

Developer Tutorial on NIMBLE APIs

Introduction

This tutorial will walk you through the simple steps to use the REST APIs in NIMBLE to publish a product to the company's catalog and search products.

We will use the NIMBLE test environment for these APIs as they are currently updated with the latest release.

Server URL : <http://nimble-staging.salzburgresearch.at>

Step 1 : Login using Identity Service

Login using the POST request to get the access_token. This access_token is required to authorize secured API requests in NIMBLE.

API :

<http://nimble-staging.salzburgresearch.at/identity/swagger-ui.html#!/identity-controller/loginUserUsingPOST>

Parameters :

```
{
  "password": "pass",
  "username": "dileepa.jayakody@salzburgresearch.at"
}
```

Response :

```
{
  "username": "dileepa.jayakody@salzburgresearch.at",
  "firstname": "Dileepa",
  "lastname": "Jayakody",
  "email": "dileepa.jayakody@salzburgresearch.at",
  "userID": 42035,
  "companyID": "52498",
  "companyName": {
    "en": "Dileepa & Co Pvt Ltd"
  },
  "accessToken":
  "eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXZWQ0LXBkZWF0LXV1X01qU2JxX2QwMmtZM2NteXJheUpXeE93MmlZIn0.eyJqdGkiOiIwOWQwYTEwOS05MWMxLTQzZGQtYTE0Yilm",
  "showWelcomeInfo": false
}
```

Step 2 : Publishing a product using Catalog Service

Step 2.1

Before publishing a product, you need to know the catalog ID to which you need to publish a new product.

API :

<http://nimble-staging.salzburgresearch.at/catalog/swagger-ui.html#!/catalogue-controller/getAllCatalogueIdsForPartyUsingGET>

Parameters :

- **partyId** : 52498 (This is the companyID in the response in Step 1)
- **Authorization** :
"eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICIxYnNrM09PZkNzdWFOZXV1X01qU2JxX2QwMmtZM2NteXJheUpXeE93MmlZIn0.eyJqdGkiOiIxOWQwYTEwOS05MWMxLTQzZGQtYTE0Yi1m"

Response : An array of all the catalog IDs in your company

```
[  
  "default"  
]
```

Step 2.2

You can get additional information of the catalog ID with below API.

API :

<http://nimble-staging.salzburgresearch.at/catalog/swagger-ui.html#!/catalogue-controller/getCatalogueFromIdUsingGET>

Parameters:

- **partyId** : 52498 (This is the companyID in the response in Step 1)
- **Id** : default (This is the catalog ID in the response in Step 2.1)
- **Standard** : ub1
- **Authorization**:
"eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICIxYnNrM09PZkNzdWFOZXV1X01qU2JxX2QwMmtZM2NteXJheUpXeE93MmlZIn0.eyJqdGkiOiIxOWQwYTEwOS05MWMxLTQzZGQtYTE0Yi1m"

Response : The details of the full catalog including all the products in the catalog.

In this response you will find the UUID of the catalog. This UUID is required to publish a product (catalog line) to this particular catalog identified by the UUID.

Eg:

```
"id": "default",  
  "uuid": "6eac337c-8a14-4579-bb87-b55942cc2739",
```

Step 2.3

Now you can publish a catalog line (product) to the above catalog.

API:

<http://nimble-staging.salzburgresearch.at/catalog/swagger-ui.html#!/catalogue-line-controller/addCatalogueLineUsingPOST>

Parameters:

- **catalogUuid** : 6eac337c-8a14-4579-bb87-b55942cc2739 (The uuid of the catalog retrieved in step 3)
- **Catalog Line Json** : The serialized json object of your product (make sure the product ID is unique, as highlighted in the sample below)

Sample Catalog Line JSON Object :

```
{ "id": "667018ef-ab8c-44f1-a629-a34a78375cec", "hjid": null, "orderableUnit": null, "freeOfChargeIndicator": false, "warrantyValidityPeriod": { "startDate": null, "startTime": null, "endDate": null, "endTime": null, "durationMeasure": { "value": 0, "unitCode": "month(s)", "hjid": null }, "hjid": null }, "warrantyInformation": [], "requiredItemLocationQuantity": { "price": { "priceAmount": { "value": null, "currencyID": "EUR" }, "baseQuantity": { "value": 1, "unitCode": "item(s)", "hjid": null } }, "applicableTerritoryAddress": [], "allowanceCharge": [], "minimumQuantity": null, "priceOption": [], "goodsItem": { "id": "667018ef-ab8c-44f1-a629-a34a78375cec", "item": { "name": { "value": "API Test Product", "languageID": "en" } }, "description": [ { "value": "test API product 1", "languageID": "en" } ], "itemSpecificationDocumentReference": [], "productImage": [], "additionalItemProperty": [], "manufacturerParty": { "name": [ { "description": [ { "value": "Dileepa & Co Pvt Ltd", "languageID": "en" } ], "partyName": [ { "name": { "value": "Dileepa & Co Pvt Ltd", "languageID": "en" } } ], "partyIdentification": [ { "id": "52498" } ], "industryClassificationCode": { "value": "Manufacturer", "name": "IndustryClassificationCode", "ppapCompatibilityLevel": 0, "preferredItemClassificationCode": [ ], "mostRecentItemsClassificationCode": [ { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#Flowerpot::FurnitureOntology:Flowerpot::product::1555319033886" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#HomeTextile::FurnitureOntology:HomeTextile::product::1555515079086" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#PieceOfFurniture::FurnitureOntology:Piece of furniture::product::1556870694652" }, { "value": "http://www.nimble-project.org/resource/eclass#0173-1#01-AAC346#006::eClass:Commercial kitchen equipment::product::1555320097075" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#CotDrawer::FurnitureOntology:Cot drawer::product::1555334125075" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#BedLinen::FurnitureOntology:Bed linen::product::1555334399026" }, { "value": "http://www.nimble-project.org/resource/eclass#0173-1#01-AGE763#001::eClass:Clothing and textile::product::1555319998094" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#Furniture::FurnitureOntology:Furniture::product::1557219315425" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#ButterflyDoor::FurnitureOntology:Butterfly door::product::1555320131916" }, { "value": "http://www.aidimme.es/FurnitureSectorOntology.owl#DrawingTable::FurnitureOntology:Drawing table::product::1557308140001" } ], "postalAddress": { "streetName": "Salzburg Research, Jakob Haringer Str, 5/3", "buildingNumber": "2B", "cityName": "Salzburg", "postalZone": "5020", "region": "Salzburg", "country": { "name": { "value": "Austria" } } }, "partyTaxScheme": [ { "taxScheme": { "taxTypeCode": { "value": "424566456787", "name": "VAT" } } } ], "contact": { "otherCommunication": [ ], "person": [ { "id": "42035", "firstName": "Dileepa", "familyName": "Jayakody", "role": [ ], "favouriteProductID": [ "103444", "313233", "89165" ], "contact": { "telephone": "", "electronicMail": "dileepa.jayakody@salzburgresearch.at", "otherCommunication": [ ] }, "roleItems": [ ], "favouriteProductIDs": [ { "item": "103444" }, { "item": "313233" }, { "item": "89165" } ] }, "certificate": [ ], "qualityIndicator": [ ], "ppapDocumentReference": [ ], "documentReference": [ ], "industrySector": [ { "value": "manufacturing\nfurniture", "languageID": "en" } ], "purchaseTerms": { "tradingTerms": [ ], "deliveryTerms": [ { "specialTerms": [ ], "deliveryLocation": { "address": { "country": { "name": { } } } } }, "paymentMeans": [ { "instructionNote": [ ] } ] }, "manufacturersItemIdentification": { "id": "667018ef-ab8c-44f1-a629-a34a78375cec" }, "catalogueDocumentReference": { "id": "6eac337c-8a14-4579-bb87-b55942cc2739", "documentType": null, "attachment": null }, "commodityClassification": [ { "itemClassificationCode": { "value": "http://w
```

```
www.aidimme.es/FurnitureSectorOntology.owl#Material", "name": "Material", "uri": "http://www.aidimme.es/FurnitureSectorOntology.owl#Material", "listID": "FurnitureOntology", "listURI": null, "natureCode": null, "cargoTypeCode": null, "hjid": ""}, "certificate": [], "dimension": [{"attributeID": "Length", "measure": {"value": null, "unitCode": null, "hjid": null}}, {"attributeID": "Width", "measure": {"value": null, "unitCode": null, "hjid": null}}, {"attributeID": "Height", "measure": {"value": null, "unitCode": null, "hjid": null}}], "transportationServiceDetails": null, "trackAndTraceDetails": {"eventURL": null, "masterURL": null, "productionProcessTemplate": null}, "lifeCyclePerformanceAssessmentDetails": {"lcpainput": null, "lcpaoutput": null}, "containingPackage": {"quantity": {"value": 1, "unitCode": "item(s)", "hjid": null}, "packagingTypeCode": {"value": "", "name": "", "uri": "", "listID": "", "listURI": ""}, "hjid": null}, "deliveryTerms": {"id": null, "estimatedDeliveryPeriod": {"startDate": null, "startTime": null, "endDate": null, "endTime": null, "durationMeasure": {"value": null, "unitCode": "hour(s)", "hjid": null}, "hjid": null}, "specialTerms": null, "incoterms": null, "amount": {"value": null, "currencyID": null}, "deliveryLocation": {"address": {"cityName": "", "region": "", "postalZone": "", "buildingNumber": "", "streetName": "", "country": {"name": {"value": null, "languageID": "es"}}}}, "hjid": null}}
```

Step 3 : Search a product using Indexing Service

You can now search the products using the Indexing Service.

API :

<http://nimble-staging.salzburgresearch.at/index/swagger-ui.html#/index-controller/selectItemUsingGET>

Parameters :

- `q: en_label:"API Test Product"` (your solr search query)

Note: There are more solr query parameters you can utilize to customize your query. Please refer the Swagger documentation

Response : Solr Search results

```
{
  "totalElements": 1,
  "totalPages": 1,
  "pageSize": 10,
  "currentPage": 0,
  "result": [
    {
      "uri": "390159",
      "code": null,
      "localName": "390159",
      "nameSpace": null,
      "languages": [
        "en"
      ],
      "label": {
        "en": "API Test Product"
      },
      "alternateLabel": null,
      "hiddenLabel": null,
      "description": {
        "en": "test API product 1"
      },
      "comment": null,
      "catalogueId": "6eac337c-8a14-4579-bb87-b55942cc2739",
      "applicableCountries": null,
      "freeOfCharge": false,
      "certificateType": null,
      "deliveryTime": {},
      "packageAmounts": {
        "item(s)": [
```

```

    1
  ]
},
"manufacturerId": "52498",
"manufactuerItemId": "667018ef-ab8c-44f1-a629-a34a78375cec",
"serviceType": null,
"supportedProductNature": null,
"supportedCargoType": null,
"emissionStandard": null,
"classificationUri": [
  "http://www.aidimme.es/FurnitureSectorOntology.owl#Material",
  "http://www.aidimme.es/FurnitureSectorOntology.owl#Product"
],
"stringValue": {},
"booleanValue": {},
"doubleValue": {},
"imgageUri": null,
"incoterms": null,
"minimumOrderQuantity": null,
"warrantyValidityPeriod": null,
"classification": [],
"manufacturer": {
  "uri": "52498",
  "code": null,
  "localName": null,
  "nameSpace": null,
  "languages": [
    "en"
  ],
  "label": null,
  "alternateLabel": null,
  "hiddenLabel": null,
  "description": null,
  "comment": null,
  "legalName": "Dileepa & Co Pvt Ltd",
  "brandName": {
    "en": "Dileepa & Co Pvt Ltd"
  },
  "origin": {
    "": "Austria"
  },
  "certificateType": null,
  "ppapComplianceLevel": 0,
  "ppapDocumentType": null,
  "trustScore": null,
  "trustRating": null,
  "trustTradingVolume": null,
  "trustSellerCommunication": null,
  "trustFullfillmentOfTerms": null,
  "trustDeliveryPackaging": null,
  "trustNumberOfTransactions": null,
  "trustNumberOfEvaluations": null,
  "id": "52498"
},
"customProperties": null,
"currency": [],
"price": {},
"deliveryTimeUnits": [],
"packageUnits": [
  "item(s)"
]
}
],
"facets": null
}

```