



# Rate Shopper H5 SDK Requirements

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## Summary

A web application built using the H5 SDK that allow the user to shop for freight rates using an external web service provided by ProcessWeaver.

Once a freight rate has been selected the user can update an M3 order charge (selected from a drop down) with the value from the selected freight rate.

## Release Notes

Version 1.0.0.0

- Initial version

## Prerequisites

- The application calls an external web service provided by ProcessWeaver. This webservice must be configured in ION API.
- The application uses information categories and custom MI transactions. These need to be configured in CMS010 and CMS015.
- The LaunchApplicationDialog\_H5\_V1 script is used to launch the rate shopper dialog. It must be installed and available in the applicable environment.
- The customer order and the warehouse on the order header must have valid addresses.

## How To

In program OIS300 the user selects an order for which to do rate shopping. Pressing the button will launch the application dialog.

The screenshot shows the OIS300 application interface. At the top, there is a navigation bar with 'Menu' and 'Start' buttons. Below this is a toolbar with various icons. The main area is titled 'Customer Order. Open Toolbox'. On the left, there is a sidebar with 'Del.Sch's' and 'New order' buttons. The 'Rate Shopper' button is highlighted with a red circle. Below the sidebar, there are input fields for 'Facility', 'Delayed' (checkbox), 'Lowest status', and 'Highest status'. On the right, there is a 'Sorting order' dropdown set to '1-C. Order No.' and an 'Apply' button. At the bottom, there is a table with columns: Order #, Name, Customer, Req Dt, Del Mt, Order Date, Low Sts, High Sts, Type, Ord Value Gross, and Resp.

Order #	Name	Customer	Req Dt	Del Mt	Order Date	Low Sts	High Sts	Type	Ord Value Gross	Resp
4003110350	B2B Trade Chicago Ltd	43PM01000	111516	003	111516	invoiced	invoiced	D22	75.33	MICPHI0
4003110351	USA Builders Today	Y10000	111616	003	111616	invoiced	invoiced	D01		OVEAND0
4003110352	Construction Site 1	Y10013	111616	003	111616	invoiced	invoiced	D08	939.00	OVEAND0

When doing so, information about the selected customer order is retrieved and the ProcessWeaver webservice is called via ION API, using data from the customer order as input (from- and to-address, delivery date).

The web service returns an array of available freight rates, which are then displayed in a list.

Rates (13 Results)

<input type="checkbox"/>	Carrier [R] ▾	Service [R] ▾	Delivery Date	Freight	
<input type="checkbox"/>	FedEx	FIRST_OVERNIGHT	2020-01-21	170.84	
<input type="checkbox"/>	FedEx	PRIORITY_OVERNIGHT	2020-01-21	139.34	
<input type="checkbox"/>	FedEx	STANDARD_OVERNIGHT	2020-01-21	131.48	
<input type="checkbox"/>	UPS	UPS Next Day Air Saver	2020-01-21	136.70	
<input type="checkbox"/>	UPS	UPS Next Day Air Early	2020-01-21	175.87	
<input type="checkbox"/>	UPS	UPS Next Day Air	2020-01-21	143.62	
<input type="checkbox"/>	DHL	DOMESTIC EXPRESS/DO	2020-01-21	120.53	

Page 1 of 1 25 Records per page ▾

The user can now select a freight rate. Doing so will populate the bottom of the part with the application dialog. Here the user can select an M3 charge that should be used to “transfer” the freight rate to the customer order. Future version of the application will also allow the delivery method to be updated. **Note**, this is currently not supported.

The screenshot shows the application dialog. It has two main sections: 'Service' and 'Freight'. The 'Service' section has a dropdown menu with 'UPS Next Day Air Saver' selected. The 'Freight' section has a text input field with '136.7'. Below these, there are two more dropdown menus: 'M3 Charge' with 'EXP-Express' selected, and 'M3 Delivery Method' with '003-Road transport' selected. A blue 'Create Charge' button is located at the bottom right.

Menu

Start

Customer Order. Connect Charges

ACTIONS

OPTIONS

RELATED

TOOLS

+

≡

✎

🗑

📄

↺

📅

🔍

CO no

4003110350

Customer

43PM01000

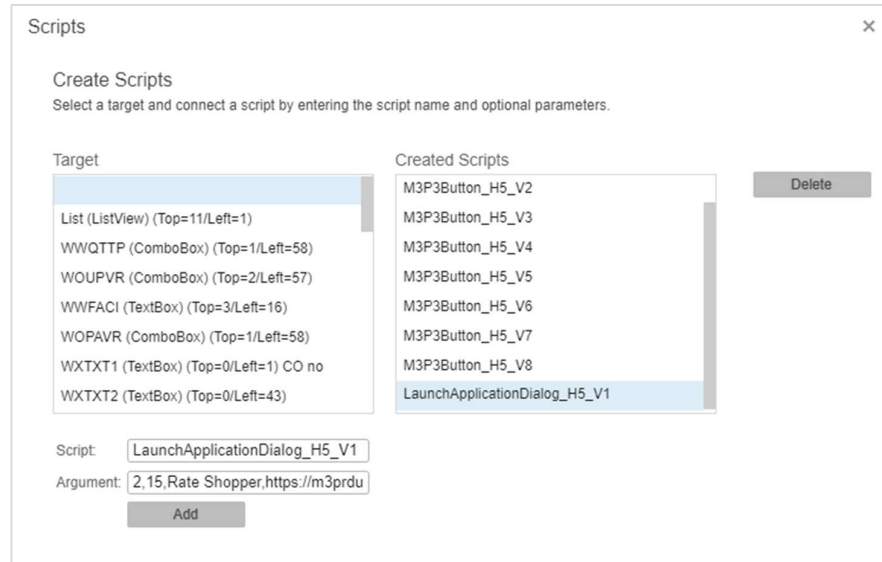
B2B Trade Chicago Ltd

Charge	E/I	Name	Charge	Curr	Calc M	Calc factor	Tax Ct	Status
EXP		Express	168.25	USD			00	To Be Inv.

## Launch Dialog Script

The LaunchApplicationDialog\_H5\_V1 script is used launch the rate shopper application. It contains functionality to

- Retrieve the data from the selected order in the OIS300 listpanel and pass it to the rate shopper application.
- Display the rate shopper in a dialog with the dimensions provided in the script arguments



Script name

LaunchApplicationDialog\_H5\_V1

Script arguments:

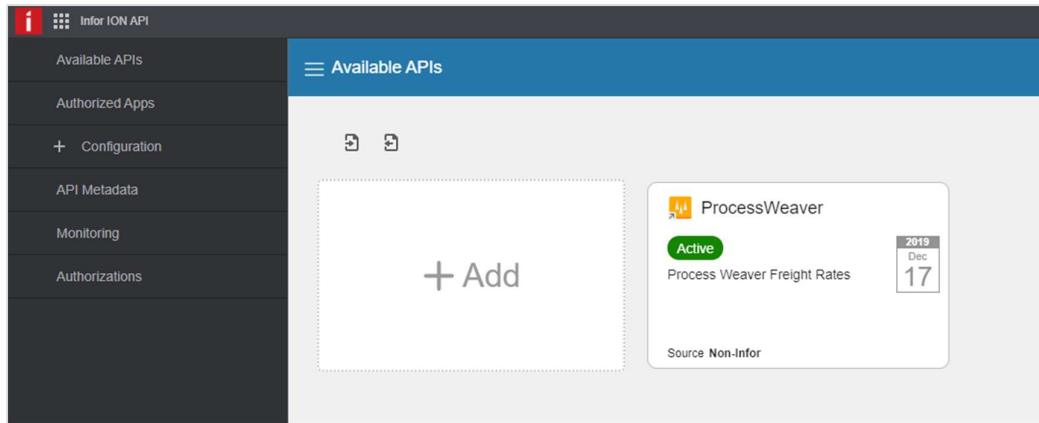
ButtonRow, ButtonColumn, ButtonText, ApplicationUrl, DialogWidth, DialogHeight

Example

(2,15,Rate Shopper,https://<serverUrl>/mne/apps/rate-shopper-h5-sdk/,1000,750)

# ION API Configuration

The rate shopper application calls the external ProcessWeaver web service. It must be configured as an ION API.



## Configuration Details

Available APIs / ProcessWeaver / Api

Target Endpoint URL \*

☐ Ignore Certificate Errors

Target Endpoint Description

Proxy Context \*

Public Facing Proxy Endpoint  
[https://mingle-ionapi.inforcloudsuite.com/SLSGDENA011\\_DEV/...](https://mingle-ionapi.inforcloudsuite.com/SLSGDENA011_DEV/...)

Proxy Security

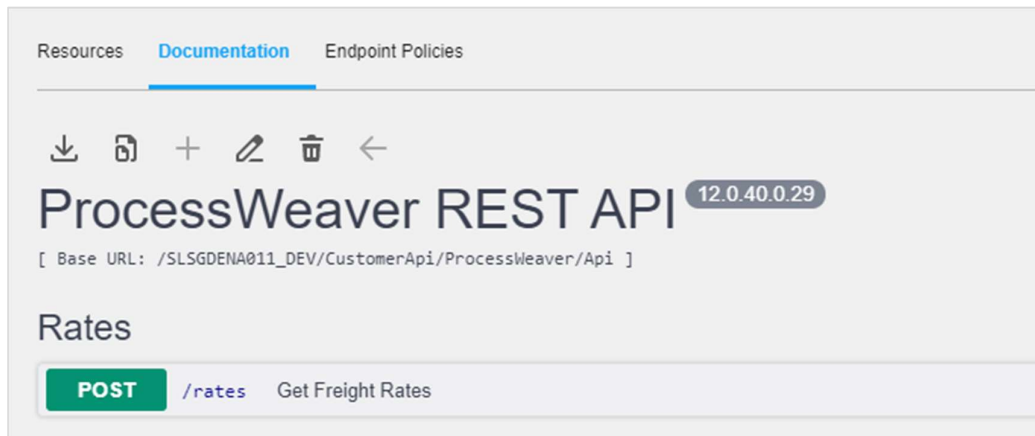
Target Endpoint Security

☐ Use Mutual SSL

Authentication Type

Target endpoint Url: <http://148.62.52.8/RATEAPIPROCESS/RATESHOPPING.ASHX>

## Swagger Documentation



The swagger documentation is listed below. It can be copied to a .json file, which in turn can be imported into the environment.

```
{
  "swagger": "2.0",
  "info": {
    "version": "12.0.40.0.29",
    "title": "ProcessWeaver REST API"
  },
  "basePath": "/<TenantID>/CustomerApi/ProcessWeaver/Api",
  "schemes": [
    "https"
  ],
  "tags": [
    {
      "name": "Rates"
    }
  ],
  "paths": {
    "/rates": {
      "post": {
        "tags": [
          "Rates"
        ],
        "summary": "Get Freight Rates",
        "description": "Get Freight Rates",
        "operationId": "getRates",
        "consumes": [
          "application/json;charset=utf-8",
          "application/xml;charset=utf-8"
        ],
        "produces": [
          "application/json;charset=utf-8",
          "application/xml;charset=utf-8"
        ],
        "parameters": [
          {
```

```

      "in": "body",
      "name": "body",
      "description": "Model of request body with necessary data for get freight rates",
      "required": true,
      "schema": {
        "$ref": "#/definitions/FreightRates"
      }
    },
    "responses": {
      "200": {
        "description": "OK",
        "schema": {
          "type": "string"
        }
      },
      "400": {
        "description": "Bad Request",
        "schema": {
          "type": "string"
        }
      },
      "401": {
        "description": "Unauthorized",
        "schema": {
          "type": "string"
        }
      },
      "403": {
        "description": "Forbidden",
        "schema": {
          "type": "string"
        }
      },
      "500": {
        "description": "Internal Server Error",
        "schema": {
          "type": "string"
        }
      }
    }
  },
  "definitions": {
    "FreightRates": {
      "type": "object",
      "properties": {
        "RateAPI": {
          "$ref": "#/definitions/FreightRatesInner"
        }
      }
    },
    "FreightRatesInner": {
      "type": "object",
      "properties": {

```



```

    "ShipToCity": {
      "type": "string"
    },
    "ShipToState": {
      "type": "string"
    },
    "ShipToCountry": {
      "type": "string"
    },
    "ShipToZipcode": {
      "type": "string"
    },
    "ShipFromCity": {
      "type": "string"
    },
    "ShipFromState": {
      "type": "string"
    },
    "ShipFromCountry": {
      "type": "string"
    },
    "ShipFromZipcode": {
      "type": "string"
    },
    "TotalWeight": {
      "type": "string"
    },
    "WeightUnits": {
      "type": "string"
    },
    "DeliveryDate": {
      "type": "string",
      "format": "date-time"
    },
    "Departuredate": {
      "type": "string",
      "format": "date-time"
    }
  }
}
}
}

```

When calling the webservice the following input data is mandatory

- Ship from zip code
- Ship from state
- Ship from country
- Ship to zip code
- Ship to state
- Ship to country
- Weight
- Delivery date
- Departure date

This data must be available for the selected customer order. In particular, the customer order must have a valid delivery address and the warehouse must have a valid address setup in CRS235.

## CMS100 (CMS010) Information Categories

Information category	File	Related tables
PRW_OOHEAD	OOHEAD	OCUSMA, OCUSAD, CIADDR

### Related tables

#### PRW\_OOHEAD - Related tables

Info brows cat	PRW_OOHEAD	Field prefix	OK
Table	OCUSMA		

Key fields							
Sorting option		00					
Key field		Read option	Object		/	Value	Trm
1	OKCONO Company	1-Equal to	OACONO	OOHEAD	/		<input type="checkbox"/>
2	OKCUNO Customer	1-Equal to	OACUNO	OOHEAD	/		<input type="checkbox"/>

Info brows cat	PRW_OOHEAD	Field prefix	OP
Table	OCUSAD		

Key fields							
Sorting option		00					
Key field		Read option	Object		/	Value	Trm
1	OPCONO Company	1-Equal to	OACONO	OOHEAD	/		<input type="checkbox"/>
2	OPCUNO Customer	1-Equal to	OACUNO	OOHEAD	/		<input type="checkbox"/>
3	OPADRT Address type	1-Equal to			/	1	<input type="checkbox"/>
4	OPADID Address no	1-Equal to	OAADID	OOHEAD	/		<input type="checkbox"/>

Info brows cat	PRW_OOHEAD	Field prefix	C1
Table	CIADDR		

Key fields							
Sorting option		00					
Key field		Read option	Object		/	Value	Trm
1	OACONO Company	1-Equal to	OACONO	OOHEAD	/		<input type="checkbox"/>
2	OAADTH Address type	1-Equal to			/	1	<input type="checkbox"/>
3	OAADK1 Address key 1	2-Blank value			/		<input type="checkbox"/>
4	OAADK2 Address key 2	1-Equal to	OAWHLO	OOHEAD	/		<input type="checkbox"/>
5	OAADK3 Address key 3	2-Blank value			/		<input type="checkbox"/>

## Views

Information category	Sorting order	Sorting option	View	Fields
PRW_OOHEAD	1	00	PRW_1	OAORNO, OACUNO, OKCUNM, OAGRWE, OANEWE, OAVOL3, OARLDT, OAWHLO, OAMODL, OKPONO, OKTOWN, OKECAR, OKCSCD, OAADID, OPPONO, OPTOWN, OPECAR, OPCSCD, C1PONO, C1TOWN, C1ECAR, C1CSCD

## CMS100MI (CMS015) Transactions

Transaction	Information category	Sort order	View	No. filters	Selection fields	Search	Aggr
LstPrwCO	PRW_OOHEAD	1	PRW_1	1			