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**1WorldSync Content1 Web Services  
Product Search Model Schema Guide**

Version 3.1.6.10

**REVISION HISTORY**

| <b>Date</b>        | <b>Ver #</b> | <b>Description of Change</b>   | <b>Author</b> |
|--------------------|--------------|--|---------------|
| March 15, 2016     | 3.0          | MjR3 Compliant JSON  | K. Tratt      |
| March 31, 2016     | 3.0r1        | MjR3 Compliant Model Schema<br>Schema updated to reflect corrections in attributes and groups  | K. Tratt      |
| April 26, 2016     | 3.1          | Changed for RDD (Relationship Dependent Data)  | K. Tratt      |
| June 24, 2016      | 3.1.2        | Added new attribute InBoxCubeDimension (Volume)  | K. Tratt      |
| October 25, 2016   | 3.1.4        | Changes to fetch model no changes to search  | K. Tratt      |
| January 11, 2017   | 3.1.4        | Changes to fetch model no changes to search  | K. Tratt      |
| April 18, 2017     | 3.1.4.7      | Added changes for cursor mark processing   | K. Tratt      |
| September 20, 2017 | 3.1.6        | Changing Attributes and structures for GDSN 3.1.3  | K. Tratt      |
| October 20, 2017   | 3.1.6.1      | Changes to add all AVPs and reorganization of RDD AVPs. These changes mostly affect the fetch model  | K. Tratt      |
| October 9, 2018    | 3.1.6.10     | Changes to remove the following attributes due to changes in GDSN<br>tradeltemInformation/tradeltemMeasurementsModule/tradeltemMeasurements/additionalTradeltemDimensions/depth<br>tradeltemInformation/tradeltemMeasurementsModule/tradeltemMeasurements/additionalTradeltemDimensions/height<br>tradeltemInformation/tradeltemMeasurementsModule/tradeltemMeasurements/additionalTradeltemDimensions/width | K. Tratt      |

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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: a 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](mailto: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 Product Search Model

This is the fetch model which details the structure of the JSON returned by a Content1 Product Search API call. To obtain sample JSON please use our Content1 Developers tool kit which can be found at

<https://marketplace.api.1worldsync.com/api/>

```
{
  "numOfRows" : "string",
  "responseCode" : "string",
  "responseMessage" : "string",
  "responseType" : "string",
  "nextCursorMark" : "string",
  "totalNumOfResults" : "string",
  "results" : [ {
    "item" : {
      "itemDefinitions" : {
        "definitions" : [ {
          "values" : [ {
            "languageValues" : [ {
              "language" : "string",
              "description" : "string"
            } ],
            "code" : "string"
          } ],
          "name" : "string",
          "type" : "string"
        } ]
      },
      "gDSNTradeItemClassification" : {
        "additionalTradeItemClassification" : [ {
          "additionalTradeItemClassificationValue" : [ {
            "additionalTradeItemClassificationCodeDescription" : "string",
            "additionalTradeItemClassificationCodeValue" : "string"
          } ]
        } ]
      },
      "isTradeItemAConsumerUnit" : "string",
      "itemIdentificationInformation" : {
        "informationProvider" : [ {
          "informationProviderId" : "string",
          "informationProviderIdType" : {
            "value" : "string",
            "valueDefinition" : "string"
          }
        },
        "informationProviderName" : "string",
        "isPrimary" : "string"
      },
      "itemIdentifier" : [ {
        "isPrimary" : "string",
        "itemId" : "string",
        "itemIdType" : {
          "value" : "string",
          "valueDefinition" : "string"
        }
      },
      "itemReferenceIdInformation" : {
        "itemReferenceId" : "string"
      }
    } ],
  },
}
```

```

"productName" : {
  "values" : [ {
    "value" : "string",
    "language" : "string"
  } ],
  "languageDefinition" : "string"
},
"targetMarket" : {
  "value" : "string",
  "valueDefinition" : "string"
}
},
"productCategory" : [ {
  "productCategoryCodes" : [ {
    "productCategoryCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "productCategoryComponent" : {
      "value" : "string",
      "valueDefinition" : "string"
    }
  } ],
  "productCategoryScheme" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
} ],
"targetMarket" : [ {
  "targetMarketCountryCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
} ],
"thirdPartyContent" : "string",
"tradeItemInformation" : [ {
  "allergenInformationModuleGroup" : [ {
    "allergenInformationModule" : {
      "allergenRelatedInformation" : [ {
        "allergen" : [ {
          "levelOfContainmentCode" : {
            "value" : "string",
            "valueDefinition" : "string"
          }
        } ]
      } ]
    } ]
  } ]
} ],
"certificationInformationModule" : {
  "certificationInformation" : [ {
    "additionalCertificationOrganisationIdentifier" : [ {
      "informationProviderId" : "string",
      "informationProviderIdType" : {
        "value" : "string",
        "valueDefinition" : "string"
      }
    } ]
  } ],
  "additionalPartyIdentificationTypeCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
}

```

```

    },
    "additionalPartyIdentificationValue" : "string",
    "certification" : [ {
      "certificateIssuanceDateTime" : "string",
      "certificationAssessmentDateTime" : "string",
      "certificationEffectiveEndDateTime" : "string",
      "certificationEffectiveStartDateTime" : "string",
      "certificationIdentification" : "string",
      "certificationValue" : "string",
      "referencedFileInformation" : [ {
        "contentDescription" : {
          "values" : [ {
            "value" : "string",
            "language" : "string"
          } ],
          "languageDefinition" : "string"
        },
        "fileCreationProgram" : {
          "values" : [ "string" ]
        },
        "fileEffectiveEndDateTime" : "string",
        "fileEffectiveStartDateTime" : "string",
        "fileFormatDescription" : {
          "values" : [ {
            "value" : "string",
            "language" : "string"
          } ],
          "languageDefinition" : "string"
        },
        "fileFormatName" : "string",
        "fileLanguageCode" : {
          "values" : [ "string" ],
          "valueDefinition" : "string"
        },
        "fileName" : "string",
        "fileOptimalViewerName" : {
          "values" : [ "string" ]
        },
        "fileOriginCountryCode" : {
          "values" : [ "string" ],
          "valueDefinition" : "string"
        },
        "fileVersion" : "string",
        "isPrimaryFile" : "string",
        "referencedFileTypeCode" : {
          "value" : "string",
          "valueDefinition" : "string"
        },
        "uniformResourceIdentifier" : "string"
      } ]
    } ],
    "certificationAgency" : "string",
    "certificationOrganisationIdentifier" : "string",
    "certificationStandard" : "string"
  } ]
},
"dietInformationModule" : {
  "dietInformation" : [ {
    "dietTypeInformation" : [ {
      "dietCertification" : [ {

```

```

    "certification" : [ {
      "referencedFileInformation" : [ {
        "fileFormatDescription" : {
          "values" : [ {
            "value" : "string",
            "language" : "string"
          } ],
          "languageDefinition" : "string"
        },
        "fileFormatName" : "string",
        "fileVersion" : "string"
      } ]
    } ],
    "dietTypeCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    }
  } ],
  } ],
},
"foodAndBeverageIngredientModule" : [ {
  "ingredientStatement" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  }
} ],
"placeOfItemActivityModule" : {
  "importClassification" : [ {
    "importClassificationCountrySubdivisionRegionOfOrigin" : {
      "values" : [ "string" ]
    },
    "importClassificationTypeCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "importClassificationValue" : "string",
    "statisticalReportingMeasurement" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    }
  } ],
  "placeOfProductActivity" : {
    "countryOfOrigin" : [ {
      "countryCode" : {
        "value" : "string",
        "valueDefinition" : "string"
      }
    } ],
    "productAcivityDetails" : [ {
      "productActivityRegionDescription" : {
        "values" : [ {
          "value" : "string",
          "language" : "string"
        } ],
        "languageDefinition" : "string"
      }
    } ]
  }
} ]

```



```

    },
    "productActivityTypeCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    }
  } ]
}
},
"propellantInformationModule" : {
  "propellantInformation" : {
    "doesTradeItemContainPropellant" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "flammableAerosolContainmentCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "flammableGasWeight" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    }
  }
},
"publicationTitleRatingModule" : {
  "publicationTitleRating" : [ {
    "hasParentalAdvisorySticker" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "ratingContentDescriptorCode" : {
      "values" : [ "string" ],
      "valueDefinition" : "string"
    },
    "titleRatingCodeReference" : { }
  } ]
},
"referencedFileDetailInformationModule" : {
  "referencedFileHeader" : [ {
    "fileEffectiveEndDateTime" : "string",
    "fileEffectiveStartDateTime" : "string",
    "fileName" : "string",
    "fileVersion" : "string",
    "isPrimaryFile" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
  },
  "referencedFileDetail" : {
    "canFileStream" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "fileAspectRatio" : "string",
    "fileColourSchemeCode" : {
      "value" : "string",
      "valueDefinition" : "string"
    },
    "fileContentInformation" : {
      "fileCameraPerspective" : {

```

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    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  }
},
"filePixelHeight" : "string",
"filePixelWidth" : "string",
"filePrintHeight" : {
  "values" : [ {
    "value" : "string",
    "qual" : "string"
  } ],
  "qualDefinition" : "string"
},
"filePrintWidth" : {
  "values" : [ {
    "value" : "string",
    "qual" : "string"
  } ],
  "qualDefinition" : "string"
},
"fileResolutionDescription" : {
  "values" : [ {
    "value" : "string",
    "language" : "string"
  } ],
  "languageDefinition" : "string"
},
"fileSize" : {
  "values" : [ {
    "value" : "string",
    "qual" : "string"
  } ],
  "qualDefinition" : "string"
},
"fileUsageInformation" : {
  "canFilesBeEdited" : {
    "value" : "string",
    "valueDefinition" : "string"
  },
  "fileCopyrightDescription" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  },
  "fileDisclaimerInformation" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  },
  "fileRecommendedUsageDescription" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  }
}

```

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    } ],
    "languageDefinition" : "string"
  },
  "fileUsageRestriction" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  },
  "intendedPublicationCountryCode" : {
    "values" : [ "string" ],
    "valueDefinition" : "string"
  },
  "isTalentReleaseOnFile" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
},
"isFileBackgroundTransparent" : {
  "value" : "string",
  "valueDefinition" : "string"
}
},
"referencedFileTypeCode" : {
  "value" : "string",
  "valueDefinition" : "string"
},
"uniformResourceIdentifier" : "string"
} ]
},
"tradeItemDescriptionModule" : {
  "tradeItemDescriptionInformation" : [ {
    "additionalTradeItemDescription" : {
      "values" : [ {
        "value" : "string",
        "language" : "string"
      } ],
      "languageDefinition" : "string"
    },
    "brandNameInformation" : {
      "brandName" : "string"
    },
    "regulatedProductName" : {
      "values" : [ {
        "value" : "string",
        "language" : "string"
      } ],
      "languageDefinition" : "string"
    }
  } ]
},
"tradeItemMeasurementsModuleGroup" : [ {
  "tradeItemMeasurementsModule" : {
    "tradeItemMeasurements" : {
      "additionalTradeItemDimensions" : [ {
        "dimensionTypeCode" : {
          "value" : "string",
          "valueDefinition" : "string"
        }
      } ]
    }
  }
} ]

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    } ],
    "depth" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "diameter" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "height" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "inBoxCubeDimension" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "netContentStatement" : {
      "values" : [ {
        "value" : "string",
        "language" : "string"
      } ],
      "languageDefinition" : "string"
    },
    "pegMeasurements" : [ {
      "pegHoleNumber" : "string",
      "pegHoleTypeCode" : {
        "value" : "string",
        "valueDefinition" : "string"
      },
      "pegHorizontal" : {
        "value" : "string",
        "qual" : "string",
        "qualDefinition" : "string"
      },
      "pegVertical" : {
        "value" : "string",
        "qual" : "string",
        "qualDefinition" : "string"
      }
    } ],
    "tradeItemCompositionDepth" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "tradeItemCompositionWidth" : {
      "value" : "string",
      "qual" : "string",
      "qualDefinition" : "string"
    },
    "tradeItemNonpackagedSize" : [ {
      "descriptiveSizeDimension" : {
        "values" : [ {
          "value" : "string",
          "language" : "string"
        } ]
      }
    } ]
  } ]

```

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    } ],
    "languageDefinition" : "string"
  },
  "sizeDimension" : {
    "value" : "string",
    "qual" : "string",
    "qualDefinition" : "string"
  },
  "sizeSystemCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  },
  "sizeTermDescription" : {
    "values" : [ {
      "value" : "string",
      "language" : "string"
    } ],
    "languageDefinition" : "string"
  },
  "sizeTypeCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
} ],
"tradeItemOrientation" : [ {
  "orientationPreferenceSequence" : "string",
  "orientationTypeCode" : {
    "value" : "string",
    "valueDefinition" : "string"
  }
} ],
"width" : {
  "value" : "string",
  "qual" : "string",
  "qualDefinition" : "string"
}
}
} ]
} ],
"tradeItemSynchronisationDatesGroup" : [ {
  "tradeItemSynchronisationDates" : {
    "lastChangeDateTime" : "string"
  }
} ],
"tradeItemUnitDescriptorCode" : {
  "value" : "string",
  "valueDefinition" : "string"
}
}
} ]
}

```