

Oracle® MICROS Inventory Management
Master Data Web Services API
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Contents

Tables	5
Preface	6
Audience	6
Customer Support.....	6
Documentation.....	6
Revision History.....	6
1 Authentication	7
2 Security Considerations	8
3 Methods	9
4 Data Structures	10
MasterData.....	10
Unit	10
UnitConversion	10
ItemGroup.....	11
OverGroup.....	11
MajorGroup	11
Item	11
ItemCostCenterAssignment	12
Vendor	12
PriceQuote.....	12
PriceQuoteOffer	12
Customer	12
RecipeGroup.....	13
Recipe	13
RecipeIngredient	13
Result	13
5 Enumerations	14
ConversionOperation	14
CountInterval	14
OverGroupType.....	14
6 Error Codes	15
7 Validation Rules	16
8 WSDL	18

9 Code Template and Samples.....	19
Template.....	20
Code Sample 1.....	24
Code Sample 2.....	26

Tables

Table 1 – SOAP Header Parameters	7
Table 2 – ImportMasterDataDelta Parameters.....	9
Table 3 – DeactivateMasterDataDelta Parameters	9
Table 4 – MasterData Parameters	10
Table 5 – Unit Parameters	10
Table 6 – UnitConversion Parameters.....	10
Table 7 – ItemGroup Parameters	11
Table 8 – OverGroup Parameters.....	11
Table 9 – MajorGroup Parameters	11
Table 10 – Item Parameters.....	11
Table 11 – ItemCostCenterAssignment Parameters	12
Table 12 – Vendor Parameters.....	12
Table 13 – PriceQuote Parameters	12
Table 14 – PriceQuoteOffer Parameters	12
Table 15 – Customer Parameters.....	12
Table 16 – RecipeGroup Parameters.....	13
Table 17 – Recipe Parameters	13
Table 18 – RecipeIngredient Parameters.....	13
Table 19 – Result Parameters	13
Table 20 – ConversionOperation Parameters.....	14
Table 21 – CountInterval Parameters	14
Table 22 – OverGroupType Parameters.....	14
Table 23 – Error Codes.....	15
Table 24 – Validation Rules.....	16

Preface

This document describes the Oracle MICROS Inventory Management Master Data Web Services API.

Audience

This document is intended for customers who want to leverage the Inventory Management Master Data Web Services API.

Customer Support

To contact Oracle Customer Support, access the Support Portal at the following URL:
<https://iccp.custhelp.com/>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received and any associated log files
- Screenshots of each step you take

Documentation

Oracle MICROS product documentation is available on the Oracle Help Center at
<http://docs.oracle.com/en/industries/food-beverage/>

Revision History

Date	Description of Change
August 2016	Initial publication.
April 2017	Addressed missing methods, data structures, and enumerations.
October 2017	Security considerations.
October 2019	Added <i>Code Template and Samples</i> chapter.
March 2020	Updated WSDL.
June 2021	Updated WSDL.
August 2023	Updated guide title.

1 Authentication

SOAP Header

Allows authentication via user and password provided in the SOAP header. The password can be encrypted with the same algorithm used for the Portal Login page in the WEB application.

Table 1 – SOAP Header Parameters

Property	Type	Info
User	String	Username
Password	String	Password

Fixed Credentials

(Optional authentication mode)

Credentials to use for the POS Web Service can be hardcoded in web.config. In this case all calls are done by using predefined user (LoginUserName) with encrypted password (LoginEncryptedPassword).

2 Security Considerations

Whether authentication data is provided in SOAP header or Fixed Credentials are used, use the HTTPS protocol to protect data in transport.

3 Methods

ImportMasterDataDelta

Parameters

Table 2 – ImportMasterDataDelta Parameters

Name	Type	Null	Info
masterData	MasterData		MasterData structure

Return Value

Result

Description

Imports the given Master Data into the system without filling buffer tables and without a need for Automation Service job running in the background.

Validation

The Master Data import will perform data validation prior to performing the import and, if validation fails, return a Result with the Data Validation Exception error code and details regarding the validation failure in the message.

DeactivateMasterDataDelta

Parameters

Table 3 – DeactivateMasterDataDelta Parameters

Name	Type	Null	Info
masterData	MasterData		MasterData structure

Return Value

Result

Description

Deactivates the given Master Data in the system.

Validation

The method will perform data validation prior to performing the deactivation and, if validation fails, return a Result with the Data Validation Exception error code and details regarding the validation failure in the message. Besides the common validation done like when importing Master Data, existing business rules will be obeyed too – it is not possible to deactivate a record that have active “child” records. For example, it is not possible to deactivate OverGroup when there are active MajorGroup entries linked to it.

4 Data Structures

MasterData

Table 4 – MasterData Parameters

Property	Type	Null	Info
Units	Unit[]	Yes*	Array of Unit structures
ItemGroups	ItemGroup[]	Yes*	Array of ItemGroup structures
OverGroups	OverGroup[]	Yes*	Array of OverGroup structures
MajorGroups	MajorGroup[]	Yes*	Array of MajorGroup structures
Items	Item[]	Yes*	Array of Item structures
Vendors	Vendor[]	Yes*	Array of Vendor structures
PriceQuotes	PriceQuote[]	Yes*	Array of PriceQuote structures
Customers	Customer[]	Yes*	Array of Customer structures
RecipeGroups	RecipeGroup[]	Yes*	Array of RecipeGroup structures
Recipes	Recipe[]	Yes*	Array of Recipe structures

Yes* - at least one Array must be provided

Unit

Table 5 – Unit Parameters

Property	Type	Null	Info
Number	Int32		Unit number
Name	String		Unit name
OrderName	String		Unit Order name
Conversion	UnitConversion		Unit conversion information
Active	Boolean		Unit active or inactive

UnitConversion

Table 6 – UnitConversion Parameters

Property	Type	Null	Info
ToUnitNumber	Int32		Unit number of the Unit to convert to
Factor	Decimal		Conversion factor
Operation	ConversionOperation		Type of conversion operation to perform

ItemGroup

Table 7 – ItemGroup Parameters

Property	Type	Null	Info
Number	Int32		Item Group number
Name	String		Item Group name
MajorGroupNumber	Int32		Major Group number
Active	Boolean		Item Group active or inactive

OverGroup

Table 8 – OverGroup Parameters

Property	Type	Null	Info
Number	Int32		Over Group number
Name	String		Over Group name
Type	OverGroupType		Type of the Over Group
Active	Boolean		Over Group active or inactive

MajorGroup

Table 9 – MajorGroup Parameters

Property	Type	Null	Info
Number	Int32		Major Group number
Name	String		Major Group name
OverGroupNumber	Int32		Over Group number
TaxNumber	Int32		Major Group Tax number
Active	Boolean		Major Group active or inactive

Item

Table 10 – Item Parameters

Property	Type	Null	Info
Number	Int64		Item number
Name	String		Item name
UnitNumber	Int32		Unit number
ItemGroupNumber	Int32		Item Group number
CountInterval	CountInterval		Count Interval to use for the Item
CostCenterAssignments	ItemCostCenterAssignment[]	Yes	Array of Cost Centers the Item is linked/assigned to
Active	Boolean		Item active or inactive

ItemCostCenterAssignment

Table 11 – ItemCostCenterAssignment Parameters

Property	Type	Null	Info
CostCenterNumber	Int32		Cost Center Number

Vendor

Table 12 – Vendor Parameters

Property	Type	Null	Info
Number	Int32		Vendor number
Name	String		Vendor name
Currency	String	Yes	Currency (shortcut)
Phone	String	Yes	Vendor phone number
ContactName	String	Yes	Contact name
Active	Boolean		Vendor active or inactive

PriceQuote

Table 13 – PriceQuote Parameters

Property	Type	Null	Info
VendorNumber	Int32		Vendor number
ItemNumber	Int64		Item number
UnitNumber	Int32		Unit number
VendorItemNumber	String		Vendor Item number / identifier
Offers	PriceQuoteOffer[]		Array of Price Quote Offers
Active	Boolean		Price Quote active or inactive

PriceQuoteOffer

Table 14 – PriceQuoteOffer Parameters

Property	Type	Null	Info
Price	Decimal		Offer price
ValidFrom	DateTime		Offer price valid from date

Customer

Table 15 – Customer Parameters

Property	Type	Null	Info
Number	Int32		Customer number
Phone	String	Yes	Customer phone number
Active	Boolean		Customer active or inactive

RecipeGroup

Table 16 – RecipeGroup Parameters

Property	Type	Null	Info
Number	Int32		Recipe Group number
Name	String		Recipe Group name
Active	Boolean		Recipe Group active or inactive

Recipe

Table 17 – Recipe Parameters

Property	Type	Null	Info
Number	Int32		Recipe number
Name	String		Recipe name
RecipeGroupNumber	Int32		Recipe Group number
MajorGroupNumber	Int32		Major Group number
Ingredients	RecipeIngredient[]		Array of Recipe Ingredients
Active	Boolean		Recipe active or inactive

RecipeIngredient

Table 18 – RecipeIngredient Parameters

Property	Type	Null	Info
ItemNumber	Int64		Ingredient Item number
UnitNumber	Int32		Ingredient Unit number
Quantity	Decimal		Ingredient quantity

Result

Table 19 – Result Parameters

Property	Type	Null	Info
Success	Boolean		Whether the request could be processed successfully
ErrorCode	Int32		Error code
Message	String		Error message

5 Enumerations

ConversionOperation

Table 20 – ConversionOperation Parameters

Value	Info
Multiply	ToUnit Qty has to be multiplied by the given factor to get the Qty in Unit $UnitQty = ToUnitQty * Factor$
Divide	ToUnit Qty has to be divided by the given factor to get the Qty in Unit $UnitQty = ToUnitQty / Factor$

Example:

Unit = Case 24 Bottles

ToUnit = Bottle

Multiply Factor given as 0.041666... (= 1/24)

Divide Factor given as 24

CountInterval

Table 21 – CountInterval Parameters

Value	Info
Daily	Counted daily
Weekly	Counted weekly
Monthly	Counted monthly
Yearly	Counted yearly
OnDemand	Counted on demand
Never	Not counted

OverGroupType

Table 22 – OverGroupType Parameters

Value	Info
COS	COS Over Group
Expense	Expense Over Group

6 Error Codes

Table 23 – Error Codes

Code	Meaning
1000	General Exception
1001	Connectivity Exception
1002	Data Validation Exception

7 Validation Rules

Table 24 – Validation Rules

Rule	Validation Rule Description	Error Text
Unit Check	<ol style="list-style-type: none"> 1. Unit.Number cannot be zero or longer than 20 digits 2. Unit.Name and Unit.OrderName cannot be empty or longer than 60 characters 3. Unit.Conversion.Factor cannot be zero 4. Unit.Conversion.ToUnitNumber cannot be zero 	Supplied Unit data invalid! (plus invalid data)
Major Group Check	<ol style="list-style-type: none"> 1. MajorGroup.Number cannot be zero or longer than 20 digits 2. MajorGroup.Name cannot be empty or longer than 60 characters 3. MajorGroup.TaxNumber not existing in database 4. It is not allowed to change OverGroup of existing MajorGroup to OverGroup of different Type 	Supplied Major Group data invalid! (plus invalid data)
Over Group Check	<ol style="list-style-type: none"> 1. MajorGroup.Number cannot be zero or longer than 20 digits 2. MajorGroup must exist in MasterData structure or database 3. OverGroup.Number cannot be zero or longer than 20 digits 4. OverGroup.Name cannot be empty or longer than 60 characters 	Supplied Over Group data invalid! (plus invalid data)
Item Group Check	<ol style="list-style-type: none"> 1. OverrGroup.Number cannot be zero or longer than 20 digits 2. OverGroup must exist in MasterData structure or database 3. ItemGroup.Number cannot be zero or longer than 20 digits 4. ItemGroup.Name cannot be empty or longer than 60 characters 5. It is not allowed to change MajorGroup of existing ItemGroup to MajorGroup of different Type 	Supplied Item Group data invalid! (plus invalid data)
Items Check	<ol style="list-style-type: none"> 1. Item.Number cannot be zero or longer than 20 digits 2. Item.UnitNumber cannot be zero or longer than 20 digits 3. Item.ItemGroupNumber cannot be zero or longer than 20 digits 4. ItemGroup must exist in MasterData structure or database 5. Item.Name cannot be empty or longer than 60 characters 6. Item.CountInterval is valid 7. It is not allowed to change UnitNumber of existing Item to UnitNumber of Unit with different base Unit 8. It is not allowed to change ItemGroup of existing Item to ItemGroup of different Type 	Supplied Item data invalid! (plus invalid data)

Rule	Validation Rule Description	Error Text
Vendors Check	<ol style="list-style-type: none"> 1. Vendor.Number cannot be zero or longer than 20 digits 2. Vendor.Name cannot be empty or longer than 60 characters 3. Vendor.Phone cannot be longer than 60 characters 4. Vendor.ContactName cannot be longer than 60 characters 5. Vendor.Currency cannot be longer than 10 characters 	Supplied Vendor data invalid! (plus invalid data)
VPI (Price Quote) Check	<ol style="list-style-type: none"> 1. VPI.VendorNumber cannot be zero or longer than 20 digits 2. VPI.ItemNumber cannot be zero or longer than 20 digits 3. VPI.UnitNumber cannot be zero or longer than 20 digits 4. VPI.VendorItemNumber cannot be empty or longer than 20 characters 5. Vendor must exist in MasterData structure or database 6. Item must exist in MasterData structure or database 7. Unit must exist in MasterData structure or database 	Supplied Price Quote data invalid! (plus invalid data)
Customer Numbers Check	<ol style="list-style-type: none"> 1. CustomerNumber.Number cannot be zero or longer than 30 digits 2. CustomerNumber.Phone cannot be longer than 30 characters 	Supplied Customer Number data invalid! (plus invalid data)
Recipe Group Check	<ol style="list-style-type: none"> 1. RecipeGroup.Number cannot be zero or longer than 20 digits 2. RecipeGroup.Name cannot be empty or longer than 60 characters 	Supplied Recipe Group data invalid! (plus invalid data)
Recipes Check	<ol style="list-style-type: none"> 1. Recipe.Number cannot be zero or longer than 20 digits 2. Recipe.Name cannot be empty or longer than 60 characters 3. RecipeGroup must exist in MasterData structure or database 4. MajorGroup must exist in MasterData structure or database 	Supplied Recipe data invalid! (plus invalid data)
Ingredients Check	<ol style="list-style-type: none"> 1. Ingredient.ItemNumber cannot be zero 2. Ingredient.UnitNumber cannot be zero 3. Ingredient.Quantity cannot be zero 4. Item must exist in MasterData structure or database 	Supplied Recipe Ingredients data invalid! (plus invalid data)

8 WSDL

Click [Download WSDL](#) to download the Web Services Description Language file.

9 Code Template and Samples

This chapter contains a code template that you can use as a starting point for developing API calls and it contains code samples.

Template

Use the following template as a starting point for developing your API. Replace the placeholder values with the values for your environment.

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://webservices.micros.com/inventory_management/"
xmlns:mdd="http://webservices.micros.com/inventory_management/MDD
ataStructuresDelta"
xmlns:dat="http://webservices.micros.com/inventory_management/Dat
aStructures">
  <soapenv:Header>
    <inv:MDWebServiceHeader>
      <!--Optional:-->
      <inv:User?></inv:User>
      <!--Optional:-->
      <inv:Password?></inv:Password>
    </inv:MDWebServiceHeader>
  </soapenv:Header>
  <soapenv:Body>
    <inv:DeactivateMasterDataDelta>
      <!--Optional:-->
      <mdd:MasterData>
        <!--Optional:-->
        <mdd:Units>
          <!--Zero or more repetitions:-->
          <mdd:Unit>
            <dat:Number?></dat:Number>
            <!--Optional:-->
            <dat:Name?></dat:Name>
            <!--Optional:-->
            <dat:OrderName?></dat:OrderName>
            <!--Optional:-->
            <dat:Conversion>
              <dat:ToUnitNumber?></dat:ToUnitNumber>
              <dat:Factor?></dat:Factor>
              <dat:Operation?></dat:Operation>
            </dat:Conversion>
            <mdd:Active?></mdd:Active>
          </mdd:Unit>
        </mdd:Units>
        <!--Optional:-->
        <mdd:MajorGroups>
          <!--Zero or more repetitions:-->
          <mdd:MajorGroup>
            <mdd:Number?></mdd:Number>
            <!--Optional:-->
            <mdd:Name?></mdd:Name>
            <mdd:TaxNumber?></mdd:TaxNumber>
            <mdd:OverGroupNumber?></mdd:OverGroupNumber>
            <mdd:Active?></mdd:Active>
          </mdd:MajorGroup>
        </mdd:MajorGroups>
        <!--Optional:-->
        <mdd:OverGroups>
```

```

        <!--Zero or more repetitions:-->
        <mdd:OverGroup>
            <mdd:Number>?</mdd:Number>
            <!--Optional:-->
            <mdd:Name>?</mdd:Name>
            <mdd:Type>?</mdd:Type>
            <mdd:Active>?</mdd:Active>
        </mdd:OverGroup>
    </mdd:OverGroups>
    <!--Optional:-->
    <mdd:ItemGroups>
        <!--Zero or more repetitions:-->
        <mdd:ItemGroup>
            <mdd:Number>?</mdd:Number>
            <!--Optional:-->
            <mdd:Name>?</mdd:Name>
            <mdd:MajorGroupNumber>?</mdd:MajorGroupNumber>
            <mdd:Active>?</mdd:Active>
        </mdd:ItemGroup>
    </mdd:ItemGroups>
    <!--Optional:-->
    <mdd:Items>
        <!--Zero or more repetitions:-->
        <mdd:Item>
            <dat:Number>?</dat:Number>
            <!--Optional:-->
            <dat:Name>?</dat:Name>
            <dat:UnitNumber>?</dat:UnitNumber>
            <dat:ItemGroupNumber>?</dat:ItemGroupNumber>
            <dat:CountInterval>?</dat:CountInterval>
            <!--Optional:-->
            <dat:CostCenterAssignments>
                <!--Zero or more repetitions:-->
                <dat:ItemCostCenterAssignment>
                    <!--Optional:-->
                    <dat:CostCenterNumber>?</dat:CostCenterNumber>
                    </dat:ItemCostCenterAssignment>
                </dat:CostCenterAssignments>
            <mdd:Active>?</mdd:Active>
        </mdd:Item>
    </mdd:Items>
    <!--Optional:-->
    <mdd:Vendors>
        <!--Zero or more repetitions:-->
        <mdd:Vendor>
            <dat:Number>?</dat:Number>
            <!--Optional:-->
            <dat:Name>?</dat:Name>
            <!--Optional:-->
            <dat:Currency>?</dat:Currency>
            <!--Optional:-->
            <dat:Phone>?</dat:Phone>
            <!--Optional:-->
            <dat:ContactName>?</dat:ContactName>
            <mdd:Active>?</mdd:Active>
        </mdd:Vendor>
    </mdd:Vendors>

```

```

</mdd:Vendors>
<!--Optional:-->
<mdd:PriceQuotes>
  <!--Zero or more repetitions:-->
  <mdd:PriceQuote>
    <dat:VendorNumber>?</dat:VendorNumber>
    <dat:ItemNumber>?</dat:ItemNumber>
    <dat:UnitNumber>?</dat:UnitNumber>
    <!--Optional:-->
    <dat:VendorItemNumber>?</dat:VendorItemNumber>
    <!--Optional:-->
    <dat:Offers>
      <!--Zero or more repetitions:-->
      <dat:PriceQuoteOffer>
        <dat:Price>?</dat:Price>
        <dat:ValidFrom>?</dat:ValidFrom>
      </dat:PriceQuoteOffer>
    </dat:Offers>
    <mdd:Active>?</mdd:Active>
  </mdd:PriceQuote>
</mdd:PriceQuotes>
<!--Optional:-->
<mdd:Customers>
  <!--Zero or more repetitions:-->
  <mdd:Customer>
    <dat:Number>?</dat:Number>
    <!--Optional:-->
    <dat:Phone>?</dat:Phone>
    <mdd:Active>?</mdd:Active>
  </mdd:Customer>
</mdd:Customers>
<!--Optional:-->
<mdd:RecipeGroups>
  <!--Zero or more repetitions:-->
  <mdd:RecipeGroup>
    <dat:Number>?</dat:Number>
    <!--Optional:-->
    <dat:Name>?</dat:Name>
    <mdd:Active>?</mdd:Active>
  </mdd:RecipeGroup>
</mdd:RecipeGroups>
<!--Optional:-->
<mdd:Recipes>
  <!--Zero or more repetitions:-->
  <mdd:Recipe>
    <dat:Number>?</dat:Number>
    <!--Optional:-->
    <dat:Name>?</dat:Name>

<dat:RecipeGroupNumber>?</dat:RecipeGroupNumber>
  <!--Optional:-->
  <dat:Ingredients>
    <!--Zero or more repetitions:-->
    <dat:RecipeIngredient>
      <dat:ItemNumber>?</dat:ItemNumber>
      <dat:UnitNumber>?</dat:UnitNumber>
      <dat:Quantity>?</dat:Quantity>

```

```
        </dat:RecipeIngredient>
    </dat:Ingredients>
    <mdd:MajorGroupNumber>?</mdd:MajorGroupNumber>
    <mdd:Active>?</mdd:Active>
  </mdd:Recipe>
</mdd:Recipes>
</mdd:MasterData>
</inv:DeactivateMasterDataDelta>
</soapenv:Body>
</soapenv:Envelope>
```

Code Sample 1

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://webservices.micros.com/inventory_management/"
xmlns:mdd="http://webservices.micros.com/inventory_management/MDD
ataStructuresDelta"
xmlns:dat="http://webservices.micros.com/inventory_management/Dat
aStructures">
  <soapenv:Header>
    <inv:MDWebServiceHeader>
      <!--Optional:-->
      <inv:User>user</inv:User>
      <!--Optional:-->
      <inv>Password>*****</inv>Password>
    </inv:MDWebServiceHeader>
  </soapenv:Header>
  <soapenv:Body>
    <inv:ImportMasterDataDelta>
      <mdd:MasterData>
        <mdd:Units>
          <mdd:Unit>
            <dat:Number>2369700</dat:Number>
            <dat:Name>PACK X 400 GR</dat:Name>
            <dat:OrderName>PACK X 400 GR</dat:OrderName>
            <dat:Conversion>
              <dat:ToUnitNumber>1</dat:ToUnitNumber>
              <dat:Factor>.4</dat:Factor>
              <dat:Operation>Divide</dat:Operation>
            </dat:Conversion>
            <mdd:Active>1</mdd:Active>
          </mdd:Unit>
        </mdd:Units>
        <mdd:OverGroups>
          <mdd:OverGroup>
            <mdd:Number>100</mdd:Number>
            <mdd:Name>Food</mdd:Name>
            <mdd:Type>COS</mdd:Type>
            <mdd:Active>1</mdd:Active>
          </mdd:OverGroup>
        </mdd:OverGroups>
        <mdd:ItemGroups>
          <mdd:ItemGroup>
            <mdd:Number>2557781</mdd:Number>
            <mdd:Name>Meat</mdd:Name>
          </mdd:ItemGroup>
        </mdd:ItemGroups>
      </mdd:MasterData>
    </inv:ImportMasterDataDelta>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        <mdd:Active>1</mdd:Active>
    </mdd:ItemGroup>
</mdd:ItemGroups>
<mdd:MajorGroups>
    <mdd:MajorGroup>
        <mdd:Number>2557781</mdd:Number>
        <mdd:Name>Frozen</mdd:Name>
        <mdd:TaxNumber>0</mdd:TaxNumber>
        <mdd:OverGroupNumber>100</mdd:OverGroupNumber>
        <mdd:Active>1</mdd:Active>
    </mdd:MajorGroup>
</mdd:MajorGroups>
<mdd:Items>
    <mdd:Item>
        <dat:Number>10720333</dat:Number>
        <dat:Name>Beef</dat:Name>
        <dat:UnitNumber>1</dat:UnitNumber>

<dat:ItemGroupNumber>2557781</dat:ItemGroupNumber>
        <dat:CountInterval>OnDemand</dat:CountInterval>
        <mdd:Active>1</mdd:Active>
    </mdd:Item>
</mdd:Items>
<mdd:Vendors>
    <mdd:Vendor>
        <dat:Number>100</dat:Number>
        <dat:Name>Cloud Vendor</dat:Name>
        <dat:Currency/>
        <dat:Phone/>
        <dat:ContactName/>
        <mdd:Active>1</mdd:Active>
    </mdd:Vendor>
</mdd:Vendors>
</mdd:MasterData>
</inv:ImportMasterDataDelta>
</soapenv:Body>
</soapenv:Envelope>

```

Code Sample 2

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:inv="http://webservices.micros.com/inventory_management/"
xmlns:mdd="http://webservices.micros.com/inventory_management/MDD
ataStructuresDelta"
xmlns:dat="http://webservices.micros.com/inventory_management/Dat
aStructures">
  <soapenv:Header>
    <inv:MDWebServiceHeader>
      <!--Optional:-->
      <inv:User>user</inv:User>
      <!--Optional:-->
      <inv>Password>*****</inv>Password>
    </inv:MDWebServiceHeader>
  </soapenv:Header>
  <soapenv:Body>
    <inv:ImportMasterDataDelta>
      <mdd:MasterData>
        <mdd:PriceQuotes>
          <mdd:PriceQuote>
            <dat:VendorNumber>100</dat:VendorNumber>
            <dat:ItemNumber>10720333</dat:ItemNumber>
            <dat:UnitNumber>2369700</dat:UnitNumber>

<dat:VendorItemNumber>2122728</dat:VendorItemNumber>
            <dat:Offers>
              <dat:PriceQuoteOffer>
                <dat:Price>70</dat:Price>
                <dat:ValidFrom>2019-10-
07T00:00:00</dat:ValidFrom>
              </dat:PriceQuoteOffer>
            </dat:Offers>
            <mdd:Active>1</mdd:Active>
          </mdd:PriceQuote>
        </mdd:PriceQuotes>
      </mdd:MasterData>
    </inv:ImportMasterDataDelta>
  </soapenv:Body>
</soapenv:Envelope>
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