

Oracle® MICROS Inventory Management
Point-of-Sale Web Services API
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Preface

This document describes the Oracle MICROS Inventory Management Point-of-Sale Web Services API.

Audience

This document is intended for customers who want to leverage the Inventory Management Point-of-Sale 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	<ul style="list-style-type: none">• Initial publication.
April 2017	<ul style="list-style-type: none">• Addressed missing methods, data structures, and enumerations.
October 2017	<ul style="list-style-type: none">• Security considerations.
September 2020	<ul style="list-style-type: none">• Updated WSDL.
August 2023	<ul style="list-style-type: none">• Updated guide title.

1 Authentication

SOAP Header

Table 1 - SOAP Header Parameters

Name	Type	Info
User	String	Username
Password	String	Password
[The following section is not visible to customers.]		
Company	String	For Inventory Management 9.1 and later, in a multi-tenant environment, enter the name of the organization.

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.

Fixed Credentials

(Optional authentication mode)

Credentials to use for the POS Web Service are hardcoded in web.config. Web Service calls do not require authentication.

2 Security Considerations

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

3 Images

Images are not served by the Web Service directly; instead the Web Service returns corresponding image identifiers that can be used as a parameter to retrieve the images via regular HTTP requests from a separate GetImage.ashx HTTP handler.

Example

Returned Recipe data contains image:

```
...  
<Image1>Pasta/PenneCarbonara.jpg</Image1>
```

```
...
```

Image can be retrieved via regular HTTP request:

```
http://web.service.url/POSWebService/GetImage.ashx?Pasta/PenneCarbonara.jpg
```

4 Methods

GetBarcodeList

Parameters

Table 2 - GetBarcodeList Parameters

Name	Type	Null	Info
item	ItemID		Item Identifier

Return Value

BarcodeListResult

Description

Returns a list of barcodes assigned to the given Item.

GetCostCenterList

Parameters

None

Return Value

CostCenterListResult

Description

Returns a list of Cost Centers.

GetRecipe

Parameters

Table 3 - GetRecipe Parameters

Name	Type	Null	Info
recipe	RecipeID		Recipe identifier
costCenter	CostCenterID	Yes	Cost Center identifier for COS calculation
verbose	Boolean		Whether to return full or basic Recipe information

Return Value

RecipeResult

Description

Returns information about the given Recipe.

The COS are calculated for the given Cost Center. If no Cost Center is specified, the Cost Center from the RecipeID parameter (RecipeID.Link.CostCenter) is used. If this isn't specified either (Recipe identified via Number), the authenticated user's default Cost Center is used instead.

For details which information is included in basic and full modes, please check the Recipe structure definition. Properties with the [Full] tag in the Info section are only filled if "verbose" is set to true.

GetItem

Parameters

Table 4 - GetItem Parameters

Name	Type	Null	Info
item	ItemID		Item identifier
costCenter	CostCenterID	Yes	Cost Center identifier for COS calculation
verbose	Boolean		Whether to return full or basic Item information

Return Value

ItemResult

Description

Returns information about the given Item.

The COS are calculated for the given Cost Center. If no Cost Center is specified, the Cost Center from the ItemID parameter (ItemID.Link.CostCenter) is used. If this isn't specified either (Item identified via Number), the authenticated user's default Cost Center is used instead.

For details which information is included in basic and full modes, please check the Item structure definition. Properties with the [Full] tag in the Info section are only filled if "verbose" is set to true.

GetItemList

Parameters

None

Return Value

ItemListResult

Description

Returns a list of Items.

GetOpenOrderList

Parameters

Table 5 - GetOpenOrderList Parameters

Name	Type	Null	Info
item	ItemID		Item identifier
costCenter	CostCenterID	Yes	Cost Center identifier to filter Open Orders by

Return Value

OpenOrderListResult

Description

Returns a list of Open Purchase Orders containing the given Item. Can optionally be filtered by the given Cost Center. If no Cost Center is specified, Open Purchase Orders from all Cost Centers are returned.

GetStockOnHandList

Parameters

Table 6 - GetStockOnHandList Parameters

Name	Type	Null	Info
item	ItemID		Item identifier
costCenter	CostCenterID		Cost Center identifier to filter SOH entries by

Return Value

StockOnHandListResult

Description

Returns the Stock on Hand for the given Item.

Can optionally be filtered by the given Cost Center. If no Cost Center is specified, the SOH values for all Cost Centers are returned.

GetVendor

Parameters

Table 7 – GetVendor Parameters

Name	Type	Null	Info
vendor	VendorID		Vendor identifier

Return Value

VendorResult

Description

Returns information about the given Vendor.

SendTransactionList

Parameters

Table 8 - SendTransactionList Parameters

Name	Type	Null	Info
transactionId	String	Yes	Unique identifier for the set of Transactions. Maximum length: 60 characters (excess will be cut off).
posSequence	In32		Unique identification of the sending POS system. Must match the POS Sequence number of the related POS IFC that is configured in our system.
transactionData	Transaction[]		Array of Transaction structures.

Return Value

TransactionResult

Description

Imports the given POS Transaction data into the system. If a transaction identifier is supplied, the import will be aborted if a transaction list with the same ID had already been successfully imported before.

SendMenuItemList**Parameters****Table 9 - SendMenuItemList Parameters**

Name	Type	Null	Info
posSequence	Int32		Unique identification of the sending POS system. Must match the POS Sequence number of the related POS IFC that is configured in our system.
menuItemDetail	MenuItem[]		Array of MenuItem structures.

Return Value

MenuItemResult

Description

Imports the given POS Menu Item data into the system.

GetUserList**Parameters**

None

Return Value

UserListResult

Description

Returns a list of all existing Users.

GetCostCentersVisibleToUser**Parameters****Table 10 – GetCostCentersVisibleToUser Parameters**

Name	Type	Null	Info
user	Int32		User identifier.

Return Value

CostCentersVisibleToUserResult

Description

Returns a list of Cost Centers visible to the given User.

GetReceiptList

Parameters

Table 11 - GetReceiptList Parameters

Name	Type	Null	Info
vendor	VendorTextID		Vendor EU/Tax identifier.
receiptDate	DateTime		Receipt date.

Return Value

ReceiptListResult

Description

Returns a list of booked, but not yet invoiced Receipts up to and including the given Receipt date.

InvoiceReceipt

Parameters

Table 12 – InvoiceReceipt Parameters

Name	Type	Null	Info
receiptToInvoiceData	ReceiptToInvoice[]		Array of ReceiptToInvoice structures.

Return Value

InvoiceReceiptResult

Description

Creates one or more approved Invoices according to the given Invoice and Receipt information.

GetVendorList

Parameters

Table 13 – GetVendorList Parameters

Name	Type	Null	Info
			External Invoice Processing status filter:
extInvoiceSatus	ExtInvoiceStatus	Yes	<ul style="list-style-type: none">• Null: All Vendors / no filtering.• True: Vendors with ExtInvProc enabled & Tax ID set.• False: Vendors with ExtInvProc disabled & Tax ID set.• All: Vendors with Tax ID set.

Return Value

VendorListResult

Description

Returns a list of Vendors ordered by Vendor name and filtered by the given External Invoice Processing status filter.

SetVendorInvoiceProcessing

Parameters

Table 14 – SetVendorInvoiceProcessing Parameters

Name	Type	Null	Info
vendor	VendorID		Vendor Identifier.
isEInvoiceLabel	Boolean		Whether External Invoice Processing should be enabled.

Return Value

VendorInvoiceProcessingResult

Description

Enables or disables the given Vendor's External Invoice Processing flag.

5 Data Structures

Barcode

Table 15 – Barcode Parameters

Property	Type	Null	Info
Barcode	String		Barcode data

Category

Table 16 – Category Parameters

Property	Type	Null	Info
Group	String		Category Group
Name	String		Category Name

CostCenter

Table 17 – CostCenter Parameters

Property	Type	Null	Info
Name	String		Cost Center Name
Number	Int64		Cost Center Number
LocationID	Int64	Yes	Location identifier

CostCenterID

Table 18 – CostCenterID Parameters

Property	Type	Null	Info
Number	Int64	Yes	Cost Center Number
LocationID	Int64	Yes	Location identifier
RvcNumber	Int64	Yes	POS Revenue Center Number

Must either set [Number] or [LocationID , RvcNumber]

Ingredient

Table 19 – Ingredient Parameters

Property	Type	Null	Info
Name	String		Ingredient name
Position	Int32		Position number
PotQty	Quantity		POT Quantity & Unit
ActQty	Quantity		ACT Quantity & Base Unit
Weight	Decimal		Weight in kilograms
Text	String	Yes	
Loss	Decimal		Loss in % (1.00 = 100%)
Loss2	Decimal		2 nd Loss in % (1.00 = 100%)
AveragePrice	Decimal		Average Price
COS	Decimal		Cost of Sales
Exclude Depletion	Boolean		Exclude from depletion
Preparation Type	String	Yes	Preparation type

Property	Type	Null	Info
Note	String	Yes	
Recipe	Recipe	Yes	[Full] Recipe structure, filled if ingredient is a Recipe
Item	Item	Yes	[Full] Item structure, filled if ingredient is an Item
Nutrients	NutrientIngredient[]	Yes	[Full] Array of NutrientIngredient structures

Item

Table 20 – Item Parameters

Property	Type	Null	Info
Name	String		Item Name
Number	Int64	Yes	Item Number
Unit	String		Store Unit name
ItemGroup	String		Item Group name
SalesPrice	Decimal		Sales Price
Barcodes	Barcode[]	Yes	Array of Barcode structures
Categories	Category[]	Yes	[Full] Array of Category structures
NameInMenu	String	Yes	[Full] Name in Menu
Product			
Specification	String	Yes	[Full] Product Specification
Description	String	Yes	[Full] Description
Information	String	Yes	[Full] Information
Image1	String	Yes	[Full] Item Image 1 URI
Image2	String	Yes	[Full] Item Image 2 URI
Image3	String	Yes	[Full] Item Image 3 URI
[The following section is not visible to customers.]			
Additives	Additives[]	Yes	[Full] Array of Additives structures (for Inventory Management 9.1 and later)

ItemID

Table 21 – ItemID Parameters

Property	Type	Null	Info
Number	Int64	Yes	Item Number
Link	MenuItemLink	Yes	Menu Item Number

Must set either [Number] or [Link]

MenuItemLink

Table 22 – MenuItemLink Parameters

Property	Type	Null	Info
CostCenter	CostCenterID		Cost Center identifier
MINumber	Int64		Menu Item Number
MILevel	Int32	Yes	Menu Item Level
OTLinking	Int32	Yes	Order Type Linking

NutrientIngredient

Table 23 – NutrientIngredient Parameters

Property	Type	Null	Info
Name	String		Nutrient Name
ShortName	String		Nutrient Short Name
Unit	String		Nutrient Unit
PerPortion	Decimal		Nutrient Value per Portion

NutrientTotal

Table 24 – NutrientTotal Parameters

Property	Type	Null	Info
Group	String		Nutrient Group
Name	String		Nutrient Name
ShortName	String		Nutrient Short Name
Unit	String		Nutrient Unit
Per100g	Decimal		Nutrient Value per 100 grams
PerPortion	Decimal		Nutrient Value per Portion

Product

Table 25 – Product Parameters

Property	Type	Null	Info
Name	String		Product Name
Link	MenuItemLink		MenuItemLink structure

PurchaseOrder

Table 26 – PurchaseOrder Parameters

Property	Type	Null	Info
Name	String		Order Name
Vendor	Vendor		Vendor structure
CostCenter	CostCenter		Cost Center structure
DeliveryDate	DateTime		Delivery date

Quantity

Table 27 – Quantity Parameters

Property	Type	Null	Info
Amount	Decimal		Quantity / Amount
Unit	String		Unit of the Quantity

Recipe

Table 28 – Recipe Parameters

Property	Type	Null	Info
Name	String		Recipe name
Number	Int32	Yes	Recipe number
Version	Int32		Recipe version
COS	Decimal		Cost of Sales
Weight	Decimal		Total weight of the Recipe in kilograms
Portions	Decimal		Number of Portions
PortionSize	Quantity		Portion Size & Unit
ProductionLoss	Decimal		Production loss % (1.00 = 100%)
MajorGroup	String		Major Group name
RecipeGroup	String		Recipe Group name
NameInMenu	String	Yes	[Full] Name in Menu
Product Specification	String	Yes	[Full] Product Specification
Serving Instructions	String	Yes	[Full] Serving Instructions
Production Instructions	String	Yes	[Full] Production Instructions
ExpiresIn	Int32	Yes	Expiry duration in days
LeadDays	Int32	Yes	Lead days
PrepArea	String		Preparation Area
Image1	String	Yes	[Full] Recipe Image 1 URI
Image2	String	Yes	[Full] Recipe Image 2 URI
Image3	String	Yes	[Full] Recipe Image 3 URI
ModifiedAt	DateTime		Last modified date&time in UTC
ModifiedBy	String		Last modified user name
Active	Boolean		
Ingredients	Ingredient[]		Array of Ingredient structures
NutrientTotals	NutrientTotal[]	Yes	[Full] Array of NutrientTotal structures [The following section is not visible to customers.]
Additives	Additives[]	Yes	[Full] Array of Additives structures (for Inventory Management 9.1 and later)

RecipeID

Table 29 – RecipeID Parameters

Property	Type	Null	Info
Number	Int64	Yes	Recipe Number
Link	MenuItemLink	Yes	Menu Item Number

Must set either [Number] or [Link]

StockOnHand

Table 30 – StockOnHand Parameters

Property	Type	Null	Info
CostCenter	CostCenter		CostCenter structure
ItemNumber	Int64		Item Number
Item	String		Item Name
Qty	Quantity		Stock on Hand Quantity & Unit

Vendor

Table 31 – Vendor Parameters

Property	Type	Null	Info
Name	String		Vendor Name
Number	String	Yes	Vendor Customer Number
Address	String	Yes	Vendor Address
Email	String	Yes	Vendor E-Mail
Phone	String	Yes	Phone number
Fax	String	Yes	Fax number
TaxID	String	Yes	Vendor Tax/EU Identification Number
TaxOfficeName	String	Yes	Vendor Tax Office Name
ExternalInvoiceProcessing	Boolean		Whether External Invoice Processing is enabled or disabled

VendorID

Table 32 – VendorID Parameters

Property	Type	Null	Info
Number	String		Vendor Customer Number

VendorTaxID

Table 33 – VendorTaxID Parameters

Property	Type	Null	Info
Number	String		Vendor Tax/EU Identification Number

Transaction

Table 34 – Transaction Parameters

Property	Type	Null	Info
RevenueCenter	Int32		Number of the Revenue Center; when booking the transactions this is used to identify the cost center via the configured device; must match a device number that is defined for the POS IFC (identified via posSequence sent as parameter to the SendTransactionList method)
PLU	Int64		PLU; unique logical number of the menu item
Timestamp	DateTime		Date and time of the transaction (the time part is optional)
Qty	Decimal		Quantity
Total	Decimal		Gross Total
Tax	Decimal	Yes	Tax % (1.00 = 100%)
Type	TransactionType		Type of the transaction (see details in Enumeration)
WasteCode	Int32	Yes	Waste Code; only used when TransactionType = Waste
MenuLevel	Int32	Yes	Menu Level; only used when TransactionType = Normal
OrderType	Int32	Yes	Order Type; only used when TransactionType = Normal

MenuItem

Table 35 – MenuItem Parameters

Property	Type	Null	Info
PLU	String		PLU; unique logical number of the Menu item
Name	String		Name of the menu item
Name2	String	Yes	
ShortName	String	Yes	
Price1	Decimal	Yes	
Price2	Decimal	Yes	
Price3	Decimal	Yes	
Price4	Decimal	Yes	
Price5	Decimal	Yes	
Price6	Decimal	Yes	
Price7	Decimal	Yes	
Price8	Decimal	Yes	
Price9	Decimal	Yes	
Price10	Decimal	Yes	
PriceOut	Decimal	Yes	
TaxClass	Int32	Yes	

Property	Type	Null	Info
TaxClassOut	Int32	Yes	
TaxRate	Decimal	Yes	
TaxRateOut	Decimal	Yes	
ProductGroupNumber	String	Yes	
ProductGroup	String	Yes	
OverGroupNumber	String	Yes	
OverGroup	String	Yes	
Cost	Decimal	Yes	
OutletNumber	Int32	Yes	
Outlet	String	Yes	
InternalItemNumber	Int32	Yes	
StatisticsGroupNumber	String	Yes	
StatisticsGroup	String	Yes	
EffectiveFrom	DateTime	Yes	Reserved for future use
EffectiveTo	DateTime	Yes	Reserved for future use

User

Table 36 – User Parameters

Property	Type	Null	Info
ID	Int32		User Identification Number
Name	String		Long/Display Name
LoginName	String		Login Name

Receipt

Table 37 – Receipt Parameters

Property	Type	Null	Info
ReceiptID	Int32		Receipt Identifier
VendorID	VendorID	Yes	Vendor Customer Number
VendorTaxID	VendorTaxID		Vendor Tax/EU Identification Number
Number	String		Receipt Number
Date	DateTime		Receipt Date
NetValue	Decimal		Net Value
VATValue	Decimal		VAT Value
GrossValue	Decimal		Gross Value
DocumentType	ReceiptType		Type of the Receipt (Normal or RTV)
CostCenterList	Int32[]		Array of Cost Centers contained in the Receipt

ReceiptToInvoice

Table 38 – ReceiptToInvoice Parameters

Property	Type	Null	Info
InvoiceNumber	String		Invoice Number
InvoiceDate	DateTime		Invoice Date
ReceiptList	Int32[]		Array of Receipt Identifiers

Additives

Table 39 – Additives Parameters

Property	Type	Null	Info
Name	String		Additive Name
ShortName	String		Additive Short Name/Code
Group	String		Additive Group Name
GroupCode	String		Additive Group Code

Result<T>

Table 40 – Result<T> Parameters

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

Note that this type is not exposed by the POS Web Service, but only used as a generic template for describing the various result types. The actual returned structures only vary in the type of the “Data” property.

BarcodeListResult

Result<Barcode[]>

CostCenterListResult

Result<CostCenter[]>

RecipeResult

Result<Recipe>

ItemResult

Result<Item>

ItemListResult

Result<Item[]>

OpenOrderListResult

Result<PurchaseOrder[]>

StockOnHandListResult

Result<StockOnHand[]>

VendorResult

Result<Vendor>

TransactionResult

Result (no "Data" property)

MenuItemResult

Result (no "Data" property)

UserListResult

Result<User[]>

CostCentersVisibleToUserResult

Result<Int32[]>

ReceiptListResult

Result<Receipt[]>

InvoiceReceiptResult

Result (no "Data" property)

VendorListResult

Result<Vendor[]>

VendorInvoiceProcessingResult

Result (no "Data" property)

6 Enumerations

TransactionType

Table 41 – TransactionType Parameters

Value	Info
Normal	Standard Revenue (1)
CostCenter	Reserved for future use (2)
Receipt	Reserved for future use (3)
Waste	Reserved for future use (5)
IssueRequest	Reserved for future use (6)

ReceiptType

Table 42 – ReceiptType Parameters

Value	Info
Receipt	Normal Receipt
ReturnToVendor	RTV Document

ExtInvoiceStatus

Table 43 – ExtInvoiceStatus Parameters

Value	Info
True	Show Vendors with External Invoice Processing enabled and Tax ID set
False	Show Vendors with External Invoice Processing disabled and Tax ID set
All	Show all Vendors that have a Tax ID set

7 Error Codes

Table 44 – Error Codes

Code	Meaning
10001	Neither Recipe Number nor Link is set!!
10002	Neither Cost Center Number nor Location ID/Revenue Center Number is set!
10003	No Recipe could be found with the provided parameters!
10004	Neither Cost Center Number nor Location ID/Revenue Center Number is set in Menu Item Link!
10005	No Item could be found with the provided parameters!
10006	No Vendor could be found with the provided parameters!
10007	User or Password incorrect!
10008	An error occurred during login!
10009	An error occurred during Transaction import!
10010	An error occurred during Invoicing of Receipts!
10011	Transactions with the given Transaction ID have already been imported!
10012	An error occurred during setting of Vendor Invoice Processing flag!
10013	An error occurred during Menu Item import!

8 WSDL

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