Oracle® Retail Omnichannel Cloud Data Service

Implementation Guide

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Value-Added Reseller (VAR) Language

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Preface

The *Oracle® Retail Omnichannel Cloud Data Service Implementation Guide* provides information about the processing of the Oracle Omnichannel Cloud Data Service (OCDS) data hub.

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This guide is for technical personnel who configure, maintain and support, or use Oracle Retail Xstore Office.

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The following text conventions are used in this document:

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

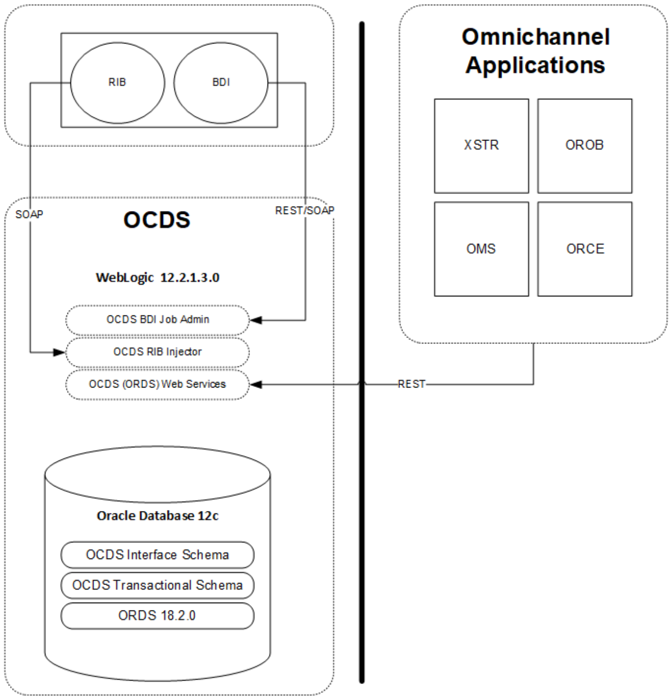
1 Introduction

Oracle Omnichannel Cloud Data Service (OCDS) is a data hub, enabling Oracle Retail Merchandising and Pricing applications to share foundation data with Oracle Retail Omnichannel applications. OCDS is composed of three major components:

- BDI Batch Job Admin - Enables the flow of data into OCDS using Oracle Bulk Data Integration (BDI) technology. Job Admin has a User Interface (UI) to support the management of BDI batch Jobs.
- RIB Injector - Enables the flow of data into OCDS from the Oracle Retail Integration Bus (RIB).
- ORDS - Enables the data contained in OCDS to be accessed by Omnichannel Applications through the use of RESTful web services.

> **Note:** The OCDS was designed and tested as an integration solution for Oracle Retail applications only.
>
> Its use as an integration solution for third-party, non Oracle Retail applications is not supported.

Figure 1–1 OCDS Components



2

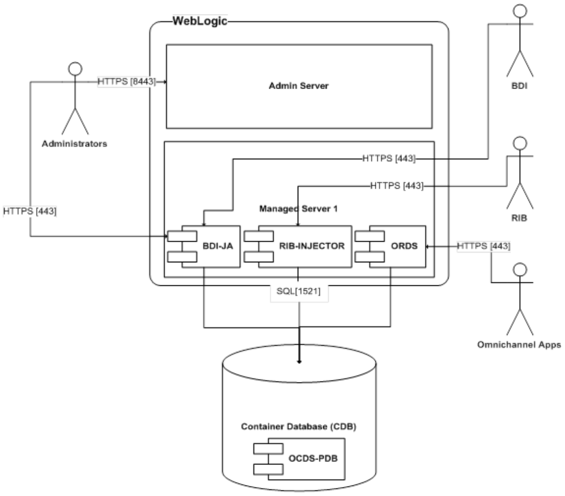
Technical Design

This chapter deals with the technical design of OCDS.

OCDS Topology

The diagram below illustrates the basic deployment topology for OCDS. Alternatively, each OCDS component can be hosted in its own WebLogic Managed Server.

Figure 2–1 Basic Deployment



- **BDI-JA:** OCDS (BDI) Job Admin is the interface between the Oracle Retail Bulk Data Integration and OCDS, enabling BDI data to flow into the OCDS database.
- **RIB-INJECTOR:** OCDS (RIB) Injector is the interface between RIB infrastructure and OCDS; it listens for SOAP-based RIB messages containing incremental changes to data initially populated through BDI.
- **ORDS:** The OCDS (ORDS) Web Service exposes the data managed by OCDS to Omnichannel applications.

Scaling OCDS

Oracle provides many clustering solutions and options; those relevant to OCDS are Oracle database clusters and WebLogic Server clusters. Clustering directly addresses availability, scalability, recoverability requirements which are very attractive to a business. In reality though it is a tradeoff, a clustered system increases complexity, is normally more difficult to manage and secure, so one should evaluate the pros and cons before deciding to use clustering.

WebLogic Server Cluster Concepts

A WebLogic Server cluster consists of multiple WebLogic Server managed server instances running simultaneously and working together to provide increased scalability and reliability. A cluster appears to clients to be a single WebLogic Server instance. The server instances that constitute a cluster can run on the same machine, or be located on different machines. You can increase a cluster's capacity by adding additional server instances to the cluster on an existing machine, or you can add machines to the cluster to host the incremental server instances. Each server instance in a cluster must run the same version of WebLogic Server.

In an active-passive configuration, the passive components are only used when the active component fails. Active-passive solutions deploy an active instance that handles requests and a passive instance that is on standby. In addition, a heartbeat mechanism is usually set up between these two instances together with a hardware cluster (such as Sun Cluster, Veritas, RedHat Cluster Manager, and Oracle CRS) agent so that when the active instance fails, the agent shuts down the active instance completely, brings up the passive instance, and resumes application services. In an active-active model all equivalent members are active and none are on standby. All instances handle requests concurrently. An active-active system generally provides higher transparency to consumers and has a greater scalability than an active-passive system. On the other hand, the operational and licensing costs of an active-passive model are lower than that of an active-active deployment.

Note: See the Oracle® Fusion Middleware Using Clusters for Oracle WebLogic Server documentation for more information.

https://docs.oracle.com/cd/E15523_01/web.1111/e13709/toc.htm

BDI Job Admin on Cluster

The OCDS BDI Job Admin is, in Oracle® Retail Bulk Data Integration terminology, a BDI edge application. BDI edge apps can be deployed into in an active-active cluster environment to achieve better throughput.

For more information see the *Oracle® Retail Bulk Data Integration Implementation Guide*.

RIB Injector on Cluster

The RIB Injector is a Web Service consumer of SOAP messages.

The RIB architecture is designed for active-passive clusters only, so there can only be one injector end points on the consuming side. However, through-put can be optimized by customizing the RIB's multi-channel feature that allows parallel threads to send messages to a consumer, such as OCDS. The producer-side can be setup with multiple channels; for example, there would be 10 subscriber adapters in play sending messages in parallel to the OCDS Injector end point. The # of channels can be configured and will typically match how fast the consuming application can consume the messages.

See chapter 10 of the *Oracle® Retail Integration Bus Operations Guide* for more information.

ORDS on Cluster

The ords.war file can be deployed onto more than one managed server. The ORDS configuration directories and files (stored in config/ords) must be made available on each managed server.

For more detailed information see *Oracle REST Data Services Installation, Configuration, and Development Guide*.

The OCDS Database

The OCDS database contains two distinct schemas, one serves as the interface to the Bulk Data Integration, the other contains the data served to OCDS web service clients.

Tablespaces

Tablespaces are a collection of logical storage units in the database. The tablespace to schema association is determined by database administrators at install time.

Schemas

Schema objects are the logical structures that directly refer to the database's data. Schema objects include structures like tables, procedures, and indexes.

Table 2–1 Schema Objects

Type	Database User	Description
BDI Interface	ocds_ifc	The database contains BDI Interface tables into which the Oracle Bulk Data Integration inserts Merchandising and Pricing data. The content of BDI Interface tables is only changed by BDI activity.
OCDS Transactional	ocds_txn	The database contains transactional tables that function as a living snapshot of the latest Merchandising and Pricing data. The contents of Transactional tables are initially populated by BDI. In addition, Transactional tables are modified when incremental changes to Merchandising data are received from RIB messages.

Transactional Schema

The *transactional* schema contains tables necessary for serving the Enterprise Data needs of Omnichannel applications. Most transactional tables are initially populated by BDI activity. In addition, many tables are modified by the contents of RIB messages.

Despite what this schema's name might suggest, the Transactional Schema does not contain any data retailers commonly refer to as "transaction data". In OCDS terms, the word "transactional" distinguishes how the contents of this schema's tables change frequently over time, as RIB messages are consumed and incremental BDI data, whereas the Interface Schema's table contents are a static snapshot of exported data from Merchandising and Pricing systems.

The core Transactional schema tables are initially populated as part of the inbound BDI flow managed by Job Admin. After BDI Interface tables are loaded successfully from BDI, a BDI "importer" copies data from Interface schema tables to Transactional schema tables.

The core Transactional schema tables contain, in many cases, only a subset of the columns of their corresponding table in the Interface schema. Only columns useful to Omnichannel applications are included in the Transactional schema's tables.

Timestamp Control Columns Transactional schema tables that contain data also communicated from RIB messages include the use of timestamp control columns. These columns are used by the OCDS web service API in calculating an "action" value. Action values provide a hint to the calling application how the data should be handled. Actions have values such as INSERT, UPSERT, UPDATE, and DELETE.

The timestamp control columns are:

Table 2–2 Timestamp Control Columns

Column Name	Description
LAST_CREATE	Last created
INIT_CREATE	Initially created
LAST_UPDATE	Last updated
LAST_DELETE	Last deleted (NULL if not deleted)

Logging The Transactional schema contains two diagnostic logging-related a tables: LOG_ENTRY and LOG_SEVERITY. The LOG_SEVERITY table can be used to turn on and off the ERROR, INFO and DEBUG log messages that can be written to the LOG_ENTRY table by OCDS database procedures in the transactional schema.

Version The transactional schema has a table in which version information is stored. The OCDS_VERSION table stores details about an OCDS database's release and hotfix levels. The information stored in this table is accessible from a REST endpoint.

Interface Schema

The *interface* schema contains all of the inbound-interface tables necessary for receiving Merchandising and Pricing data from the Bulk Data Integration (BDI) infrastructure. OCDS is a receiving-only BDI Edge Application. Up-stream BDI components have responsibility for sending data to OCDS, and into the interface schema.

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BDI Job Admin

BDI Job Admin is a web application and services responsible for management of the receiving of data into OCDS from BDI. In as much as BDI Job Admin is a component of OCDS, it is also a component of the enterprise infrastructure that enables OCDS to receive Merchandising and Pricing data.

BDI Interfaces

OCDS (BDI) Job Admin is the interface between BDI infrastructure and OCDS, enabling BDI data to flow into the OCDS database. The following table lists the BDI Interfaces supported by OCDS for which data is exposed through REST web service resources.

Table 3–1 BDI Interfaces supported by OCDS

Interface Module	BDI Type
Clearance_Tx	Transactional
COFutureAvail_Tx	Foundational
DiffGrp_Fnd	Foundational
Diff_Fnd	Foundational
InvAvailStore_Tx	Foundational
InvAvailWh_Tx	Foundational
ItemHdr_Fnd	Foundational
ItemImage_Fnd	Foundational
ItemLoc_Fnd	Foundational
MerchHier_Fnd	Foundational
OrgHier_Fnd	Foundational
PriceChange_Tx	Transactional
PromotionOffer_TX	Transactional
RelatedItem_Fnd	Foundational
StoreAddr_Fnd	Foundational
Store_Fnd	Foundational
VatItem_Fnd	Foundational
Vat_Fnd	Foundational
WhAddr_Fnd	Foundational

Table 3–1 (Cont.) BDI Interfaces supported by OCDS

Interface Module	BDI Type
Wh_Fnd	Foundational

Scheduling BDI Data

OCDS receives data from two sources, BDI and RIB. For data families where RIB messages trickle incremental changes to OCDS, a one-time BDI job provides OCDS with an initial load. For data families without RIB support, scheduled BDI jobs provide OCDS with recurring refreshes.

Table 3–2 Recommended BDI Refreshes for OCDS

BDI Family	BDI Refresh
Clearance Price	SCHEDULED
Diff Group	ONE-TIME ONLY
Diff	ONE-TIME ONLY
Inv Avail Store	SCHEDULED
Inv Avail Warehouse	SCHEDULED
Inv Future Available	SCHEDULED
Item Header	ONE-TIME ONLY
Item Image	ONE-TIME ONLY
Item Location	ONE-TIME ONLY
Item Supplier	ONE-TIME ONLY
Merchandise Hierarchy	ONE-TIME ONLY
Organization Hierarchy	ONE-TIME ONLY
Price Change	SCHEDULED
Promotion	SCHEDULED
Related Item	ONE-TIME ONLY
Store	ONE-TIME ONLY
VAT	SCHEDULED
VAT Item	ONE-TIME ONLY
Warehouse	ONE-TIME ONLY

Scheduled

BDI families not utilizing RIB for incremental changes should be scheduled using the BDI Scheduler at intervals appropriate for the BDI family.

One-Time Only

BDI families where initial load of data is provided by BDI, and incremental changes are provided by RIB, should not be scheduled using the BDI Scheduler. The only time OCDS should receive a subsequent BDI, after the initial load, is if the OCDS data is determined to be unreliable.

Important: Note that refreshing OCDS one-time only families may force downstream system, such as Xstore, to purge and completely refill all databases. Understanding how Omnichannel applications behave when OCDS is refreshed is extremely important when evaluating the decision to refresh "One-Time Only" data in OCDS from BDI.

WebLogic Users and Groups

WebLogic security realms provide a mechanism for protecting WebLogic resources. Users are entities that can be authenticated in a security realm. Users are organized into Groups that can have different levels of access to WebLogic resources.

This section lists the default security realm's Groups and Users used by the BDI Job Admin component.

See Monitoring Batch Jobs Using BDI Job Admin in Oracle® Retail Bulk Data Integration Implementation Guide for information about Job Admin User roles.

Groups

Table 3–3 WebLogic Groups

Name	Description	Component
BdiEdgeOcdsJobAdminGroup	User who can create, run and monitor Jobs	BDI Job Admin
BdiEdgeOcdsJobMonitorGroup	Users who can run and monitor jobs	BDI Job Admin
BdiEdgeOcdsJobOperatorGroup	Users who can monitor jobs	BDI Job Admin

Users

Table 3–4 WebLogic Users

Type	Group	Description	Component
Job Administrators	BdiEdgeOcdsJobAdminGroup	Job Administrators	BDI Job Admin
Job Operators	BdiEdgeOcdsJobOperatorGroup	Job Operators	BDI Job Admin
Job Monitors	BdiEdgeOcdsJobMonitorGroup	Job Monitors	BDI Job Admin

Changing User Passwords

A production OCDS should be integrated with IDCS or OIM. See the documentation for the integrated identity management solution for details on password management.

A non-production OCDS can simply use the WebLogic DefaultAuthenticator. The OCDS JobAdmin's user password is authenticated by the default Authentication Provider configured for the security realm of the WebLogic domain. When using the DefaultAuthenticator, a user password can be reset directly by accessing the Users and Groups tab of the security realm's settings in the WebLogic Admin Console.

Logging

Job Admin logs to multiple files, all located on the file system under the deployment path for the `ocds-batch-job-admin.war`. For more information, see Monitoring Batch Jobs Using BDI Job Admin in *Oracle® Retail Bulk Data Integration Implementation Guide* for additional details regarding Job Admin logging.

URL patterns

OCDS Job Admin uses the following URL patterns.

Table 3–5 URL Patterns

Type	User
Web Application User Interface	`http://<hostname>:<port>/ocds-batch-job-admin/`
REST services	`http://<hostname>:<port>/ocds-batch-job-admin/ocds-batch-job-admin/resources`

Job Admin User Interface

The OCDS BDI Job Admin UI is a web application that provides the GUI for managing batch jobs and runtime.

The User Interface provides ability to:

- Start/restart, and track status of jobs
- Trace data
- View diagnostic errors
- Manage options at job and system level
- View the logs

Job Admin is a standardized framework component used by Oracle Retail BDI Edge Applications. Detailed documentation for the component is available in the *Oracle® Retail Bulk Data Integration Implementation Guide*.

4

RIB Injector

The OCDS (RIB) Injector is the interface between RIB infrastructure and OCDS; it listens for SOAP-based RIB messages for the families listed in the following table. The messages received by the OCDS Injector represent incremental changes to the merchandising data received in OCDS through BDI.

RIB Families

Table 4–1 RIB Families

Family	Message Type
Diffs	DIFFCRE
	DIFFDEL
	DIFFMOD
DiffGrp	DIFFGRPHDRCRE
	DIFFGRPHDRMOD
	DIFFGRPDEL
	DIFFGRPDTLCRE
	DIFFGRPDTLDEL
	DIFFGRPDTLMOD
ITEMLOC	ITEMLOCCRE
	ITEMLOCMOD
	ITEMLOCDEL
	ITEMLOCREPLMOD

Table 4–1 (Cont.) RIB Families

Family	Message Type
Items	ITEMIMAGECRE
	ITEMIMAGEDEL
	ITEMIMAGEMOD
	ITEMCRE
	ITEMDEL
	ITEMHDRMOD
	RELITEMHEADCRE
	RELITEMHEADMOD
	RELITEMHEADDEL
	RELITEMDETCRE
	RELITEMDETMOD
	RELITEMDETDEL
	ITEMVATCRE
	ITEMVATMOD
	ITEMVATDEL
MERCHHIER	CLASSCRE
	CLASSMOD
	CLASSDEL
	DEPTCRE
	DEPTMOD
	DEPTDEL
	DIVISIONCRE
	DIVISIONMOD
	DIVISIONDEL
	GROUPCRE
	GROUPMOD
	GROUPDEL
	SUBCLASSCRE
	SUBCLASSMOD
	SUBCLASSDEL

Table 4–1 (Cont.) RIB Families

Family	Message Type
ORGHIER	ORGHIERCRE
	ORGHIERMOD
	ORGHIERDEL
	CHAINCRE
	CHAINMOD
	CHAINDEL
	AREACRE
	AREAMOD
	AREADEL
	REGIONCRE
	REGIONMOD
	REGIONDEL
	DISTRICTCRE
	DISTRICTMOD
	DISTRICTDEL
STORES	STORECRE
	STOREDEL
	STOREMOD
	STOREDTLCRE
	STOREDTLDEL
	STOREDTLMOD
WH	WHCRE
	WHDEL
	WHMOD
	WHDTLCRE
	WHDTLDEL
	WHDTLMOD

Logging

The OCDS RIB Injector writes log messages to a log file on the file system under the deployment path for the `injector.war`. The log level is controlled by the `ocds-injector.war\WEB-INF\lib\injector.jar\log4j.xml` file.

WebLogic Users and Groups

WebLogic security realms provide a mechanism for protecting WebLogic resources. Users are entities that can be authenticated in a security realm. Users are organized into Groups that can have different levels of access to WebLogic resources.

This section lists the default security realm's Groups and Users used by the RIB Injector component.

Groups

Table 4–2 WebLogic Groups

Name	Description	Component
IntegrationGroup	SOAP Authentication User Group	RIB Injector

Users

Table 4–3 WebLogic Users

Type	Group	Description	Component
Integration User	IntegrationGroup	RIB Web Service User	RIB Injector

Changing User Passwords

A production OCDS should be integrated with IDCS or OIM. See the documentation for the integrated identity management solution for details on password management.

A non-production OCDS can simply use the WebLogic DefaultAuthenticator. The OCDS Injector's user password is authenticated by the default Authentication Provider configured for the security realm of the WebLogic domain. When using the DefaultAuthenticator, a user password can be reset directly by accessing the Users and Groups tab of the security realm's settings in the WebLogic Admin Console.

5

ORDS Web Services

The RESTful API enabling Omnichannel applications to access the Merchandising and Pricing data from OCDS runs on Oracle REST Data Services (ORDS).

Performance Tuning

As the number of Omnichannel clients of OCDS increases, it is possible to experience performance degradation due to there being too few database connections to service the load. ORDS uses the Oracle Universal Connection Pool (UCP), a cache of reusable database connection objects. The out-of-the-box ORDS defaults for initial number of connections created and the maximum number of connections allowed is 3 and 10 respectively, which may be low for very active environments.

These properties, and others, are stored in the Oracle REST Data Services `<config-folder>/ords/defaults.xml` file that is created at the install time.

Increase these connection limits by setting the `jdbc.InitialLimit` and `jdbc.MaxLimit` configuration file parameters to higher values.

The ORDS jdbc.statementTimeout property and the Weblogic Stuck Thread Max Time setting can be increased if the amount of time needed to generate an OCDS REST response exceeds default limits.

Additionally, GZIP compression can be enabled through the Weblogic console if all OCDS clients support GZIP compressed REST responses.

To enable GZIP:

1. Log into the Weblogic console for OCDS.
2. Select a domain (example home > ocds_domain), then click Web Application tab.
3. Check GZip Compression Enabled.
4. Set the desired GZIP Compression Min. Content Length (example: 2048).
5. Add application/json to GZIP Compression Content Type.

See section *B.4 Understanding the Configuration File Format* of the Oracle REST Data Services Documentation Release 18.1 (O*racle REST Data Services Installation, Configuration, and Development Guide*) for details on all ORDS configurations.

REST Services

This chapter deals with the REST Services.

Authentication

REST Services are secured with SSL and basic authentication. Successful authentication of a REST request requires the caller provide the username and password of a User in the OcdsMonitorGroup.

Endpoints

The root URL pattern for the OCDS (ORDS) Web Services is shown below, where `{system}` is defined during the ORDS install/configuration procedure by using the map-url command. The `{system}` is also known as the "path prefix" and "URL prefix" in ORDS documentation.

```
http[s]://{host}[:{port}]/ords/{system}/omnichannel/
```

For individual URL endpoint patterns, see Appendix A: V1 REST Endpoints.

WebLogic Users and Groups

WebLogic security realms provide a mechanism for protecting WebLogic resources. Users are entities that can be authenticated in a security realm. Users are organized into Groups that can have different levels of access to WebLogic resources.

This section lists the default security realm's Groups and Users used by the ORDS web service component.

Groups

Table 5–1 WebLogic Groups

Name	Description	Component
OcdsMonitorGroup	REST Authentication User Group	ORDS

Users

The credentials of Users in the OcdsMonitorGroup are used for REST web service authentication. It is recommended that one user be created for each Omnichannel application that is integrated with OCDS.

Table 5–2 WebLogic Users

Type	Group	Description	Component
Omnichannel Application User	OcdsMonitorGroup	Omnichannel Applications Web Service User	ORDS

Changing Passwords

A production OCDS should be integrated with IDCS or OIM. See the documentation for the integrated identity management solution for details on password management.

A non-production OCDS can simply use the WebLogic DefaultAuthenticator. The OCDS ORDS Web Service user password is authenticated by the default Authentication Provider configured for the security realm of the WebLogic domain. When using the DefaultAuthenticator, a user password can be reset directly by accessing the Users and Groups tab of the security realm's settings in the WebLogic Admin Console.

6
Maintenance

This chapter deals with data retention.

Data Retention

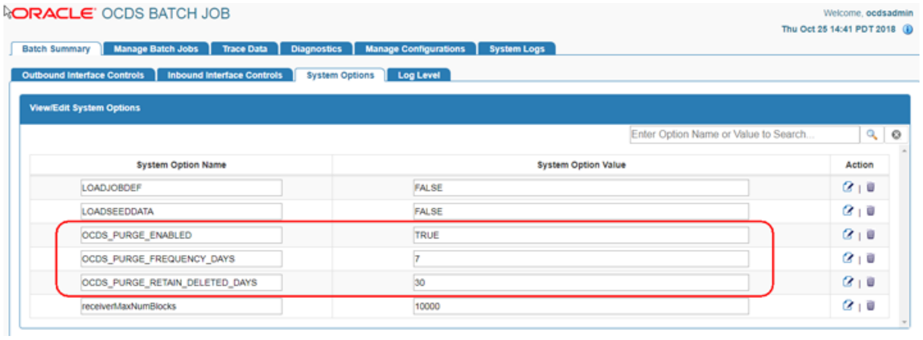
OCDS serves as a common, centralized, repository of the merchandising and pricing data required by Omnichannel applications. At any point, a downstream Omnichannel application should be able to ask OCDS for all data changes *since* a point in time. In addition, OCDS clients should be able to depend on OCDS to provide a complete snapshot of all Merchandising and Pricing data, if needed.

As Merchandising and Pricing data are added in the upstream source systems, records are added to OCDS's transactional table through BDI and/or RIB communication. When data has been deleted from the source system, OCDS continues to retain records with the state of the data marked as deleted so the "delete" event can be conveyed to OCDS clients.

Purging Deleted Data

OCDS has a built-in mechanism to purge deleted data, at an interval, after the data has been flagged "deleted" for a certain number of days. The OCDS purge mechanism is enabled by default, and can be configured to a retailer's business needs from the OCDS Job Admin UI.

Figure 6–1 OCDS Batch Job - System Options



System Option Name	System Option Value	Action
LOADJOBDEF	FALSE	✎ | 🗑
LOADSEEDDATA	FALSE	✎ | 🗑
OCDS_PURGE_ENABLED	TRUE	✎ | 🗑
OCDS_PURGE_FREQUENCY_DAYS	7	✎ | 🗑
OCDS_PURGE_RETAIN_DELETED_DAYS	30	✎ | 🗑
receiverMaxNumBlocks	10000	✎ | 🗑

Use the OCDS Job Admin System Options to view and edit the OCDS Purge property values.

Table 6–1 System Options

System Option Name	Description
OCDS_PURGE_ENABLED	Indicates if deleted data should be purged.
OCDS_PURGE_RETAIN_ DELETED_DAYS	The number of days to retail deleted data. The number of days should be enough to be certain all Omnichannel applications have learned about any "deletes".
OCDS_PURGE_ FREQUENCY_DAYS	The frequency, described in days, with which deletes are to be purged.

A

Appendix A: V1 REST Endpoints

This chapter describes the V1 REST Endpoints.

diffs : Get Item Differentiators

Get the **changes** made to Diffs **since** a point in time. Diffs are special purpose attributes used to define concepts that differentiate items that are closely related, but not the same. Diffs are used to define colors, sizes, patterns, scents and flavors.

```
GET ords/{system}/omnichannel/{version}/diff
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

diffid	The unique ID of the diff. Data will always be present in this field.
diffdesc	The type code for the diff. All diffs belong to one any only one type.
difftype	A value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_TYPE table.
difftypedesc	The description of the diff. Data will always exist in this field.

Sort

Order	Field	Sorting
1	diffid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/diff?since=2018-01-23T16:26:41.485Z:30&before=2018-06-23T16:26:41.485Z

```
{
"items": [

{
"action": "INSERT",
"diffid": "AUTOBLACK",
"diffdesc": "Auto Black",
"difftype": "AUTO_C",
"difftypedesc": "Auto Color"
},

],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]

}
```

diff/group : Get Item Differentiator Group

Get the **changes** made to Diff Groups **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/diff/group
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
diffgroupid	A unique number id for the differentiator group. Data will always be present in this field.
diffgroupdesc	Description of the differentiator group (for example: Mens Shirt Sizes, Womens Shoe Sizes, Girls Dress Sizes, Shower Gel Scents, Yogurt Flavors, etc.). Description data is only sent in the primary integration language of the system.
difftypeid	A value of the types of differentiators contained in this differentiator group, including but not limited to: S (size), C (color), F (flavor), E (scent), P (pattern).

diffid	Contains the description of the differentiator type. For Example: Size, Color, Flavor, Scent, Pattern. Description data is only sent in the primary integration language of the system.

Sort

Order	Field	Sorting
1	diffgroupid	Ascending

Example Data

Content-Type: application/json

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/diff/group?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{

"items": [
{
"action": "INSERT",
"diffgroupid": "AUTO CLRS",
"diffgroupdesc": "Auto Basic Color Pallet",
"difftypeid": "AUTO_C",
"diffid": "1"
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]

}
```

item : Get Item

Get **changes** made to items **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
itemlocation	The Organization Hierarchy Node id when requested by node, otherwise "ent" (Enterprise) is returned.
item	ID of item. Data will always be present in this field.
itemparent	ID identifies the item/group at the level above the item. This value must exist as an item in another row on the item_master table.

itemgrandparent	ID identifies the item/group two levels above the item. This value must exist as both an item and an item parent in another row on the item_master table.
itemlevel	Number indicating which of the three levels the item resides. The item level determines if the item stands alone or if it is part of a family of related items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a item level = 1 UPCs for Staple items generally have an item level = 2 (and the staple item will be the UPCs parent item). Fashion styles generally have an item level = 1. Fashion skus generally have an item level = 2. If UPCs for fashion skus generally have an item level = 3. Valid values are 1, 2 and 3. This field will always have data.

tranlevel	Number indicating which of the three levels transactions occur for the items group. The transaction level is the level at which the items inventory is tracked in the system. The transaction level item will be inventoried, counted, transferred, shipped, etc. Only one level of the hierarchy of an item family may contain transaction level items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a TranLevel = 1. UPCs for Staple items generally have an TranLevel = 1 (inventory txns occur at the staple sku level; sales of the item roll up to the parent staple sku). Fashion styles generally have a TranLevel = 2 (the style itself is not sold/inventoried). Fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). If UPCs for fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). There are some rare cases in vendor managed inventory where the TranLevel = 3. Valid values are 1, 2 and 3. This field will always have data.

inventoryind	This indicator is used to determine if inventory is held for the item/item family. Inventory is held for most items. However, inventory is not held (value = N) in some special cases, such as: Concession items (items that are sold by independent in location concessions), Consignment items (items are not owned by the retailer; financial and inventory processing occurs after the item is sold to a consumer), Containers sold then returned for deposit and some items that are transformed for sale. Valid values are Y and N. This field will always have data.
diff1level	This field will contain either ID or GROUP, based on whether the diff_1 is a group diff or a diff id.
diff1type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
diff1	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff2level	This field will contain either ID or GROUP, based on whether the diff_2 is a group diff or a diff id.

diff2type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_TYPE table.
diff2	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff3level	This field will contain either ID or GROUP, based on whether the diff_3 is a group diff or a diff id.
diff3type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_TYPE table.
diff3	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
division	Number identifying the Division in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same division. This data is required

groupid	Number identifying the Group in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same group. This data is required
dept	Number identifying the department in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department. This data is required
class	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.
uniqueclass	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.

subclass	Number identifying the subclass in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department, class and subclass. Subclass is not a unique ID (for example, every department/class can have a subclass 1). This data is required.
uniquesubclass	Number uniquely identifying the subclass node which the item belongs to. Subclass is not unique ID the merchandise hierarchy. The combination of Dept/Class/Subclass is unique, but requires use of a composite key. The composite key is generally used in user interfaces. The unique ID can be used in back end processing or in systems that can not have a composite key for a node in the merchandise hierarchy.
description	Primary description of the item in the integration language of the system. This value is required.

localdescription	The local description of the item, when requesting by Organization Hierarchy Node and Hierarchy level is "STORE". This may be the same as the primary description of the item, a regional description of the item (for example, jimmies vs sprinkles in the US or roll vs bap vs cob vs bun in the UK), or a value in a local language (for example, Overlay dress true black knit at US stores vs Lagenkleid - Strick, tiefschwarz at stores in Germany). The intent is that this string is appropriate to print description on signage/receipts at this location. This will be null for all non-STORE Hierarchy levels.
merchandiseind	Indicates if the item is a merchandise item (Y, N). Merchandise items are generally physical items (things that must be shipped/received and of which there is an inventory). Non merchandise items are often items which do not have inventory. Common examples include extra fees for service (extended warranties, alterations) or endlessly available items (downloads, in app purchases of bonus content, subscriptions). All items, both merchandise and non-merchandise are exported from RMS. This value is required.

uintype	The unique identification number (UIN) used to identify the instances of the item at the location.
mfgrecretail	Manufacturers recommended retail price for the item. Used for informational purposes only. This field is stored in the primary currency.
originalunitretail	The original retail price of the item per unit. This field is stored in the primary currency.
catchweightind	Indicates whether the item should be weighed when it arrives at a location. Valid values for this field are Y and N. This field will always have data';
itemservicelevel	Holds a value that restricts the type of shipment methods that RCOM can select for an item.
giftwrapind	This field will contain a value of Y if the item is eligible to be gift wrapped. If not explicitly defined, this field will default to N. This field will always have data records.
shipaloneind	This field will contain a value of Y if the item must be shipped alone to consumers. If not explicitly defined, this field will default to N. This field will always have data records.

standarduom	Unit of measure in which stock and or financials of the item is tracked at a corporate level. Unit of measure reference values may have to be manually synced between the systems as this is foundation data that is not currently bulk integrated out of Merch. This value is required.
xdiff1desc	When diff1level is ID, the description of the diff. When diff1level is GROUP, the description of the differentiator group.
xdiff2desc	When diff2level is ID, the description of the diff. When diff2level is GROUP, the description of the differentiator group.
xdiff3desc	When diff3level is ID, the description of the diff. When diff3level is GROUP, the description of the differentiator group.

Sort

Order	Field	Sorting
1	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/location/retailstore?nodeId=1&nodeLevel=CHAIN&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"itemlocation": "ent",
"item": "100805000",
"itemparent": null,
"itemgrandparent": null,
"itemlevel": 1,
"tranlevel": 2,
"inventoryind": "Y",
"diff1level": "GROUP",
"diff1type": "AUTO_S",
"diff1": "AUTO XS-XL",
"diff2level": "GROUP",
"diff2type": "C",
"diff2": "BASIC CLRS",
"diff3level": null,
"diff3type": null,
"diff3": null,
"division": 2000,
"groupid": 8000,
"dept": 8787,
"class": 16,
"uniqueclass": 294,
"subclass": 16,
"uniquesubclass": 203,
"description": "DK Cala Lily",
"localdescription": null,
"merchandiseind": "Y",
"uintype": null,
"mfgrecretail": null,
"originalunitretail": 9.99,
"catchweightind": "N",
"itemservicelevel":null,
"giftwrapind":"N",
"shipaloneind":"N",
"standarduom": 1,
"xdiff1desc": "Auto XS-XL",
"xdiff2desc": "Basic Color Pallet",
"xdiff3desc": null}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

item/dimensiontype : Get Item Dimension Type

Get **changes** made to item dimension types **since** a point in time. Dimension Types are the types of dimensions associated with a dimension system. This information is derived from the current item diff usage.

```
GET ords/{system}/omnichannel/{version}/item/dimensiontype
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
dimensionsystem	A system-defined code (Style ID) for the generalized dimension structure an item belongs to.
dimension	The specific code (Diff Type) values belonging to a dimension system. For example, COLOR, SIZE, etc.
description	The text description for a dimension code (Diff Type) used for display.

Sort

Order	Field	Sorting
1	dimensionsystem	Ascending
2	dimension	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/dimensiontype?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/dimensiontype?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

item/dimensionvalue : Get Item Dimension Value

Get **changes** made to item dimension values **since** a point in time. Dimension Values are the values associated with each dimension within a dimension system. This information is derived from the current item diff usage.

```
GET ords/{system}/omnichannel/{version}/item/dimensionvalue
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
dimensionsystem	A system-defined code (Style ID) for the generalized dimension structure an item belongs to.
dimension	The specific code (DiffType) values belonging to a dimension system. For example, COLOR, SIZE, etc.
value	The specific value (Diff) that exists for a given dimension type for a given dimension system. This is a coded value, for example, S, M, L, and so on.

description	The text description of the value code (Diff).

Sort

Order	Field	Sorting
1	dimensionsystem	Ascending
2	dimension	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/dimensionvalue?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/dimensionvalue?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

item/image : Get Item Image

Get **changes** made to item images **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item/image
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
item	Contains the unique alphanumeric identifier for the item, the image is for.
imagename	Contains the name of the image of the item
imageaddr	Contains the actual path where the file of the image of the item is stored.
imagedesc	Contains the type of the image of the item. Valid values are defined as member of IITD code type.

imagetype	Contains the type of the image of the item. Valid values are defined as member of IITD code type.
primaryind	Indicates whether this record is the primary image of the item or not. Valid values are Y(es) and N(o) only. Default to N value if left blank or set as NULL.
displaypriority	This field will specify the display sequence order of images associated to the item per priority.

Sort

Order	Field	Sorting
1	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/image?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/image?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

varcodes

item/itemlocation : Get Item Location

Get **changes** made to item locations **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item/itemlocation
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
loc_type	Describes the type of location. Valid values include S (store) and W (warehouse).
location	Numeric ID of location. The intersection of location and item is a distinct entity. Data will always be present in this field.
item	ID of item. The intersection of location and item is a distinct entity. Data will always be present in this field.

sellingunitretail	The unit retail price in the selling unit of measure for the item/location combination. This field is stored in the local currency.
sellinguom	Contains the selling unit of measure for an items single-unit retail.
taxableind	Indicates if item is taxable at the store
localitemdesc	Contains the local description of the item. This may be the same as the primary description of the item, a regional description of the item (for example, jimmies vs sprinkles in the US or roll vs bap vs cob vs bun in the UK), or a value in a local language (for example, Overlay dress true black knit at US stores vs Lagenkleid - Strick, tiefschwarz at stores in Germany). The intent is that this string is appropriate to print description on signage/receipts at this location.
status	Current status of item at the store.
qtykeyoptions	Determines whether the qty key on a POS should be used for this item at the location.
manualpriceentry	Determines whether the price can/should be entered manually on a POS for this item at the location.
foodstampind	Indicates whether the item is approved for food stamps at the location. This value will be downloaded to the POS.
fixedtarevalue	Holds the value associated of the packaging in items sold by weight at the location.

fixedtareuom	Holds the unit of measure value associated with the tare value. The only processing RMS does involving the fixed tare value and UOM is downloading it to the POS.
stopsaleind	Indicates that sale of the item should be stopped immediately at the location (that is in case of recall and so on).
returnableind	This field will contain a value of Yes when the item can be returned to the location
merchandiseind	Indicates if the item is a merchandise item (Y, N).
crosssell	Indicates whether the item is a related item with either a "UPSL" or CRSL relationship type value.
attacheditem	Indicates whether the item is a related item with either a "SUBS" relationship type value.
vatcodes	List of the applicable vat codes and active dates

Sort

Order	Field	Sorting
1	location	Ascending
2	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/itemlocation?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/itemlocation?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
items: [
{
action: "INSERT",
loc_type: "S",
location: 1151,
item: "100000008",
sellingunitretail: 12,
sellinguom: "EA",
taxableind: "N",
localitemdesc: "Test Item 100000008",
status: "A",
qtykeyoptions: null,
manualpriceentry: null,
foodstampind: null,
fixedtarevalue: null,
fixedtareuom: null,
stopsaleind: null,
returnableind: null,
merchandiseind: "Y",
crosssell: "N",
attacheditem: "N",
vatcodes:
"[{"code":"AAA","date":"2018-01-01"},{"code":"AAB","date":"2018-03-01"},{"code":"A
AC","date":"2018-06-01"},{"code":"AAD","date":"2018-09-01"}]"
}
],
hasMore: true,
limit: 1,
offset: 0,
count: 1,
links: [ {.. } ]
}
```

item/price : Get Item Price

Get **changes** made to item prices **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item/price
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer
pricetype	INITIAL REGULAR CLEARANCE	Request data for a single Price Type	No	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
location	Location identifier for item price
loctype	Location type
item	Item identifier
pricetype	INITIAL, REGULAR, CLEARANCE
price	item price
effective	Date time when change becomes effective
eventid	Pricing Service event id for the price activity
resetind	Flag to indicate to reset the item to previous price

Sort

Order	Field	Sorting
1	loctype	Ascending
2	location	Ascending
3	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/price?since=2018-01-23T16:26:41.485+05:30&before=2018-06-23T16:26:41.485+05:30

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/price?since=2018-01-23T16:26:41.485+05:30&before=2018-06-23T16:26:41.485+05:30&pricetype=INITIAL

```
items: [
{
action: "INSERT",
location: 1151,
loctype: "S",
item: "100000008",
pricetype: "CLEARANCE",
price: 4.63,
effective: "2018-08-05T00:00:00",
eventid: 2000,
resetind: 1
},
],
hasMore: false,
limit: 10000,
offset: 0,
count: 5,
links: [ {.. } ]
}
```

item/promotion : Get Item Promotion

Get **changes** made to item dimension types **since** a point in time. Dimension Types are the types of dimensions associated with a dimension system. This information is derived from the current item diff usage.

```
GET ords/{system}/omnichannel/{version}/item/promotion
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer
nodeid	0..n	Specific node for promotions	Yes	Query	Integer
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE	Level of the target node	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
promoid	Promotion identifier.
offerid	Offer Identifier.
desc	Description of the offer.
custdesc	Customer facing description
levelcode	The level of the offer. Valid values are: 0 - Item, 1 - Transaction.
typecode	The type of the offer. Valid values are: 0 Item Simple, 1 Transaction Simple, 2 - Transaction Buy Get, 3 - Item Buy Get, 4 - Item Gift With Purchase
templateid	The template of the offer. Valid values are: 0 - Get Discount, 1 - Buy X, Get Discount, 2 - Spend X, Get Discount, 3 - Get Y for Discount, 4 - Buy
startdatetime	Starting date time for the offer
enddatetime	Ending date time for the offer
rewards	Rewards associated with the offer
rewards.rewardsid	Reward ID
rewards.changetype	Type of change for the reward. Valid values: change by amount (1), change by percent (0), fixed price (2)
rewards.changeamount	The change by amount or fixed price amount.

rewards.changepercent	Percentage value when change type is change by percent.
rewards.qtytodisc	The qty to discount.
rewards.qtytodiscuom	UOM of the discount quantity.
rewards.appyind	The apply to indicator of the reward. Valid values: Regular only - 0; Clearance only - 1; Regular and Clearance - 2
rewards.pricerestrictcode	Price restriction code. Valid Values are B - Between; G - Greater Than; L - Less Than
rewards.pricestrictvalue1	The first value of the price restriction.
rewards.pricerestrictvalue2	The second value of the price restriction. The second value is only used for between restrictrions
rewards.rwardsmerch	Collection of merchandise eligible for reward
rewards.rewardsmerch.rewardmerchid	The unique id for the offer reward merch record.
rewards.rewardsmerch.mrchlevel	The merchandise level of the row. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff Item; 6 - Transaction Item; 8 - All Departments
rewards.rewardsmerch.dept	Department ID
rewards.rewardsmerch.class	The non-unique class ID value
rewards.rewardsmerch.uniqueclass	The unique class ID value
rewards.rewardsmerch.subclass	The non-unique subclass ID value
rewards.rewardsmerch.unisubclass	The unique subclass ID value
rewards.rewardsmerch.item	Item ID
rewards.rewardsmerch.diffid	Differentiator ID

rewards.rewardsmerch.excludeind	The exclude indicator of the row
rewards.rewardsmerch.canceldatetime	Date time when merchandise reward was cancelled
conditions	Collection of conditions for promotion
conditions.conditionid	Condition ID
conditions.buyspendtype	The buy spend type of the condition. Valid values are: 0 - Quantity, 1 - Amount
conditions.buyspendvalue	The buy spend value of the condition
conditions.buyuom	The buy UOM of the condition
conditions.pricerestrictcode	Price restriction code. Valid Values are B - Between; G - Greater Than; L - Less Than
conditions.pricerestrictvalue1	The first value of the price restriction
conditions.pricerestrictvalue2	The second value of the price restriction. The second value is only used for between restrictrions
conditions.conditionsmerch	Collection of merchandise for condition
conditions.conditionsmerch.condmerchid	The unique id for the offer condition merch record
conditions.conditionsmerch.merchlevel	The merchandise level. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff
conditions.conditionsmerch.dept	Department ID
conditions.conditionsmerch.class	The non-unique class ID value
conditions.conditionsmerch.uniqueclass	The unique class ID value
conditions.conditionsmerch.subclass	The non-unique subclass ID value
conditions.conditionsmerch.uniquesubclass	The unique subclass ID value

conditions.conditionsmerch.item	Item ID
conditions.conditionsmerch.diffid	Differentiator ID
conditions.conditionsmerch.excludeind	The exclude indicator
conditions.conditionsmerch.canceldatetime	Date time condition merchandise was cancelled
locations	Collection of locations for the promotion
locations.action	Action for the promotion in this location - INSERT, UPDATE, DELETE, UPDATE
locations.location	Location for promotion
locations.canceldatetime	Date time promotion was cancelled for this location

Sort

Order	Field	Sorting
1	promoid	Ascending
2	offerid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/promotion?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/promotion?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
items: [
{
promoid: 3403,
offerid: 843,
desc: "Offer 843 Updated",
custdesc: "Offer 843",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 731,
changetype: 0,
changepercent: 25,
applyind: 2,
rewardsmerch: [
{
rewardmerchid: 8401,
merchlevel: 8,
excludeind: 0
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 1898439643
}
]
},
{
promoid: 3403,
offerid: 844,
desc: "Offer 844",
custdesc: "Offer 844",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-23T23:59:59",
rewards: [
{
rewardid: 732,
changetype: 0,
changepercent: 50,
applyind: 1,
rewardsmerch: [
{
rewardmerchid: 8402,
merchlevel: 1,
dept: 9434,
excludeind: 1
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 845,
desc: "Offer 845",
custdesc: "Offer 845",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 733,
changetype: 1,
changeamount: 25,
applyind: 2,
rewardsmerch: [
{
rewardmerchid: 8403,
merchlevel: 1,
dept: 8993,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 241,
buyspendtype: 0,
buyspendvalue: 5,
buyuom: "EA",
conditionsmerch: [
{
condmerchid: 8221,
merchlevel: 1,
dept: 6755,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 8982138499
}
]
},
{
promoid: 3403,
offerid: 846,
desc: "Offer 846",
custdesc: "Offer 846",
levelcode: 1,
typecode: 2,
templateid: 2,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 734,
changetype: 0,
changepercent: 25,
applyind: 2,
rewardsmerch: null
}
],
conditions: [
{
conditionid: 242,
buyspendtype: 1,
buyspendvalue: 50,
conditionsmerch: [
{
condmerchid: 8222,
merchlevel: 3,
dept: 8993,
class: 9713,
uniqueclass: 9713,
subclass: 5179,
uniquesubclass: 5179,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 7761967237
}
]
},
{
promoid: 3403,
offerid: 865,
desc: "Offer 865 Test",
custdesc: "Offer 865 Teset",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 751,
changetype: 0,
changepercent: 20,
applyind: 1,
rewardsmerch: [
{
rewardmerchid: 8421,
merchlevel: 1,
dept: 3124,
excludeind: 1
},
{
rewardmerchid: 8422,
merchlevel: 1,
dept: 5536,
excludeind: 1
}
]
```

```
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 8392141693
}
]
},
{
promoid: 3403,
offerid: 866,
desc: "Offer 866 Test",
custdesc: "Offer 866 Test",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 752,
changetype: 0,
changepercent: 30,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8423,
merchlevel: 1,
dept: 8993,
excludeind: 1
},
{
rewardmerchid: 8424,
merchlevel: 1,
dept: 6755,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 251,
buyspendtype: 0,
buyspendvalue: 3,
buyuom: "BG",
conditionsmerch: [
{
condmerchid: 8231,
merchlevel: 2,
dept: 3124,
class: 5669,
uniqueclass: 5669,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 8392141693,
canceldatetime: "2018-06-25T13:57:43.000000000Z"
}
]
},
{
promoid: 3403,
offerid: 870,
desc: "870 Offer Test",
custdesc: "870 Offer Test",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 753,
changetype: 0,
changepercent: 30,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8425,
merchlevel: 1,
dept: 6755,
excludeind: 1
},
{
rewardmerchid: 8426,
merchlevel: 1,
dept: 9934,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 252,
buyspendtype: 0,
buyspendvalue: 3,
buyuom: "BG",
conditionsmerch: [
{
condmerchid: 8232,
merchlevel: 3,
dept: 3124,
class: 5669,
uniqueclass: 5669,
subclass: 3954,
uniquesubclass: 3954,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 7761967237
},
{
action: "INSERT",
location: 8392141693
}
]
},
{
promoid: 3403,
offerid: 872,
desc: "Offer 872 Test",
custdesc: "Offer 872 Test",
levelcode: 1,
typecode: 2,
templateid: 2,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 754,
changetype: 1,
changeamount: 10,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8430,
merchlevel: 1,
dept: 9978,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 253,
buyspendtype: 1,
buyspendvalue: 50,

conditionsmerch: [
{
condmerchid: 8236,
merchlevel: 1,
dept: 3124,
excludeind: 0
},
{
condmerchid: 8237,
merchlevel: 1,
dept: 5536,
excludeind: 0
},
{
condmerchid: 8238,
merchlevel: 1,
dept: 9469,
excludeind: 0
},
{
condmerchid: 8239,
merchlevel: 1,
dept: 5536,
excludeind: 0,
canceldatetime: "2018-06-25T14:08:35.000000Z"
}
]
}
],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 8392141693
},
{
action: "INSERT",
location: 8992251863
}
]
},
{
promoid: 3403,
offerid: 875,
desc: "Offer 875 Test",
custdesc: "Offer 875 Test",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 756,
changetype: 0,
changepercent: 25,
applyind: 0,

rewardsmerch: [
{
rewardmerchid: 8435,
merchlevel: 5,
item: 114800196,
diffid: "BROWN_5534",
excludeind: 0
},
{
rewardmerchid: 8436,
merchlevel: 5,
item: 114800233,
diffid: "BROWN_5534",
excludeind: 0
},
{
rewardmerchid: 8437,
merchlevel: 5,
item: 114850290,
diffid: "BROWN_7343",
excludeind: 0
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 7761967237
},
{
action: "INSERT",
location: 8992251863
},
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 877,
desc: "Offer 877 Test",
custdesc: "Offer 877 Test",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 757,

changetype: 0,
changepercent: 25,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8438,
merchlevel: 6,
item: 114850388,
excludeind: 0
},
{
rewardmerchid: 8439,
merchlevel: 4,
item: 114850417,
excludeind: 0
},
{
rewardmerchid: 8440,
merchlevel: 4,
item: 114850425,
excludeind: 0
},
{
rewardmerchid: 8441,
merchlevel: 6,
item: 114850572,
excludeind: 0
},
{
rewardmerchid: 8442,
merchlevel: 4,
item: 114850417,
excludeind: 0
},
{
rewardmerchid: 8443,
merchlevel: 6,
item: 114850572,
excludeind: 0
},
{
rewardmerchid: 8444,
merchlevel: 6,
item: 114850441,
excludeind: 0,
canceldatetime: "2018-06-25T14:43:41.000000Z"
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 7761967237

},
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 880,
desc: "Offer 880 Test",
custdesc: "Offer 880 Test",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-08T00:00:00",
enddatetime: "2018-07-10T23:59:59",
rewards: [
{
rewardid: 759,
changetype: 1,
changeamount: 20,
applyind: 2,
rewardsmerch: null
}
],
conditions: [ ],
locations: [
{
action: "DELETE",
location: 5579346692
},
{
action: "DELETE",
location: 7761967237
},
{
action: "DELETE",
location: 9953588522
}
]
}
],
hasMore: true,
limit: 100000,
count: 12,
links: [ {.. } ]
}
```

item/relateditem : Get Related Item

Get **changes** made to related items **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item/relateditem
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the Organization Hierarchy node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how related item relationship has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA. *Important*: This response has two levels of actions. This field only communicates the action of the relationship.
relationshipid	Unique identifier for each relationship. Data will always exist in this field.
item	Item for which the relationships are defined. This is the parent item in a related item relationship. Data will always exist in this field.

mandatoryind	Indicates whether the relationship should be mandatory. For example, an item like a laptop may have a mandatory cross sell relationship. The related items could be different power cords for the US, UK, Mainland Europe, India, and so on. When the laptop is sold, it should be mandatory that one of the related power cords also be selected. Generally, only cross sell relationships are mandatory. Substitution and upsell relationships can be defined as mandatory, but in those cases, the definition of mandatory is at the discretion of the client and generally means that substitution or upsell must, as business process, be offered to consumers.
relationshiptype	Describes the type of relationship.Valid values include: CRSL (Cross Sell), SUBS (Substitution), UPSL (Up-sell).
relateditem	Item id of the related item. This is the item that should be Cross Sold, Substituted, or Up Sold when the item on the parent record is sold.

relateditemaction	Recommended action based on how the "related" item, in the related item relationship, has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA. *Important*: This response has two levels of actions. This field communicates the action of the "relateditem" involved in the related item relationship.
startdate	From this date related item can be used on transactions.
enddate	Till this date related item can be used on transactions. A value of null means that it is effective forever.
priority	Applicable only in case of relationship type SUBS. In case of multiple related substitute items, this column could be used (optional) to define relative priority.

Sort

Order	Field	Sorting
1	relationshipid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item/relateditem?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"relationshipid": 1,
"item": "101500004",
"mandatoryind": "N",
"relationshiptype": "SUBS",
"relateditem": "100600003",
"startdate": "2014-12-17",
"enddate": "2014-12-31",
"priority": 1
},
{
"action": "INSERT",
"relationshipid": 402,
"item": "101500012",
"mandatoryind": "N",
"relationshiptype": "CRSL",
"relateditem": "101500004",
"relateditemaction": "DELETE",
"startdate": null,
"enddate": null,
"priority": null
},
{
"action": "INSERT",
"relationshipid": 402,
"item": "101500012"
"mandatoryind": "N",,
"relationshiptype": "CRSL",
"relateditem": "101500021",
"relateditemaction": "INSERT",
"startdate": null,
"enddate": null,
"priority": null
}
],
"hasMore": true,
"limit": 3,
"offset": 0,
"count": 3,
"links": [ {.. } ]
}
```

location/retailstore : Get Retail Store

Get **changes** made to retail stores **since** a point in time. Address fields are always derived from the primary Business (addr_type: 01) address.

```
GET ords/{system}/omnichannel/{version}/location/retailstore
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
storeid	Unique ID of the store.
storename	Name of the store which, along with the store number, identifies the store.
storename10	A ten character abbreviation of the store name.
manager	Name of the store manager.
contactname	Name of the contact at this address
phonenumber	Phone number for the store.

faxnumber	Fax number for the store.
email	Email address for the store.
totalsqfeet	Total square footage of the store.
sellingsqfeet	Total square footage of the stores selling area.
currencycode	Currency code under which the store operates.
vatregion	Indicates whether or not Value Added Tax will be included in the retail prices for the store. Valid values are Y or N.
address1	First line of the Primary Business address. When the store has a primary business address, this field will contain data.
address2	Second line of the address.
address3	Third line of the address.
city	Name of the city that is associated with the address. When the store has a primary business address, this field will contain data.
state	The state abbreviation for the address.
country	The ISO 3166-1 country code associated with the address. When the store has a primary business address, this field will contain data.
postalcode	Zip code for the address.

Sort

Order	Field	Sorting
1	storeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/location/retailstore?nodeId=1&nodeLevel=CHAIN&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"storeid": 2689,
"storename": "RMS 15.0 DTI Store",
"storename10": "DTI STORE",
"manager": "Mr. Jones",
"contactname": "Sally Smith" "phonenumber": "123456",
"faxnumber": "123456",
"email": "rmsdti@gmail.com",
"totalsqfeet":20000
"selllingsqfeet":18000
"currencycode": "USD",
"vatregion": 1000,
"address1": "addr",
"address2": null,
"address3": null,
"city": "mpls",
"state": "MN",
"country": "US",
"postalcode": "55345"
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

location/warehouse : Get Warehouse

Get **changes** made to warehouses **since** a point in time. Address fields are always derived from the primary Business (addr_type: 01) address.

```
GET ords/{system}/omnichannel/{version}/location/warehouse
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
warehouseid	Number which uniquely identifies the warehouse. The wh table stores all warehouses in the system. Both virtual and physical warehouses will be stored on this table. The addition of the new column, physical_wh, helps determine which warehouses are physical and which are virtual. All physical warehouses will have a physical_ wh column value equal to their wh number. Virtual warehouses will have a valid physical warehouse in this column.
warehousename	Name of the warehouse which, along with the warehouse number, identifies the warehouse.
whnamesecondary	Secondary name of the warehouse.
contactname	Name of the contact at this address
phonenumber	Phone number of the contact person
faxnumber	Fax number of the contact person
email	Email address of the partner or suppliers representative contact.
currencycode	Currency code under which the warehouse operates.

physicalwh	The number of the physical warehouse that is assigned to the virtual warehouse.
vatregion	Vat Region in which warehouse is located
orghiertype	Organization type that will be used in reporting purposes for the warehouse. The type comes from the organizational hierarchy. Valid values are:1 = Company 10 = Chain 20 = Area 30 = Region 40 = District 50 = Store
orghiervalue	Code associated with the specific organizational hierarchy type. Valid values include the company number, chain number, area number, etc.
channelid	Channel for which the virtual warehouse will be assigned.
channelname	Name of the channel.
address1	Primary Business address. When the store has a primary business address, this field will contain data.
address2	Second line of the address.
address3	Third line of the address.
city	Name of the city that is associated with the address. When the store has a primary business address, this field will contain data.
state	State abbreviation for the address.
country	The ISO 3166-1 country code associated with the address. When the store has a primary business address, this field will contain data.

postalcode	Zip code for the address.

Sort

Order	Field	Sorting
1	warehouseId	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/location/warehouse?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [],
"hasMore": true,
"limit": 10000,
"offset": 0,
"count": 0,
"links": [ {.. } ]
}
```

merchhier : Get Merchandise Hierarchy

Get **changes** made to the merchandise hierarchy **since** a point in time. The merchandise hierarchy enables the grouping of items by Division, Group, Department, Class and Subclass.

```
GET ords/{system}/omnichannel/{version}/merchhier
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

nodeid	This information identifies the node of the merchanidise hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DIVISION 1 and a GROUP 1 in the full merchandise hierarchy).
hierarchylevel	Name of the merchandise hierarchy entity. Description data is only sent in the primary integration language of the system.
nodename	Level of the merchandise hierarchy above the current node. Both ParentLevel and ParentId are should be evaluated to correctly traverse the hierarchy
parentlevel	Level of the merchandise hierarchy above the current node. Both ParentLevel and ParentId are should be evaluated to correctly traverse the hierarchy
parentnodeid	Id of the level of the merchandise hierarchy above the current node. Both ParentLevel and ParentNodeId are should be evaluated to correctly traverse the hierarchy.

Sort

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down
2	nodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/merchhier?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/item?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"nodeid": 4,
"hierarchylevel": "SUBCLASS",
"nodename": "Mens RMS 15.0 DTI",
"parentlevel": "CLASS",
"parentnodeid": 4
}
],
"hasMore": true,
"limit": 1,
"offset": 60,
"count": 1,
"links": [ {.. } ]
}
```

orghier : Get Organization Hierarchy

Get **changes** made to the organizational hierarchy **since** a point in time. The organizational hierarchy describes the operational structure of a company

```
GET ords/{system}/omnichannel/{version}/orghier
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
hierarchylevel	This information identifies the level of the organizational hierarchy that is described by this record.Value is always COMPANY, CHAIN, AREA, REGION, DISTRICT, STORE or WAREHOUSE. This field can not be null.
hierarchynodeid	This information identifies the node of the organizational hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DISTRICT 1 and a REGION 1 in the full organizational hierarchy).

hierarchynodename	Name of the organizational hierarchy entity. This field can not be null. Description data is only sent in the primary integration language of the system.
parentlevel	This information identifies the parent level of the organizational hierarchy that is described by this record'
parentid	This information identifies the id of parent organizational hierarchy.
mgrnmae	NA

Sort

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down
2	hierarchynodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/orghier?nodeId=1&nodeLevel=COMPANY&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"hierarchylevel": "AREA",
"hierarchynodeid": 1,
"hierarchynodename": "USA*",
"parentlevel": "CHAIN",
"parentid": 1,
"mgrname": null
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

orghier/descendant : Get Organization Hierarchy Node Descendant

Get entire branch of the organizational hierarchy beginning with a specified node. This resource returns the latest state of the organizational hierarchy.

```
GET ords/{system}/omnichannel/{version}/orghier/descendant
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with nodelevel to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	0 .. n	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
hierarchylevel	This information identifies the level of the organizational hierarchy that is described by this record.Value is always COMPANY, CHAIN, AREA, REGION, DISTRICT, STORE or WAREHOUSE. This field can not be null.
hierarchynodeid	This information identifies the node of the organizational hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DISTRICT 1 and a REGION 1 in the full organizational hierarchy).
hierarchynodename	Name of the organizational hierarchy entity. This field can not be null. Description data is only sent in the primary integration language of the system.
parentlevel	This information identifies the parent level of the organizational hierarchy that is described by this record'
parentid	This information identifies the id of parent organizational hierarchy.

Sort:

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down

2	hierarchynodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/orghier/descendant?nodeId=1&nodeLevel=COMPANY

```
{
"items": [
{
"hierarchylevel": "CHAIN",
"hierarchynodeid": 1,
"hierarchynodename": "Chain 1*",
"parentlevel": "COMPANY",
"parentid": 1
},
{
"hierarchylevel": "AREA",
"hierarchynodeid": 1,
"hierarchynodename": "USA*",
"parentlevel": "CHAIN",
"parentid": 1
},
{
"hierarchylevel": "AREA",
"hierarchynodeid": 2,
"hierarchynodename": "Europe",
"parentlevel": "CHAIN",
"parentid": 1
}
],
"hasMore": true,
"limit": 3,
"offset": 0,
"count": 3,
"links": [ {.. } ]
}
```

refreshdate : Get Data Refresh Date

Get the date bulk data arrived into the system. The refreshdate can be compared to the SINCE request parameter, in REST calls to foundation data resources, to determine if response data represents "initial load" or an "incremental change".

```
GET ords/{system}/omnichannel/{version}/refreshdate
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
entitytype	▪ diff ▪ diffgroup ▪ dimensiontype ▪ dimensionvalue ▪ item ▪ itemimage ▪ itemlocation ▪ itemprice ▪ merchhier ▪ orghier ▪ retailstore ▪ warehouse	Request refresh date for a single entity. This parameter is optional; when not used, refreshdates for all entities are returned.	Yes	Query	Integer
limit	Number	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	Number	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
entity	The system entity. Each entity value correlates with one of the foundation data REST resources provided by this API

refreshdate	The timestamp data, for an entity, was initially loaded into system.

Sort

Order	Field	Sorting
1	entity	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/refreshdate

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/refreshdate?entitytype=merchhier

```
{
"items": [
{
"entity": "Item",
"refreshdate": "2018-06-05T19:12:26.106Z"
}
],
"hasMore": false,
"limit": 10000,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

Other REST Endpoints

This section describes other REST Endpoints.

metadata-catalog : Get API Catalog

Get available resources in the specified versions of the API.

```
GET ords/ocds/omnichannel/metadata-catalog
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	Number	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offset	Number	Request paged data beginning at a specific offset. Use is optional. If not used then entire first page of data is returned.	Yes	Query	Integer

Response (items)

Field	Description
name	resource name
links	NA
ref	link relation
href	hypertext reference
mediaType	response media type

Sorting

Order	Field	Sorting
1	ref	Ascending

Usage

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/metadata-catalog

```
"items": [
{
"name": "v1",
"links": [
{
"rel": "describes",
"href": "http://[host]:[port]/ords/ocds/omnichannel/v1/diff"
},
{
"rel": "canonical",
"href": "http://host]:[port]/ords/ocds/omnichannel/metadata-catalog/v1/diff",
"mediaType": "application/json"
},
{
"rel": "alternate",
"href": "http://host]:[port]/ords/ocds/omnichannel/open-api-catalog/v1/",
"mediaType": "application/openapi+json"
}
]
}
],
"hasMore": true,
"limit": 1,
"offset": 0,
"count": 1,
"links": [ {.. } ]
}
```

B

Appendix B: V2 REST Endpoints

The v2 series of REST Endpoint has been expanded in v19.1 to include all the v1 endpoints plus additional new endpoints. The v2 series of endpoints provides better throughput and more consistent performance for paged data sets. The data content returned by a v2 endpoint is compatible with the v1 endpoint. The v2 version might have additional fields added but retains the v1 data fields. All new clients to OCDS should use the v2 endpoints for data retrieval. It is highly recommended that current OCDS clients using v1 endpoints update to use the v2 endpoints.

v 2 Response Structure

Following is an example of the json structure in the response from an OCDS REST endpoint:

```
{
    "items": [
        {
            "logged": "2020-05-01T12:54:36.618000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_PriceClearance.xferPriceClearance - start",
            "supplemental": "INFO"
        },
        {
            "logged": "2020-05-01T12:59:51.225000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_PriceClearance.deleteBdiIfcRecord - begin",
            "supplemental": "INFO"
        },
        {
            "logged": "2020-05-01T13:00:44.028000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_DiffGrp.xferDiffGrp - start",
            "supplemental": "INFO"
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [
        {
            "rel": "self",
            "href":
"http://{server}:{port}/ords/ocds/omnichannel/v2/admin/log?limit=3&since=1970-01-0
1T00:00:00.001000000+00:00&before=2020-05-06T13:26:44.515000000-05:00"
        },
        {
            "rel": "describedBy",
            "href":
"http://{server}:{port}/ords/ocds/omnichannel/metadata-catalog/v2/admin/log"
        },
        {
            "rel": "next",
            "href":
"http://{server}:{port}/ords/ocds/omnichannel/v2/admin/log?limit=3&offsetkey=2020-
05-01T13:00:44.028000000-05:00"
        }
    ]
}
```

Summary of the elements in the json response:

Element	Value	Description
items	NA	Array of json objects returned by the request. If no matching objects are found the array will have no elements
hasMore	NA	Boolean flag to indicate if more data is available
limit	NA	Maximum number of records to return in the request
count	NA	Count of records returned in the response. This will be less than or equal to the limit value
links.rel	self	This pair of elements shows the calling url
links.href	NA	The current request url
links.rel	describedBy	This pair of elements provides the link to the metadata catalog
links.href	NA	Link to the metadata-catalog listings for the endpoint
links.rel	next	If the hasMore flag is true, this pair of elements will be populated.
links.href	NA	Only present if the hasMore flag is trueLink to the next page of data. **Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page.**

Note: In sample data sections of the REST Endpoint descriptions, the links element has been compressed to "links": [{.. }].

v2/admin/log : Get Log Entries

Get the log entries for a specified severity and/or time range.

```
GET /ords/ocds/omnichannel/v2/admin/log
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
severity	ERROR INFO DEBUG	Severity of the requested log entry. All log entries are returned when no severity parameter is specified	Yes	Query	String
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
logged	Timestamp when the entry was recorded.
severity	Severity of the log entry. Will be ERROR, INFO, or DEBUG.
message	Log message from OCDS.
supplemental	Supplemental information for the log entry.

Sort

Order	Field	Sorting
1	logged	Ascending

Example Data

Content-Type: application/json:

Usage:

```
https://{host}:{port}/ords/ocds/omnichannel/v2/admin/log?severity=INFO&since=2018-
01-23T16:26:41.485Z:30&before=2018-06-23T16:26:41.485Z
{
    "items": [
        {
            "logged": "2020-05-01T12:54:36.618000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_PriceClearance.xferPriceClearance - start",
            "supplemental": "beginSeq: 0, endSeq: 2426058"
        },
        {
            "logged": "2020-05-01T12:59:51.225000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_PriceClearance.deleteBdiIfcRecord - begin",
            "supplemental": "beginSeq: 0, endSeq: 2426058"
        },
        {
            "logged": "2020-05-01T13:00:44.028000000-05:00",
            "severity": "INFO",
            "message": "OcdsImport_DiffGrp.xferDiffGrp - start",
            "supplemental": "beginSeq: 0, endSeq: 103"
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/admin/version : Get OCDS Version

Get the OCDS version and installed patch releases. Diffs are special purpose attributes used to define concepts that differentiate items that are closely related, but not the same. Diffs are used to define colors, sizes, patterns, scents and flavors.

`GET ords/ocds/omnichannel/v2/admin/version`
No parameters are supported for this endpoint.

Response (items)

Field	Description
version	Base build number of the OCDS deployment
hotfix	Applied hot fix number
installed	Installation date.

Sort

Order	Field	Sorting
1	installed	Ascending

Example Data

Content-Type: application/json

Usage:

```
https://{host}:{port}/ords/ocds/omnichannel/v2/admin/log?severity=ERROR&since=2018
-01-23T16:26:41.485Z:30&before=2018-06-23T16:26:41.485Z
{
    "items": [
        {
            "version": "19.1.000",
            "hotfix": "000",
            "installed": "2020-05-01T12:50:19.045000000-05:00"
        }
    ],
    "hasMore": false,
    "limit": 10000,
    "count": 1,
    "links": [ {.. } ]
    ]
```

```
}
```

v2/diffs : Get Item Differentiators

Get the **changes** made to Diffs **since** a point in time. Diffs are special purpose attributes used to define concepts that differentiate items that are closely related, but not the same. Diffs are used to define colors, sizes, patterns, scents and flavors.

```
GET ords/{system}/omnichannel/{version}/diff
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
diffid	The unique ID of the diff. Data will always be present in this field.
diffdesc	The type code for the diff. All diffs belong to one any only one type.
difftype	A value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
difftypedesc	The description of the diff. Data will always exist in this field.

Sort

Order	Field	Sorting
1	diffid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/diff?since=2018-01-23T16:26:41.485Z:30&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"diffid": "AUTOBLACK",
"diffdesc": "Auto Black",
"difftype": "AUTO_C",
"difftypedesc": "Auto Color"
},
],
"hasMore": true,
"limit": 1,
"count": 1,
"links": [ {.. } ]
}
```

v2/diff/group : Get Differentiators Groups

Get the **changes** made to Diff Groups **since** a point in time.

GET ords/ocds/omnichannel/v2/diff/group

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

diffgroupid	A unique number id for the differentiator group. Data will always be present in this field.
diffgroupdesc	Description of the differentiator group (for example: Mens Shirt Sizes, Womens Shoe Sizes, Girls Dress Sizes, Shower Gel Scents, Yogurt Flavors, etc.). Description data is only sent in the primary integration language of the system.
difftypeid	A value of the types of differentiators contained in this differentiator group, including but not limited to: S (size), C (color), F (flavor), E (scent), P (pattern).
diffid	Contains the description of the differentiator type. For Example: Size, Color, Flavor, Scent, Pattern. Description data is only sent in the primary integration language of the system.

Sort

Order	**Field**	**Sorting**
1	diffgroupid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/diff/group?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"diffgroupid": "AUTO CLRS",
"diffgroupdesc": "Auto Basic Color Pallet",
"difftypeid": "AUTO_C",
"diffid": "1"
}
],
"hasMore": true,
"limit": 1,
"count": 1,
"links": [ {.. } ]

}
```

v2/inventory/future : Get Future Inventory

Get the **changes** made to future inventory **since** a point in time.

```
GET ords/ocds/omnichannel/v2/inventory/future
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0..n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

item	A unique identifier for the item. Data will always be present.
onorderquqntity	Quantity on order for this item.
receivedquantity	Quantity of the item received.
backorderquantity	Backorder quantity for the item.

Sort

Order	Field	Sorting
1	item	Ascending

Sample Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/inventory/future?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "item": "1",
            "onorderquantity": 0,
            "receivedquantity": 94,
            "backorderquantity": 0
        },
        {
            "action": "INSERT",
            "item": "10",
            "onorderquantity": 11,
            "receivedquantity": 20,
            "backorderquantity": 15
        },
        {
            "action": "INSERT",
            "item": "100",
            "onorderquantity": 33,
            "receivedquantity": 86,
            "backorderquantity": 21
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]   ]
}
```

v2/inventory/store : Get Store Inventory

Get the **changes** made to store inventory **since** a point in time.

```
GET ords/ocds/omnichannel/v2/inventory/store
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodeid	0..n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
item	A unique identifier for the item. Data will always be present.
location	Location identifier for the inventory
loctype	Will be S for store
availablequantity	Available quantity

stockonhand	Quantity on hand
standarduom	Standard unit of measure for the item
physicalwarehouse	Boolean to indicate if the location is a physical warehouse

Sort

Order	Field	Sorting
1	loctype	Ascending
2	item	Ascending

Sample Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/inventory/warehouse?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "item": "100000",
            "location": "1",
            "loctype": "S",
            "availablequantity": 42,
            "stockonhand": 30,
            "standarduom": "EA"
        },
        {
            "action": "INSERT",
            "item": "1000001",
            "location": "1",
            "loctype": "S",
            "availablequantity": 35,
            "stockonhand": 63,
            "standarduom": "EA"
        },
        {
            "action": "INSERT",
            "item": "1000012",
            "location": "1",
            "loctype": "S",
            "availablequantity": 40,
            "stockonhand": 7,
            "standarduom": "EA"
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/inventory/warehouse : Get Warehouse Inventory

Get the **changes** made to store inventory **since** a point in time.

```
GET ords/ocds/omnichannel/v2/inventory/warehouse
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodeid	0..n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
item	A unique identifier for the item. Data will always be present.
location	Location identifier for the inventory
loctype	Will be W for store inventory
availablequantity	Available quantity

stockonhand	Quantity on hand
standarduom	Standard unit of measure for the item
physicalwarehouse	Boolean to indicate if the location is a physical warehouse

Sort

Order	Field	Sorting
1	location	Ascending
2	loctype	Ascending
3	item	Ascending

Sample Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/inventory/warehouse?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "item": "1",
            "location": "1",
            "loctype": "W",
            "availablequantity": 12,
            "stockonhand": 99,
            "standarduom": "EA",
            "physicalwarehouse": null
        },
        {
            "action": "INSERT",
            "item": "10",
            "location": "1",
            "loctype": "W",
            "availablequantity": 26,
            "stockonhand": 40,
            "standarduom": "EA",
            "physicalwarehouse": null
        },
        {
            "action": "INSERT",
            "item": "100",
            "location": "1",
            "loctype": "W",
            "availablequantity": 32,
            "stockonhand": 51,
            "standarduom": "EA",
            "physicalwarehouse": null
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/item : Get Item

Get **changes** made to items **since** a point in time.

```
GET ords/ocds/omnichannel/v2/item
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
itemlocation	The Organization Hierarchy Node id when requested by node, otherwise "ent" (Enterprise) is returned.
item	ID of item. Data will always be present in this field.

itemparent	ID identifies the item/group at the level above the item. This value must exist as an item in another row on the item_master table.
itemgrandparent	ID identifies the item/group two levels above the item. This value must exist as both an item and an item parent in another row on the item_master table.
itemlevel	Number indicating which of the three levels the item resides. The item level determines if the item stands alone or if it is part of a family of related items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a item level = 1 UPCs for Staple items generally have an item level = 2 (and the staple item will be the UPCs parent item). Fashion styles generally have an item level = 1. Fashion skus generally have an item level = 2. If UPCs for fashion skus generally have an item level = 3. Valid values are 1, 2 and 3. This field will always have data.

tranlevel	Number indicating which of the three levels transactions occur for the items group. The transaction level is the level at which the items inventory is tracked in the system. The transaction level item will be inventoried, counted, transferred, shipped, etc. Only one level of the hierarchy of an item family may contain transaction level items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a TranLevel = 1. UPCs for Staple items generally have an TranLevel = 1 (inventory txns occur at the staple sku level; sales of the item roll up to the parent staple sku). Fashion styles generally have a TranLevel = 2 (the style itself is not sold/inventoried). Fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). If UPCs for fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). There are some rare cases in vendor managed inventory where the TranLevel = 3. Valid values are 1, 2 and 3. This field will always have data.

inventoryind	This indicator is used to determine if inventory is held for the item/item family. Inventory is held for most items. However, inventory is not held (value = N) in some special cases, such as: Concession items (items that are sold by independent in location concessions), Consignment items (items are not owned by the retailer; financial and inventory processing occurs after the item is sold to a consumer), Containers sold then returned for deposit and some items that are transformed for sale. Valid values are Y and N. This field will always have data.
diff1level	This field will contain either ID or GROUP, based on whether the diff_1 is a group diff or a diff id.
diff1type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
diff1	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff2level	This field will contain either ID or GROUP, based on whether the diff_2 is a group diff or a diff id.

diff2type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
diff2	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff3level	This field will contain either ID or GROUP, based on whether the diff_3 is a group diff or a diff id.
diff3type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
diff3	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
division	Number identifying the Division in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same division. This data is required

groupid	Number identifying the Group in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same group. This data is required
dept	Number identifying the department in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department. This data is required
class	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.
uniqueclass	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.

subclass	Number identifying the subclass in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department, class and subclass. Subclass is not a unique ID (for example, every department/class can have a subclass 1). This data is required.
uniquesubclass	Number uniquely identifying the subclass node which the item belongs to. Subclass is not unique ID the merchandise hierarchy. The combination of Dept/Class/Subclass is unique, but requires use of a composite key. The composite key is generally used in user interfaces. The unique ID can be used in back end processing or in systems that can not have a composite key for a node in the merchandise hierarchy.
description	Primary description of the item in the integration language of the system. This value is required.

localdescription	The local description of the item, when requesting by Organization Hierarchy Node and Hierarchy level is "STORE". This may be the same as the primary description of the item, a regional description of the item (for example, jimmies vs sprinkles in the US or roll vs bap vs cob vs bun in the UK), or a value in a local language (for example, Overlay dress true black knit at US stores vs Lagenkleid - Strick, tiefschwarz at stores in Germany). The intent is that this string is appropriate to print description on signage/receipts at this location. This will be null for all non-STORE Hierarchy levels.
merchandiseind	Indicates if the item is a merchandise item (Y, N). Merchandise items are generally physical items (things that must be shipped/received and of which there is an inventory). Non merchandise items are often items which do not have inventory. Common examples include extra fees for service (extended warranties, alterations) or endlessly available items (downloads, in app purchases of bonus content, subscriptions). All items, both merchandise and non-merchandise are exported from RMS. This value is required.

uintype	The unique identification number (UIN) used to identify the instances of the item at the location.
mfgrecretail	Manufacturers recommended retail price for the item. Used for informational purposes only. This field is stored in the primary currency.
originalunitretail	The original retail price of the item per unit. This field is stored in the primary currency.
catchweightind	Indicates whether the item should be weighed when it arrives at a location. Valid values for this field are Y and N. This field will always have data';
itemservicelevel	Holds a value that restricts the type of shipment methods that RCOM can select for an item.
giftwrapind	This field will contain a value of Y if the item is eligible to be gift wrapped. If not explicitly defined, this field will default to N. This field will always have data records.
shipaloneind	This field will contain a value of Y if the item must be shipped alone to consumers. If not explicitly defined, this field will default to N. This field will always have data records.

standarduom	Unit of measure in which stock and or financials of the item is tracked at a corporate level. Unit of measure reference values may have to be manually synced between the systems as this is foundation data that is not currently bulk integrated out of Merch. This value is required.
productclassification	Description of the product classification.
xdiff1desc	When diff1level is ID, the description of the diff. When diff1level is GROUP, the description of the differentiator group.
xdiff2desc	When diff2level is ID, the description of the diff. When diff2level is GROUP, the description of the differentiator group.
xdiff3desc	When diff3level is ID, the description of the diff. When diff3level is GROUP, the description of the differentiator group.

Sort

Order	Field	Sorting
1	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v1/location/retailstore?nodeId=1&nodeLevel=CHAIN&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"itemlocation": "ent",
"item": "100805000",
"itemparent": null,
"itemgrandparent": null,
"itemlevel": 1,
"tranlevel": 2,
"inventoryind": "Y",
"diff1level": "GROUP",
"diff1type": "AUTO_S",
"diff1": "AUTO XS-XL",
"diff2level": "GROUP",
"diff2type": "C",
"diff2": "BASIC CLRS",
"diff3level": null,
"diff3type": null,
"diff3": null,
"division": 2000,
"groupid": 8000,
"dept": 8787,
"class": 16,
"uniqueclass": 294,
"subclass": 16,
"uniquesubclass": 203,
"description": "DK Cala Lily",
"localdescription": null,
"merchandiseind": "Y",
"uintype": null,
"mfgrecretail": null,
"originalunitretail": 9.99,
"catchweightind": "N",
"itemservicelevel":null,
"giftwrapind":"N",
"shipaloneind":"N",
"standarduom": 1,
"xdiff1desc": "Auto XS-XL",
"xdiff2desc": "Basic Color Pallet",
"xdiff3desc": null}
],
"hasMore": true,

"limit": 1,
"count": 1,
"links": [ {.. } ]

}
```

v2/item/dimensiontype : Get Dimension Type

Get **changes** made to item dimension types **since** a point in time. Dimension Types are the types of dimensions associated with a dimension system. This information is derived from the current item diff usage.

```
GET ords/ocdsomnichannel/v2/item/dimensiontype
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
itemaction	Changes in the item fields related to the dimension type
dimensionsystem	A system-defined code (Style ID) for the generalized dimension structure an item belongs to.
dimension	The specific code (Diff Type) values belonging to a dimension system. For example, COLOR, SIZE, etc.
description	The text description for a dimension code (Diff Type) used for display.
seq	Supportes ordering the dimension type within the dimension system

Sort

Order	Field	Sorting
1	dimensionsystem	Ascending
2	dimension	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/dimensiontype?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/ocds/omnichannel/v2/item/dimensiontype?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "2000001",
            "dimension": "COLOR",
            "description": "Color",
            "seq": 1
        },
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "2000001",
            "dimension": "SIZE",
            "description": "Size",
            "seq": 2
        },
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "2000001",
            "dimension": "PATTRN",
            "description": "Pattern",
            "seq": 3
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/item/dimensionvalue : Get Dimension Value

Get **changes** made to item dimension values **since** a point in time. Dimension Values are the values associated with each dimension within a dimension system. This information is derived from the current item diff usage.

```
GET ords/ocds/omnichannel/v2/item/dimensionvalue
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

itemaction	Changes in the item fields related to the dimension type
dimensionsystem	A system-defined code (Style ID) for the generalized dimension structure an item belongs to.
dimension	The specific code (DiffType) values belonging to a dimension system. For example, COLOR, SIZE, etc.
value	The specific value (Diff) that exists for a given dimension type for a given dimension system. This is a coded value, for example, S, M, L, and so on.
description	The text description of the value code (Diff).
displayseg	Display order for the dimension values

Sort

Order	Field	Sorting
1	dimensionsystem	Ascending
2	dimension	Ascending
3	value	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/dimensionvalue?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "10",
            "dimension": "COLOR",
            "value": "C00009C",
            "description": "Duke blue",
            "displayseq": null
        },
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "10",
            "dimension": "PATTRN",
            "value": "PINSTRPS",
            "description": "Pinstripes",
            "displayseq": null
        },
        {
            "action": "INSERT",
            "itemaction": "INSERT",
            "dimensionsystem": "10",
            "dimension": "SIZE",
            "value": "SIZE_28",
            "description": "28",
            "displayseq": null
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/item/image : Get Item Images

Get **changes** made to item images **since** a point in time.

```
GET ords/ocds/omnichannel/v2/item/image
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
item	Contains the unique alphanumeric identifier for the item, the image is for.
imagename	Contains the name of the image of the item
imageaddr	Contains the actual path where the file of the image of the item is stored.
imageuri	URI to the image.
imagedesc	Contains the type of the image of the item. Valid values are defined as member of IITD code type.
imagetype	Contains the type of the image of the item. Valid values are defined as member of IITD code type.
primaryind	Indicates whether this record is the primary image of the item or not. Valid values are Y(es) and N(o) only. Default to N value if left blank or set as NULL.

displaypriority	This field will specify the display sequence order of images associated to the item per priority.

Sort

Order	Field	Sorting
1	item	Ascending
2	imagename	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/image?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/ocds/omnichannel/v2/item/image?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "item": "1",
            "imagename": "1_0.png",
            "imageaddr": "http://www.oracle.com/item/images/",
            "imageuri": "http://www.oracle.com/item/images/1_0.png",
            "imagedesc": "Image for item 1",
            "imagetype": "T",
            "primaryind": "Y",
            "displaypriority": 0
        },
        {
            "action": "INSERT",
            "item": "1",
            "imagename": "1_1.png",
            "imageaddr": "http://www.oracle.com/item/images/",
            "imageuri": "http://www.oracle.com/item/images/1_1.png",
            "imagedesc": "Image for item 1",
            "imagetype": "T",
            "primaryind": "N",
            "displaypriority": 1
        },
        {
            "action": "INSERT",
            "item": "10",
            "imagename": "10_0.png",
            "imageaddr": "http://www.oracle.com/item/images/",
            "imageuri": "http://www.oracle.com/item/images/10_0.png",
            "imagedesc": "Image for item 10",
            "imagetype": "T",
            "primaryind": "Y",
            "displaypriority": 0
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]

}
```

v2/item/itemlocation : Get Item Location

Get **changes** made to item locations **since** a point in time.

```
GET ords/{system}/omnichannel/{version}/item/itemlocation
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.

loctype	Describes the type of location. Valid values include S (store) and W (warehouse).
location	Numeric ID of location. The intersection of location and item is a distinct entity. Data will always be present in this field.
item	ID of item. The intersection of location and item is a distinct entity. Data will always be present in this field.
sellingunitretail	The unit retail price in the selling unit of measure for the item/location combination. This field is stored in the local currency.
sellinguom	Contains the selling unit of measure for an items single-unit retail.
taxableind	Indicates if item is taxable at the store
localitemdesc	Contains the local description of the item. This may be the same as the primary description of the item, a regional description of the item (for example, jimmies vs sprinkles in the US or roll vs bap vs cob vs bun in the UK), or a value in a local language (for example, Overlay dress true black knit at US stores vs Lagenkleid - Strick, tiefschwarz at stores in Germany). The intent is that this string is appropriate to print description on signage/receipts at this location.
status	Current status of item at the store.

qtykeyoptions	Determines whether the qty key on a POS should be used for this item at the location.
manualpriceentry	Determines whether the price can/should be entered manually on a POS for this item at the location.
foodstampind	Indicates whether the item is approved for food stamps at the location. This value will be downloaded to the POS.
fixedtarevalue	Holds the value associated of the packaging in items sold by weight at the location.
fixedtareuom	Holds the unit of measure value associated with the tare value. The only processing RMS does involving the fixed tare value and UOM is downloading it to the POS.
stopsaleind	Indicates that sale of the item should be stopped immediately at the location (i.e. in case of recall etc).
returnableind	This field will contain a value of Yes when the item can be returned to the location
merchandiseind	Indicates if the item is a merchandise item (Y, N).
clearanceind	Flag to indicate if item is on clearance
crosssell	Indicates whether the item is a related item with either a "UPSL" or CRSL relationship type value.
attacheditem	Indicates whether the item is a related item with either a "SUBS" relationship type value.
vatcodes	List of the applicable vat codes and active dates

Sort

Order	Field	Sorting
1	loctype	Ascending
2	location	Ascending
3	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/itemlocation?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/ocds/omnichannel/v2/item/itemlocation?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
items: [
{
action: "INSERT",
loc_type: "S",
location: 1151,
item: "100000008",
sellingunitretail: 12,
sellinguom: "EA",
taxableind: "N",
localitemdesc: "Test Item 100000008",
status: "A",
qtykeyoptions: null,
manualpriceentry: null,
foodstampind: null,
fixedtarevalue: null,
fixedtareuom: null,
stopsaleind: null,
returnableind: null,
merchandiseind: "Y",
crosssell: "N",
attacheditem: "N",
vatcodes:
"[{"code":"AAA","date":"2018-01-01"},{"code":"AAB","date":"2018-03-01"},{"code":"A
AC","date":"2018-06-01"},{"code":"AAD","date":"2018-09-01"}]"
}
],
hasMore: true,
limit: 1,
count: 1,
links: [ {.. } ]
}
```

v2/item/price : Get Item Price by Type

Get **changes** made to item prices **since** a point in time.

```
GET ords/ocds/omnichannel/v2/item/price
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
pricetype	INITIAL REGULAR CLEARANCE	Request data for a single Price Type	No	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
loctype	Location type
location	Location identifier for item price
item	Item identifier
pricetype	INITIAL, REGULAR, CLEARANCE
price	item price
effective	Date time when change becomes effective

source	If direct, the price was initiated directly. Implied means the price change was implied by another price change
eventid	Pricing Service event id for the price activity
resetind	Flag to indicate to reset the item to previous price
clearanceind	Flag to indicate the item is on clearance

Sort

Order	Field	Sorting
1	loctype	Ascending
2	location	Ascending
3	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/price?since=2018-01-23T16:26:41.485+05:30&before=2018-06-23T16:26:41.485+05:30&pricetype=REGULAR

https://{host}:{port}/ords/ocds/omnichannel/v2/item/price?since=2018-01-23T16:26:41.485+05:30&before=2018-06-23T16:26:41.485+05:30&pricetype=INITIAL

```
items: [
{
action: "INSERT",
location: 1151,
loctype: "S",
item: "100000008",
pricetype: "CLEARANCE",
price: 4.63,
effective: "2018-08-05T00:00:00",
eventid: 2000,
resetind: 1
},
],
hasMore: false,
limit: 10000,
count: 5,
links: [ {.. } ]
}
```

v2/item/promotion : Get Promotions

Get **changes** made to item dimension types **since** a point in time. Dimension Types are the types of dimensions associated with a dimension system. This information is derived from the current item diff usage.

```
GET ords/ocds/omnichannel/v2/item/promotion
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String
nodeid	0..n	Specific node for promotions	Yes	Query	Integer
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE	Level of the target node	Yes	Query	String

Response (items)

Field	Description
promoid	Promotion identifier.
offerid	Offer Identifier.
desc	Description of the offer.
custdesc	Customer facing description
levelcode	The level of the offer. Valid values are: 0 - Item, 1 - Transaction.
typecode	The type of the offer. Valid values are: 0 Item Simple, 1 Transaction Simple, 2 - Transaction Buy Get, 3 - Item Buy Get, 4 - Item Gift With Purchase
templateid	The template of the offer. Valid values are: 0 - Get Discount, 1 - Buy X, Get Discount, 2 - Spend X, Get Discount, 3 - Get Y for Discount, 4 - Buy
couponcode	Coupon code required by the offer

couponcodereq	Flag to indicate that a coupon is required
startdatetime	Starting date time for the offer
enddatetime	Ending date time for the offer
canceldatetime	Cancellation date time for the offer
rewards	Rewards associated with the offer
rewards.rewardid	Reward ID
rewards.changetype	Type of change for the reward. Valid values: change by amount (1), change by percent (0), fixed price (2)
rewards.changeamount	The change by amount or fixed price amount.
rewards.changepercent	Percentage value when change type is change by percent.
rewards.qtytodisc	The qty to discount.
rewards.qtytodiscuom	UOM of the discount quantity.
rewards.appyind	The apply to indicator of the reward. Valid values: Regular only - 0; Clearance only - 1; Regular and Clearance - 2
rewards.pricerestrictcode	Price restriction code. Valid Values are B - Between; G - Greater Than; L - Less Than
rewards.pricestrictvalue1	The first value of the price restriction.
rewards.pricerestrictvalue2	The second value of the price restriction. The second value is only used for between restrictrions
rewards.rwardsmerch	Collection of merchandise eligible for reward
rewards.rewardsmerch.rewardmerchid	The unique id for the offer reward merch record.

rewards.rewardsmerch.mrchlevel	The merchandise level of the row. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff Item; 6 - Transaction Item; 8 - All Departments
rewards.rewardsmerch.dept	Department ID
rewards.rewardsmerch.class	The non-unique class ID value
rewards.rewardsmerch.uniqueclass	The unique class ID value
rewards.rewardsmerch.subclass	The non-unique subclass ID value
rewards.rewardsmerch.unisubclass	The unique subclass ID value
rewards.rewardsmerch.item	Item ID
rewards.rewardsmerch.diffid	Differentiator ID
rewards.rewardsmerch.excludeind	The exclude indicator of the row
rewards.rewardsmerch.canceldatetime	Date time when merchandise reward was cancelled
conditions	Collection of conditions for promotion
conditions.conditionid	Condition ID
conditions.buyspendtype	The buy spend type of the condition. Valid values are: 0 - Quantity, 1 - Amount
conditions.buyspendvalue	The buy spend value of the condition
conditions.buyuom	The buy UOM of the condition
conditions.pricerestrictcode	Price restriction code. Valid Values are B - Between; G - Greater Than; L - Less Than
conditions.pricerestrictvalue1	The first value of the price restriction
conditions.pricerestrictvalue2	The second value of the price restriction. The second value is only used for between restrictrions

conditions.conditionsmerch	Collection of merchandise for condition
conditions.conditionsmerch.condmerchid	The unique id for the offer condition merch record
conditions.conditionsmerch.merchlevel	The merchandise level. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff
conditions.conditionsmerch.dept	Department ID
conditions.conditionsmerch.class	The non-unique class ID value
conditions.conditionsmerch.uniqueclass	The unique class ID value
conditions.conditionsmerch.subclass	The non-unique subclass ID value
conditions.conditionsmerch.uniquesubclass	The unique subclass ID value
conditions.conditionsmerch.item	Item ID
conditions.conditionsmerch.diffid	Differentiator ID
conditions.conditionsmerch.excludeind	The exclude indicator
conditions.conditionsmerch.canceldatetime	Date time condition merchandise was cancelled
locations	Collection of locations for the promotion
locations.action	Action for the promotion in this location - INSERT, UPDATE, DELETE, UPDATE
locations.location	Location for promotion
locations.canceldatetime	Date time promotion was cancelled for this location

Sort

Order	Field	Sorting
1	promoid	Ascending
2	offerid	Ascending

Example Data

Content-Type: application/json:

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/promotion?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

https://{host}:{port}/ords/ocds/omnichannel/v2/item/promotion?nodeId=5111&nodeLevel=STORE&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
items: [
{
promoid: 3403,
offerid: 843,
desc: "Offer 843 Updated",
custdesc: "Offer 843",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 731,
changetype: 0,
changepercent: 25,
applyind: 2,
rewardsmerch: [
{
rewardmerchid: 8401,
merchlevel: 8,
excludeind: 0
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 1898439643
}
]
},
{
promoid: 3403,
offerid: 844,
desc: "Offer 844",
custdesc: "Offer 844",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-23T23:59:59",
rewards: [
{
rewardid: 732,
changetype: 0,
changepercent: 50,
applyind: 1,
rewardsmerch: [
{
rewardmerchid: 8402,
merchlevel: 1,
dept: 9434,
excludeind: 1
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 845,
desc: "Offer 845",
custdesc: "Offer 845",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 733,
changetype: 1,
changeamount: 25,
applyind: 2,
rewardsmerch: [
{
rewardmerchid: 8403,
merchlevel: 1,
dept: 8993,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 241,
buyspendtype: 0,
buyspendvalue: 5,
buyuom: "EA",
conditionsmerch: [
{
condmerchid: 8221,
merchlevel: 1,
dept: 6755,
excludeind: 0
}
]
}
```

```
],
locations: [
{
action: "INSERT",
location: 8982138499
}
]
},
{
promoid: 3403,
offerid: 846,
desc: "Offer 846",
custdesc: "Offer 846",
levelcode: 1,
typecode: 2,
templateid: 2,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 734,
changetype: 0,
changepercent: 25,
applyind: 2,
rewardsmerch: null
}
],
conditions: [
{
conditionid: 242,
buyspendtype: 1,
buyspendvalue: 50,
conditionsmerch: [
{
condmerchid: 8222,
merchlevel: 3,
dept: 8993,
class: 9713,
uniqueclass: 9713,
subclass: 5179,
uniquesubclass: 5179,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 7761967237
}
]
},
{
promoid: 3403,
offerid: 865,
desc: "Offer 865 Test",
custdesc: "Offer 865 Teset",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 751,
changetype: 0,
changepercent: 20,
applyind: 1,
rewardsmerch: [
{
rewardmerchid: 8421,
merchlevel: 1,
dept: 3124,
excludeind: 1
},
{
rewardmerchid: 8422,
merchlevel: 1,
dept: 5536,
excludeind: 1
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 8392141693
}
]
},
{
promoid: 3403,
offerid: 866,
desc: "Offer 866 Test",
custdesc: "Offer 866 Test",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 752,
changetype: 0,
changepercent: 30,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8423,
merchlevel: 1,
dept: 8993,
excludeind: 1
},
{
rewardmerchid: 8424,
merchlevel: 1,
dept: 6755,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 251,
buyspendtype: 0,
buyspendvalue: 3,
buyuom: "BG",
conditionsmerch: [
{
condmerchid: 8231,
merchlevel: 2,
dept: 3124,
class: 5669,
uniqueclass: 5669,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 8392141693,
canceldatetime: "2018-06-25T13:57:43.000000000Z"
}
]
},
{
promoid: 3403,
offerid: 870,
desc: "870 Offer Test",
custdesc: "870 Offer Test",
levelcode: 1,
typecode: 2,
templateid: 1,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 753,
changetype: 0,
changepercent: 30,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8425,
merchlevel: 1,
dept: 6755,
excludeind: 1
},
{
rewardmerchid: 8426,
merchlevel: 1,
dept: 9934,
excludeind: 1
}
]
}
],
conditions: [
{
conditionid: 252,
buyspendtype: 0,
buyspendvalue: 3,
buyuom: "BG",
conditionsmerch: [
{
condmerchid: 8232,
merchlevel: 3,
dept: 3124,
class: 5669,
uniqueclass: 5669,
subclass: 3954,
uniquesubclass: 3954,
excludeind: 0
}
]
}
],
locations: [
{
action: "INSERT",
location: 7761967237
},
{
action: "INSERT",
location: 8392141693
}
]
},
{
promoid: 3403,
offerid: 872,
desc: "Offer 872 Test",
custdesc: "Offer 872 Test",
levelcode: 1,
typecode: 2,
templateid: 2,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 754,
changetype: 1,
changeamount: 10,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8430,
merchlevel: 1,
dept: 9978,
excludeind: 1
```

```
}
]
}
],
conditions: [
{
conditionid: 253,
buyspendtype: 1,
buyspendvalue: 50,
conditionsmerch: [
{
condmerchid: 8236,
merchlevel: 1,
dept: 3124,
excludeind: 0
},
{
condmerchid: 8237,
merchlevel: 1,
dept: 5536,
excludeind: 0
},
{
condmerchid: 8238,
merchlevel: 1,
dept: 9469,
excludeind: 0
},
{
condmerchid: 8239,
merchlevel: 1,
dept: 5536,
excludeind: 0,
canceldatetime: "2018-06-25T14:08:35.000000Z"
}
]
}
],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 8392141693
},
{
action: "INSERT",
location: 8992251863
}
]
},
{
promoid: 3403,
offerid: 875,
desc: "Offer 875 Test",
custdesc: "Offer 875 Test",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 756,
changetype: 0,
changepercent: 25,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8435,
merchlevel: 5,
item: 114800196,
diffid: "BROWN_5534",
excludeind: 0
},
{
rewardmerchid: 8436,
merchlevel: 5,
item: 114800233,
diffid: "BROWN_5534",
excludeind: 0

},
{
rewardmerchid: 8437,
merchlevel: 5,
item: 114850290,
diffid: "BROWN_7343",
excludeind: 0
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 7761967237
},
{
action: "INSERT",
location: 8992251863
},
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 877,
desc: "Offer 877 Test",
custdesc: "Offer 877 Test",
levelcode: 0,
typecode: 0,
templateid: 3,
startdatetime: "2018-02-07T00:00:00",
enddatetime: "2018-03-30T23:59:59",
rewards: [
{
rewardid: 757,
changetype: 0,
changepercent: 25,
applyind: 0,
rewardsmerch: [
{
rewardmerchid: 8438,
merchlevel: 6,
item: 114850388,
excludeind: 0
},
{
rewardmerchid: 8439,
merchlevel: 4,
item: 114850417,
excludeind: 0
},
{
rewardmerchid: 8440,
merchlevel: 4,
item: 114850425,
excludeind: 0
},
{
rewardmerchid: 8441,
merchlevel: 6,
item: 114850572,
excludeind: 0
},
{
rewardmerchid: 8442,
merchlevel: 4,
item: 114850417,
excludeind: 0
},
{
rewardmerchid: 8443,
merchlevel: 6,
item: 114850572,
excludeind: 0
},
{
rewardmerchid: 8444,
merchlevel: 6,
item: 114850441,
excludeind: 0,
canceldatetime: "2018-06-25T14:43:41.000000Z"
}
]
}
],
conditions: [ ],
locations: [
{
action: "INSERT",
location: 5579346692
},
{
action: "INSERT",
location: 7761967237
},
{
action: "INSERT",
location: 9953588522
}
]
},
{
promoid: 3403,
offerid: 880,
desc: "Offer 880 Test",
custdesc: "Offer 880 Test",
levelcode: 1,
typecode: 1,
templateid: 0,
startdatetime: "2018-02-08T00:00:00",
enddatetime: "2018-07-10T23:59:59",
rewards: [
{
rewardid: 759,
changetype: 1,
changeamount: 20,
applyind: 2,
rewardsmerch: null
}
],
conditions: [ ],
locations: [
{
action: "DELETE",
location: 5579346692
},
{
action: "DELETE",
location: 7761967237
},
{
action: "DELETE",
location: 9953588522
}
]
}
],
hasMore: true,
limit: 10000,
count: 12,
links: [ {.. } ]
}
```

v2/item/relateditem : Get Related Items

Get **changes** made to related items **since** a point in time.

```
GET ords/ocds/omnichannel/v2/item/relateditem
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the Organization Hierarchy node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how related item relationship has changed since a point in time. Possible values are: NO_ CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA. *Important*: This response has two levels of actions. This field only communicates the action of the relationship.
relationshipid	Unique identifier for each relationship. Data will always exist in this field.
item	Item for which the relationships are defined. This is the parent item in a related item relationship. Data will always exist in this field.

relationshiptype	Describes the type of relationship.Valid values include: CRSL (Cross Sell), SUBS (Substitution), UPSL (Up-sell).
mandatoryind	Indicates whether the relationship should be mandatory. For example, an item like a laptop may have a mandatory cross sell relationship. The related items could be different power cords for the US, UK, Mainland Europe, India, etc. When the laptop is sold, it should be mandatory that one of the related power cords also be selected. Generally, only cross sell relationships are mandatory. Substitution and upsell relationships can be defined as mandatory, but in those cases, the definition of mandatory is at the discretion of the client and generally means that substitution or upsell must, as business process, be offered to consumers.
relateditem	Item id of the related item. This is the item that should be Cross Sold, Substituted, or Up Sold when the item on the parent record is sold.

relateditemaction	Recommended action based on how the "related" item, in the related item relationship, has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA. *Important*: This response has two levels of actions. This field communicates the action of the "relateditem" involved in the related item relationship.
startdate	From this date related item can be used on transactions.
enddate	Till this date related item can be used on transactions. A value of null means that it is effective forever.
priority	Applicable only in case of relationship type SUBS. In case of multiple related substitute items, this column could be used (optional) to define relative priority.

Sort

Order	Field	Sorting
1	relationshipid	Ascending
2	relateditem	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/relateditem?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"relationshipid": 1,
"item": "101500004",
"mandatoryind": "N",
"relationshiptype": "SUBS",
"relateditem": "100600003",
"startdate": "2014-12-17",
"enddate": "2014-12-31",
"priority": 1
},

{
"action": "INSERT",
"relationshipid": 402,
"item": "101500012",
"mandatoryind": "N",
"relationshiptype": "CRSL",
"relateditem": "101500004",
"relateditemaction": "DELETE",
"startdate": null,
"enddate": null,
"priority": null
},
{
"action": "INSERT",
"relationshipid": 402,
"item": "101500012"
"mandatoryind": "N",,
"relationshiptype": "CRSL",
"relateditem": "101500021",
"relateditemaction": "INSERT",
"startdate": null,
"enddate": null,
"priority": null
}
],
"hasMore": true,
"limit": 3,
"count": 3,
"links": [ {.. } ]
}
```

v2/item/upc : Get UPC Items

Get **changes** made to upc items **since** a point in time.

```
GET ords/ocds/omnichannel/v2/item/upc
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
itemlocation	The Organization Hierarchy Node id when requested by node, otherwise "ent" (Enterprise) is returned.
item	ID of item. Data will always be present in this field.
itemparent	ID identifies the item/group at the level above the item. This value must exist as an item in another row on the item_master table.

itemgrandparent	ID identifies the item/group two levels above the item. This value must exist as both an item and an item parent in another row on the item_master table.
itemlevel	Number indicating which of the three levels the item resides. The item level determines if the item stands alone or if it is part of a family of related items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a item level = 1 UPCs for Staple items generally have an item level = 2 (and the staple item will be the UPCs parent item). Fashion styles generally have an item level = 1. Fashion skus generally have an item level = 2. If UPCs for fashion skus generally have an item level = 3. Valid values are 1, 2 and 3. This field will always have data.

tranlevel	Number indicating which of the three levels transactions occur for the items group. The transaction level is the level at which the items inventory is tracked in the system. The transaction level item will be inventoried, counted, transferred, shipped, etc. Only one level of the hierarchy of an item family may contain transaction level items. The concept is best explained with typical (although not exhaustive) examples. Staple items generally have a TranLevel = 1. UPCs for Staple items generally have an TranLevel = 1 (inventory txns occur at the staple sku level; sales of the item roll up to the parent staple sku). Fashion styles generally have a TranLevel = 2 (the style itself is not sold/inventoried). Fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). If UPCs for fashion skus generally have an TranLevel = 2 (the fashion sku is sold/inventoried). There are some rare cases in vendor managed inventory where the TranLevel = 3. Valid values are 1, 2 and 3. This field will always have data.

inventoryind	This indicator is used to determine if inventory is held for the item/item family. Inventory is held for most items. However, inventory is not held (value = N) in some special cases, such as: Concession items (items that are sold by independent in location concessions), Consignment items (items are not owned by the retailer; financial and inventory processing occurs after the item is sold to a consumer), Containers sold then returned for deposit and some items that are transformed for sale. Valid values are Y and N. This field will always have data.
diff1level	This field will contain either ID or GROUP, based on whether the diff_1 is a group diff or a diff id.
diff1type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_ TYPE table.
diff1	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff2level	This field will contain either ID or GROUP, based on whether the diff_2 is a group diff or a diff id.

diff2type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_TYPE table.
diff2	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
diff3level	This field will contain either ID or GROUP, based on whether the diff_3 is a group diff or a diff id.
diff3type	This field will hold a value of the types of differentiators contained in this differentiator group, such as S - size, C - color, F - flavor, E - scent, P - pattern. Valid values are stored in the DIFF_TYPE table.
diff3	Diff_group or diff_id that differentiates the current item from its item_parent. For an item that is a parent, this field may be either a group (i.e. Mens pant sizes) or a value (6 oz).
division	Number identifying the Division in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same division. This data is required

groupid	Number identifying the Group in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same group. This data is required
dept	Number identifying the department in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department. This data is required
class	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.
uniqueclass	Number identifying the class in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department and class. Class is not a unique ID (for example, every department can have a class 1). This data is required.

subclass	Number identifying the subclass in the merchandise hierarchy to which the item belongs. If the item has a parent, the parent and item will belong to the same department, class and subclass. Subclass is not a unique ID (for example, every department/class can have a subclass 1). This data is required.
uniquesubclass	Number uniquely identifying the subclass node which the item belongs to. Subclass is not unique ID the merchandise hierarchy. The combination of Dept/Class/Subclass is unique, but requires use of a composite key. The composite key is generally used in user interfaces. The unique ID can be used in back end processing or in systems that can not have a composite key for a node in the merchandise hierarchy.
description	Primary description of the item in the integration language of the system. This value is required.

localdescription	The local description of the item, when requesting by Organization Hierarchy Node and Hierarchy level is "STORE". This may be the same as the primary description of the item, a regional description of the item (for example, jimmies vs sprinkles in the US or roll vs bap vs cob vs bun in the UK), or a value in a local language (for example, Overlay dress true black knit at US stores vs Lagenkleid - Strick, tiefschwarz at stores in Germany). The intent is that this string is appropriate to print description on signage/receipts at this location. This will be null for all non-STORE Hierarchy levels.
merchandiseind	Indicates if the item is a merchandise item (Y, N). Merchandise items are generally physical items (things that must be shipped/received and of which there is an inventory). Non merchandise items are often items which do not have inventory. Common examples include extra fees for service (extended warranties, alterations) or endlessly available items (downloads, in app purchases of bonus content, subscriptions). All items, both merchandise and non-merchandise are exported from RMS. This value is required.

uintype	The unique identification number (UIN) used to identify the instances of the item at the location.
mfgrecretail	Manufacturers recommended retail price for the item. Used for informational purposes only. This field is stored in the primary currency.
originalunitretail	The original retail price of the item per unit. This field is stored in the primary currency.
catchweightind	Indicates whether the item should be weighed when it arrives at a location. Valid values for this field are Y and N. This field will always have data';
itemservicelevel	Holds a value that restricts the type of shipment methods that RCOM can select for an item.
giftwrapind	This field will contain a value of Y if the item is eligible to be gift wrapped. If not explicitly defined, this field will default to N. This field will always have data records.
shipaloneind	This field will contain a value of Y if the item must be shipped alone to consumers. If not explicitly defined, this field will default to N. This field will always have data records.

standarduom	Unit of measure in which stock and or financials of the item is tracked at a corporate level. Unit of measure reference values may have to be manually synced between the systems as this is foundation data that is not currently bulk integrated out of Merch. This value is required.
productclassification	Product classification
xdiff1desc	When diff1level is ID, the description of the diff. When diff1level is GROUP, the description of the differentiator group.
xdiff2desc	When diff2level is ID, the description of the diff. When diff2level is GROUP, the description of the differentiator group.
xdiff3desc	When diff3level is ID, the description of the diff. When diff3level is GROUP, the description of the differentiator group.

Sort

Order	Field	Sorting
1	item	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/item/upc?nodeId=1&nodeLevel=CHAIN&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "itemlocation": "ent",
            "item": "1000001",
            "itemparent": "1",
            "itemgrandparent": null,
            "itemlevel": 2,
            "tranlevel": 1,
            "inventoryind": "Y",
            "diff1level": null,
            "diff1type": null,
            "diff1": null,
            "diff2level": null,
            "diff2type": null,
            "diff2": null,
            "diff3level": null,
            "diff3type": null,
            "diff3": null,
            "division": 1,
            "groupid": 1,
            "dept": 1,
            "class": 1,
            "uniqueclass": 1,
            "subclass": 1,
            "uniquesubclass": 1,
            "description": "Below Transaction Item: 1000001",
            "localdescription": null,
            "merchandiseind": "Y",
            "uintype": null,
            "mfgrecretail": null,
            "orginalunitretail": 12.94,
            "catchweightind": "Y",
            "itemservicelevel": null,
            "giftwrapind": "Y",
            "shipaloneind": "Y",
            "standarduom": "EA",
            "productclassification": null,
            "xdiff1desc": null,
            "xdiff2desc": null,
            "xdiff3desc": null
        }
    ],
    "hasMore": true,
    "limit": 1,
    "count": 1,
    "links": [ {.. } ]
}
```

v2/location/retailstore : Get Retail Stores

Get **changes** made to retail stores **since** a point in time. Address fields are always derived from the primary Business (addr_type: 01) address.

```
GET ords/ocds/omnichannel/v2/location/retailstore
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	▪ COMPANY ▪ CHAIN ▪ AREA ▪ REGION ▪ DISTRICT ▪ STORE ▪ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
storeid	Unique ID of the store.
storename	Name of the store which, along with the store number, identifies the store.
storename10	A ten character abbreviation of the store name.
manager	Name of the store manager.
phonenumber	Phone number for the store.
faxnumber	Fax number for the store.
email	Email address for the store.

totalsqfeet	Total square footage of the store.
sellingsqfeet	Total square footage of the stores selling area.
currencycode	Currency code under which the store operates.
vatregion	Indicates whether or not Value Added Tax will be included in the retail prices for the store. Valid values are Y or N.
stockholdingind	Flag to indicate if store holds stock
integratedpos	Flag to indicate if pos system is integrated
contactname	Contact name for store
address1	First line of the Primary Business address. When the store has a primary business address, this field will contain data.
address2	Second line of the address.
address3	Third line of the address.
city	Name of the city that is associated with the address. When the store has a primary business address, this field will contain data.
state	The state abbreviation for the address.
country	The ISO 3166-1 country code associated with the address. When the store has a primary business address, this field will contain data.
postalcode	Zip code for the address.

Sort

Order	Field	Sorting
1	storeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/location/retailstore?nodeId=1&nodeLevel=CHAIN&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"storeid": 2689,
"storename": "RMS Store",
"storename10": "STORE",
"manager": "Mr. Jones",
"contactname": "Sally Smith" "phonenumber": "123456",
"faxnumber": "123456",
"email": "example@mail.com",
"totalsqfeet":20000
"selllingsqfeet":18000
"currencycode": "USD",
"vatregion": 1000,
"address1": "addr",
"address2": null,
"address3": null,
"city": "mpls",
"state": "MN",
"country": "US",
"postalcode": "55345"
}
],
"hasMore": true,
"limit": 1,
"count": 1,
"links": [ {.. } ]
}
```

v2/location/warehouse : Get Warehouse

Get **changes** made to warehouses **since** a point in time. Address fields are always derived from the primary Business (addr_type: 01) address.

```
GET ords/ocds/omnichannel/v2/location/warehouse
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
warehouseid	Number which uniquely identifies the warehouse. The wh table stores all warehouses in the system. Both virtual and physical warehouses will be stored on this table. The addition of the new column, physical_wh, helps determine which warehouses are physical and which are virtual. All physical warehouses will have a physical_wh column value equal to their wh number. Virtual warehouses will have a valid physical warehouse in this column.
warehousename	Name of the warehouse which, along with the warehouse number, identifies the warehouse.
whnamesecondary	Secondary name of the warehouse.
contactname	Name of the contact at this address
phonenumber	Phone number of the contact person
faxnumber	Fax number of the contact person
email	Email address of the partner or suppliers representative contact.
currencycode	Currency code under which the warehouse operates.

physicalwh	The number of the physical warehouse that is assigned to the virtual warehouse.
vatregion	Vat Region in which warehouse is located
orghiertype	Organization type that will be used in reporting purposes for the warehouse. The type comes from the organizational hierarchy. Valid values are:1 = Company 10 = Chain 20 = Area 30 = Region 40 = District 50 = Store
orghiervalue	Code associated with the specific organizational hierarchy type. Valid values include the company number, chain number, area number, etc.
ordentitytype	Type of rganizational entity
channelid	Channel for which the virtual warehouse will be assigned.
channelname	Name of the channel.
address1	Primary Business address. When the store has a primary business address, this field will contain data.
address2	Second line of the address.
address3	Third line of the address.
city	Name of the city that is associated with the address. When the store has a primary business address, this field will contain data.
state	State abbreviation for the address.

country	The ISO 3166-1 country code associated with the address. When the store has a primary business address, this field will contain data.
postalcode	Zip code for the address.

Sort

Order	Field	Sorting
1	warehouseId	Ascending
2	type	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/location/warehouse?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "warehouseid": 1,
            "type": "physical",
            "warehousename": "Warehouse #1",
            "whnamesecondary": "Physical Warehouse 1",
            "contactname": "Contact 2",
            "phonenumber": "xxx-xxx-xxxx",
            "faxnumber": "xxx-xxx-xxxx",
            "email": "email@example.com",
            "currencycode": "USD",
            "physicalwh": 1,
            "vatregion": 1000,
            "orghiertype": null,
            "orghiervalue": null,
            "orgentitytype": "R",
            "channelid": null,
            "channelname": null,
            "address1": "2 Main Street",
            "address2": "Unit 0",
            "address3": "Box 1-2",
            "city": "Minneapolis",
            "state": "MN",
            "country": "US",
            "postalcode": "55407"
        }
    ],
    "hasMore": true,
    "limit": 1,
    "count": 1,
"links": [ {.. } ]

}
```

v2/merchhier : Get Merchandise Hierarchy

Get **changes** made to the merchandise hierarchy **since** a point in time. The merchandise hierarchy enables the grouping of items by Division, Group, Department, Class and Subclass.

```
GET ords/ocds/omnichannel/v2/merchhier
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
nodeid	This information identifies the node of the merchanidise hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DIVISION 1 and a GROUP 1 in the full merchandise hierarchy).

hierarchylevel	Name of the merchandise hierarchy entity. Description data is only sent in the primary integration language of the system.
nodename	Level of the merchandise hierarchy above the current node. Both ParentLevel and ParentId are should be evaluated to correctly traverse the hierarchy
parentlevel	Level of the merchandise hierarchy above the current node. Both ParentLevel and ParentId are should be evaluated to correctly traverse the hierarchy
parentnodeid	Id of the level of the merchandise hierarchy above the current node. Both ParentLevel and ParentNodeId are should be evaluated to correctly traverse the hierarchy.
merchdisplayid	Contains a code which indicates whether items in this department are normal merchandise, consignment stock or concession items.
buyer	Buyer for the node

Sort

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down
2	nodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/merchhier?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
"items": [
{
"action": "INSERT",
"nodeid": 4,
"hierarchylevel": "SUBCLASS",
"nodename": "Mens RMS 15.0",
"parentlevel": "CLASS",
"parentnodeid": 4
}
],

"hasMore": true,
"limit": 1,
"count": 1,
"links": [ {.. } ]
}
```

v2/orghier : Get Organization Hierarchy

Get **changes** made to the organizational hierarchy **since** a point in time. The organizational hierarchy describes the operational structure of a company

```
GET ords/ocds/omnichannel/v2/orghier
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp

Parameter	Value	Description	Optional	Parameter Type	Data Type
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
hierarchylevel	This information identifies the level of the organizational hierarchy that is described by this record.Value is always COMPANY, CHAIN, AREA, REGION, DISTRICT, STORE or WAREHOUSE. This field can not be null.
hierarchynodeid	This information identifies the node of the organizational hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DISTRICT 1 and a REGION 1 in the full organizational hierarchy).

hierarchynodename	Name of the organizational hierarchy entity. This field can not be null. Description data is only sent in the primary integration language of the system.
parentlevel	This information identifies the parent level of the organizational hierarchy that is described by this record'
parentid	This information identifies the id of parent organizational hierarchy.
mgrname	Name of manager for the node.

Sort

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down
2	hierarchynodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/orghier?nodeId=1&nodeLevel=COMPANY&since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "hierarchylevel": "CHAIN",
            "hierarchynodeid": 1,
            "hierarchynodename": "Chain_1",
            "parentlevel": "COMPANY",
            "parentid": 1,
            "mgrname": null,
            "stockholding": null,
            "integratedpos": null
        },
        {
            "action": "INSERT",
            "hierarchylevel": "COMPANY",
            "hierarchynodeid": 1,
            "hierarchynodename": "Company_1",
            "parentlevel": null,
            "parentid": null,
            "mgrname": null,
            "stockholding": null,
            "integratedpos": null
        },
        {
            "action": "INSERT",
            "hierarchylevel": "DISTRICT",
            "hierarchynodeid": 1,
            "hierarchynodename": "District_1",
            "parentlevel": "REGION",
            "parentid": 1,
            "mgrname": null,
            "stockholding": null,
            "integratedpos": null
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/orghier/descendant : Get Descendants of Organization Hierarchy Node

Get entire branch of the organizational hierarchy beginning with a specified node. This resource returns the latest state of the organizational hierarchy.

```
GET ords/ocds/omnichannel/v2/orghier/descendant
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
nodelevel	■ COMPANY ■ CHAIN ■ AREA ■ REGION ■ DISTRICT ■ STORE ■ WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeId to identify the node.	Yes	Query	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
hierarchylevel	This information identifies the level of the organizational hierarchy that is described by this record.Value is always COMPANY, CHAIN, AREA, REGION, DISTRICT, STORE or WAREHOUSE. This field can not be null.
hierarchynodeid	This information identifies the node of the organizational hierarchy that is described by this record. This field can not be null. HierarchyNodeId is only unique within an HierarchyLevel (meaning it is possible, for example, that there is both a DISTRICT 1 and a REGION 1 in the full organizational hierarchy).

hierarchynodename	Name of the organizational hierarchy entity. This field can not be null. Description data is only sent in the primary integration language of the system.
parentlevel	This information identifies the parent level of the organizational hierarchy that is described by this record'
parentid	This information identifies the id of parent organizational hierarchy.
levelorder	Sequence for level

Sort

Order	Field	Sorting
1	hierarchylevel	Hierarchical Top Down
2	hierarchynodeid	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/omnichannel/v2/orghier/descendant?nodeId=1&nodeLevel=COMPANY

```
{
    "items": [
        {
            "hierarchylevel": "CHAIN",
            "hierarchynodeid": 1,
            "hierarchynodename": "Chain_1",
            "parentlevel": "COMPANY",
            "parentid": 1,
            "levelorder": 10
        },
        {
            "hierarchylevel": "REGION",
            "hierarchynodeid": 1,
            "hierarchynodename": "Region_1",
            "parentlevel": "CHAIN",
            "parentid": 1,
            "levelorder": 30
        },
        {
            "hierarchylevel": "REGION",
            "hierarchynodeid": 2,
            "hierarchynodename": "Region_2",
            "parentlevel": "CHAIN",
            "parentid": 1,
            "levelorder": 30
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```

v2/refreshdate : Get Last Refresh Date of Entity Data Feeds

Get the date bulk data arrived into the system. The refresh date can be compared to the SINCE request parameter, in REST calls to foundation data resources, to determine if response data represents "initial load" or an "incremental change".

```
GET ords/ocds/omnichannel/v2/refreshdate
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
entitytype	■ diff ■ diffgroup ■ dimensiontype ■ dimensionvalue ■ item ■ itemimage ■ itemlocation ■ itemprice ■ merchhier ■ orghier ■ retailstore ■ warehouse	Request refresh date for a single entity. This parameter is optional; when not used, refreshdates for all entities are returned.	Yes	Query	Integer
limit	Number	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
entity	The system entity. Each entity value correlates with one of the foundation data REST resources provided by this API
refreshdate	The timestamp data, for an entity, was initially loaded into system.

Sort

Order	Field	Sorting
1	entity	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/omnidevpdb/omnichannel/v2/refreshdate

https://{host}:{port}/ords/omnidevpdb/omnichannel/v2/refreshdate?entitytype=merchhier

```
{
    "items": [
        {
            "entity": "Item",
            "refreshdate": "2020-05-01T13:14:25.286000000-05:00"
        }
    ],
    "hasMore": false,
    "limit": 10000,
    "count": 1,
    "links": [ {.. } ]
}
```

v2/vat : Get Vat Information

Get **changes** made to vat region codes **since** a point in time.

```
GET ords/ocds/omnichannel/v2/vat
```

Parameters

Parameter	Value	Description	Optional	Parameter Type	Data Type
since	UTC ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Query	Timestamp
before	UTC ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Query	Timestamp
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit is used.	Yes	Query	Integer

Parameter	Value	Description	Optional	Parameter Type	Data Type
offsetkey	generated	Provides the offset information for the next page. This is machine generated and should not be altered	Yes	Query	String

Response (items)

Field	Description
action	Recommended action based on how data has changed since a point in time. Possible values are: NO_CHANGE, DELETE, UPSERT, INSERT, UPDATE and NA.
vatregion	Identifier for the VAT Region
vatregionname	Name of the VAT Region
vatcode	VAT Code identifier
vatcodedesc	Description of the VAT Code
activedate	Active date for the VAT Tax
enddate	End date for the VAR Tax

Sort

Order	Field	Sorting
1	vatregion	Ascending
2	vatcode	Ascending
3	activedate	Ascending

Example Data

Content-Type: application/json

Usage:

https://{host}:{port}/ords/ocds/ocds/v2/vat?since=2018-01-23T16:26:41.485Z&before=2018-06-23T16:26:41.485Z

```
{
    "items": [
        {
            "action": "INSERT",
            "vatregion": 1000,
            "vatregionname": "Vat Region 1000",
            "vatcode": "1",
            "vatcodedesc": "Vat Code 1",
            "activedate": "2020-01-10T12:26:57",
            "enddate": null
        },
        {
            "action": "INSERT",
            "vatregion": 1000,
            "vatregionname": "Vat Region 1000",
            "vatcode": "10",
            "vatcodedesc": "Vat Code 10",
            "activedate": "2019-11-26T12:26:57",
            "enddate": null
        },
        {
            "action": "INSERT",
            "vatregion": 1000,
            "vatregionname": "Vat Region 1000",
            "vatcode": "100",
            "vatcodedesc": "Vat Code 100",
            "activedate": "2020-01-27T12:26:57",
            "enddate": null
        }
    ],
    "hasMore": true,
    "limit": 3,
    "count": 3,
    "links": [ {.. } ]
}
```