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Technical document – Web Service Interface

API REST Call details

Document information

Business process	GWSI integration	
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Module	Logistics	
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To be approved by	GWSI	
Review and changes history			
Rev.	Date	Author	Description
1			
2			

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1.   Summary

This document describes the web services CMPC has developed to interact with GWSI, it also includes some examples regarding how to execute the calls.

2.   WS Description

The parameters proposed for each Web-Service are described in more detail below.

Web Service W1-Warehouse

GWSI confirms the reception of a container at their facilities.

Resource name: W1-Warehouse

Parameter	Type	Mandatory	Description
Warehouse company	Input	Yes	Fixed value = "GWSI"
Container N°	Input	Yes	Indicates the Container N° the Warehouse is confirming.
Warehouse-ID (Plant-Sto.Loc)	Input	Yes	Describes the specific Warehouse facility ID where the Container has been received. If needed, an equivalence with SAP Plant and Storage location will be created.
CMPC PO N°	Input	Yes	Indicates the CMPC PO number, is informed to GSWI with the master packing list.
B/L N°	Input	Yes	Indicates the B/L used to send the container from the producer, is informed to DHL with the master packing list. Note: For CMPC Pulp products, the Web Service must be called once GWSI has confirmed the reception of all the containers related to one "BL N°"
CMPC Invoice N°	Input	Yes	Indicates the CMPC Invoice N°, informed to GWSI with the master packing list.
Arrival date to the warehouse	Input	Yes	Actual arrival date to the warehouse. Note: For CMPC Pulp products it should be the last container of a BL arrival date.
Error/Success message table	Output		Contains one or more messages related to the call that is being processed. S -> Successful I -> Informative E -> Error

Calling WS1

Details to call the WS by using API REST (Screenshots are from Postman tool).

Element	Detail
URI (URL)	https://serviciospo.cmpc.cl:44707/RESTAdapter/W1-Warehouse

JSON to call the resource	```json
	{
	    "row": [{
	        "WarehouseCompany": "GWSI",
	        "ContainerNumber": "CAIU 756667-1",
	        "WarehouseID": "GWSI PHL",
	        "CMPCPONumber": "2900007338",
	        "BLNum": "BL_DEMO",
	        "CMPCInvoiceNum": "FXL00006506",
	        "ArrivalDateWarehouse": "20210907"
	    }]
	}
	``

Call example	
Answer example	

Authorization	

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

Type   [Basic Auth ⌄]   (!) Heads up! These parameters hold sensitive data. To keep this data secure wh environment, we recommend using variables. Learn more about variables ↗

The authorization header will be automatically generated when you send the request.
Learn more about authorization ↗

Username   INTPOGWSI

Password   ••••••••

<u>Note</u>: The password will be sent separately.

Web Service W2-CheckDelivery

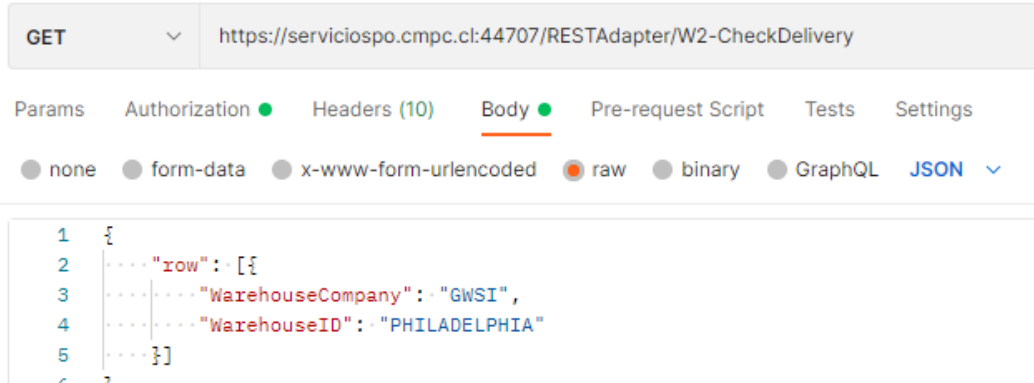GWSI queries if there are new outbound deliveries to be prepared and shipped.

Resource name: W2-CheckDelivery

Parameter	Type	Mandatory	Description
Warehouse company	Input	Yes	Fixed value = "GWSI"
Warehouse-ID (Plant-Sto.Loc)	Input	Yes	Describes the specific Warehouse facility ID where the Container has been received. If needed, an equivalence with SAP Plant and Storage location will be created.
Outbound deliveries table	Output	Yes	Table with new or modified Outbound deliveries to be prepared, with the following information:

Delivery	Customer name	Customer PO number

Delivery date	Sales type	Status
	F – Firm Order O – Other	I – New U – Update D – Delete

Ship-to address	City	Zipcode

Country	Special remarks

.

Detail table of the outbound deliveries	Output	Yes	Table with the detail of the sent Outbound deliveries, with the following information:

Delivery	Delivery-Item Ref	Material / Order-Item

Units Quantity	Quantity BUoM	Unit of measure

Pieces per Unit	Customer qualifier	Unit-ID (optional)

.

Error/Success message table	Output		Contains one or more messages related to the call that is being processed. S -> Successful I -> Informative E -> Error

Calling WS2

Details to call the WS by using API REST (Screenshots are from Postman tool).

Element	Detail
URI (URL)	https://serviciospo.cmpc.cl:44707/RESTAdapter/W2-CheckDelivery
| JSON to call the resource | ```
{
    "row": [{
        "WarehouseCompany": "GWSI",
        "WarehouseID": "PHILADELPHIA"
    }]
}
``` |
| Call example | |

Answer example	

```json
{
    "row": [
        {
            "Deliveries": {
                "Delivery": 72684550,
                "CustomerName": "LAWRENCEVILLE, WD",
                "CustomerPONumber": "",
                "DeliveryDate": 20201007,
                "SalesType": "CUA9",
                "Status": 80,
                "ShipToAddress": "PROGRESS CENTER AVE1301",
                "City": "LAWRENCEVILLE",
                "Zipcode": 30043,
                "Country": "US",
                "SpecialRemarks": "XXXXX",
                "DeliveriesDetail": [
                    {
                        "Delivery": 72684550,
                        "DeliveryItemRef": 10,
                        "Material": "M520MPI000029",
                        "UnitsQuantity": 1,
                        "QuantityBUoM": 720,
                        "UnitOfMeasure": "PC",
                        "PiecesPerUnit": 54,
                        "CustomerQualifer": "CustomerQualifer",
                        "UnitID": 1000001843
                    },
                    {
                        "Delivery": 72684550,
                        "DeliveryItemRef": 10,
                        "Material": "M520MPI000029",
                        "UnitsQuantity": 1,
                        "QuantityBUoM": 720,
                        "UnitOfMeasure": "PC",
                        "PiecesPerUnit": 54,
                        "CustomerQualifer": "CustomerQualifer",
                        "UnitID": 1000001844
                    },
                    {
                        "Delivery": 72684550,
                        "DeliveryItemRef": 10,
                        "Material": "M520MPI000029",
                        "UnitsQuantity": 1,
                        "QuantityBUoM": 720,
                        "UnitOfMeasure": "PC",
                        "PiecesPerUnit": 54,
                        "CustomerQualifer": "CustomerQualifer",
                        "UnitID": 1000001845
                    },
                    {
                        "Delivery": 72684550,
                        "DeliveryItemRef": 20,
                        "Material": "M520MPI000190",
                        "UnitsQuantity": 1,
                        "QuantityBUoM": "1.080",
                        "UnitOfMeasure": "PC",
                        "PiecesPerUnit": 54,
                        "CustomerQualifer": "CustomerQualifer",
                        "UnitID": 1000000205
                    }
```

```
            ]
        },
        "Result": {
            "Status": "I",
            "Message": "OK"
        }
    },
    {
        "Deliveries": {
            "Delivery": 72757277,
            "CustomerName": "GEORGIA PACIFIC LLC",
            "CustomerPONumber": "",
            "DeliveryDate": 20201026,
            "SalesType": "CU80",
            "Status": 80,
            "ShipToAddress": "KILLAM INDUSTRIAL BLVD9002",
            "City": "LAREDO",
            "Zipcode": 78045,
            "Country": "US",
            "SpecialRemarks": "XXXXX",
            "DeliveriesDetail": {
                "Delivery": 72757277,
                "DeliveryItemRef": 10,
                "Material": "FX11731-6",
                "UnitsQuantity": 1,
                "QuantityBUoM": "3.500",
                "UnitOfMeasure": "BAG",
                "PiecesPerUnit": 54,
                "CustomerQualifer": "CustomerQualifer"
            }
        },
        "Result": {
            "Status": "I",
            "Message": "OK"
        }
    }
    ]
}
```

Authorization

| Params | Authorization ● | Headers (10) | Body ● | Pre-request Script | Tests | Settings |

Type Basic Auth

The authorization header will be automatically generated when you send the request.
Learn more about authorization ↗

Heads up! These parameters hold sensitive data. To keep this data secure wh environment, we recommend using variables. Learn more about variables ↗

Username: INTPOGWSI

Password: ••••••••

Note: The password will be sent separately.

Web Service W3-WarehouseConfirm

GWSI confirms that has prepared and shipped an Outbound delivery; specific Units are expected.

Resource name: W3-WarehouseConfirm

Parameter	Type	Mandatory	Description
Warehouse company	Input	Yes	Fixed value = "GWSI"
Outbound delivery	Input	Yes	Outbound delivery informed as picked and shipped.
Carrier name	Input	Yes	Company name in charge of the shipment
Truck ID	Input	Yes	Truck identifier
Shipment date	Input	Yes	Actual shipment date for the specified delivery
Status	Input	Yes	Outbound delivery status S -> Picked and shipped. C -> Cancelled E -> Edited (partially prepared)
Table with the Units picked for the outbound delivery.	Input	Yes	Table with the specific units that were picked and shipped for the informed Outbound delivery, with the following information: | Delivery-Item Ref	Material / Order-Item	Unit-ID
---	---	---
		| | Quantity	Unit of measure
---	---
		  .
Error/Success message table	Output		Contains one or more messages related to the call that is being processed. S -> Successful I -> Informative E -> Error

Calling WS3

Details to call the WS by using API REST (Screenshots are from Postman tool).

Element	Detail
URI (URL)	https://serviciospo.cmpc.cl:44707/RESTadapter/W3-WarehouseConfirm

JSON to call the resource	```{```
	``` "row": [{```
	``` "WarehouseCompany": "GWSI",```
	``` "OutboundDelivery": "72684550",```
	``` "CarrierName": "CARRIER NAME",```
	``` "TruckID": "TWY324",```
	``` "ShipmentDate": "20210908",```
	``` "Status": "S",```
	``` "Units": [{```
	``` "DeliveryItemRef": "10",```

```
            "Material": "M520MPI000029",
            "UnitID": "1000001843",
            "Quantity": "720",
            "UnitOfMeasure": "PC"
        },
        {
            "DeliveryItemRef": "10",
            "Material": "M520MPI000029",
            "UnitID": "1000001844",
            "Quantity": "720",
            "UnitOfMeasure": "PC"
        }]
    }]
}
```

Call example


```
GET   https://serviciospo.cmpc.cl:44707/RESTAdapter/W3-WarehouseConfirm

1  {
2      "row": [{
3          "WarehouseCompany": "GWSI",
4          "OutboundDelivery": "72684550",
5          "CarrierName": "CARRIER",
6          "TruckID": "TWY324",
7          "ShipmentDate": "20210908",
8          "Status": "S",
9          "Units": [{
10             "DeliveryItemRef": "10",
11             "Material": "M520MPI000029",
12             "UnitID": "1000001843",
13             "Quantity": "720",
14             "UnitOfMeasure": "PC"
```

Answer example

```
Status: 200 OK

1  {
2      "row": [
3          {
4              "Result": {
5                  "Status": "I",
6                  "Message": "Delivery N°.72684550updated in SAP system"
7              }
8          },
```

Authorization

Type: Basic Auth

The authorization header will be automatically generated when you send the request.

Username: INTPOGWSI
Password: ••••••••

	Note: The password will be sent separately.

Web Service W4-Inventory

GWSI sent daily his inventory per facility to identify differences.

Resource name: W4-Inventory

Parameter	Type	Mandatory	Description
Warehouse company	Input	Yes	Fixed value = "GWSI"
Warehouse-ID (Plant-Sto.Loc)	Input	Yes	Describes the specific Warehouse facility ID whose inventory is going to be checked. If needed, an equivalence with SAP Plant and Storage location will be created.
Table with the inventory information	Input	Yes	The warehouse sends a table with the following information: <table><tr><td>Material / Order-Item</td><td>Unit-ID</td><td>Inventory</td><td>Unit of measure</td></tr><tr><td></td><td></td><td></td><td></td></tr></table> <table><tr><td>N° of pieces</td><td>Reason of difference</td></tr><tr><td></td><td></td></tr></table> Note: The "reason of difference" can be used to describe a previous detected difference.
Table with the identified differences	Output		The web service returns a table with the identified differences, with the following information: <table><tr><td>Material</td><td>Unit-ID</td><td>Difference Inventory</td></tr><tr><td></td><td></td><td></td></tr></table> <table><tr><td>Difference pieces</td></tr><tr><td></td></tr></table> .
Error/Success message table	Output		Contains one or more messages related to the call that is being processed. S -> Successful I -> Informative E -> Error

Calling WS4

Details to call the WS by using API REST (Screenshots are from Postman tool).

Element	Detail
URI (URL)	https://serviciospo.cmpc.cl:44707/RESTAdapter/W4-Inventory

JSON to call the resource	<pre>{
	    "row": [{
	        "WarehouseCompany": "GWSI",
	        "WarehouseID": "PHILADELPHIA",
	        "InfoInventory": [{
	            "Material": "CAPM2C215MNO",
	            "UnitID": "10578660",
	            "Inventory": "0,629",
	            "UnitOfMeasure": "T",
	            "NumberOfPieces": "n/i",
	            "ReasonOfDifference": "n/i"
	        },
	    {
	            "Material": "CAPM3C275MNO",
	            "UnitID": "0U31200051",
	            "Inventory": "0,488",
	            "UnitOfMeasure": "T",
	            "NumberOfPieces": "n/i",
	            "ReasonOfDifference": "Reason 1"
	        }]
	    }]
	}</pre>

Call example	

Answer example	<pre>{
	    "row": [
	        {
	            "Differences": {</pre>

```json
            "Material": "CAPM2C215MNO",
            "Unit": "10578660",
            "DifferenceInventory": "0,612",
            "DifferencePieces": ""
        },
        "Result": {
            "Status": "E",
            "Message": "NOT OK, Inventory/Parts difference"
        }
    },
    {
        "Differences": {
            "Material": " CARL3C345CKF",
            "Unit": "10512872",
            "DifferenceInventory": "0,420",
            "DifferencePieces": ""
        },
        "Result": {
            "Status": "E",
            "Message": "NOT OK, Not reported Inventory"
        }
    },
    ]
}
```

Authorization	Params Authorization ● Headers (10) Body ● Pre-request Script Tests Settings **Type** [Basic Auth ⌄] ⓘ Heads up! These parameters hold sensitive data. To keep this data secure wh... environment, we recommend using variables. Learn more about variables ↗ The authorization header will be automatically generated when you send the request. Learn more about authorization ↗ Username [INTPOGWSI] Password [••••••••] <u>Note</u>: The password will be sent separately.