

# SAP OData Service Guide

<b>Jira</b>	NEWASK-13775
<b>Description</b>	APO - SWO : New API check and validate orders
<b>System</b>	DA2

Version history:

Version	Date	Author	Validated by	Validation date
1.0	10/11/2023	Tiago Conde		
1.1	01/12/2023	Tiago Conde		
1.2	22/12/2023	Tiago Conde		

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# 1. Context

<https://decathlon.atlassian.net/browse/NEWASK-13775>

# 2. Guide

## Hosts:

SAP System	Internal	External
DA2	<a href="https://da2aas01.nl.gcp.dktinfra.cloud:44302">https://da2aas01.nl.gcp.dktinfra.cloud:44302</a>	<a href="https://sapda2.pp.dktapp.cloud">https://sapda2.pp.dktapp.cloud</a>
QA2	<a href="https://qa2aas01.nl.gcp.dktinfra.cloud:44302">https://qa2aas01.nl.gcp.dktinfra.cloud:44302</a>	<a href="https://sapqa2.pp.dktapp.cloud">https://sapqa2.pp.dktapp.cloud</a>
RA2		

## SAP Gateway Project: ZAPLA\_SWO\_ORDER

Metadata url: <host>/sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/\$metadata

## Operations:

### Check:

Path: <host>/sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders\_check

Method: POST

Return code: 201

Example: /sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders\_check

Header: accept/application/json

Body:

```
{
  "orders": [
    {
      "partner_gln": "123456789",
      "item_code": "123456789",
      "requested_delivery_date": "2023-01-01",
      "requested_quantity": 111
    }
  ]
}
```

Response:

```
{
  "d" : {
    "orders" : {
      "results" : [
        {
          "partner_request_number" : "",
          "partner_gln" : "123456789",
          "item_code" : "123456789",
          "requested_delivery_date" : "2023-01-01",
          "requested_quantity" : 111,
          "destination_description" : "CAC ROUVIGNIES",
          "minimum_delivery_quantity" : 1,
          "adjusted_delivery_date" : "2023-01-01",
          "is_delivery_date_accepted" : true,
          "adjusted_quantity" : 222,
          "is_quantity_accepted" : false,
          "is_request_accepted" : false
        }
      ]
    }
  }
}
```

## Create:

Path: <host>/sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders

Method: POST

Return code: 201

Example: /sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders\_check

Header: accept/application/json

Body:

```
{
  "orders": [
    {
      "partner_request_number": "123456789",
      "partner_gln": "123456789",
      "item_code": "123456789",
      "requested_delivery_date": "2023-01-01",
      "requested_quantity": 111
    }
  ]
}
```

Response:

```
{
  "d" : {
```

```
"orders" : {
  "results" : [
    {
      "partner_request_number" : "123456789",
      "partner_gln" : "123456789",
      "item_code" : "123456789",
      "requested_delivery_date" : "2023-01-01",
      "requested_quantity" : 111,
      "destination_description" : "CAC ROUVIGNIES",
      "minimum_delivery_quantity" : 1,
      "adjusted_delivery_date" : "2023-01-01",
      "is_delivery_date_accepted" : true,
      "adjusted_quantity" : 222,
      "is_quantity_accepted" : false,
      "is_request_accepted" : false
    }
  ]
}
```

## Delete:

Path: <host>/sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders

Method: DELETE

Return code: 204

Example: /sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders('1234567890')

Response: empty

## Errors:

Return code: 400

Response:

```
{
  "error" : {
    "code" : "ZAPLA_SWO/001",
    "message" : {
      "lang" : "en",
      "value" : "GLN Partner Number is empty."
    },
    "innererror" : {...}
  }
}
```

Error Code	Error Text
ZAPLA_SWO/001	GLN Partner Number is empty.

ZAPLA_SWO/002	Item code is empty.
ZAPLA_SWO/003	Requested Delivery Date is empty.
ZAPLA_SWO/004	Requested Quantity is empty.
ZAPLA_SWO/005	Order is already converted into a Purchase Order. Contact your support.
ZAPLA_SWO/006	No orders found on APO. Contact your support.
ZAPLA_SWO/007	Error occurred when deleting orders on APO. Contact your support.
ZAPLA_SWO/008	Multiple Entry Points found for the Product &1. Contact your support.
ZAPLA_SWO/009	No Entry Point found for the Product &1. Contact your support.
ZAPLA_SWO/010	Multiple Vendor Plant found for the Product &1. Contact your support.
ZAPLA_SWO/011	No Vendor Plant found for the Product &1. Contact your support.
ZAPLA_SWO/012	No Transportation Lane found. Contact your support.
ZAPLA_SWO/013	Multiple Transportation Lane found. Contact your support.
ZAPLA_SWO/014	An error occurs during the creation of orders. Contact your support.
ZAPLA_SWO/015	Partner Request Number has already been created on APO.
ZAPLA_SWO/016	Partner Request Number is empty.
ZAPLA_SWO/017	No input data found.
ZAPLA_SWO/018	No data found on SWO Entry Point Mapping Table. Contact your support.
ZAPLA_SWO/019	Requested Delivery Date is invalid.
ZAPLA_SWO/020	Error updating table ZAPLA_SWO. Contact your support.
ZAPLA_SWO/021	Error updating table ZADAP_FIRM_DO. Contact your support.
ZAPLA_SWO/022	Item code is invalid.

## Testing:

Transaction: /n/IWFND/GW\_CLIENT

### Check:

HTTP Method: POST

Request Uri:

[https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\\_SWO\\_ORDER\\_SRV/planned\\_de\\_livery\\_orders\\_check](https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_de_livery_orders_check)

Protocol: HTTPS

Header: accept:application/json

Return code: 201

The screenshot displays the SAP Gateway Client interface. At the top, the title bar reads 'SAP Gateway Client'. Below it, a toolbar contains various icons and buttons like 'Execute', 'Select', 'Service Administration', etc. The main area is divided into two panes. The left pane, titled 'HTTP Request', shows the request details: HTTP Method is POST, Request URI is 'https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\_SWO\_ORDER\_SRV/planned\_delivery\_orders\_check', and Protocol is HTTPS. Below this, a table lists the request headers, showing 'accept' with the value 'application/json'. The right pane, titled 'HTTP Response - Processing Time = 4589 ms', shows the response details. It includes a table for response headers with '~status\_code' as 201 and '~status\_reason' as 'Created'. Below the headers, the response body is displayed as a JSON object. The JSON structure includes an 'orders' array with one object containing 'partner\_gln', 'item\_code', 'requested\_delivery\_date', and 'requested\_quantity'. The response also includes a 'd' object with 'partner\_request\_number' and 'orders' details, including 'results' and 'metadata'.

## Create:

HTTP Method: POST

Request Uri:

[https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\\_SWO\\_ORDER\\_SRV/planned\\_delivery\\_orders](https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders)

Protocol: HTTPS

Header: accept:application/json

Return code: 201

**SAP Gateway Client**

HTTP Method: ☒ GET ☒ POST ☐ PUT ☐ PATCH ☐ MERGE ☐ DELETE ☐ HEAD

Request URI: [https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\\_SWO\\_ORDER\\_SRV/planned\\_delivery\\_orders](https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders) Single Row

Protocol: ☐ HTTP ☒ HTTPS

Test Group: Test Case:

**HTTP Request**

Header Name	Value
accept	application/json

```

1 {
2   "orders": [
3     {
4       "partner_request_number": "000000001",
5       "partner_gln": "111111111111",
6       "item_code": "1705492",
7       "requested_delivery_date": "2023-11-14",
8       "requested_quantity": 1
9     }
10  ]
11 }

```

**HTTP Response - Processing Time = 5087 ms**

Header Name	Value
--status_code	201
--status_reason	Created

```

1 {
2   "d": {
3     "metadata": {
4       "id": "https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders('')",
5       "uri": "https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders('')",
6       "type": "ZAPLA_SWO_ORDER_SRV.planned_delivery_order_list_ty"
7     },
8     "partner_request_number": "",
9     "orders": {
10      "results": [
11        {
12          "metadata": {
13            "id": "https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_order('000000001')",
14            "uri": "https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_order('000000001')",
15            "type": "ZAPLA_SWO_ORDER_SRV.planned_delivery_order_ty"
16          },
17          "partner_request_number": "000000001",
18          "partner_gln": "111111111111",
19          "item_code": "1705492",
20          "requested_delivery_date": "2023-11-14",
21          "requested_quantity": 1,
22          "adjusted_delivery_date": "2023-11-14",
23          "is_delivery_date_accepted": true,
24          "adjusted_quantity": 1,
25          "is_quantity_accepted": true,
26          "is_request_accepted": true
27        }
28      ]
29    }
30  }
}

```

## Delete:

HTTP Method: DELETE

Request Uri:

[https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\\_SWO\\_ORDER\\_SRV/planned\\_delivery\\_orders](https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders)

Protocol: HTTPS

Header:

accept:application/json

Return code: 204

**SAP Gateway Client**

HTTP Method: ☐ GET ☐ POST ☐ PUT ☐ PATCH ☒ MERGE ☒ DELETE ☐ HEAD

Request URI: [https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA\\_SWO\\_ORDER\\_SRV/planned\\_delivery\\_orders\('000000001'\)](https://da2aas01.nl.gcp.dktinfra.cloud:44302/sap/opu/odata/sap/ZAPLA_SWO_ORDER_SRV/planned_delivery_orders('000000001')) Single Row

Protocol: ☐ HTTP ☒ HTTPS

Test Group: Test Case:

**HTTP Request**

Header Name	Value
accept	application/json

**HTTP Response - Processing Time = 2764 ms**

Header Name	Value
--status_code	204
--status_reason	No Content

```

1 <?xml version="1.0"?>
2 <RESPONSE_BODY/>

```

## Errors:

Return code: 400

**SAP Gateway Client**

HTTP Method: ☐ GET ☒ POST ☐ PUT ☐ PATCH ☐ MERGE ☐ DELETE ☐ HEAD

Request URI:  Single Row

Protocol: ☐ HTTP ☒ HTTPS

**HTTP Request**

Header Name	Value
accept	application/json

```

1 {
2   "orders": [
3     {
4       "partner_gln": "",
5       "item_code": "1705492",
6       "requested_delivery_date": "2023-11-14",
7       "requested_quantity": 1
8     }
9   ]
10 }

```

**HTTP Response - Processing Time = 2269 ms**

Header Name	Value
~status_code	400
~status_reason	Bad Request

```

1 {
2   "error": {
3     "code": "ZAPLA_SWO/001",
4     "message": {
5       "lang": "en",
6       "value": "GLN Partner Number is empty."
7     },
8     "innererror": {
9       "application": {
10        "component_id": "",
11        "service_namespace": "/SAP/",
12        "service_id": "ZAPLA_SWO_ORDER_SRV",
13        "service_version": "0001"
14      },
15       "transactionid": "EB4CA2952DE50050E00654BDC0D6A9D3",
16       "timestamp": "",
17       "Error_Resolution": {
18         "SAP_Transaction": "",
19         "SAP_Note": "See SAP Note 1797736 for error analysis (https://service.sap.c
20       },
21       "errordetails": [
22         {
23           "code": "ZAPLA_SWO/001",
24           "message": "GLN Partner Number is empty.",
25           "propertyrez": "",
26           "severity": "error",
27           "target": ""
28         }
29       ]
30     }
31   }
32 }

```

## Version v1.01: New fields destination\_description and minimum\_delivery\_quantity.

**SAP Gateway Client**

HTTP Method: ☐ GET ☒ POST ☐ PUT ☐ PATCH ☐ MERGE ☐ DELETE ☐ HEAD

Request URI:  Single Row

Protocol: ☐ HTTP ☒ HTTPS

**HTTP Request**

Header Name	Value
accept	application/json

```

1 {
2   "orders": [
3     {
4       "partner_gln": "111111111111",
5       "item_code": "1705492",
6       "requested_delivery_date": "2023-11-19",
7       "requested_quantity": 1
8     }
9   ]
10 }

```

**HTTP Response - Processing Time = 40126 ms**

Header Name	Value
~status_code	201

```

1 {
2   "d": {
3     "partner_request_number": "",
4     "orders": {
5       "results": [
6         {
7           "metadata": {
8             "partner_request_number": "",
9             "partner_gln": "111111111111",
10            "item_code": "1705492",
11            "requested_delivery_date": "2023-11-19",
12            "requested_quantity": 1,
13            "destination_description": "CAC ROUVIGNIES",
14            "minimum_delivery_quantity": 1,
15            "adjusted_delivery_date": "2023-11-19",
16            "is_delivery_date_accepted": true,
17            "adjusted_quantity": 1,
18            "is_quantity_accepted": true,
19            "is_request_accepted": true
20          }
21        }
22      ]
23    }
24  }
25 }

```



## Version v1.2: new input/output structure

### Input:

```
{  
  "partner_request_number": "1234567890",  
  "partner_gln": "VADA0027839",  
  "item_lines": [{  
    "item_code": "2467489",  
    "requested_delivery_date": "2023-11-30",  
    "requested_quantity": 10000  
  }]  
}
```

### Output:

```
{
  "d" : {
  },
  "partner_request_number" : "1234567890",
  "partner_gln" : "VADA0027839",
  "destination_description" : "Walmart Port Shangai",
  "is_request_accepted" : true,
  "item_lines" : {
    "results" : [
      {
        "__metadata" : {
        },
        "partner_request_number" : "1234567890",
        "item_code" : "1",
        "requested_delivery_date" : "2023-11-30",
        "requested_quantity" : 10000,
        "minimum_delivery_quantity" : 0,
        "adjusted_delivery_date" : "",
        "is_delivery_date_accepted" : false,
        "adjusted_quantity" : 55,
        "is_quantity_accepted" : true
      },
      {
        "__metadata" : {
        },
        "partner_request_number" : "1234567890",
        "item_code" : "2",
        "requested_delivery_date" : "2023-11-30",
        "requested_quantity" : 20000,
        "minimum_delivery_quantity" : 0,
        "adjusted_delivery_date" : "",
        "is_delivery_date_accepted" : false,
        "adjusted_quantity" : 44,
        "is_quantity_accepted" : true
      }
    ]
  }
}
```

## 3. Impacted objects

Object to update / create	Action	Complexity
ZAPLA_SWO_ORDER (SAP Gateway)		

## 4. Tests

## 5. Impacts

## 6. Planning

### Prerequisites

### Hypothesis

## 7. Quotation

### Prerequisites

### Hypothesis

### Synthesis of charges and cost