



1WorldSync Content1 Web Services
Product Fetch Model Schema Guide

Version 3.1.12

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1 Overview

1WorldSync's Content1 ContentNOW API allows you to access 1WorldSync's rich and trusted repository of Brand Owner provided product information.

This document describes how to use the APIs to access product data from 1WorldSync Content1. It details the various parameters required to access and use the service, such as web service URLs, and request and response formats.

The intended audience of this document is anyone who will use Web services to access ContentNOW product data from Content1. (Note that a separate API document exists for those subscribers that will provide digital asset content.)

The current application programming interface (API) is a version 1 (/V1/) release.

These Web services will help you to:

- Access trusted product data sourced directly from Brand Owners and Manufacturers to power your applications.
- Ensure that you do not miss out on exciting information about new products from leading brands.
- Access latest updates on products, real-time.
- Perform efficient and extremely fast search operations on products.

2 If You are New to 1WorldSync's Content1 API

Before using 1WorldSync's web services, you must first register at <https://developer.1worldsync.com> to receive the credentials required for access.

Upon registration, you'll receive the following credentials:

- Your app_id: an 8-character, alphanumeric identifier
- Your X-3SCALE-AUTH-SECRET: a 32-character identifier (Client Secret)

The app_id must be included in all 1WorldSync Content1 web service requests to identify the sender of the request. The X-3SCALE-AUTH-SECRET code allows you to create the digital signature that provides proof that you truly are the sender of the request. For all requests you must

calculate this signature (hash_code) using your X-3SCALE-AUTH-SECRET code to authenticate your signature. You may refer to Content1 API HMAC Guide which can be found at <https://marketplace.api.1worldsync.com/api/> for more details on the information you must supply for the authentication process.

If you would like to test our API's in a non-production environment, you can use our Pre-Production environment: <https://marketplace.preprod.api.1worldsync.com/V2/products>. You will need a separate client id and secret key from your production account; contact us at customersupport@1worldsync.com if you need this additional access established.

Otherwise access to the Production web services will be through:
<https://marketplace.api.1worldsync.com/V2/products>.

There is also an online tool and sdk available to help you begin programming against the Content1 API while allowing you to make direct API calls using your app_id and secret key. Visit <https://marketplace.api.1worldsync.com/api/> for more information.

3 Relationship Dependent Data (RDD)

The ContentOne JSON model now supports RDD (Relationship Dependent Data) returned from the Product Fetch API call. RDD attributes are attributes which may have different values for each Data Recipient that subscribes to the Suppliers data. The functionality is best described using an example:

Lets assume a Supplier is publishing data to 2 different Data Recipients, Retailer A and Retailer B. To ensure they have enough inventory to satisfy all of their clients they have decided to stagger the introduction of their new product. In their data they have changed the start availability date for each Data Recipient to be one month apart. The supplier will publish the startAvailabilityDateTime to Retailer A for Sept 1, 2016 and for Retailer B for Oct 1, 2016.

The JSON model has been expanded so that the parent group which contains the RDD attributes will be a repeating group with a "key" group called recipient. The recipient group has been added so that it can easily be determined which data belongs to which Recipient. The attributes discussed in this example have been highlighted below.

NOTE: If your **appid** is only associated with a single Data Recipient GLN (this is the most common setup) only one "row" will be returned for that Data Recipient GLN. If however your **appid** is associated with more then one Data Recipient GLN then multiple "rows" will be returned in these RDD groups.

It is not necessary to know which individual attributes are RDD. All attributes within the group should be treated as RDD and the only the values contained within the group associated with the recipient GLN for which you are displaying the data should be used.

```

deliveryPurchasingInformationGroup" : [ {
  "deliveryPurchasingInformation" : {
    "agreedMaximumBuyingQuantity" : "string",
    "agreedMinimumBuyingQuantity" : "string",
    "canTradeItemBeBackOrdered" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "consumerFirstAvailabilityDateTime" : "string",
    "distributionDetails" : [ {
      "distributionMethodCode" : {
        "value" : "string",
        "valueDefinition" : "string"
      },
      "isDistributionMethodPrimary" : {
        "value" : "string",
        "valueDefinition" : "string"
      },
      "orderingLeadTime" : {
        "values" : [ {
          "value" : "string",
          "qual" : "string"
        } ],
        "qualDefinition" : "string"
      }
    } ],
    "endAvailabilityDateTime" : "string",
    "endDateTimeOfExclusivity" : "string",
    "endMaximumBuyingQuantityDateTime" : "string",
    "endMinimumBuyingQuantityDateTime" : "string",
    "firstDeliveryDateTime" : "string",
    "firstOrderDateTime" : "string",
    "firstShipDateTime" : "string",
    "goodsPickupLeadTime" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "isOneTimeBuy" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "isProductCustomizable" : "string",
    "isTradeItemReorderable" : "string",
    "isTradeItemShippedInMultipleContainers" : "string",
    "isTradeItemSizeBasedPricing" : "string",
    "lastOrderDateTime" : "string",
    "lastShipDateTime" : "string",
    "orderQuantityMaximum" : "string",
    "orderQuantityMinimum" : "string",
    "orderQuantityMultiple" : "string",
    "orderSizingFactor" : {
      "values" : [ {
        "value" : "string",
        "qual" : "string"
      } ],
      "qualDefinition" : "string"
    }
  },
} ],

```

```

"orderableReturnableInformation" : {
  "firstReturnableDateTime" : "string",
  "isNonSoldTradeItemReturnable" : "string",
  "lastReturnableDateTime" : "string",
  "orderableReturnableConditionsCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  },
  "returnGoodsPolicyCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
},
"orderingUnitOfMeasure" : "string",
"shippingQuantityMinimum" : "string",
"startAvailabilityDateTime" : "string",
"startDateMaximumBuyingQuantity" : "string",
"startDateMinimumBuyingQuantity" : "string"
},
"recipient" : {
  "recipientId" : "string",
  "recipientIdType" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
}
} ],

```

Here is another less complex structure with real JSON as an example:

Data Recipient GLN 0614141419623 would have a isTradeItemADespatchUnit = TRUE

Data Recipient GLN 0614141407224 would have a isTradeItemADespatchUnit = FALSE

```

"isTradeItemADespatchUnitGroup" : [
  {
    "isTradeItemADespatchUnit" : "TRUE",
    "recipient" : {
      "recipientId" : "0614141419623",
      "recipientIdType" : {
        "value" : "GLN",
        "valueDefinition" : "additionalPartyIDListDefinition"
      }
    }
  },
  {
    "isTradeItemADespatchUnit" : "FALSE",
    "recipient" : {
      "recipientId" : "0614141407224",
      "recipientIdType" : {
        "value" : "GLN",
        "valueDefinition" : "additionalPartyIDListDefinition"
      }
    }
  }
],

```

4 Product Fetch Model

This is the fetch model which details the structure of the JSON returned by a Content1 Product Fetch API call. To obtain sample JSON please use our the following urls from the Content1 Developers tool kit.

Production

https://marketplace.api.1worldsync.com/api/doc/swagger_fetch_model

Pre-Production

https://marketplace.preprod.api.1worldsync.com/api/doc/swagger_fetch_model

5 Revision History

Date	Ver #	Description of Change	Author
03/15/2016	3.0	MjR3 Compliant JSON	K. Tratt
03/31/2016	3.0r1	MjR3 Compliant Model Schema Schema updated to reflect corrections in attributes and groups	K. Tratt
04/27/2016	3.1	Changes to schema to support RDD (Relationship Dependent Data)	K. Tratt
06/24/2016	3.1.2	Added new attribute InBoxCubeDimension (Volume)	K. Tratt
10/25/2016	3.1.4.2	Added new attributes under marketing information tradeltemFeatureCodeReference/codeDescription tradeltemFeatureCodeReference/codeListAgencyCode tradeltemFeatureCodeReference/codeListAgencyCodeListVersion tradeltemFeatureCodeReference/codeListAgencyName tradeltemFeatureCodeReference/codeListName tradeltemFeatureCodeReference/codeListURI tradeltemFeatureCodeReference/codeListVersion tradeltemFeatureCodeReference/tradeltemFeatureCodeReference Value under nonfoodIngredient isIngredientActive isIngredientGeneric nonFoodIngredientCodeReference/codeDescription nonFoodIngredientCodeReference/codeListAgencyCode nonFoodIngredientCodeReference/codeListAgencyCodeListVersion n nonFoodIngredientCodeReference/codeListAgencyName nonFoodIngredientCodeReference/codeListName nonFoodIngredientCodeReference/codeListURI nonFoodIngredientCodeReference/codeListVersion nonFoodIngredientCodeReference/nonFoodIngredientCodeReference Value nonFoodIngredientName ingredientStrength/ingredientStrength ingredientStrength/ingredientStrengthBasis drugInteractions drugSideEffectsAndWarnings nonFoodIngredientStatement	K. Tratt

Date	Ver #	Description of Change	Author
01/11/2017	3.1.4.4	Added new attribute ingredientDefinition, additionalPackagingMarkedLabelAccreditation changed to a repeating value	K. Tratt
04/18/2017	3.1.4.7	Added new attributes packagingReusabilityStandardCode packagingReuseRate/packagingReusabilityStandardDescription packagingReuseRate primaryImage	K. Tratt
05/15/2017	3.1.4.8	Changed tradeltemMarketingMessage changed to AQM Added New Attributes tradeltemInformation/safetyDataSheetInformation/GHSDetailType/gHSSymbolDescriptionCode tradeltemInformation/safetyDataSheetInformation/GHSDetailType/hazardStatement/hazardStatementsCode tradeltemInformation/safetyDataSheetInformation/GHSDetailType/hazardStatement/hazardStatementsDescription tradeltemInformation/safetyDataSheetInformation/GHSDetailType/precautionaryStatement/precautionaryStatementsCode tradeltemInformation/safetyDataSheetInformation/GHSDetailType/precautionaryStatement/precautionaryStatementsDescription tradeltemInformation/dangerousSubstanceInformation/dangerousSubstanceProperties/isDangerousSubstance tradeltemInformation/animalFeedingModule/animalNutritionalClaim tradeltemInformation/animalFeedingModule/animalFeeding/feedLifestage tradeltemInformation/animalFeedingModule/animalFeeding/maximumWeightOfAnimalBeingFed tradeltemInformation/animalFeedingModule/animalFeeding/minimumWeightOfAnimalBeingFed tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/feedingAmount tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/feedingAmountBasisDescription tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/maximumFeedingAmount tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/minimumFeedingAmount tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/recommendedFrequencyOfFeeding tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientQuantityContainedBasis tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientDetail/animalNutrientTypeCode tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientDetail/animalNutrientExactPercentage tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientDetail/animalNutrientMaximumPercentage tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientDetail/animalNutrientMinimumPercentage tradeltemInformation/animalFeedingModule/animalFeeding/animalFeedingDetail/animalNutrientDetail/animalNutrientQuantityContained tradeltemInformation/tradeltemFeatureBenefitExtended	K. Tratt

Date	Ver #	Description of Change	Author
09/20/2017	3.1.6	Changing Attributes and structures for GDSN 3.1.3	K. Tratt
10/20/2017	3.1.6.1	Added All GDSN AVPs and reorganized RDD AVPs	K. Tratt
11/09/2017	3.1.6.2	Fixed couponFamilyCode changed from A to AM	K. Tratt
01/23/2018	3.1.6.3	Added New Attributes isPrivate aryztalIngredientNumber	K. Tratt
05/12/2018	3.1.6.6	Added new attributes for GDSN 3.1.4 and 3.1.5	K. Tratt
07/17/2018	3.1.6.8	Added new attributes for GDSN 3.1.6	K. Tratt
08/07/2018	3.1.6.9	Added new attributes for Lighting Device Module	K. Tratt
10/09/2018	3.1.6.10	New attributes for GDSN release 3.1.7	K. Tratt
02/01/2019	3.1.6.11	New Attributes for Reference Files	K. Tratt
03/22/2019	3.1.6.12	New Changes for GDSN 3.1.8	K. Tratt
04/02/2019	3.1.6.12.1	Fixed a new RDD attribute	K. Tratt
04/26/2019	3.1.6.12.1 v2	Added 360 Spin Attributes	K. Tratt
09/17/2019	3.1.8	Added targetConsumerAgeGroupCode, shareType	K. Tratt
10/25/2019	3.1.9	New Changes for GDSN 3.1.10	K. Tratt
12/19/2019	3.1.10	New Changes for GTI Attributes	K. Tratt
02/07/2020	3.1.11	New attributes for USDA and updated Valid Values for GDSN	K. Tratt
03/06/2020	3.1.12	GDSN changes including structure change for regulatedProductName	K. Tratt
05/11/2020	3.1.12 v2	Include Schema Model in external link	P. Odle