

Intelligent order management Creating a provider and a Power Automate Flow

Dynamics 365 FastTrack Architecture Insights Series

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Agenda

- Mappings
- · Creating a Provider
- · Creating a Power Automate Flow
- Activating the Provider
- Testing the Order Intake Flow
- Resources

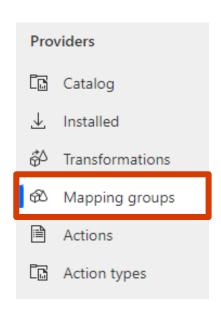


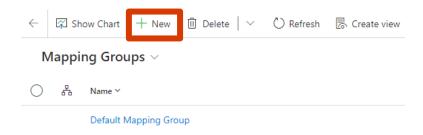
Mappings

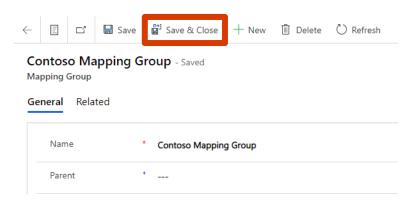


Power Query and Mappings

Mapping group



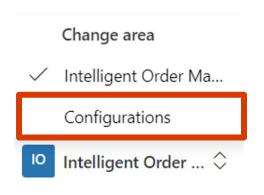


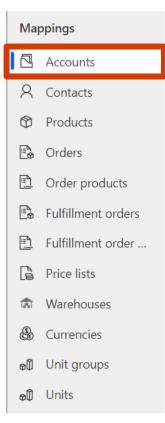


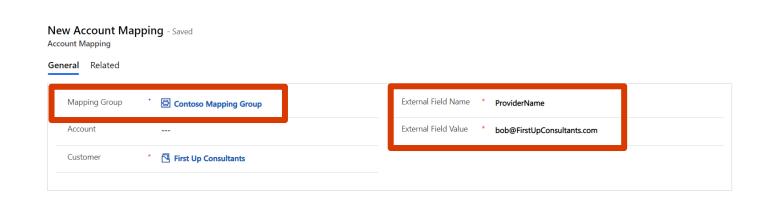


Power Query and Mappings

· Setting up mappings







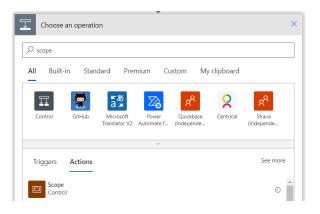


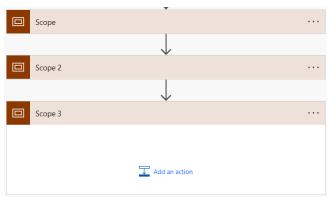
Creating a Provider and a Power Automate Flow

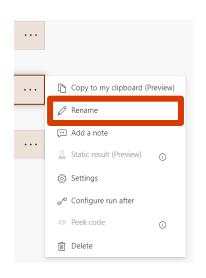


Power Automation – Try, Catch, Finally Structure

· Try, Catch, Finally





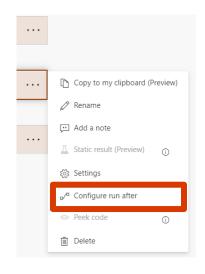


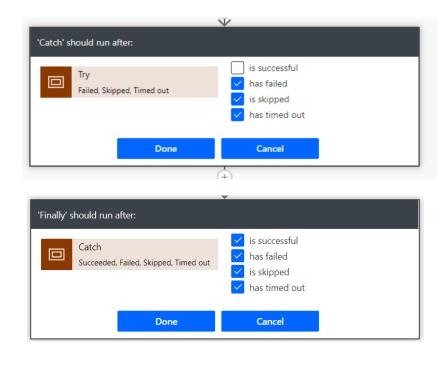


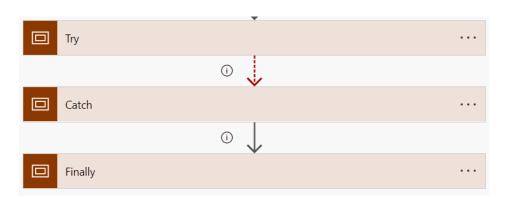


Power Automation – Try, Catch, Finally Structure

· Try, Catch, Finally



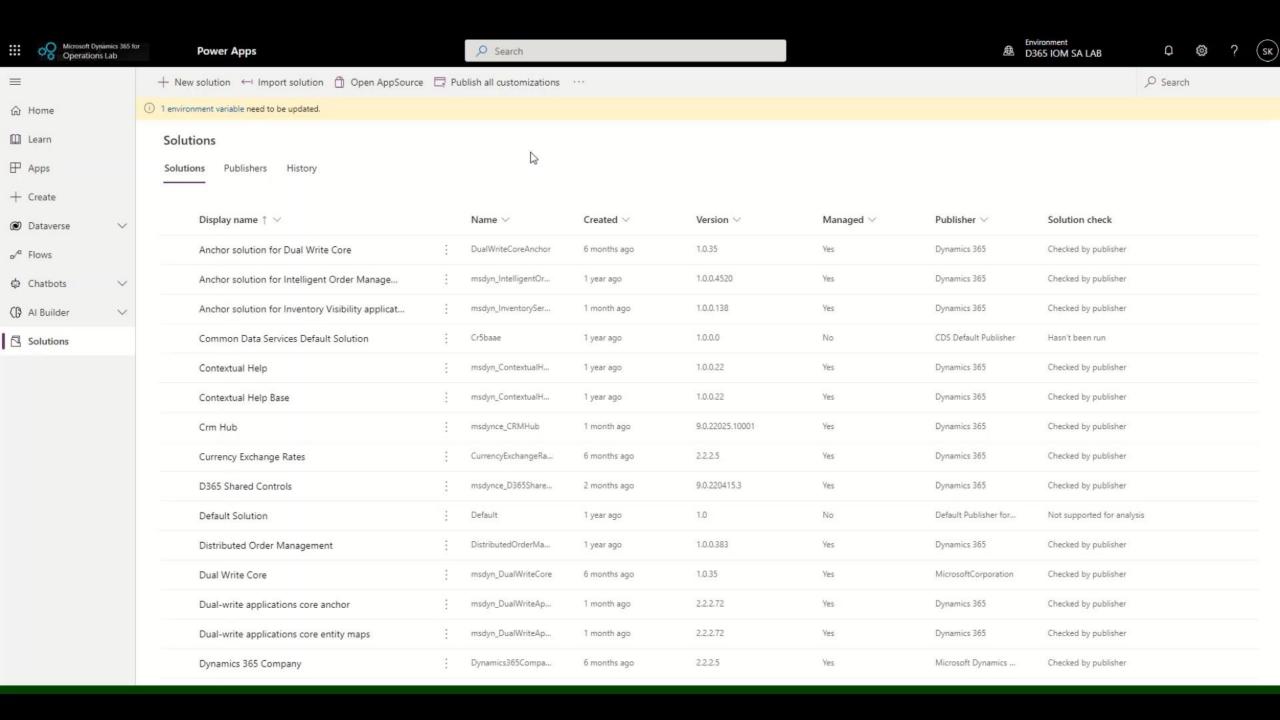






Demo – Create an IOM Provider Definition



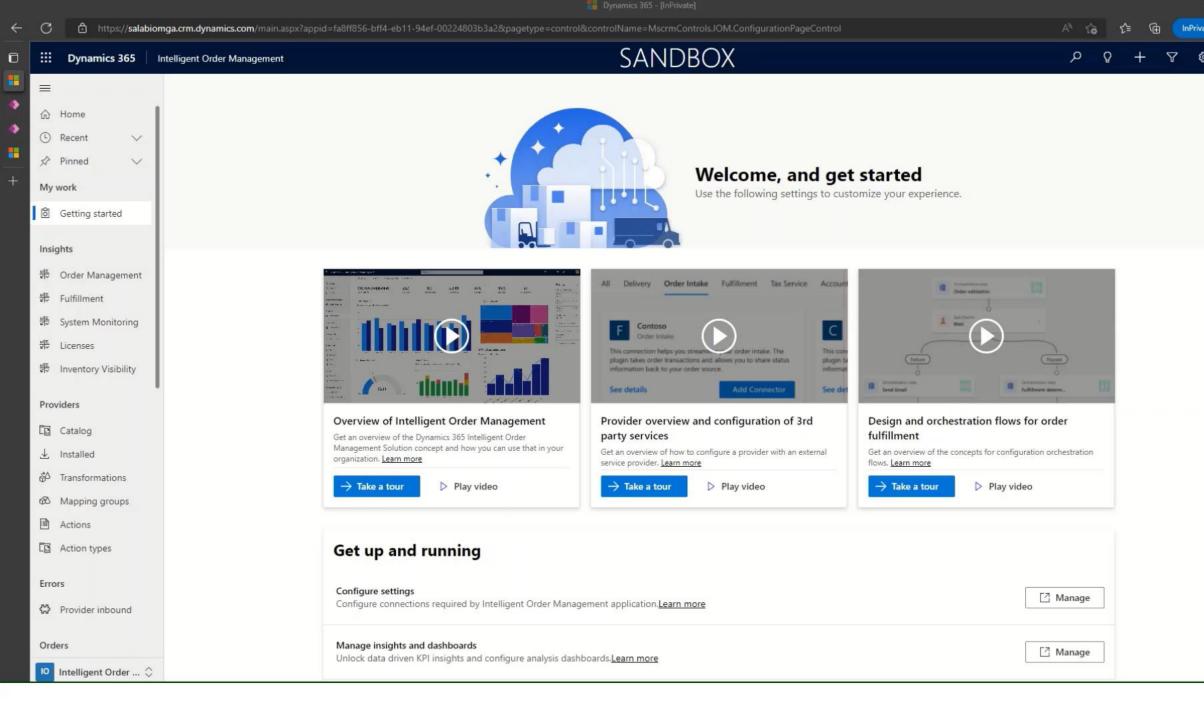


Demo – Create a Power Automate Flow



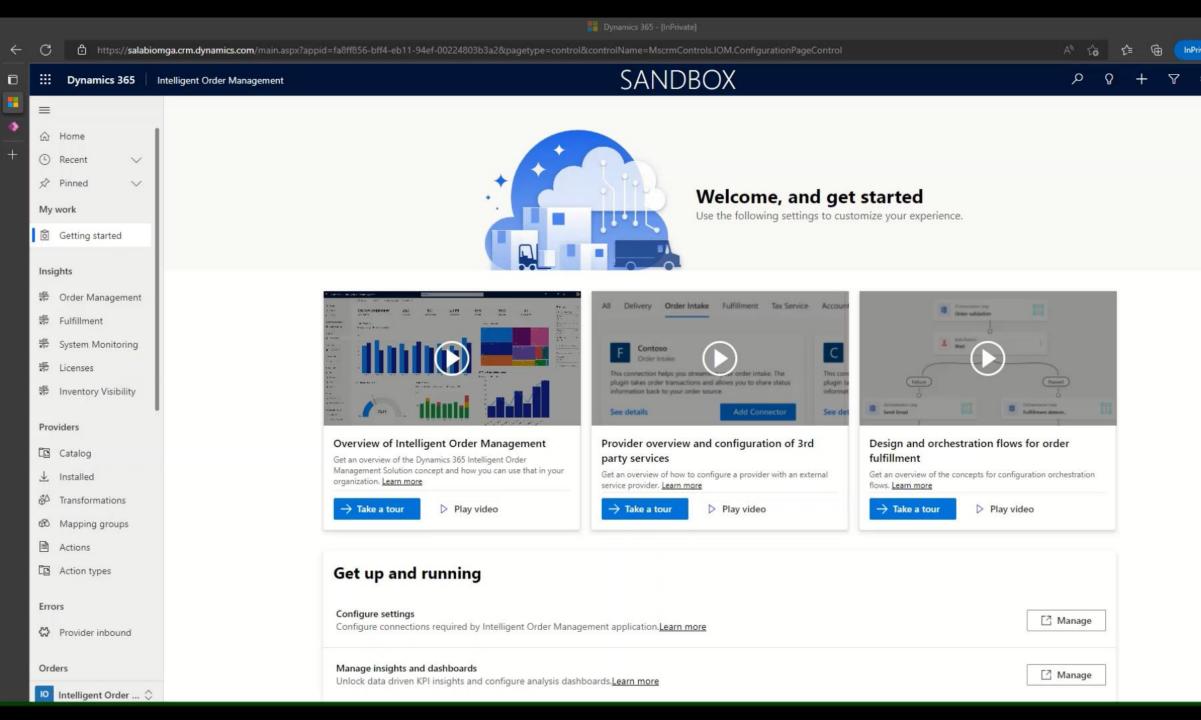
Demo – Add a Transformation and Power Automate Flow to the Provider





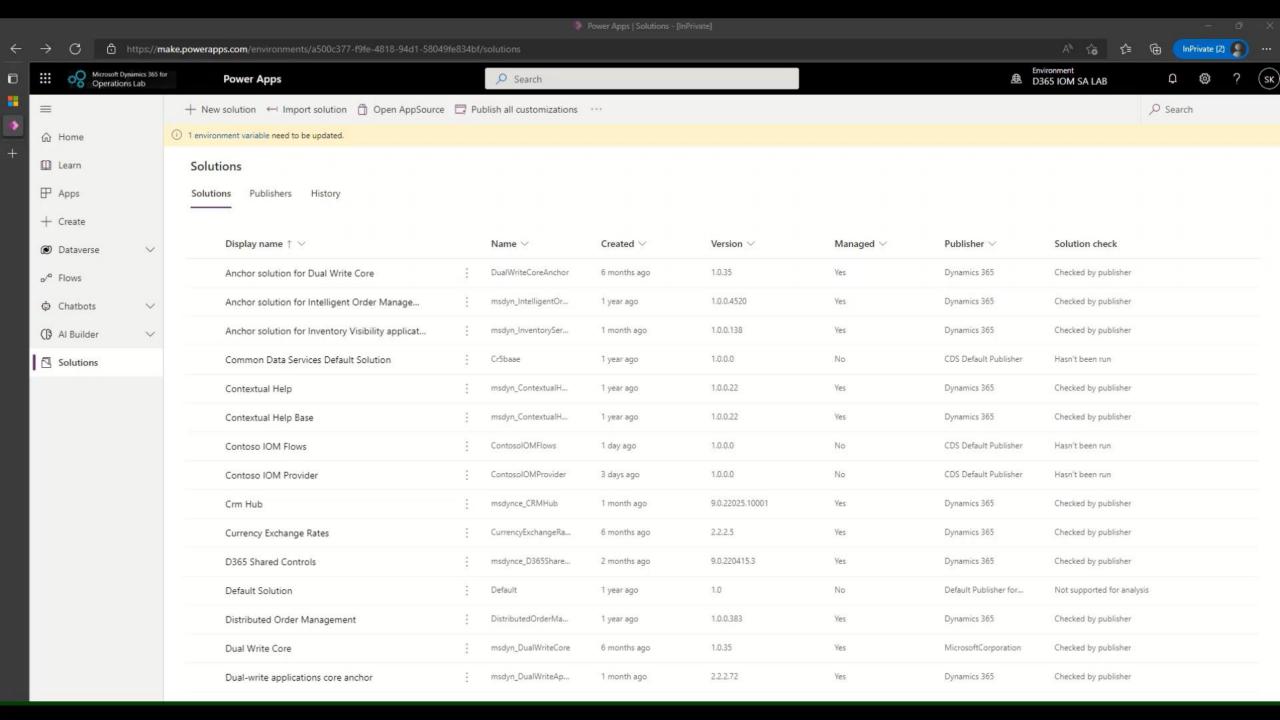
Demo – Add a Provider





Demo – Test the order intake provider



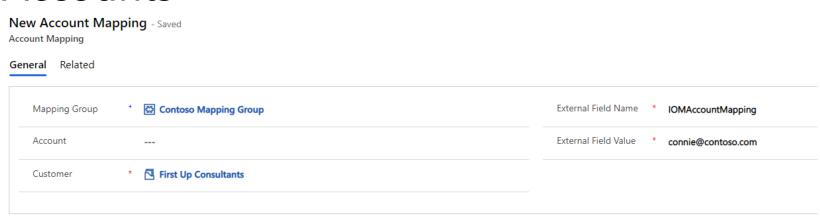


Resources

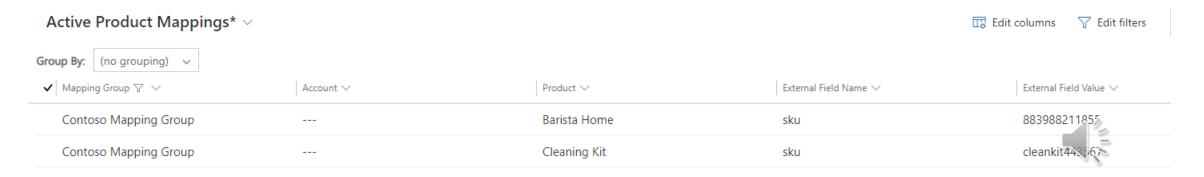


Resources - Mappings

Accounts



Products



Resources - Mappings

Price lists

Units

New Unit Mapping - Saved Unit Mapping

General Related





Resources - Transformation

```
shared ImportMappingKey = [
account = {
                                     ExternalRecordKey = [IOMAccountMapping = Source[billingAddress][email]]
                                     SelectedFields = {"accountid"}
     pricelevel = {
              ExternalRecordKey = [IOMPriceList = "ContosolOMPriceList"],
              SelectedFields = {"pricelevelid"}
     product = List.Distinct(List.Transform(Source[orderdetails], each
              ExternalRecordKey = [sku = _[sku]],
              SelectedFields = {"productid"}
     uom = List.Distinct(List.Transform(Source[orderdetails], each
              ExternalRecordKey = [unit = _[unit]],
              SelectedFields = {"uomid"}
         ]))
shared TransformSourceData =
let
leadtime = 5.
useWriteInProductEnabled = Source[useWriteInProductEnabled],
isDualWriteEnabled = Source[isDualWriteEnabled].
orderProducts = Source[orderdetails],
billingAddress = Source[billingAddress],
shippingAddress = Source[shippingAddress],
account = IOM.MapRecord(IOM.MappingTables[account], [IOMAccountMapping = Source[billingAddress][email]]),
pricelevel = IOM.MapRecord(IOM.MappingTables[pricelevel], [IOMPriceList = "ContosolOMPriceList"]),
orderheader = Record.FromTable
                       Table.SelectRows
                           Record.ToTable
                                    ordernumber = Text.From(Source[ordernumber]),
                                    #"customerid account@odata.bind" = "/accounts(" & Text.From(account[accountid]) & ")",
                                    #"pricelevelid@odata.bind" = "/pricelevels(" & Text.From(pricelevel[pricelevelid]) & ")",
billto city = Record.FieldOrDefault(billingAddress, "billtocity"),
billto stateorprovince = Record.FieldOrDefault(billingAddress, "billtostateorprovince").
billto country = Record.FieldOrDefault(billingAddress, "billtocountry"),
billto postalcode = Record.FieldOrDefault(billingAddress, "billtozip"),
```

```
shipto name = Record.FieldOrDefault(shippingAddress, "firstname") & " " & Record.FieldOrDefault(shippingAddress, "lastname"),
 shipto contactname = shipto name,
 shipto line1 = Record.FieldOrDefault(shippingAddress, "street1"),
 shipto line2 = Record.FieldOrDefault(shippingAddress, "street2"),
 shipto_city = Record.FieldOrDefault(shippingAddress, "shiptocity"),
shipto stateorprovince = Record.FieldOrDefault(shippingAddress, "shiptostateorprovince"),
shipto country = Record.FieldOrDefault(shippingAddress, "shiptocountry"),
shipto postalcode = Record.FieldOrDefault(shippingAddress, "shiptozip"),
emailaddress = Record.FieldOrDefault(shippingAddress, "email")
                          ), each [Value] <> null
orderlines = List.Transform(orderProducts, each
                      Record.FromTable
                          Table.SelectRows
                               Record.ToTable
 productdescription = if useWriteInProductEnabled = true
                   then if Record.HasFields(IOM.MapRecord(IOM.MappingTables[product], [sku = Record.FieldOrDefault(, "sku")]), "productid")
                    else if isDualWriteEnabled = false
                   then Text.From(Record.FieldOrDefault(, "sku"))
                    else null
     ispriceoverridden = true.
     #"productid@odata.bind" = "/products(" & IOM.MapRecord(IOM.MappingTables[product], [sku = Record.FieldOrDefault(, "sku")])[productid] & ")",
     #"uomid@odata.bind" = "/uoms(" & IOM.MapRecord(IOM.MappingTables[uom], [unit = Record.FieldOrDefault( , "unit")])[uomid] & ")",
     quantity = [quantity],
 quantityshipped = Record.FieldOrDefault( , "quantity shipped"),
       priceperunit = Decimal.From(Record.FieldOrDefault( , "base price")),
       baseamount = Decimal.From(Record.FieldOrDefault(_, "base_total")),
       tax = Decimal.From(Record.FieldOrDefault(_, "total_tax")),
       shipto name = Record.FieldOrDefault(orderheader, "shipto name"),
       shipto contactname = Record.FieldOrDefault(orderheader, "shiptocontact name"),
       shipto line1 = Record.FieldOrDefault(orderheader, "shipto line1"),
       shipto_line2 = Record.FieldOrDefault(orderheader, "shipto_line2"),
       shipto city = Record.FieldOrDefault(orderheader, "shipto city"),
       shipto stateorprovince = Record.FieldOrDefault(orderheader, "shipto stateorprovince"),
       shipto country = Record.FieldOrDefault(orderheader, "shipto country"),
       shipto postalcode = Record.FieldOrDefault(orderheader, "shipto postalcode")
                               ), each [Value] <> null
salesorder = Record.AddField(orderheader, "order details", orderlines)
```

in Text.FromBinary(Json.FromValue(salesorder));

Resources - Sample JSON Message

```
"useWriteInProductEnabled": true,
"isDualWriteEnabled": false,
"ordernumber": "ExternalContosoOrder025",
"billingAddress":
"billtocity": "BELLEVUE",
"billtostateorprovince": "WA",
"billtocountry": "US",
"billtozip": "98007",
"email": "connie@contoso.com"
"shippingAddress":
  "firstname": "Connie",
  "lastname": "Vrettos",
  "street1": "123 Coffee Street",
  "street2": "Suite 300",
  "shiptocity": "Redmond",
  "shiptostateorprovince": "WA",
  "shiptocountry": "US",
  "shiptozip": "98052",
  "email": "connie@contoso.com"
"orderdetails": [
  "sku": "883988211855",
  "unit": "each",
  "quantity": 11,
  "base price": 12.25,
  "base total": 134.75,
  "total tax": 20.21
  "sku": "cleankit443567",
  "unit": "each",
  "quantity": 21,
  "base_price": 20.00,
  "base_total": 420.00,
  "total_tax": 63.00
```



Resources

- · Intelligent Order Management -TechTalk
- · Dynamics 365 Intelligent Order Management | September 3, 2021 Microsoft Dynamics Blog
- · Intelligent Order Management Docs
- https://docs.microsoft.com/en-us/dynamics365/intelligent-order-management/
- Power Query
- https://docs.microsoft.com/en-us/powerquery-m/



Thank you





