>recordId</code>   | long   | Supplier record's internal ID                                                         |
| <code>recordLink</code> | string | URI to the <code>SupplierRestService</code> Retrieve record service for this supplier |
| <code>code</code>       | string | Supplier code business key to the Supplier record                                     |
| <code>name</code>       | string | Supplier's name                                                                       |
| <code>localName</code>  | 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                             |
|-------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------|
| <code>supplierStatus</code>   | HTTP 417 <code>IllegalStateException</code> : The Supplier Status <###> does not exist         | Invalid supplier status             |
| <code>supplierStatus</code>   | HTTP 417 <code>IllegalStateException</code> : The Supplier Statuses <###~###~###> do not exist | Invalid supplier status             |
| <code>supplierType</code>     | HTTP 417 <code>IllegalStateException</code> : The Supplier Type <###> does not exist           | Invalid supplier type               |
| <code>supplierType</code>     | HTTP 417 <code>IllegalStateException</code> : The Supplier Types <###~###> do not exist        | Invalid supplier type               |
| <code>country</code>          | HTTP 417 <code>IllegalStateException</code> : The Country <###> does not exist                 | Invalid country                     |
| <code>country</code>          | HTTP 417 <code>IllegalStateException</code> : The Countries <###~###> do not exist             | Invalid country                     |
| <code>leadBusinessUnit</code> | HTTP 417 <code>IllegalStateException</code> : The Business Unit <###> does not exist           | Invalid business unit               |
| <code>leadBusinessUnit</code> | HTTP 417 <code>IllegalStateException</code> : The Business Units <###~###> do not exist        | Invalid business unit               |
| <code>pageSize</code>         | Error Code: <code>INVALIDRESTSERVICEPAGESIZE</code>                                            | Page Size must be between 1 and 100 |
| <code>offset</code>           | Error Code: <code>INVALIDOFFSET</code>                                                         | Offset must be a positive integer   |
| <code>supplierStatus</code>   | Error Code: <code>INVALIDSUPPLIERSTATUS</code>                                                 | Invalid Supplier Status             |
| <code>supplierType</code>     | Error Code: <code>INVALIDSUPPLIERTYPE</code>                                                   | Invalid Supplier Type               |

| Element          | Message                            | Meaning                                                                                         |
|------------------|------------------------------------|-------------------------------------------------------------------------------------------------|
| country          | Error Code:<br>INVALIDCOUNTRY      | Invalid Country                                                                                 |
| leadBusinessUnit | Error Code:<br>INVALIDBUSINESSUNIT | Invalid Business Unit                                                                           |
| isActive         | Error Code:<br>INVALIDBOOLEAN      | Invalid isActive value<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                              |
|----------------|------------------------|------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br>Locale country code.<br>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 supplierFullDTO 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:<br>Cannot find the Supplier to return<br>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 supplierFullDTO 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 supplierFullDTO 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 be 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                                                        |
|------------|--------|--------------------------------------------------------------------|
| recordId   | long   | Newly created Supplier record's internal ID                        |
| recordLink | string | URI to the newly created Supplier record, for use in a GET request |
| code       | string | Supplier code business key to the newly created 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         | 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              |

| Element              | Message                                                                                                    | Meaning            |
|----------------------|------------------------------------------------------------------------------------------------------------|--------------------|
| 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    |
| 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 SupplierUpdateDTO 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 <code>IllegalStateException</code> : Cannot locate keyword for class <code>&lt;&lt;hostname&gt;&gt;.BillingCode</code> using code: <code>&lt;###&gt;</code>                          | Invalid <code>&lt;ns1:code&gt;</code>                           |
| businessUnit | HTTP 417 <code>IllegalStateException</code> : Cannot locate keyword for class <code>&lt;&lt;hostname&gt;&gt;.domain.BusinessUnit</code> using code: <code>&lt;###&gt;</code>                  | Invalid <code>&lt;ns1:code&gt;</code>                           |
| code         | <code>MySQLIntegrityConstraintViolationException</code> : Duplicate entry <code>&lt;###&gt;</code> for key 'c_code'                                                                           | Supplier code provided that already exists for another supplier |
| name         | <code>PropertyValueException</code> : not-null property references a null or transient value: <code>&lt;&lt;hostname&gt;&gt;.domain.Supplier.name</code>                                      | No tag provided                                                 |
| status       | <code>NullPointerException</code> :                                                                                                                                                           | No status tag provided                                          |
| status       | <code>IllegalArgumentException</code> : Empty string is not allowed, should be null on method: <code>&lt;&lt;hostname&gt;&gt;.domain.Supplier@1df35f3[id=&lt;###&gt;,code=&lt;###&gt;]</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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                          | Validation                                                                                                                                                                                                                                                                                    |
|------------------|------------------------|------------|-----------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset           | Optional               | int        | No                                            | 60                                                               |                                                                                                                                                                                                                                                                                               |
| pageSize         | Optional               | int        | No                                            | 30                                                               |                                                                                                                                                                                                                                                                                               |
| siteStatus       | Optional               | string     | Yes                                           | AWAITING<br>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<br>Categories glossary<br>at any level of the<br>hierarchy.<br><br>Applies the filter to<br>Business Category<br>and Lead Business<br>Category (if used).<br><br>Returns a result if<br>any of the values<br>match any of the<br>specification's<br>business categories. |
| businessUnit     | Optional               | string     | Yes                                           | UK                                                               |                                                                                                                                                                                                                                                                                               |
| supplierName     | Optional               | string     | Yes                                           | ABC Ltd                                                          |                                                                                                                                                                                                                                                                                               |
| supplierActive   | Optional               | Boolean    | No                                            | true (otherwise will<br>return active and<br>inactive suppliers) |                                                                                                                                                                                                                                                                                               |

| Parameter Name     | Mandatory/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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.<br><br>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 |
| siteType   | HTTP 417 IllegalStateException: The Supplier Types <###~###> do not exist        | Invalid supplier type |

| Element           | Message                                                                        | Meaning                                                                                                                                         |
|-------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:<br>INVALIDRESTSERVICEPAGESIZE<br>INVALIDPAGESIZE                   | Page Size must be between 1 and 100                                                                                                             |
| offset            | Error Code:<br>INVALIDOFFSET                                                   | Offset must be a positive integer                                                                                                               |
| siteStatus        | Error Code:<br>INVALIDSITESTATUS<br>INVALIDSITESTATUSES                        | Invalid Site Status                                                                                                                             |
| siteType          | Error Code:<br>INVALIDSITETYPE                                                 | Invalid Site Type                                                                                                                               |
| country           | Error Code:<br>INVALIDCOUNTRY                                                  | Invalid Country                                                                                                                                 |
| businessCategory  | Error Code:<br>INVALIDBUSINESSCATEGORY                                         | Invalid Business Category                                                                                                                       |
| businessUnit      | Error Code:<br>INVALIDBUSINESSUNIT                                             | Invalid Business Unit                                                                                                                           |
| supplierActive    | Error Code:<br>INVALIDBOOLEAN                                                  | Invalid supplierActive value<br>Permitted values (not case-sensitive) are: true; yes; 1; false; no; 0                                           |
| leadTechnologist  | Error Code:<br>INVALIDUSER                                                     | Invalid Lead Technologist                                                                                                                       |
| statusChangedFrom | Error Code:<br>INVALIDDATEFORMAT                                               | Invalid Status Changed From<br>Must be a valid date/time format:<br>Year-Month-DayOfMonth<br>Hour:Minute:Seconds<br>such as 2016-12-30 09:59:59 |

| Element            | Message                               | Meaning                                                                                                                                                     |
|--------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| statusChangedUntil | Error Code:<br>INVALIDDATEFORMAT      | Invalid Status Changed Until<br>Must be a valid date/time<br>format:<br><br>Year-Month-DayOfMonth<br>Hour:Minute:Seconds<br><br>such as 2016-12-30 09:59:59 |
| statusChangedTo    | Error Code:<br>INVALIDSTATUSCHANGEDTO | Either Status Changed From or<br>Status Changed Until must be<br>specified if filtering on Status<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                                     |
|----------------|------------------------|------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br><br>Locale country code.<br><br>If used, fields that have<br>language translations<br>have a localeData<br>element returned for the<br>specified locales if data<br>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 siteFullDTO 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:<br>Cannot find the Site to return with<br>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:<br>[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.Site.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                 |
| 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 |

| Element              | Message                                                                                                                 | Meaning                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| leadTechnicalManager | HTTP 417 IllegalStateException: Cannot locate keyword for class com.micros.creations.core.domain.Use r 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 SiteUpdatedDTO 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                          |
|----------------------|------------------------|------------|-----------------------------------------------|------------------------------------------------------------------|
| offset               | Optional               | int        | No                                            | 60                                                               |
| pageSize             | Optional               | int        | No                                            | 30                                                               |
| name                 | Optional               | string     | Yes                                           | John Smith                                                       |
| supplierContactRoles | Optional               | string     | Yes                                           | HEAD OF<br>MANUFACTURING                                         |
| siteContactRoles     | Optional               | string     | Yes                                           | HEAD OF<br>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<br>return active and<br>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                                                         |

| Element         | Type    | Description                                                |
|-----------------|---------|------------------------------------------------------------|
| 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:<br>INVALIDRESTSERVICEPAGESIZE<br>INVALIDPAGESIZE                      | Page Size must be between 1 and 100                                                                   |
| offset               | Error Code:<br>INVALIDOFFSET                                                      | Offset must be a positive integer                                                                     |
| supplierContactRole  | Error Code:<br>INVALIDCONTACTROLE                                                 | Invalid Supplier Contact Role                                                                         |
| siteContactRole      | Error Code:<br>INVALIDCONTACTROLE                                                 | Invalid Site Contact Role                                                                             |
| country              | Error Code:<br>INVALIDCOUNTRY                                                     | Invalid Country                                                                                       |
| selectedSite         | Error Code:<br>INVALIDSITE                                                        | Invalid Site                                                                                          |
| supplierCode         | Error Code:<br>INVALIDSUPPLIER                                                    | Invalid Supplier                                                                                      |
| siteStatus           | Error Code:<br>INVALIDSITESTATUS                                                  | Invalid Site Status                                                                                   |
| supplierActive       | Error Code:<br>INVALIDBOOLEAN                                                     | Invalid supplierActive value<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                              |
|----------------|------------------------|------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br>Locale country code.<br>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 |
| id      | HTTP 417 IllegalStateException:<br>Cannot find the Contact to return<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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<br>personFullDTO/name                                                                             |
| User Id    | contactFullDTO/person/id                                                                                                     |
| Supplier   | contactFullDTO/person/supplier/id<br>contactFullDTO/company/code<br>personFullDTO/supplier/code<br>personFullDTO/supplier/id |
| Email      | contactFullDTO/person/email<br>personFullDTO/email                                                                           |

| Field Name             | Element Name                              |
|------------------------|-------------------------------------------|
| 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                                                       |
|-----------------|---------|-------------------------------------------------------------------|
| recordId        | long    | Newly created Contact record's internal ID                        |
| recordLink      | string  | URI to the newly created Contact record, for use in a GET request |
| email           | string  | Email address of the newly created contact                        |
| 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

| Element      | Message                                                                                                                   | Meaning                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| phoneNumber  | phoneNumber - The condition is invalid                                                                                    | Missing tag                                                     |
| dtype        | IllegalArgumentException: Invalid value for dtype:<###>                                                                   | Invalid value<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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<br>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"         |                                                           |
| 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                      |
|----------------|------------------------|------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br><br>Locale country code.<br><br>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 productRecordFullDTO 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:<br>Cannot find the Product Record to<br>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                  | labelI18NKey               |

---

**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>
  <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<br>No value provided                     |
| productRecordStatus | HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.ProductRecordStatus using status:<###> | No tag provided<br>No value provided<br>Status not found |
| variantName         | ERROR: class <<hostname>>.ProductRecord.productCovered[###].variantName - Variant name is mandatory                 | No tag provided<br>No value provided                     |
| quantity            | ERROR: class <<hostname>>.ProductRecord.productCovered[###].quantity - Quantity name is mandatory                   | No tag provided<br>No value provided                     |
| specType            | ObjectNotFoundException: No row with the given identifier exists:[<<hostname>>.SpecTypeForm at#<###>]               | No value provided<br>Specification type not found        |

| Element                      | Message                                                                                                                                                                                                         | Meaning                                                    |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| technologist                 | MySQLIntegrityConstraintViolationException: Cannot add or update a child row: a foreign key constraint fails ('<###>'.t_prdrd',CONSTRAINT '<###>' FOREIGN KEY ('fk_technologist') REFERENCES 't_user' ('c_id')) | No tag provided<br>No value provided                       |
| technologist                 | ObjectNotFoundException: No row with the given identifier exists: [com.micros.creations.core.domain.User#<###>]                                                                                                 | Technologist not found                                     |
| productRecordOtherUser /user | DtoValidationException: ProductRecordOtherUser has no valid user for role:<###><br>ProductRecordOtherUser Roles are mandatory for the following missing Roles: [<###>]                                          | No tag provided<br>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:<###><br>ProductRecordOtherUser Roles are mandatory for the following missing Roles: [<###>]                                          | No tag provided<br>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                     | MySQLIntegrityConstraintViolationException: Cannot add or update a child row: a foreign key constraint fails ('<###>'.t_prdrd',CONSTRAINT '<###>' FOREIGN KEY ('fk_supplier') REFERENCES 't_company' ('c_id'))  | No value provided<br>Supplier not found                    |
| site                         | HTTP 417 IllegalStateException: Cannot locate keyword for class <<hostname>>.Site using id:<###>, code:<###>, supplierCode:<###> and supplierId:<###>                                                           | No tag provided<br>No value provided<br>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                                          |

| Element | Message                                                                                                             | Meaning             |
|---------|---------------------------------------------------------------------------------------------------------------------|---------------------|
|         | ERROR: class<br><<hostname>>.ProductRecord.barcode[<###> - Bar Code must be either 8 or 13 characters long          | Invalid code length |
|         | ERROR:<br>class<<hostname>>.ProductRecord.shippingCaseCode[<###> - 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/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>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 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example           | Validation                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|------------------------|---------------|-----------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| status         | Optional               | string        | Yes                                           | RETAILER_ DRAFT   | Available options:<br>SUPPLIER_DRAFT<br>RETAILER_DRAFT<br>COLLABORATIVE_<br>DRAFT<br>GATE_STEP<br>PART_PACK_COPY_SENT<br>PACK_COPY_SENT<br>PACK_COPY_READY<br>READY_FOR_<br>AUTHORISATION<br>SUPPLIER_AUTHORISED<br>ACTIVE<br>OFF_RANGE<br>DE_LISTED<br>SUPERSEDED<br>NOT_PROGRESSED<br>APPROVE_FOR_<br>LABELLING<br>PRODUCE_DRAFT<br>PRODUCE_PACK_COPY<br>PRODUCE_APPROVED<br>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.                                                                                                                                                                                   |
| 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.                                                                                                                                                                    |

| Parameter Name   | Mandatory/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example                   | Validation                                                                                                                                                                                                                       |
|------------------|------------------------|---------------|-----------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br><br>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.<br><br>Searches all levels of Business Category and Lead Business Category path.<br><br>Returns a result if any of the values match any of the specification's business categories. |
| 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.                                                                                                                                                                                    |

| Parameter Name               | Mandatory/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example                     | Validation                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|------------------------|---------------|-----------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| productCoverage              | Optional               | string        | Yes                                           | Chicken (500g)              | Filters on the Product Name column of the Product Coverage table.<br><br><b>Note:</b> The source of the Product Coverage data is the Product Specification, regardless of the specification type and specification status.                                                                                                                                                                                                                           |
| specificationSection<br>Type | Optional               | string        | Yes                                           | RECIPE AND RAW<br>MATERIALS | Available values:<br>RECIPE AND RAW<br>MATERIALS<br>NUTRITION<br>ALLERGY AND DIETARY<br>ADVICE<br>PACKAGING<br>ADVANCED<br>PACKAGING<br>FINISHED PRODUCT<br>STANDARDS<br>STORAGE<br>OTHER LABELLING<br>COPY<br>CLAIMS<br>SUBSTANTIATION<br>PROCESS CONTROLS<br>BATCH CODING<br>PRODUCT APPROVAL<br>REQUIREMENTS<br>POST LAUNCH<br>INFORMATION<br>COMPONENTS<br>FNF STORAGE<br>PRODUCT<br>REQUIREMENTS<br>COUNTER TICKET<br>PRODUCT CHARACTER<br>COMP |
| 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.                                                                                                                                                                                                                                                                                                                                                                                              |
| statusChangedFrom            | Optional               | string        | No                                            | 2018-06-10 09:00:00         | Date the specification status changed.                                                                                                                                                                                                                                                                                                                                                                                                               |

| Parameter Name     | Mandatory/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                                                                                                | Validation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|------------------------|---------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| statusChangedUntil | Optional               | string        | No                                            | 2018-06-10 09:00:00                                                                                                                                                                                                                                    | Date the specification status changed.<br><br>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.<br><br>Specification status codes<br>Allowable values:<br>SUPPLIER_DRAFT<br>RETAILER_DRAFT<br>COLLABORATIVE_DRAFT<br>GATE-STEP<br>PART_PACK_COPY_SENT<br>PACK_COPY_SENT<br>PACK_COPY_READY<br>READY_FOR_AUTHORISATION<br>SUPPLIER_AUTHORISED<br>ACTIVE<br>OFF_RANGE<br>DE-LISTED<br>SUPERSEDED<br>NOT_PROGRESSED<br>APPROVE_FOR_LABELLING<br>PRODUCE_DRAFT<br>PRODUCE_PACK_COPY<br>PRODUCE_APPROVED<br>PRODUCE_ARCHIVED |
| softDelete         | Optional               | string        | No                                            | true<br><br>This also includes specifications that have been soft deleted. Otherwise soft deleted specifications are excluded.<br><br>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                                                           |
|------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|            | <errorCode>NOFILTER<br><errorMessage>No Filter Specified, please try again            | No parameter provided                                             |
| pageSize   | <errorCode>INVALIDBATCHSIZE<br><errorMessage>The Batch Size must be between 1 and 100 | Invalid batch size<br>No batch size provided<br>No batch size tag |
| specStatus | <errorCode>INVALIDSPECSTATUS<br><errorMessage>The Status <###> does not exist         | Spec Status not found<br>Spec Status is blank                     |
| specType   | <errorCode>INVALIDSPECTYPE<br><errorMessage>The Spec Type <###> does not exist        | Spec Type not found<br>Spec Type is blank                         |

| Element          | Message                                                      | Meaning                  |
|------------------|--------------------------------------------------------------|--------------------------|
| countryWhereSold | <errorCode>INVALIDCOUNTRYWH<br>ERESOLD                       | Country not found        |
|                  | <errorMessage>The Country Where<br>Sold >###> does not exist | Country is blank         |
| language         | <errorCode>INVALIDLANGUAGE                                   | Language not found       |
|                  | <errorMessage>The Language <###><br>does not exist           | Language is blank        |
| sectionType      | <errorCode>INVALIDSECTIONTYPE                                | Section type not found   |
|                  | <errorMessage>The Section Type<br>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 |

## 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example | Validation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|------------------------|------------|-----------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| specificationSectionType | Optional               | string     | Yes                                           | STORAGE | <p>Allowable Values:</p> <p>ALLERGY_<br/>AND_DIETARY_<br/>ADVICE</p> <p>PACKAGING</p> <p>ADVANCED<br/>PACKAGING</p> <p>FINISHED_<br/>PRODUCT_<br/>STANDARDS</p> <p>STORAGE</p> <p>OTHER_<br/>LABELLING_<br/>COPY</p> <p>CLAIMS_<br/>SUBSTANTIATION</p> <p>PROCESS_<br/>CONTROLS</p> <p>BATCH_<br/>CODING</p> <p>PRODUCT_<br/>APPROVAL_<br/>REQUIREMENTS</p> <p>POST_<br/>LAUNCH_<br/>INFORMATION</p> <p>COMPONENTS</p> <p>FNF_STORAGE</p> <p>PRODUCT_<br/>REQUIREMENTS</p> <p>COUNTER_<br/>TICKET</p> <p>PRODUCT_<br/>CHARACTER_<br/>COMP</p> <p>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.</p> |

| Parameter Name | Mandatory/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example  | Validation                                                                                                                                                   |
|----------------|------------------------|------------|-----------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr | Locale country code.<br><br>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:localeData>
    <ns1:statusFrom>Deleted</ns1:statusFrom>
    <ns1:statusTo>Retailer Draft</ns1:statusTo>
    <ns1:id>160544</ns1:id>
  </ns1:localeData>
  <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:localeData>
    <ns1:statusFrom>Retailer Draft</ns1:statusFrom>
    <ns1:statusTo>Deleted</ns1:statusTo>
    <ns1:id>160531</ns1:id>
  </ns1:localeData>
  <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:<br>Cannot find the Product Specification<br>to return with id:<###> | Invalid {id} - not found           |
| specificationSectionType | Error Code:<br>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/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example | Validation                           |
|----------------|------------------------|---------------|-----------------------------------------------|---------|--------------------------------------|
| offset         | Mandatory              | int           | No                                            | 60      | >0                                   |
| batchsize      | Mandatory              | int           | No                                            | 30      | >0 and <=100                         |
| specType       | Optional               | string        | Yes                                           | FOOD    | FOOD<br>FNF<br>CNF<br>PRODUCE<br>BWS |

| Parameter Name | Mandatory/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example         | Validation                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------|---------------|-----------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| specStatus     | Optional               | string        | Yes                                           | RETAILER_ DRAFT | SUPPLIER_DRAFT<br>RETAILER_DRAFT<br>COLLABORATIVE_<br>DRAFT<br>GATE_STEP<br>PART_PACK_<br>COPY_SENT<br>PACK_COPY_SENT<br>PACK_COPY_<br>READY<br>READY_FOR_<br>AUTHORISATION<br>SUPPLIER_<br>AUTHORISED<br>ACTIVE<br>OFF_RANGE<br>DE_LISTED<br>SUPERSEDED<br>NOT_<br>PROGRESSED<br>APPROVE_FOR_<br>LABELLING<br>PRODUCE_DRAFT<br>PRODUCE_PACK_<br>COPY<br>PRODUCE_<br>APPROVED<br>PRODUCE_<br>ARCHIVED |
| 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/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example                       | Validation                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------|---------------|-----------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| specificationSectionType | Optional               | string        | Yes                                           | RECIPE AND RAW<br>MATERIALS   | Available values:<br>RECIPE AND RAW<br>MATERIALS<br>NUTRITION<br>ALLERGY AND<br>DIETARY<br>ADVICE<br>PACKAGING<br>ADVANCED<br>PACKAGING<br>FINISHED<br>PRODUCT<br>STANDARDS<br>STORAGE<br>OTHER<br>LABELLING COPY<br>CLAIMS<br>SUBSTANTIATION<br>PROCESS<br>CONTROLS<br>BATCH CODING<br>PRODUCT<br>APPROVAL<br>REQUIREMENTS<br>POST LAUNCH<br>INFORMATION<br>COMPONENTS<br>FNF STORAGE<br>PRODUCT<br>REQUIREMENTS<br>COUNTER TICKET<br>PRODUCT<br>CHARACTER<br>COMP |
| countryWhereSold         | Optional               | string        | Yes                                           | FOOD_ COUNTRY_<br>WHERE_ SOLD | The Code for the<br>required Country<br>Where Sold.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Coverage         | Optional               | string        | Yes                                           | Chicken (500g)                | Filters on the<br>Product Name<br>column of the<br>Product Coverage<br>table.                                                                                                                                                                                                                                                                                                                                                                                       |

| Parameter Name | Mandatory/<br>Optional | Value<br>Type | Multiple Value<br>Separator (~)<br>Supported? | Example             | Validation                                                                                                                                                           |
|----------------|------------------------|---------------|-----------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                        |
| 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<br><errorMessage>No Filter Specified, please try again            | No parameter provided                                             |
| batchSize  | <errorCode>INVALIDBATCHSIZE<br><errorMessage>The Batch Size must be between 1 and 100 | Invalid batch size<br>No batch size provided<br>No batch size tag |
| specStatus | <errorCode>INVALIDSPECSTATUS<br><errorMessage>The Status <###> does not exist         | Spec Status not found<br>Spec Status is blank                     |

| Element          | Message                                                   | Meaning                               |
|------------------|-----------------------------------------------------------|---------------------------------------|
| specType         | <errorCode>INVALIDSPECTYPE                                | Spec Type not found                   |
|                  | <errorMessage>The Spec Type <###> does not exist          | Spec Type is blank                    |
| countryWhereSold | <errorCode>INVALIDCOUNTRYWH<br>ERESOLD                    | Country not found<br>Country is blank |
|                  | <errorMessage>The Country Where Sold >###> does not exist |                                       |
| 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:<br>Cannot find the Product Specification<br>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.

### 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.

### 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 into 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.

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 changes, 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.

### 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                                                          |
|------------|--------|----------------------------------------------------------------------|
| recordId   | long   | Product Specification's internal ID                                  |
| recordLink | string | URI to the Product Specification record, for use in a GET request    |
| code       | string | Code business key to the Product Specification                       |
| specNumber | long   | Specification Number business key to theProduct Specification record |

| Element     | Type   | Description                                                            |
|-------------|--------|------------------------------------------------------------------------|
| specVersion | int    | Specification Version business key to the Product Specification record |
| title       | 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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 concept details                                                                        |
| 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>                      | <p>Not a valid date, whereby &lt;errorMessage&gt; will identify the issue</p> <p>For example: <code>IllegalInstantException: Cannot parse "2018-03-25 01:00:00": Illegal instant due to time zone offset transition (Europe/London)</code></p> <p>In this example, due to the clocks moving forward (in the server's time-zone), the passed in date is invalid</p> |
| toDate   | HTTP 417 <errorMessage>                      | <p>Not a valid date, whereby &lt;errorMessage&gt; will identify the issue (see example above)</p>                                                                                                                                                                                                                                                                  |

## 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                                    |
|------------------|--------|------------------------------------------------|
| activityName     | string | Project activity's name                        |
| activityRecordId | long   | Project activity record's internal ID          |
| projectId        | string | ID business key to the Project record          |
| projectRecordId  | long   | 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 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                                                  |
|------------|--------|--------------------------------------------------------------|
| recordId   | long   | Project activity's internal ID                               |
| recordLink | string | URI to the Product Activity record, for use in a GET request |
| code       | string | Code business key to the Project Activity record             |
| title      | 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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                                                                               |
| parentCode        | Error Code: INVALIDBUSINESSCATEGORY     | Invalid Business Category                                                                               |
| specificationType | Error Code: INVALIDSPECIFICATIONTYPE    | Invalid SpecificationType                                                                               |
| topLevelCategory  | Error Code: INVALIDBOOLEAN              | Invalid topLevelCategory value<br>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 BusinessCategoryFullDTO to specify the details of the category to create. Compared to retrieving a user (which uses the same BusinessCategoryFullDTO 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                                                              |
| 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/v1p0/full"
xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/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/v1p0/full"
xmlns:ns1="http://www.micros.com/creations/core/domain/dto/v1p0/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                                                                                                                                                                           |
| 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<br><br>It lists the specification types selected on the parent |

| Element           | Message                                                                                                                | Meaning                                                                                                                                                                                                               |
|-------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br><br>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 BusinessCategoryUpdateDTO 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                                                                                                                                         |
| 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<br><br>It lists the specification types selected on the parent |

| Element           | Message                                                                                                                | Meaning                                                                                                                                                                                                               |
|-------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br><br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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:<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                              |
|----------------|------------------------|------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br>Locale country code.<br>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:<br>Cannot find the Audit to return with<br>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

root element 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)<br>auditTemplateSnapshot |
| Audit/Visit Code     | code                                             |
| Lead Technologist    | leadTechnicalManager / code                      |
| Supplier             | supplier / id                                    |
| Site                 | site / id                                        |
| Due Date             | dueDate                                          |

| Field Name     | Element Name           |
|----------------|------------------------|
| 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 AuditFullIDTO root element are shown in the following table:

### Summary of AuditFullIDTO Elements

| Element Name                                                         | Description                                                                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| announced<br>costChargedToSupplier<br>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<br>fromDate<br>toDate<br>leadTechnical Manager<br>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.                                    |

| Element Name | Description                                                           |
|--------------|-----------------------------------------------------------------------|
| 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: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:auditTemplateSnapshot>
</ns0:auditFullDTO>
```

```

        <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       |

| Element      | Message                                                                                              | Meaning                         |
|--------------|------------------------------------------------------------------------------------------------------|---------------------------------|
| supplier/id  | HTTP 417 IllegalStateException: Cannot locate keyword for class                                      | Site Id not found               |
| code         | com.micros.creations.core.domain.Site                                                                | Site Code not found             |
| site/id      | using id: <###>, code:<###>,                                                                         | Supplier Id not found           |
| code         | supplierCode:<###> and supplierId:<###>                                                              | 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 conformances/issues raised against it, they appear within a nonConformances element - a separate element for each. The non conformances/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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                              |
|----------------|------------------------|------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br>Locale country code.<br>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:<br>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:<br>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 auditChecklistFullDTO element to specify the detail of the checklist to create, which is based on the auditChecklistFullDTO 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. |

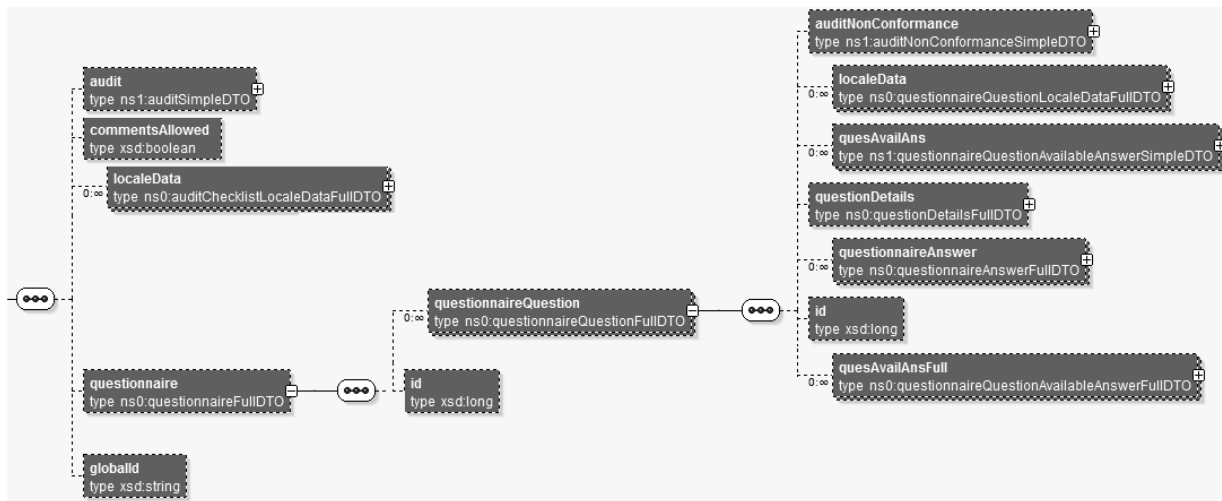
| Field Name                 | Element Name                                                                                                            |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Checklist Template         | localeData / id                                                                                                         |
| Checklist Comments Allowed | commentsAllowed                                                                                                         |
| Questionnaire Questions    | questionnaire / questionnaireQuestion / questionDetails                                                                 |
| Question Answers           | questionnaire / questionnaireQuestion / questionnaireAnswer<br>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 auditChecklistFullDTO request file structure:

**Summary of AuditChecklistFullIDTO 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.<br>reference is the question reference. |

| Element Name                 | Description                                                                                                                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| questionDetails              | Individual questions.<br>question is the question text.<br>answerComment is the answer's comments (if configured).<br>answerFieldType is code of answer type (MULTI_SELECTION, TEXT, or SINGLE_SELECTION).<br>commentAllowed is whether comments are allowed. |
| questionnaireAnswer          | Groups the answer details.                                                                                                                                                                                                                                    |
| questionnaireAvailableAnswer | Answers for the individual questions.<br>code is the question's unique key.<br>commentMandatory is whether comments are mandatory or not.<br>generateNonConformance is whether an answer will generate an issue.                                              |
| quesAvailAnsFull             | The available answers - repeated for each answer.<br>code is the question's unique key.<br>commentMandatory is whether comments are mandatory or not.<br>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.

---

2. Retrieve the code or ID of the newly created Audit, and its template detail using a GET function.
3. 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.

| 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: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:questionnaireQuestion>
    <ns0:questionnaireAnswer>
      <ns0:questionnaireAvailableAnswer>
        <ns1:code>QQA7236</ns1:code>
      </ns0:questionnaireAvailableAnswer>
    </ns0:questionnaireAnswer>
  </ns0:questionnaire>
</ns0:auditChecklistFullDTO>
```

```

        <ns1:commentMandatory>false</ns1:commentMandatory>
        <ns1:generateNonConformance>false
        </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>QQA7236</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>QQA7237</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>QQA7238</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[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>QQA7240</ns1:code>
        <ns1:commentMandatory>true</ns1:commentMandatory>
        <ns1:generateNonConformance>true</ns1:generateNonConformance>
    <ns1:localeData>
        <ns0:answer>No</ns0:answer>
    </ns1:localeData>
</ns0:questionnaireAvailableAnswer>
<ns0:questionnaireQuestion>
    <ns1:localeData>
        <ns0:reference>
            <![CDATA[Ref2]]>
        </ns0:reference>
    </ns1:localeData>
</ns0:questionnaireQuestion>
</ns0:questionnaireAnswer>
<ns0:quesAvailAnsFull>
    <ns0:code>QQA7239</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>QQA7240</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>QQA7241</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:auditChecklistFullDT0>

```

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<br>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                                           |
|------------|--------|-------------------------------------------------------|
| recordId   | long   | Checklist record's internal ID                        |
| recordLink | string | URI to the 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 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:<br>Cannot find the Audit to return with<br>id:<###>           | Invalid {auditId} - not found   |
| id      | HTTP 404 Not Found                                                                            | Invalid {id} - not numeric      |
| id      | HTTP 417 IllegalStateException:<br>Cannot find the Audit Checklist to<br>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 B, "Appendix: Using the Data Privacy API."](#)

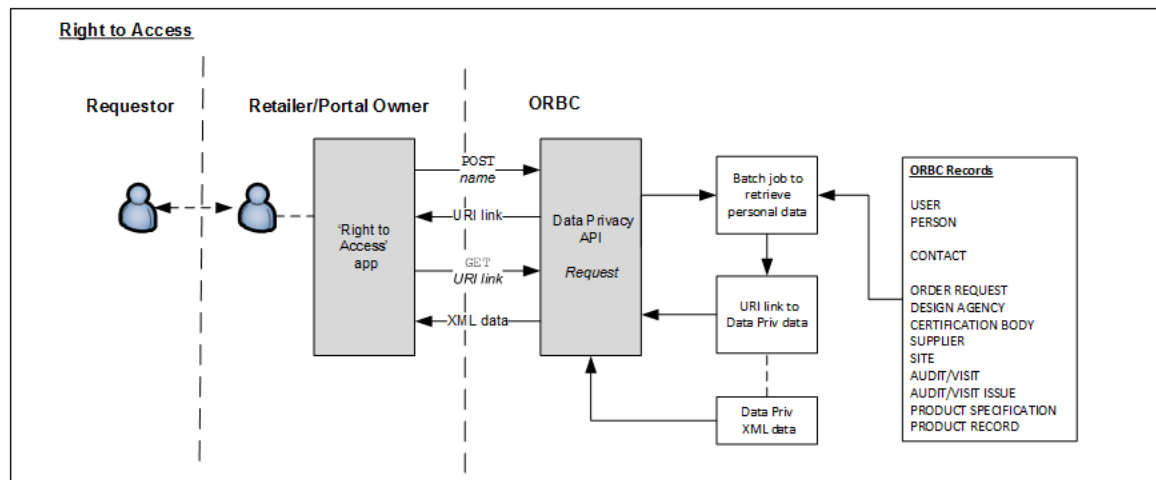
**Right to Access****Description**

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 4–2 Right to Access Process



The steps for completing a Right to Access request are as follows (for further details, see [Appendix B, "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 B, "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 B, "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

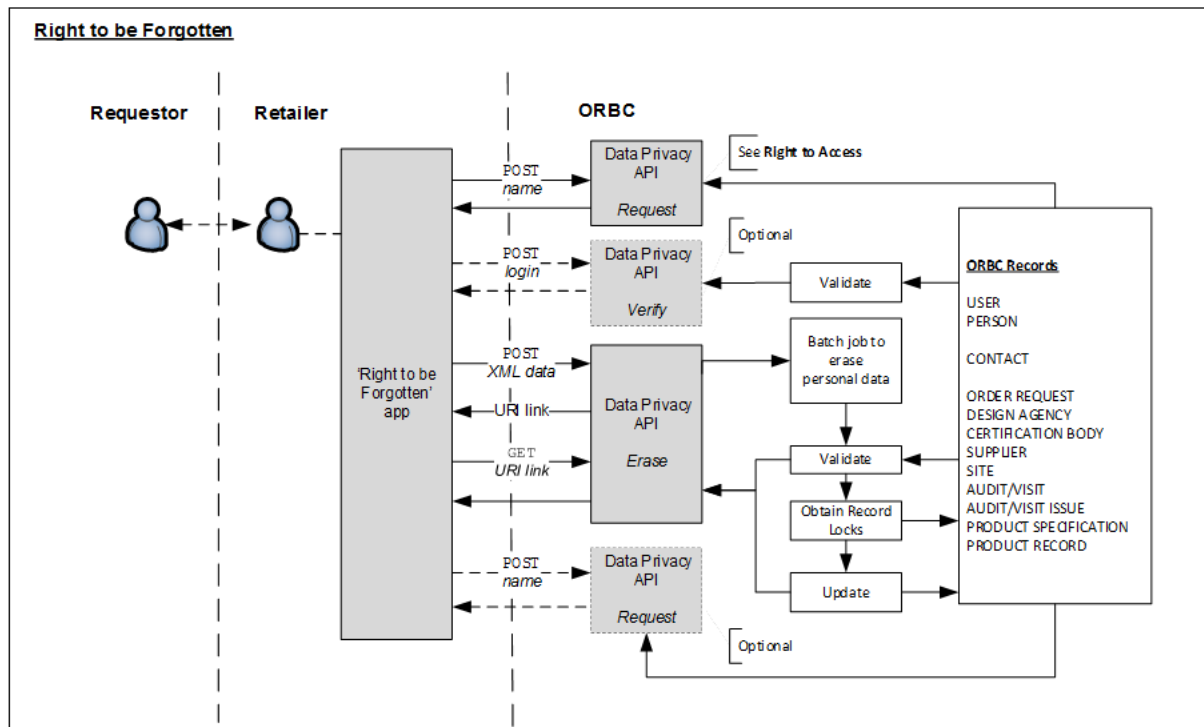
**Description**

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 4–3 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 B, "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 B, "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.      |
| 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.                             |

| Element  | Message                                                                                        | Meaning                                                                                                                                                                                                                       |
|----------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| id       | Cannot find entity of type: %rec and ID: %id                                                   | An id is passed that is not found.<br><br>%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.<br><br>%rec is the internal name of the record, such as ProductRecord. %id is the id taken from the XML.<br><br>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.<br><br>%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.<br><br>%id is the login id.                                                                                                                                                    |
|          | The erase has failed due to unexpected internal error                                          | Other unexpected condition has occurred.                                                                                                                                                                                      |

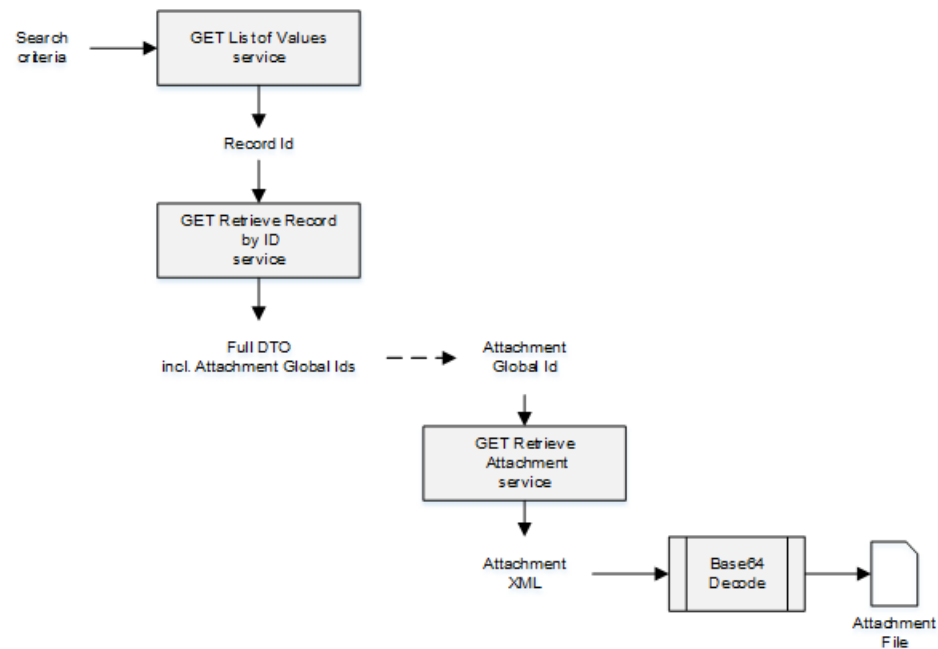
## AttachmentRestService

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 scorecardFullDTO, projectFullDTO and projectActivityFullDTO elements contain an attachments element which will includes 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:



- 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:<br>Cannot find the Attachment to return<br>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 |
| globalId | HTTP 417 IllegalStateException:<br>Cannot find the Attachment to return<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                  |
|-----------------------------------|------------------------|------------|-----------------------------------------------|--------------------------|
| offset                            | Optional               | int        | No                                            | 60                       |
| pageSize                          | Optional               | int        | No                                            | 30                       |
| status                            | Optional               | string     | Yes                                           | IN<br>PROGRESS~COMPLETE  |
| siteStatus                        | Optional               | string     | Yes                                           | AWAITING<br>REGISTRATION |
| siteType                          | Optional               | string     | Yes                                           | PRIMARY                  |
| siteCode                          | Optional               | string     | Yes                                           | A0001-0001               |
| siteName                          | Optional               | string     | Yes                                           | West Road Site           |
| siteNameBusiness<br>Language      | Optional               | string     | Yes                                           | West Road Site           |
| supplierCode                      | Optional               | string     | Yes                                           | A0001                    |
| supplierName                      | Optional               | string     | Yes                                           | ABC Ltd                  |
| supplierNameBusin<br>ess 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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                      |
|----------------|------------------------|------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br><br>Locale country code.<br><br>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 |
| id      | HTTP 417 IllegalStateException:<br>Cannot find the Scorecard to return<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                      |
|----------------------------------|------------------------|------------|-----------------------------------------------|------------------------------|
| offset                           | Optional               | int        | No                                            | 60                           |
| pageSize                         | Optional               | int        | No                                            | 30                           |
| projectStatus                    | Optional               | string     | Yes                                           | IN<br>PROGRESS~COMPLETED     |
| templateCode                     | Optional               | string     | Yes                                           | NEW_BAKERY_RANGE             |
| masterProject                    | Optional               | Boolean    | No                                            | TRUE                         |
| parentProject                    | Optional               | string     | Yes                                           | NEW_LINE_<br>DEVELOPMENT     |
| projectType                      | Optional               | string     | Yes                                           | CHANGE OF SUPPLIER           |
| projectName                      | Optional               | string     | Yes                                           | New Potato Product<br>Launch |
| projectManagerName               | Optional               | string     | Yes                                           | John Smith                   |
| businessCategory                 | Optional               | string     | Yes                                           | POTATOES_LOOSE               |
| specificationType                | Optional               | string     | Yes                                           | FOOD                         |
| siteStatus                       | Optional               | string     | Yes                                           | AWAITING<br>REGISTRATION     |
| siteType                         | Optional               | string     | Yes                                           | PRIMARY                      |
| siteCode                         | Optional               | string     | Yes                                           | A0001-0001                   |
| siteName                         | Optional               | string     | Yes                                           | West Road Site               |
| siteNameBusiness<br>Language     | Optional               | string     | Yes                                           | West Road Site               |
| supplierCode                     | Optional               | string     | Yes                                           | A0001                        |
| supplierName                     | Optional               | string     | Yes                                           | ABC Ltd                      |
| supplierNameBusiness<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                                           |
|----------------|------------------------|------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| locale         | Optional               | string     | Yes                                           | en_GB~fr<br>Locale country code.<br>If used, fields that have language translations have a <code>localeData</code> 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:<br>Cannot find the Project to return with<br>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/<br>Optional | Value Type | Multiple Value<br>Separator (~)<br>Supported? | Example                                                                                                                                                             |
|---------------------------|------------------------|------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| offset                    | Optional               | int        | No                                            | 60                                                                                                                                                                  |
| pageSize                  | Optional               | int        | No                                            | 30                                                                                                                                                                  |
| projectId                 | Optional               | string     | Yes                                           | PR0000007                                                                                                                                                           |
| projectName               | Optional               | string     | Yes                                           | New Potato Product<br>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                                                                                                                                                             |
| linkedRecord              | Optional               | string     | Yes                                           | SUPPLIER<br><br><b>Note:</b> Wildcard search not<br>supported. Options are:<br>SCORECARD<br>SUPPLIER<br>SITE<br>AUDIT<br>PRODUCT RECORD<br>PRODUCT<br>SPECIFICATION |
| personResponsible<br>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<br>Locale country code.<br>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 `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                    |
|---------|----------------------------------------------------------------------------------------|----------------------------|
| id      | HTTP 404 Not found                                                                     | Invalid {id} - not numeric |
| id      | HTTP 417 IllegalStateException:<br>Cannot find the Activity to return<br>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

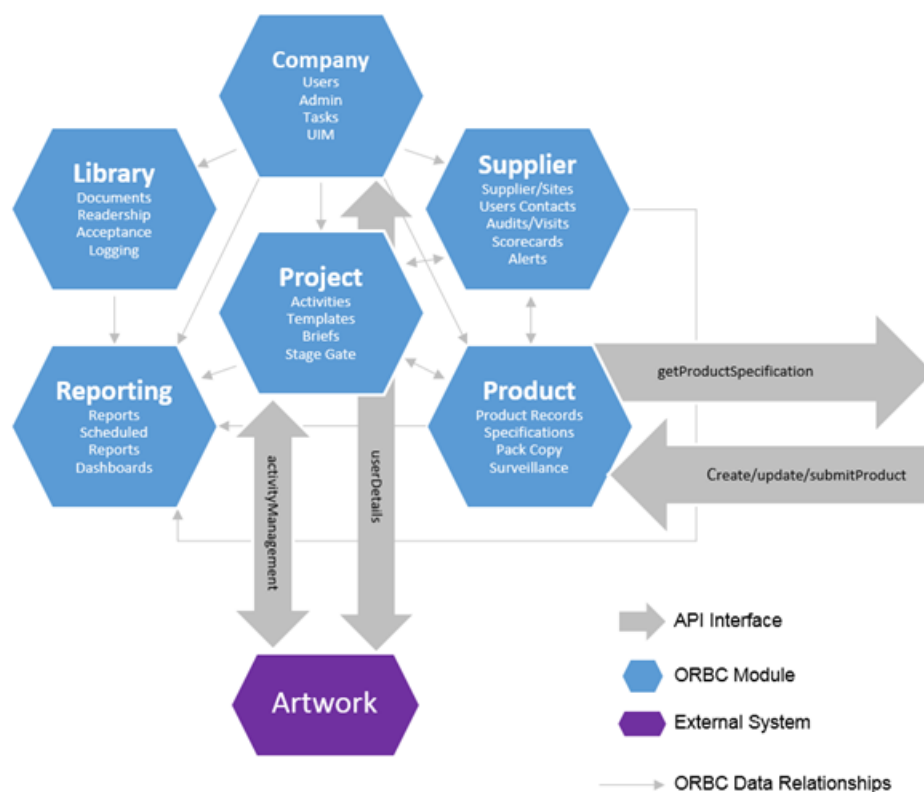
| Element | Message                     | Meaning                    |
|---------|-----------------------------|----------------------------|
| id      | HTTP 417 Expectation Failed | Invalid {id} - not found   |
| id      | HTTP 404 Not found          | Invalid {id} - not numeric |



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  | <p>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.</p> <p>For example, to retrieve 150 records:</p> <ol style="list-style-type: none"> <li>1. A call with offset = 0 and pageSize = 50 returns the first 50 records.</li> <li>2. Then, a call with offset = 50 and pageSize = 50 returns the next 50.</li> <li>3. Then, a call with offset = 100 and pageSize = 50 returns the final 50.</li> </ol> |
| batchSize | int  | <p>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.</p>                                                                                                                                                                                                                                                                                                               |

---

**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                                                                                                                 |
| Message/Message/Severity    | string | Contains ERROR to indicate an error                                                                                                                  |
| Message/Message/Description | string | The error message, for example:<br>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:<br>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 |

| Element                                    | Message                                                                                                                                                | Meaning                                                                       |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| SpecificationType                          | Error:<br>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:<br>Specification Type Format <###> does not exist in Brand Compliance Management Cloud Service, product not added.                              | Specification format not found                                                |
| ProductNumber                              | Error:<br>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:<br>Supplier <###> is not found in Brand Compliance Management Cloud Service, product with product number null not added.                        | Supplier not found                                                            |
| SiteCode                                   | Error:<br>Site with code <###> not found in Brand Compliance Management Cloud Service, product not added.                                              | Site not found                                                                |
| ProductBarcode                             | Warning:<br>EAN barcode <###> is invalid.                                                                                                              | Invalid barcode format - ignored                                              |
| OuterBarcode                               | Warning:<br>Shipping Case code <###> is invalid.                                                                                                       | Invalid barcode format - ignored                                              |
| ProductTechnologist                        | Error:<br>Contact <###> not found in Brand Compliance Management Cloud Service.                                                                        | Product Technologist not found                                                |
| ProductTechnologist                        | Error:<br>Contact <###> does not have PRODUCT TECHNOLOGIST role, product not added.                                                                    | User does not have the Product Technologist role                              |
| OtherContacts                              | Error:<br><###> role is not a valid product record contact role, product not added.                                                                    | Role not found                                                                |
| OtherContacts                              | Warning:<br>Contact <###> not found in Brand Compliance Management Cloud Service.                                                                      | User not found - ignored                                                      |
| LeadBusinessCategory<br>BusinessCategories | Warning:<br>Business Category <###> not found in Brand Compliance Management Cloud Service.                                                            | Business category not found - ignored                                         |
| CountryWhereSold                           | Warning:<br>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:<br>Specification Type FOOD does not map to a single<br>Specification Type Format in Brand Compliance, product<br>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:<br>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:<br>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 |

| Element                     | Type   | Description                                                                                                                                                |
|-----------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message/Message/Severity    | string | Contains ERROR to indicate an error                                                                                                                        |
| Message/Message/Description | string | The error message, for example:<br>Specification Type FOOD does not map to a single<br>Specification Type Format in Brand Compliance, product<br>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<br>FNF<br>CNF<br>PRODUCE<br>BWS |

| Parameter        | Mandatory/<br>Optional | Type   | Multiple Value<br>Separator (~)<br>Supported? | Example                             | Validation                                                                                                                                                                                                                                                                                                                                                            |
|------------------|------------------------|--------|-----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                           |
| specStatus       | Optional               | string | Yes                                           | RETAILER_<br>DRAFT                  | SUPPLIER_DRAFT<br>RETAILER_DRAFT<br>COLLABORATIVE_DRAFT<br>GATE_STEP<br>PART_PACK_COPY_SENT<br>PACK_COPY_SENT<br>PACK_COPY_READY<br>READY_FOR_<br>AUTHORISATION<br>SUPPLIER_AUTHORISED<br>ACTIVE<br>OFF_RANGE<br>DE_LISTED<br>SUPERSEDED<br>NOT_PROGRESSED<br>APPROVE_FOR_<br>LABELLING<br>PRODUCE_DRAFT<br>PRODUCE_PACK_COPY<br>PRODUCE_APPROVED<br>PRODUCE_ARCHIVED |
| countryWhereSold | Optional               | string | Yes                                           | FOOD_<br>COUNTRY_<br>WHERE_<br>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/<br>Optional | Type   | Multiple Value<br>Separator (~)<br>Supported? | Example                        | Validation                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------|--------|-----------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sectionType     | Optional               | string | Yes                                           | RECIPE<br>AND RAW<br>MATERIALS | MAIN DETAILS<br>RECIPE AND RAW<br>MATERIALS<br>NUTRITION<br>ALLERGY AND DIETARY<br>ADVICE<br>PACKAGING<br>ADVANCED PACKAGING<br>STORAGE<br>OTHER LABELLING COPY<br>CLAIMS<br>SUBSTANTIATION<br>PROCESS CONTROLS<br>BATCH CODING<br>PRODUCT APPROVAL<br>REQUIREMENTS<br>POST LAUNCH<br>INFORMATION<br>COMPONENTS<br>FNF STORAGE<br>PRODUCT<br>REQUIREMENTS<br>COUNTER TICKET<br>PRODUCT CHARACTER<br>COMP |
| productCoverage | Optional               | string | Yes                                           | Chicken<br>(500g)              | Filters on the Product Name<br>column of the Product<br>Coverage table.                                                                                                                                                                                                                                                                                                                                  |
| supplier        | Optional               | string | Yes                                           | A0001                          | Filters on the Primary Sites<br>supplier code for Produce<br>Specifications or the<br>Supplier code for all other<br>types of Specification.                                                                                                                                                                                                                                                             |
| site            | Optional               | string | Yes                                           | A0001-001                      | Filters on the code of the<br>Sites in the Primary Sites<br>table of the Product<br>Specification. Use the full<br>site code incorporating the<br>Supplier Code, such as<br>A0001-001.                                                                                                                                                                                                                   |
| fromDate        | Optional               | string | No                                            | 2013-06-10T0<br>9:00:00        | Can be used in conjunction<br>with toDate to form a date<br>range or can be specified<br>individually.                                                                                                                                                                                                                                                                                                   |
| toDate          | Optional               | string | No                                            | 2013-06-10T0<br>9:00:00        | Can be used in conjunction<br>with fromDate to form a<br>date range or can be<br>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:<br>Exception Description: An error occurred unmarshalling the document<br><br>Internal Exception:<br>org.xml.sax.SAXParseException;<br>cvc-maxInclusive-valid: Value '9999999999999999' is not facet-valid with respect to maxInclusive '2147483647' for type 'int'. | Invalid offset value                                                      |
| offset<br>batchSize | Unmarshalling Error:<br>Exception Description: An error occurred unmarshalling the document<br><br>Internal Exception:<br>org.xml.sax.SAXParseException;<br>cvc-datatype-valid.1.2.1: '?' is not a valid value for 'integer'.                                                             | Non-numeric offset value<br><br>Non-numeric batch size value              |
| batchSize           | <errorCode>INVALIDBATCHSIZE<br><br><errorMessage>The Batch Size must be between 1 and 100                                                                                                                                                                                                 | Invalid batch size<br><br>No batch size provided<br><br>No batch size tag |
| specType            | <errorCode>INVALIDSPECTYPE<br><br><errorMessage>The Spec Type <###> does not exist                                                                                                                                                                                                        | Specification type not found                                              |
| specStatus          | <errorCode>INVALIDSPECSTATUS<br><br><errorMessage>The Status <###> does not exist                                                                                                                                                                                                         | Spec Status not found                                                     |
| countryWhereSold    | <errorCode>INVALIDCOUNTRYWHEREOLD<br><br><errorMessage>The Country Where Sold <###> does not exist                                                                                                                                                                                        | Country not found                                                         |
| language            | <errorCode>INVALIDLANGUAGE<br><br><errorMessage>The Language <###> does not exist                                                                                                                                                                                                         | Language not found                                                        |
| sectionType         | <errorCode>INVALIDSECTIONTYPE<br><br><errorMessage>The Section Type does not exist                                                                                                                                                                                                        | Section type not found                                                    |
| fromDate<br>toDate  | Unmarshalling Error:<br>Exception Description: An error occurred unmarshalling the document<br><br>Internal Exception:<br>org.xml.sax.SAXParseException;<br>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.



---

## 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 Identity Cloud Service (IDCS) 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 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.

---

## 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:

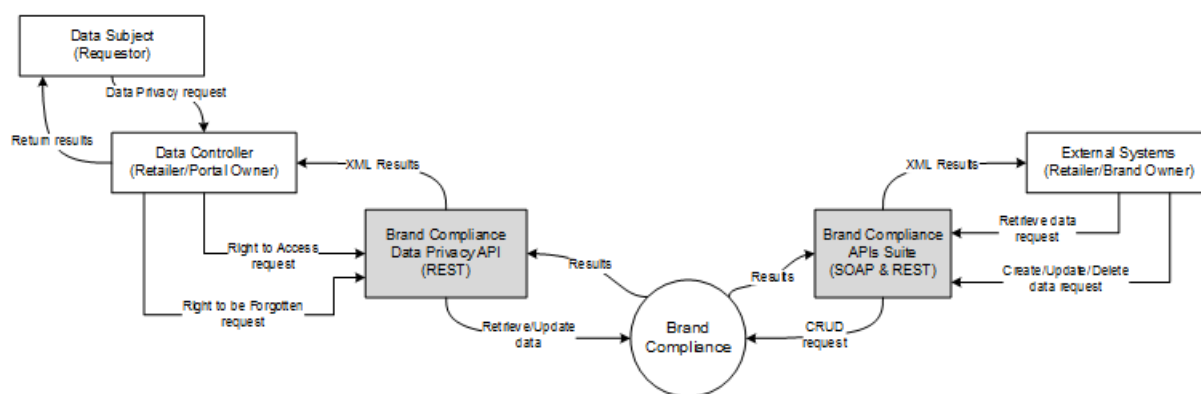
- Name of the data subject
- Contact addresses
- Email addresses
- Telephone and Fax numbers

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<br><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><b>Search Field:</b> Name</p> <p><b>Returned Fields:</b> 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<br><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><b>Search Field:</b> Name (where contact is flagged as not a user of the system)</p> <p><b>Returned Fields:</b> Record Type; Name; Email; Alternative Email; Phone; Mobile; Fax; Address; Contact record id; Supplier Name; Supplier Code</p> |
| Company<br><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><b>Search Field:</b> Contact Name</p> <p><b>Returned Fields:</b> Record Type; Contact Name; Email; Phone; Fax; Address; Company record id</p>                                                                                                                                                                                       |
| Order Request<br><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><b>Search Field:</b> Individual or Department; Contact Name</p> <p><b>Returned Fields:</b> Record Type; Individual or Department; Contact Name; Email; Phone; Fax; Address; Order Request record id; Supplier Name; Supplier Code</p>   |
| Design Agency<br><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><b>Search Field:</b> Contact Name</p> <p><b>Returned Fields:</b> Record Type; Contact Name; Email; Phone; Fax; Address; Design Agency record id</p>                                                                                                              |
| Counter Ticket Producer<br><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><b>Search Field:</b> Contact Name</p> <p><b>Returned Fields:</b> Record Type; Contact Name; Email; Phone; Fax; Address; Counter Ticket Producer record id</p>                                                               |
| Certification Body<br><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><b>Search Field:</b> Contact Name</p> <p><b>Returned Fields:</b> Record Type; Contact Name; Email; Phone; Fax; Address; Certification Body record id</p>                                                                                                                                                           |

| Record/ Element Name   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier<br><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><b>Search Field:</b> Contact Name</p> <p><b>Returned Fields:</b> Record Type; Contact Name; Email; Phone; Fax; Address; Supplier record id; Supplier Name; Supplier Code</p> <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><b>Search Field:</b> Individual or Department; Billing Contact Name</p> <p><b>Returned Fields:</b> Record Type; Individual or Department; Billing Contact Name; Email; Phone; Fax; Address; Supplier record id; Supplier Name; Supplier Code</p> |
| Site<br><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><b>Search Field:</b> Grower Name</p> <p><b>Returned Fields:</b> Record Type; Grower Name; Email; Address; Grower record id; Supplier Name; Supplier Code; Site Name; Site Code</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Audit/Visit<br><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><b>Search Field:</b> Name in People Present table; Issue Assigned To Name; Issue Completed By Name</p> <p><b>Returned Fields:</b> 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>                                                                         |

| Record/ Element Name                            | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Specification<br><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><b>Search Field:</b> Printer Contact Name</p> <p><b>Returned Fields:</b> 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>    |
|                                                 | <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><b>Search Field:</b> PIF Person Responsible</p> <p><b>Returned Fields:</b> Record Type; PIF Person Responsible; Email; Phone; Fax; Specification record id; Specification Number; Specification Version; Specification Name; Supplier Name; Supplier Code</p>                                           |
|                                                 | <p>The Product Specification has various approval names which are stored as free text.</p> <p><b>Search Field:</b> Supplier Approved Name; Retailer Approved Name/Counter Ticket Issued By; Validation Override Approved By</p> <p><b>Returned Fields:</b> 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<br><productRecord>               | <p>The Product Record holds the name of the retailer approver of an associated specification/counter ticket.</p> <p><b>Search Field:</b> Retailer Approved Name</p> <p><b>Returned Fields:</b> 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:

|                  |                      |                                                                           |
|------------------|----------------------|---------------------------------------------------------------------------|
| <b>Service:</b>  | DATAPRIV             | Data Privacy Service                                                      |
| <b>Endpoint:</b> | DATAPRIV_ACCESS_POST | Creates a new DataPriv request and returns a link to the record's details |
| <b>Endpoint:</b> | 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.

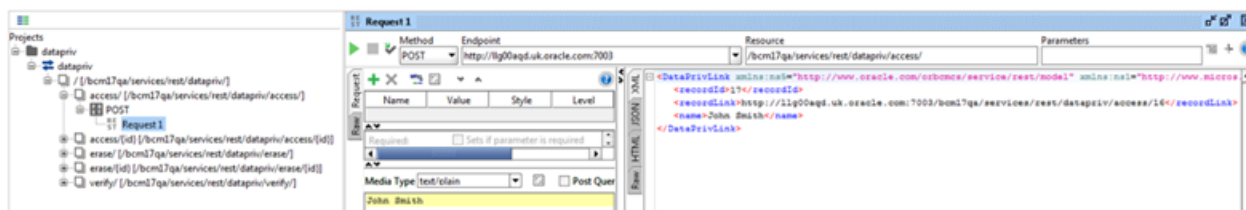
## Example of Using the Right to Access Service

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.

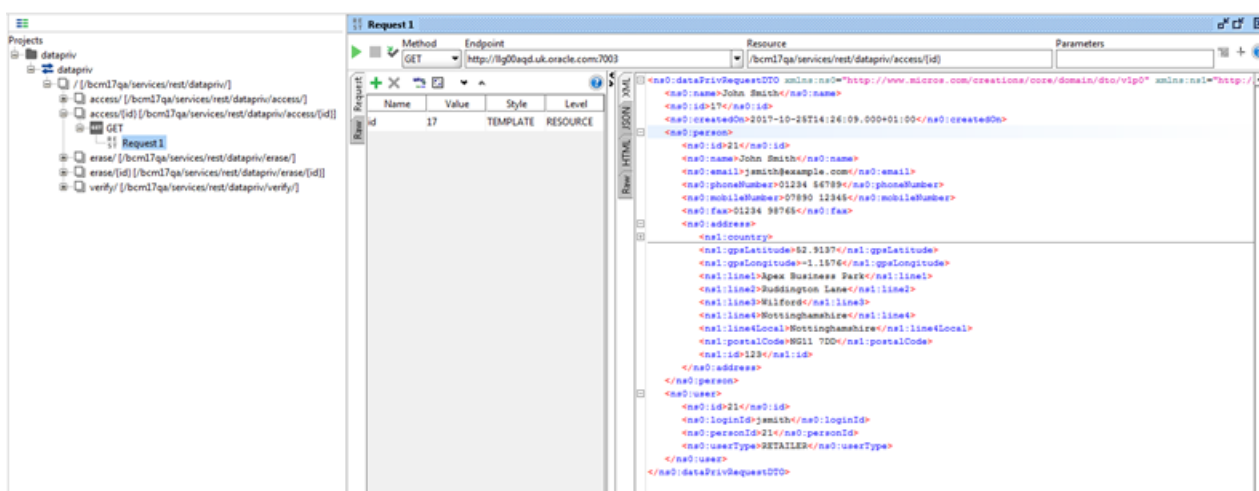
The stages involved in executing a Right to Access request are as follows. For this worked example, the call is made using a web service testing application.

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.



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.



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:

|                       |                |
|-----------------------|----------------|
| name                  | type xs:string |
| id                    | type xs:string |
| createdOn             | type xs:string |
| person                | type xs:string |
| user                  | type xs:string |
| designAgency          | type xs:string |
| counterTicketProducer | type xs:string |
| certificationBody     | type xs:string |
| orderRequest          | type xs:string |
| retailer              | type xs:string |
| supplier              | type xs:string |
| site                  | type xs:string |
| contact               | type xs:string |
| audit                 | type xs:string |
| productSpecification  | type xs:string |
| productRecord         | type xs:string |

```
<ns0:dataPrivRequestDTO xmlns:ns0="http://www.micros.com/creations/
http://www.micros.com/creations/core/domain/dto/vlp0/full" xmlns:n:
<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: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.                 |
| 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.   |

| Element Name  | Details                                                                      |
|---------------|------------------------------------------------------------------------------|
| 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>
  </ns1:country>
</ns0:address>
```

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 randomly-generated 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.

### Erased 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<br>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<br>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<br>PIF Person Responsible; Email; Phone; Fax in the FNF specification's Formulation section<br>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:

|                  |                      |                                                   |
|------------------|----------------------|---------------------------------------------------|
| <b>Service:</b>  | DATAPRIV             | Data Privacy Service                              |
| <b>Endpoint:</b> | DATAPRIV_VERIFY_POST | Creates a new verification request for a login id |

|                  |                     |                                                                          |
|------------------|---------------------|--------------------------------------------------------------------------|
| <b>Endpoint:</b> | DATAPRIV_ERASE_POST | Creates a new Erasure request and returns a link to the record's details |
| <b>Endpoint:</b> | 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.

```

1  <ns0:dataPrivRequestDTO xmlns:ns0="http://www.micros.com/creation
2  http://www.micros.com/creations/core/domain/dto/vip0/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:dateTimeNow>

```

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:

```

1 <ns0:dataPrivRequestDTO xmlns:ns0="http://www.micros.com/creation:
  http://www.micros.com/creations/core/domain/dto/vlp0/full" xmlns:r
2   <ns0:name>John Smith</ns0:name>
3   <ns0:id>17</ns0:id>
4   <ns0:createdOn>2017-10-25T14:26:09.000+01:00</ns0:createdOn>
5   <ns0:person>
6     <ns0:id>21</ns0:id>
7     <ns0:name>John Smith</ns0:name>
8     <ns0:email>jsmith@example.com</ns0:email>
9     <ns0:phoneNumber>01234 56789</ns0:phoneNumber>
10    <ns0:mobileNumber>07890 12345</ns0:mobileNumber>
11    <ns0:fax>01234 98765</ns0:fax>
12    <ns0:address>
13  </ns0:person>
14  <ns0:user>
15    <ns0:id>21</ns0:id>
16    <ns0:loginId>jsmith</ns0:loginId>
17    <ns0:personId>21</ns0:personId>
18    <ns0:userType>RETAILER</ns0:userType>
19  </ns0:user>
20  <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 Data"](#) table.

---

### 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:

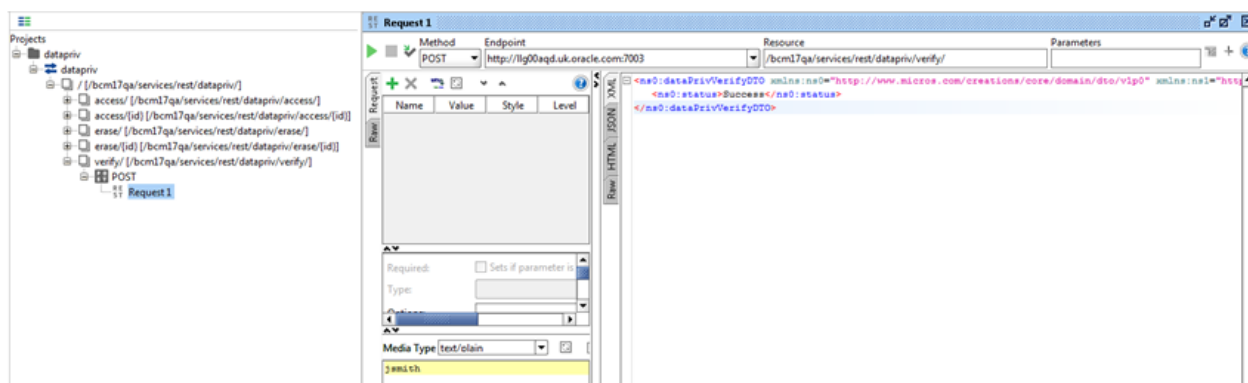
- Only one user element must be present.
- Only one person must be present.
- The associated person element must be present for a user or a contact element.
- The personId in the user element must match the id in the person element.

- 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).

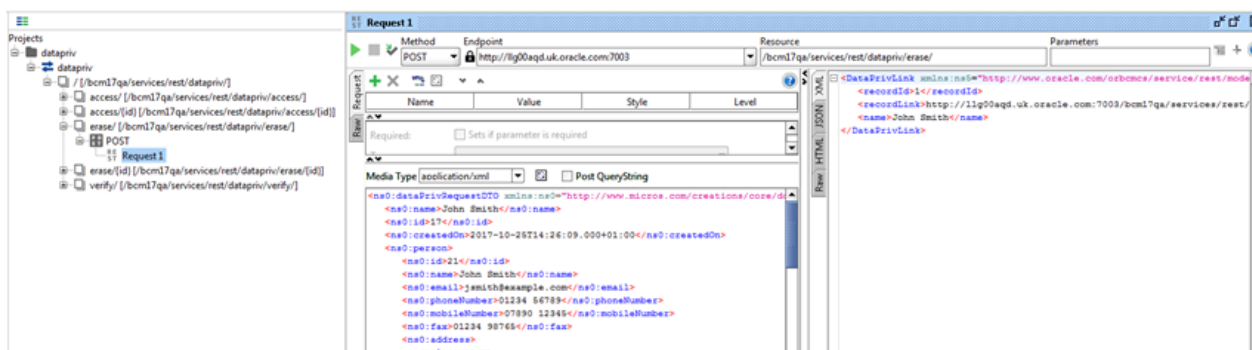
If an element is removed, the field contents remain unchanged. For example, if wishing to erase the Grower Name but not the associated Email Address or Address within the Site element, delete the growerEmail and growerAddress elements from the XML message.

5. 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:



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.

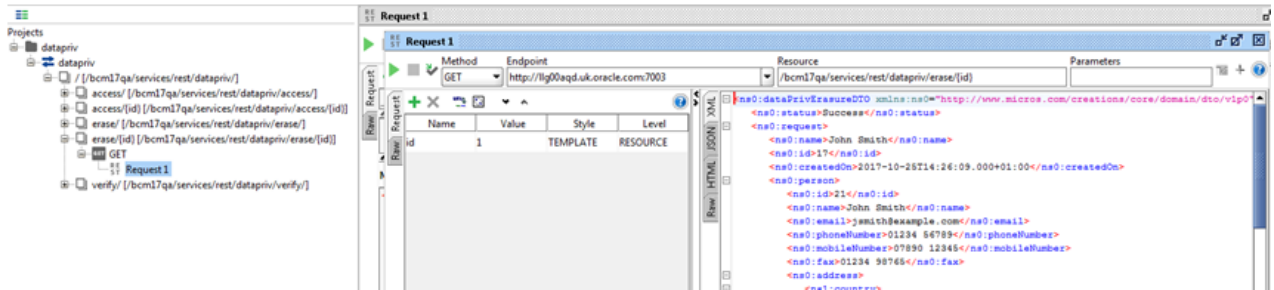
6. Submit a POST call to the services/rest/datapriv/erase service, passing the XML message in the payload:



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:



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:

| User Details              |                                                  |                                            |
|---------------------------|--------------------------------------------------|--------------------------------------------|
| Details                   |                                                  |                                            |
| Name:                     | autW4VxQcYXcXfPHOYVoTDCVNB0YwY6608BKmLEdpmYCxymH | Email: 20F6CvafuGArdu@example.com          |
| Login Id:                 | NWPubeoXHLPyymmZ2Jl                              | Phone: n4DPpAmy9Kue5WAAae5etRXz9hm1l       |
| Login Id Disabled?:       | Yes                                              | Mobile Phone: bttsvKGDAscBkmsvXAMHEduOgClu |
| Password Expired?:        | Yes                                              | Fax: 0VCYxKw6sAx1WAl8Ff0khRdt7POC          |
| Job Title:                | -                                                |                                            |
| Department:               | -                                                |                                            |
| Team Manager:             | -                                                |                                            |
| Delegates:                | -                                                |                                            |
| Language:                 | English (British)                                |                                            |
| Time Zone:                | Greenwich Mean Time (Europe/London)              |                                            |
| Comments:                 | -                                                |                                            |
| Testing Support Enabled?: | -                                                |                                            |
| External Authentication:  | No                                               |                                            |
| Address                   |                                                  |                                            |
| Local Address             |                                                  |                                            |
| Country:                  | -                                                |                                            |
| Address 1:                | nKmk3UoztExfo3Muapq                              |                                            |
| Address 2:                | PeuhUWslUHR53Zvymg                               |                                            |
| City:                     | BVhQzIUtoFyOnZ3PLX                               |                                            |
| County:                   | 5Cj36dAU4CwRxb4AQYQm                             |                                            |
| Post Code:                | j51uG                                            |                                            |
| GPS latitude:             | -                                                |                                            |
| GPS longitude:            | -                                                |                                            |

- 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 includes personal information (user name and email address). The user may also manually enter personal contact information in IDCS.

The Brand Compliance *Right to Access* and *Right to Erase/Right to be Forgotten* data privacy services are not extended to access IDCS, so the retailer must also check for a corresponding user profile in IDCS, and where necessary, remove the personal information from IDCS.

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.

### **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.



---

## 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, RTE, 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.

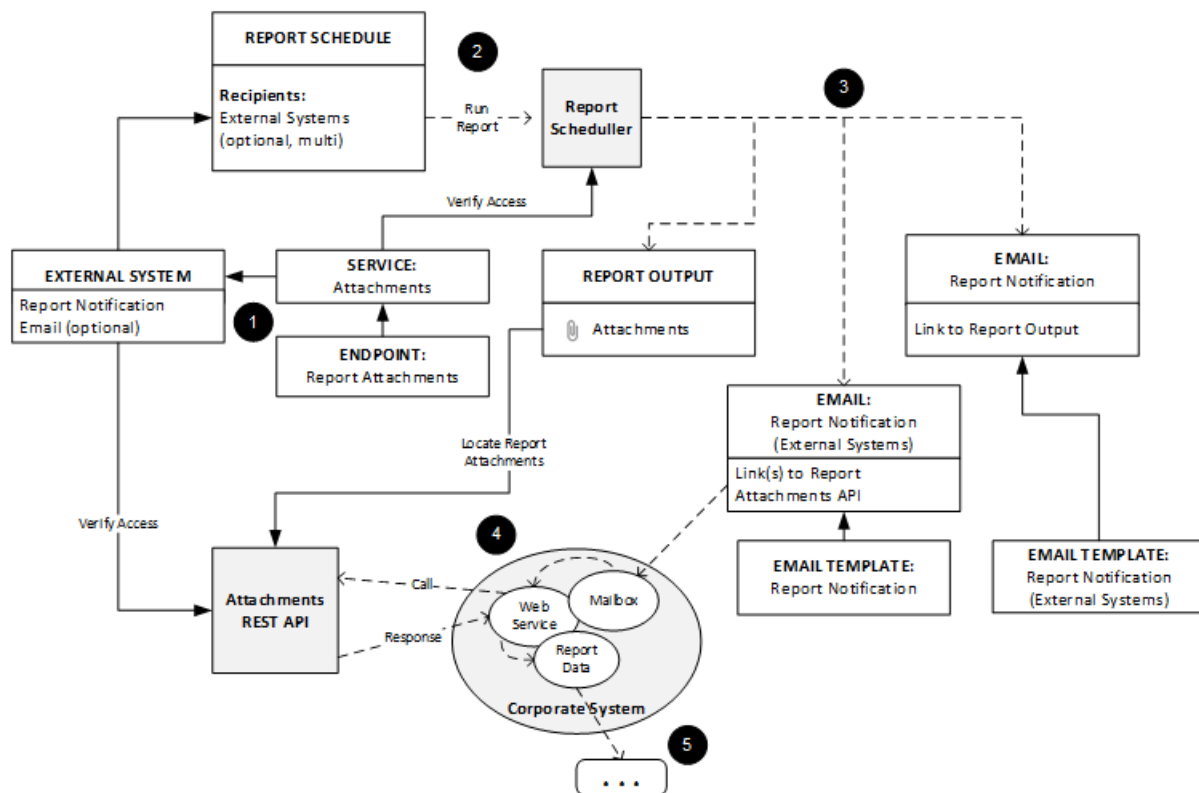
The Report Attachment API provides a means of automatically retrieving the report output attachments from the Report Outputs area, for taking the data into an external system for further analysis or processing.

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.

**Figure C–1 Process Flow for Using the Report Attachment API**



1. To access the Report Attachment API, the external system must be registered in Brand Compliance as an External System with the ATTACHMENT service, the REPORT\_ATTACHMENT\_GET endpoint, and an email address assigned.
2. When a report is scheduled, the external system is selected as a recipient.
3. When the report runs, if the recipient is an external system, an email is sent containing a link to the report output attachment (may be more than one if multiple formats have been selected).

In order to prevent the URI to the Attachment record being predictable, a 32-character non-sequential globalId key is used.

The template of the REPORTNOTIFICATION email may be configured in the Brand Compliance Admin area; the default content is:

**Subject:** Report [Report Name] is ready to view

**Body:** The report [Report Name] has been created.

Use the following link(s) to retrieve the attachment data from the attachment API.

File name: [File Name].[File Type]  
 [Link to Report Attachments API]  
 File name: [File Name] File Type: [File Type]  
 [Link to Report Attachments API]

4. The external system initiates the call to the Report Attachment API. This may be triggered automatically on receipt of the email, or could be triggered by another event, by a scheduled job, or by a manual user action.

- 
5. 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>JVBERi0xLjYNCjUgMCBvYmoNCjw8DQovVHlwZSAvUGFnZQ0KL1Bhc...</ns1:data>
</ns1:attachmentFullDTO>
```

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**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).

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# 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.