



1WorldSync Content1 Web Services
Product Fetch Model Schema Guide

Version 3.1.23

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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 technicalsupport@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 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 aryztaIngredientNumber	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
08/08/2020	3.1.14	<p>Changed Attributes</p> <ul style="list-style-type: none"> tradelItemInformation/packagingInformationModule/packaging/packagingTypeCode (-> lookup field) <pre>"packagingTypeCode": "string" -></pre> <pre>"packagingTypeCode": { "value": "string", "valueDefinition": "string" }</pre> <p>New Attributes</p> <ul style="list-style-type: none"> tradelItemInformation/textileMaterialModule/textileMaterial/materialStatement tradelItemInformation/batteryInformationModule/batteryDetail/batteryMaterials/materialStatement tradelItemInformation/tradelItemDescriptionModule/tradelItemDescriptionInformation/colour/colourTintCode tradelItemInformation/tradelItemDescriptionModule/tradelItemDescriptionInformation/colour/patternCode 	P. Odle
10/23/2020	3.1.14.1 Release Date 11/07/2020	<p>Changed Attributes</p> <p><i>The following 3 attributes are all becoming RDD (recipient specific values possible). They are backwards compatible already existing in an RDD group.</i></p> <ul style="list-style-type: none"> marketingInformationModule/marketingInformation/tradelItemFeatureBenefit/featureBenefit marketingInformationModule/marketingInformation/tradelItemKeyWords marketingInformationModule/marketingInformation/tradelItemMarketingMessage 	P. Odle

Date	Ver #	Description of Change	Author
		<p><i>This attribute is being moved out of its current location inside of itemIdentificationInformation into its own RDD group named productNameGroup</i></p> <p><u><i>New Schema excerpt</i></u></p> <pre> "itemIdentificationInformation": { "productName": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" },] } "productNameGroup": [{ "productName": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" },] "recipient": { "recipientId": "string", "recipientIdType": { "value": "string", "valueDefinition": "string" } } }],] </pre> <ul style="list-style-type: none"> • tradeltemDescriptionModule/tradeltemDescriptionInformation/tradeltemDescription [this attribute has been removed] – its value was identical to itemIdentificationInformation/productName (now productNameGroup/productName). <p><u><i>New Schema excerpt</i></u></p> <pre> "tradeltemDescriptionModule" : { "tradeltemDescriptionInformation" : [{ "tradeltemDescription" : { "values" : [{ "value" : "string", "language" : "string" }], "languageDefinition" : "string" }], } </pre> <p>New Attributes</p> <ul style="list-style-type: none"> • tradeltemInformation/alcoholInformationModule/alcoholInformation/alcoholUnits 	

Date	Ver #	Description of Change	Author
		<ul style="list-style-type: none"> • tradeltemInformation/batteryInformationModule/batteryDetail/batteryCapacity • tradeltemInformation/batteryInformationModule/batteryDetail/batteryVoltage • tradeltemInformation/batteryInformationModule/batteryDetail/isBatteryRechargeable • tradeltemInformation/batteryInformationModule/batteryDetail/quantityOfBatteriesIncluded • tradeltemInformation/consumerInstructionsModule/consumerInstructions/consumerRecyclingInstructions • tradeltemInformation/dietInformationModule/dietInformation/dietTypeInformation/isDietTypeMarkedOnPackage • tradeltemInformation/nutritionalInformationModule/nutrientHeader/nutrientDetail/expressedAsPartOf • tradeltemInformation/tradeltemDescriptionModule/tradeltemDescriptionInformation/opacityTypeCode • tradeltemInformation/tradeltemDescriptionModule/tradeltemDescriptionInformation/tradeltemVariant/tradeltemVariantStatement • tradeltemInformation/tradeltemTemperatureInformationModule/tradeltemTemperatureInformation/labelledTemperature • tradeltemInformation/safetyDataSheetModule/safetyDataSheetInformation/sDSSheetEffectiveDateTime • tradeltemInformation/safetyDataSheetModule/safetyDataSheetInformation/sDSSheetVersion • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/packagingLabellingCoveragePercentage • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/packagingLabellingTypeCode • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/packagingRawMaterialInformation • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/packagingRawMaterialInformation/packagingRawMaterialCode • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/packagingRawMaterialInformation/packagingRawMaterialContentPercentage • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/compositeMaterialDetail/packagingRawMaterialInformation • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/compositeMaterialDetail/packagingRawMaterialInformation/packagingRawMaterialCode • tradeltemInformation/packagingInformationModule/packaging/packagingMaterial/compositeMaterialDetail/packagingRawMaterialInformation/packagingRawMaterialContentPercentage • tradeltemContactInformation/targetMarketCommunicationChannel/communicationChannel/isCommunicationChannelPreferred • tradeltemInformation/apparelInformationModule/apparelInformation/closureFastenerInformation • tradeltemInformation/apparelInformationModule/apparelInformation/closureFastenerInformation/closureOrFastenerLocation • tradeltemInformation/apparelInformationModule/apparelInformation/closureFastenerInformation/closureOrFastenerTypeCode 	
3/19/2021	3.1.15	Revised support email address. Old customersupport@1worldsync.com New technicalsupport@1worldsync.com	P.Odle

Date	Ver #	Description of Change	Author
3/19/2021	3.1.15 Release Date 5/15/2021	May GDSN 2021 Changes Production 5/15/2021 Pre-Production 3/26/2021	P. Odle

The following nodes are becoming RDD

brandOwner
 informationProviderOfTradeItem
 manufacturerOfTradeItem
 tradeItemContactInformation
 certificationInformationModule
 chemicalRegulationInformationModule
 dietInformationModule
 medicalDeviceTradeItemModule

e.g.
 brandOwner -> brandOwnerGroup.brandOwner

each loop in the array, in this example each loop of brandOwner, will have a recipient node indicating which recipient the values are meant for [refer in above documentation for other examples of this].

e.g.

```
"recipient": {
  "recipientId": "0614141409006",
  "recipientIdType": {
    "value": "GLN",
    "valueDefinition": "additionalPartyIdentificationTypeCodeDefinition"
  }
}
```

The following nodes are being added

brandOwnerGroup
 brandOwnerGroup.brandOwner
 brandOwnerGroup.brandOwner.languageSpecificPartyName
 brandOwnerGroup.brandOwner.structuredAddress.complementAddress
 brandOwnerGroup.brandOwner.structuredAddress.poBox
 brandOwnerGroup.brandOwner.structuredAddress.streetNumber
 brandOwnerGroup.recipient
 brandOwnerGroup.recipient.recipientId
 brandOwnerGroup.recipient.recipientIdType

globalModelInformationGroup
 globalModelInformationGroup.globalModelInformation
[for readability, globalModelInformationGroup.globalModelInformation ->..]
 ..globalModelContactInformation
 ..globalModelContactInformation.afterHoursCommunicationChannel
 ..globalModelContactInformation.afterHoursCommunicationChannel.communicationChannelCode
 ..globalModelContactInformation.afterHoursCommunicationChannel.communicationChannelName
 ..globalModelContactInformation.afterHoursCommunicationChannel.communicationValue
 ..globalModelContactInformation.afterHoursCommunicationChannel.isCommunicationChannelPreferred
 ..globalModelContactInformation.contactTypeCode
 ..globalModelContactInformation.departmentName
 ..globalModelContactInformation.jobTitle
 ..globalModelContactInformation.personName
 ..globalModelContactInformation.responsibility

Date	Ver #	Description of Change	Author
		<p>..globalModelDescription ..globalModelNumber ..globalModelRegulatoryInformation ..globalModelRegulatoryInformation.globalModelRegulatoryAct ..globalModelRegulatoryInformation.globalModelRegulatoryActCountry ..globalModelRegulatoryInformation.globalModelRegulatoryActCountry.countryCode ..globalModelRegulatoryInformation.globalModelRegulatoryActCountry.countrySubdivisionCode globalModelInformationGroup.recipient globalModelInformationGroup.recipient.recipientId globalModelInformationGroup.recipient.recipientIdType</p> <p>informationProviderOfTradeItemGroup informationProviderOfTradeItemGroup.informationProviderOfTradeItem informationProviderOfTradeItemGroup.informationProviderOfTradeItem.languageSpecificPartyName informationProviderOfTradeItemGroup.informationProviderOfTradeItem.structuredAddress.complementAddress informationProviderOfTradeItemGroup.informationProviderOfTradeItem.structuredAddress.poBox informationProviderOfTradeItemGroup.informationProviderOfTradeItem.structuredAddress.streetNumber informationProviderOfTradeItemGroup.recipient informationProviderOfTradeItemGroup.recipient.recipientId informationProviderOfTradeItemGroup.recipient.recipientIdType</p> <p>manufacturerOfTradeItemGroup manufacturerOfTradeItemGroup.manufacturerOfTradeItem manufacturerOfTradeItemGroup.manufacturerOfTradeItem.languageSpecificPartyName manufacturerOfTradeItemGroup.manufacturerOfTradeItem.structuredAddress.complementAddress manufacturerOfTradeItemGroup.manufacturerOfTradeItem.structuredAddress.poBox manufacturerOfTradeItemGroup.manufacturerOfTradeItem.structuredAddress.streetNumber manufacturerOfTradeItemGroup.recipient manufacturerOfTradeItemGroup.recipient.recipientId manufacturerOfTradeItemGroup.recipient.recipientIdType</p> <p>partyInRoleGroup.partyInRole.languageSpecificPartyName partyInRoleGroup.partyInRole.structuredAddress.complementAddress partyInRoleGroup.partyInRole.structuredAddress.poBox partyInRoleGroup.partyInRole.structuredAddress.streetNumber</p> <p>tradeItemContactInformationGroup tradeItemContactInformationGroup.tradeItemContactInformation tradeItemContactInformationGroup.tradeItemContactInformation.languageSpecificPartyName tradeItemContactInformationGroup.tradeItemContactInformation.structuredAddress.complementAddress tradeItemContactInformationGroup.tradeItemContactInformation.structuredAddress.poBox tradeItemContactInformationGroup.tradeItemContactInformation.structuredAddress.streetNumber tradeItemContactInformationGroup.recipient tradeItemContactInformationGroup.recipient.recipientId tradeItemContactInformationGroup.recipient.recipientIdType</p> <p><i>[for readability, tradeItemInformation.alcoholInformationModule -> ..]</i> tradeItemInformation.alcoholInformationModule ..alcoholBeverageContainer ..alcoholBeverageContainer.containerMaterialCode ..alcoholBeverageContainer.containerProcessTypeCode ..alcoholBeverageContainer.containerShapeCode ..alcoholBeverageContainer.containerTypeCode ..alcoholInformation.alcoholBeverageAge ..alcoholInformation.alcoholBeverageDistilledFromCode ..alcoholInformation.alcoholBeverageFilteringMethodTypeCode ..alcoholInformation.alcoholBeverageProductionMethodTypeCode</p>	

Date	Ver #	Description of Change	Author
		<p>..alcoholInformation.alcoholBeverageTypeCode ..alcoholInformation.beerStyleCode ..alcoholInformation.isCaskStrength ..alcoholInformation.primaryAddedFlavouringCode ..alcoholInformation.secondaryAddedFlavouringCode</p> <p>certificationInformationModuleGroup certificationInformationModuleGroup.certificationInformationModule <i>[for readability, certificationInformationModuleGroup.certificationInformationModule -> ..]</i> ..certificationInformation.certification.certificationExecutionCountryCode certificationInformationModuleGroup.recipient certificationInformationModuleGroup.recipient.recipientId certificationInformationModuleGroup.recipient.recipientIdType</p> <p>dietInformationModuleGroup dietInformationModuleGroup.dietInformationModule dietInformationModuleGroup.dietInformationModule.dietInformation <i>[for readability, dietInformationModuleGroup.dietInformationModule.dietInformation -> ..]</i> ..dietTypeInformation.dietCertification.certification.certificationExecutionCountryCode ..dietTypeInformation.dietCertification.certification.referencedFileInformation.contentDescription dietInformationModuleGroup.recipient dietInformationModuleGroup.recipient.recipientId dietInformationModuleGroup.recipient.recipientIdType</p> <p><i>[Note: ingredient statement is changing from an object node to an array of paired statements + sequenceNumber. Refer to json schema for more details]</i> foodAndBeverageIngredientModule.ingredientStatement foodAndBeverageIngredientModule.ingredientStatement.sequenceNumber foodAndBeverageIngredientModule.ingredientStatement.statement</p> <p><i>[Note: nutritionalProgramCode, nutritionalProgramDetails, nutritionalScore, nutritionalValue are moved under a new array group nutritionalProgram]</i> <i>[Note: nutritionalProgramIngredientMeasurement, nutritionalProgramIngredientTypeCode are moved under a new array group nutritionalProgramIngredients which itself is under new array group nutritionalProgram]</i> <i>[for readability, healthRelatedInformationModule.healthRelatedInformation -> ..]</i> <old> ..nutritionalProgramCode ..nutritionalProgramDetail ..nutritionalProgramIngredientMeasurement ..nutritionalProgramIngredientTypeCode ..nutritionalScore ..nutritionalValue <new> ..nutritionalProgram ..nutritionalProgram.nutritionalProgramCode ..nutritionalProgram.nutritionalProgramDetail ..nutritionalProgram.nutritionalProgramIngredients ..nutritionalProgram.nutritionalProgramIngredients.nutritionalProgramIngredientMeasurement ..nutritionalProgram.nutritionalProgramIngredients.nutritionalProgramIngredientTypeCode ..nutritionalProgram.nutritionalScore ..nutritionalProgram.nutritionalValue</p> <p><i>[for readability, healthcareItemInformationModuleGroup.healthcareItemInformationModule -> ..]</i> ..healthcareItemInformation.clinicalSize ..healthcareItemInformation.clinicalSize.clinicalSizeMeasurementPrecisionCode ..healthcareItemInformation.clinicalSize.clinicalSizeValueMaximum ..healthcareItemInformation.clinicalStorageHandlingInformation</p>	

Date	Ver #	Description of Change	Author
		<p>..healthcareItemInformation.clinicalStorageHandlingInformation.clinicalStorageHandlingDescription ..healthcareItemInformation.clinicalStorageHandlingInformation.clinicalStorageHandlingTypeCode ..healthcareItemInformation.clinicalWarning.warningsOrContraIndicationDescription ..healthcareItemInformation.doesTradeItemContainAnimalTissue ..healthcareItemInformation.doesTradeItemContainMicrobialSubstance</p> <p>lightingDeviceModule.lightBulbInformation.declaredPower lightingDeviceModule.lightBulbInformation.equivalentLightBulbPower lightingDeviceModule.lightBulbInformation.isLightBulbSuitableForAccentLighting lightingDeviceModule.lightBulbInformation.lightBulbWarmUpTime lightingDeviceModule.lightBulbInformation.maximumColourTemperature lightingDeviceModule.lightBulbInformation.minimumColourTemperature</p> <p>medicalDeviceTradeItemModuleGroup <i>[for readability, medicalDeviceTradeItemModuleGroup.medicalDeviceTradeItemModule -> ..]</i> ..medicalDeviceInformation.annexXVIIIntendedPurposeTypeCode ..medicalDeviceInformation.eUMedicalDeviceStatusCode ..medicalDeviceInformation.hasDeviceMeasuringFunction ..medicalDeviceInformation.isActiveDevice ..medicalDeviceInformation.isDeviceCompanionDiagnostic ..medicalDeviceInformation.isDeviceDesignedForProfessionalTesting ..medicalDeviceInformation.isDeviceExemptFromImplantObligations ..medicalDeviceInformation.isDeviceInstrument ..medicalDeviceInformation.isDeviceIntendedToAdministerOrRemoveMedicinalProduct ..medicalDeviceInformation.isDeviceMedicinalProduct ..medicalDeviceInformation.isDeviceNearPatientTesting ..medicalDeviceInformation.isDevicePatientSelfTesting ..medicalDeviceInformation.isDeviceReagent ..medicalDeviceInformation.isNewDevice ..medicalDeviceInformation.isReprocessedSingleUseDevice ..medicalDeviceInformation.isReusableSurgicalInstrument ..medicalDeviceInformation.multiComponentDeviceTypeCode ..medicalDeviceInformation.specialDeviceTypeCode ..medicalDeviceInformation.systemOrProcedurePackMedicalPurposeDescription ..medicalDeviceInformation.systemOrProcedurePackTypeCode ..medicalDeviceInformation.uDIProductionIdentifierTypeCode ..medicalDeviceInformation.medicalDeviceSubStatusInformation ..medicalDeviceInformation.medicalDeviceSubStatusInformation.deviceSubStatusEndDateTime ..medicalDeviceInformation.medicalDeviceSubStatusInformation.deviceSubStatusStartDateTime ..medicalDeviceInformation.medicalDeviceSubStatusInformation.eUMedicalDeviceSubStatusCode ..medicalDeviceInformation.medicalDeviceSubStatusInformation.recallPrecision ..medicalDeviceInformation.medicalDeviceSubStatusInformation.recallScopeTypeCode medicalDeviceTradeItemModuleGroup.recipient medicalDeviceTradeItemModuleGroup.recipient.recipientId medicalDeviceTradeItemModuleGroup.recipient.recipientIdType</p> <p><i>[Note: nonfoodIngredientName is changing from a simple string to an array of language specific strings]</i> nonfoodIngredientModule.nonfoodIngredient.nonfoodIngredientName nonfoodIngredientModule.nonfoodIngredient.nonfoodIngredientName</p> <p>nutritionalInformationModule.nutritionalClaimDetail.claimMarkedOnPackage</p> <p><i>[Note: enumerationValueDefinition is changing from a simple string to an array of language specific strings]</i> <i>[for readability, pharmaceuticalItemInformationModule.pharmaceuticalItemInformation -> ..]</i> ..psychotropicSubstance.enumerationValueInformation.enumerationValueDefinition ..psychotropicSubstance.enumerationValueInformation.enumerationValueDefinition</p>	

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<p><i>[Note: Nested RDD groups are not supported. Rename the following nodes]</i> <i>[for readability, salesInformationModuleGroup -> ..]</i> ..salesInformationModule.applicableAllowanceChargeGroup ..salesInformationModule.applicablePaymentTermsGroup ..salesInformationModule.tradeltemPriceInformation.additionalTradeltemPriceGroup ..salesInformationModule.tradeltemPriceInformation.cataloguePriceGroup ..salesInformationModule.tradeltemPriceInformation.suggestedRetailPriceGroup ..salesInformationModule.applicableAllowanceCharge ..salesInformationModule.applicablePaymentTerms ..salesInformationModule.tradeltemPriceInformation.additionalTradeltemPrice ..salesInformationModule.tradeltemPriceInformation.cataloguePrice ..salesInformationModule.tradeltemPriceInformation.suggestedRetailPrice</p> <p><i>[for readability, salesInformationModuleGroup.salesInformationModule -> ..]</i> ..salesInformation.targetMarketSalesConditions.salesConditionTargetMarketCountry.endAvailabilityDateTime ..salesInformation.targetMarketSalesConditions.salesConditionTargetMarketCountry.startAvailabilityDateTime</p> <p><i>[Note tradeltemFormDescription is changing from a simple string to an array of language specific strings]</i> tradeltemDescriptionModule.tradeltemDescriptionInformation.tradeltemFormDescription tradeltemDescriptionModule.tradeltemDescriptionInformation.tradeltemFormDescription</p>			
7/20/2021	3.1.16 Release Date 8/14/2021	August GDSN 2021 Changes Production 8/14/2021 Pre-Production 7/30/2021	P. Odle
<p>Schema changes</p> <p><u>The following nodes are being added</u></p> <p>owsCertificationStatus</p> <p><i>[for readability, foodAndBeveragePropertiesInformationModule -> ..]</i> ..microbiologicalInformation.microbiologicalOrganismMethodOfAnalysisCode ..microbiologicalInformation.microbiologicalOrganismMinimumValue</p> <p><i>[for readability, marketingInformationModuleGroup.marketingInformationModule -> ..]</i> ..marketingInformation.tradeltemFeatureBenefit.featureBenefit ..marketingInformation.tradeltemFeatureBenefit.sequenceNumber</p> <p><i>[for readability, nutritionalInformationModule.nutrientHeader -> ..]</i> ..nutrientDetail.dailyValueIntakePercentMeasurementPrecisionCode</p>			
4/25/2022	3.1.19 Release Date 5/21/2022	May GSDN 2022 Changes Production 5/21/2022 Pre-Production 5/06/2022	P. Odle
<p><u>The following attributes are becoming arrays to allow multiple values</u></p> <p><i>[for readability, tradeltemInformation.tradeltemMeasurementsModuleGroup.tradeltemMeasurementsModule -> ..]</i></p> <p>..tradeltemMeasurements.additionalTradeltemDimensions.depth ..tradeltemMeasurements.additionalTradeltemDimensions.grossWeight ..tradeltemMeasurements.additionalTradeltemDimensions.height ..tradeltemMeasurements.additionalTradeltemDimensions.width</p>			

Date	Ver #	Description of Change	Author
<p><u>The following attributes are becoming arrays to allow multiple values</u></p> <p>tradeltemInformation.regulatedTradeltemModule.regulatoryInformation.regulationLevelCodeReference</p> <p><u>The following nodes are being added</u></p> <p>tradeltemInformation.alcoholInformationModule.alcoholInformation.originOfWineCode</p> <p><u>The following nodes are being moved</u></p> <p>[for readability, tradeltemInformation.packagingInformationModule -> ..]</p> <p>..packaging.shippingContainerQuantity ..packaging.shippingContainerQuantityDescription ..packaging.shippingContainerTypeCode</p> <p>..packaging.numberofUnitInShippingContainer (repeating group) ..packaging.numberofUnitInShippingContainer.shippingContainerQuantity ..packaging.numberofUnitInShippingContainer.shippingContainerQuantityDescription ..packaging.numberofUnitInShippingContainer.shippingContainerTypeCode</p> <p><u>The following node is being moved and renamed</u></p> <p>brandDistributionTradeltemType salesInformationModule.salesInformation.brandDistributionTradeltemTypeCode</p>			
7/25/2022	3.1.20 Release Date 8/27/2022	August GDSN 2022 Changes Production 8/27/2022 Pre-Production 8/26/2022	P. Odle
<p><u>The following nodes are being added</u></p> <p>[for readability, tradeltemInformation.dairyFishMeatPoultryItemModule.dairyFishMeatPoultryInformation -> ..]</p> <p>..cheeseInformation.cheeseMoisturePercentage ..cheeseInformation.firmnessOfCheeseCode ..cheeseInformation.cheeseRipeningProcessCode</p> <p>..tradeltemInformation.lightingDeviceModule.lightBulbInformation.lightBeamTypeCode</p> <p>[for readability, tradeltemInformation.healthRelatedInformationModule.healthRelatedInformation -> ..]</p> <p>..nutritionalProgram/nutritionalProgramStatusCode</p>			

Date	Ver #	Description of Change	Author
5/20/2023	3.1.23 Release Date 5/20/2023	May GDSN 2023 Changes Production 5/20/2023 Pre-Production 5/12/2023	P. Odle

The May GDSN release has several changes and updates as outlined below.

For additional information please refer to:

<https://community.1worldsync.com/t5/IM-Participant-Dictionary/IM-8-37-May-2023-Participant-Dictionary-Valid-Values-and/ta-p/6557?attachment-id=735>

<https://community.1worldsync.com/t5/Details-for-May-2023/GDS-3-1-23-Large-GDSN-Release-Overview/ta-p/6319?attachment-id=643>

Node **additionalTradelItemClassificationCodeDescription** is being made language specific.

Old Format

```
"gDSNTradelItemClassification" : {
  "additionalTradelItemClassification" : [ {
    "additionalTradelItemClassificationValue" : [ {
      "additionalTradelItemClassificationCodeDescription" : "string",
      "additionalTradelItemClassificationCodeValue" : "string"
    } ]
  } ]
}
```

New Format

```
"gDSNTradelItemClassification" : {
  "additionalTradelItemClassification" : [ {
    "additionalTradelItemClassificationValue" : [ {
      "additionalTradelItemClassificationCodeDescription" : {
        "values" : [ {
          "value" : "string",
          "language" : "string"
        } ],
        "languageDefinition" : "string"
      },
      "additionalTradelItemClassificationCodeValue" : "string"
    } ]
  } ]
}
```

Node is being removed.

Old Format

```
"nonFoodCompulsoryAdditionalLabelInformation" : {
  "values" : [ {
    "value" : "string",
    "language" : "string"
  } ],
  "languageDefinition" : "string"
},
```

Date	Ver #	Description of Change	Author
<p>Node healthRelatedInformationModule.healthRelatedInformation.healthClaimCode moved to productInformationDetail.claimDetail.claimTypeCode.</p> <p>Node healthRelatedInformationModule.healthRelatedInformation.healthClaimDescription moved to productInformationDetail.claimDescription.</p> <p><u>Old Format</u> => Parent is healthRelatedInformationModule.healthRelatedInformation</p> <pre data-bbox="124 555 496 929"> "healthClaimCode": { "values": ["string"], "valueDefinition": "string" }, "healthClaimDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, </pre> <p><u>New Format</u></p> <pre data-bbox="124 1014 638 1995"> "productionInformationModule": { "produceInformationDetail": [{ "claimDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "claimDetail": [{ "claimElementCode": { "value": "string", "valueDefinition": "string" }, "claimMarkedOnPackage": { "value": "string", "valueDefinition": "string" }, "claimTypeCode": { "value": "string", "valueDefinition": "string" }, "isClaimRegulated": { "value": "string", "valueDefinition": "string" }] }] } </pre>			

Date	Ver #	Description of Change	Author
<p>Node batteryInformationModule.batteryMaterials.materialWeight now supports multiple values.</p> <p><u>Old Format</u></p> <pre data-bbox="124 436 534 593">"materialWeight": { "value": "string", "qual": "string", "qualDefinition": "string" }</pre> <p><u>New Format</u></p> <pre data-bbox="124 683 534 929">"materialWeight": { "values": [{ "value": "string", "qual": "string" }], "qualDefinition": "string" }</pre>			
<p>Node healthWellnessPackagingMarkingModule.healthWellnessPackagingMarking.packagingMarkedFreeFromCode moved to productInformationDetail.claimDetail.claimTypeCode</p> <p><u>Old Format</u></p> <p>Parent is healthWellnessPackagingMarkingModule.healthWellnessPackagingMarking</p> <pre data-bbox="124 1265 566 1388">"packagingMarkedFreeFromCode": { "values": ["string"], "valueDefinition": "string" },</pre> <p><u>New Format</u></p> <pre data-bbox="124 1478 614 2027">"productionInformationModule": { "produceInformationDetail": [{ "claimDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }], "claimDetail": [{ "claimElementCode": { "value": "string", "valueDefinition": "string" }, "claimMarkedOnPackage": { "value": "string", "valueDefinition": "string" } }] }</pre>			

Date	Ver #	Description of Change	Author
		<pre> "valueDefinition": "string" }, "countrySubdivisionCode": { "values": ["string"] } }], "materialPercentage": "string", "materialThreadCount": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "materialTreatment": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "materialWeight" : { "values" : [{ "value" : "string", "qual" : "string" }], "qualDefinition" : "string" } }, "materialStatement": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "tradeItemMaterialDesignationDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" } },] },], }, </pre>	

Date	Ver #	Description of Change	Author
		<p>Node nutritionalInformationModule.nutritionalClaim moved to productInformationModule.productInformationDetail.claimDescription.</p> <p>Node nutritionalInformationModule.nutritionalClaimDetail moved to productInformationModule.productInformationDetail.claimDetail.</p> <p><u>Old Format</u></p> <pre> "nutritionalClaim": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "nutritionalClaimDetail": [{ "claimMarkedOnPackage": { "value": "string", "valueDefinition": "string" }, "isClaimRegulated": { "value": "string", "valueDefinition": "string" }, "nutritionalClaimNutrientElementCode": { "value": "string", "valueDefinition": "string" }, "nutritionalClaimTypeCode": { "value": "string", "valueDefinition": "string" } }] </pre> <p><u>New Format</u></p> <pre> "productionInformationModule": { "produceInformationDetail": [{ "claimDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "claimDetail": [{ "claimElementCode": { "value": "string", "valueDefinition": "string" }, "claimMarkedOnPackage": { "value": "string", "valueDefinition": "string" } }] </pre>	

Date	Ver #	Description of Change	Author
		<pre> "languageDefinition": "string" }, "sizeDimension": { "values": { "value": "string", "qual": "string" } }, "qualDefinition": "string" }, "sizeSystemCode": { "values": ["string"], "valueDefinition": "string" }, "sizeTermDescription": { "values": { "value": "string", "language": "string" } }, "languageDefinition": "string" }, "sizeTypeCode": { "value": "string", "valueDefinition": "string" } }], "sizeGroupcode": { "value": "string", "valueDefinition": "string" } }, </pre>	
		<p>Node tradeltemMeasurementsModuleGroup.tradeltemMeasurementsModule.tradeltemMeasurements.tradeltemNonpackagedSize is being moved to tradeltemSizeModule.nonPackagedSizeDimension</p> <p><u>Old Format</u></p> <pre> "tradeltemNonpackagedSize": [{ "descriptiveSizeDimension": { "values": [{ "value": "string", "language": "string" }] }, "languageDefinition": "string" }, "sizeDimension": { "value": "string", "qual": "string", "qualDefinition": "string" }, "sizeSystemCode": { </pre>	

Date	Ver #	Description of Change	Author
		<pre> "value": "string", "valueDefinition": "string" }, "sizeTermDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "sizeTypeCode": { "value": "string", "valueDefinition": "string" } }], </pre> <p><u>New Format</u></p> <pre> "tradelItemSizeModule": { "nonPackagedSizeDimension": [{ "descriptiveSizeDimension": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }], "sizeDimension": { "values": [{ "value": "string", "qual": "string" }], "qualDefinition": "string" }, "sizeSystemCode": { "values": ["string"], "valueDefinition": "string" }, "sizeTermDescription": { "values": [{ "value": "string", "language": "string" }], "languageDefinition": "string" }, "sizeTypeCode": { "value": "string", "valueDefinition": "string" } }], "sizeGroupcode": { </pre>	

Date	Ver #	Description of Change	Author
		<pre>"value": "string", "valueDefinition": "string" } },</pre>	