

MIEIC FEUP

Sistemas de Informação

Interoperability Deliverable

Group Description

Class ID: 4MIEIC05

Group ID: E

Project ID: GRAO - P2 Picking Wave

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Core Views

The core-view represented below (GRAO_CLI_ORD/GRAO_SUPP_ORD) is the interface presented when managing both Client and Supplier Orders which will receive information from the following Web Services: CLI_ORD_LST, SUP_ORD_LST, CLI_ORD_PRD_LST, SUP_ORD_PRD_LST, TRANSF_DOC.

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Client Orders

☐

↑ #

Id

Client

Request Date

Arrival Date

<input type="checkbox"/>	1	RDAZTDA1	Lorem	01-03-2018	25-04-2018
↑ ProductSectionQtyStock					
		Dolor	C	3	6
		Ipsum	B	4	5
		Lorem	A	3	4
		Sit	D	4	8
<input type="checkbox"/>	2	JRGEOYK4	Ipsum	06-03-2018	27-04-2018
↑ ProductSectionQtyStock					
		Dolor	C	3	6
		Ipsum	B	4	5
		Sit	D	4	10
<input checked="" type="checkbox"/>	3	PIEASD31	Dolor	03-03-2018	26-04-2018
<input type="checkbox"/>	4	TSDFS123	Sit	02-03-2018	25-04-2018

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While the core-view below (GRAO_ROUTE_VW) represent the Picking Route for the selected orders in the core-view above, which will interact with the following Web Services: CLI_ORD_PRD_LST, SUP_ORD_PRD_LST, WARE_TRANSF, LIST_WARE.

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Picking Route

A1

A2

A3

☒

↑ shelf

product

qty

order id

client

<input checked="" type="checkbox"/>	1	Lorem	3	RDAZTDA1	Sit
<input checked="" type="checkbox"/>	2	Ipsum	5	JRGEOYK4	Dolor
<input type="checkbox"/>	4	Sit	1	TSDFS123	Lorem

☐

↑ shelf

product

qty

order id

client

<input type="checkbox"/>	1	Amet	3	RDAZTDA1	Sit
<input type="checkbox"/>	2	Consectetur	5	JRGEOYK4	Dolor
<input type="checkbox"/>	3	Adipiscing	7	PIEASD31	Ipsum

☐

↑ shelf

product

qty

order id

client

<input type="checkbox"/>	1	Elit	3	RDAZTDA1	Sit
<input type="checkbox"/>	2	Sed	5	JRGEOYK4	Dolor

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Webservices

Client Order Listing

Webservice ID

CLI_ORD_LST

Webservice Description

This API access allows us to populate the *Client Orders* tab.

Therefore, it is necessary to extract from Primavera a client order's unique order identification code, the date of request, the expected delivery date and the current order status (either total or partial).

Related Core View(s)

This webservice is related to core view GRAO_CLI_ORD.

Input Example

Body

```
SELECT CD.Id, CD.Data, CD.DataDescarga, CD.Entidade, CDS.Estado
FROM CabecDoc CD, CabecDocStatus CDS
WHERE CDS.IdCabecDoc = CD.Id AND CD.TipoDoc = 'ECL'
```

API URL

POST {{apiUrl}}Administrador/Consulta

Expected Output

```
{
  "Id": "45d9cb6c-ebd8-11dd-8838-000c2989a062",
  "Data": "2018-04-15T00:00:00",
  "DataDescarga": "2018-04-18T00:00:00",
  "Entidade": "SOFRIO",
  "Estado": "T"
}
```

Supplier Order Listing

Webservice ID

SUP_ORD_LST

Webservice Description

This API access allows us to populate the *Supplier Orders* tab.

Therefore, it is necessary to extract from Primavera a supplier order's unique order identification code, the date of request and current order status (either pending or completed).

Related Core View(s)

This webservice is related to core views GRAO_SUPP_ORD.

Input Example

Body

```
SELECT CC.Id, CC.DataDoc, CC.DataDescarga, CC.Entidade, CCS.Estado  
FROM CabecCompras CC, CabecComprasStatus CCS  
WHERE CC.Id = CCS.IdCabecCompras AND CC.TipoDoc = 'ECF'
```

API URL

POST {{apiUrl}}Administrador/Consulta

Expected Output

```
{  
  "Id": "b2830291-e987-11dd-9538-000c29f83a13",  
  "Data": "2018-01-23T00:00:00",  
  "DataDescarga": "2018-01-27T00:00:00",  
  "Entidade": "F0001",  
  "Estado": "P"  
}
```

List Client Order Products

Webservice ID

CLI_ORD_PRD_LST

Webservice Description

Whilst expanding each client order, the user must be able to check out which products belong to it and their respective quantities as well as warehouse location. The current stock parameter is extracted for comparison with the quantity attribute to check if the order may be fulfilled at the time or whether it is necessary to create a new supplier order.

Additionally, product specifications and location is also utilized on the route menus.

Related Core View(s)

This webservice is related to core view GRAO_CLI_ORD and GRAO_ROUTE_VW.

Input Example

Body

```
"SELECT CD.Id, CD.Entidade, A.Artigo, A.Descricao, A.LocalizacaoSugestao,
LD.Quantidade, A.STKActual
FROM CabecDoc CD, LinhasDoc LD, Artigo A, V_INV_ArtigoArmazem VAA
WHERE A.Artigo = LD.Artigo AND A.Artigo = VAA.Artigo AND LD.IdCabecDoc =
CD.Id AND LD.Localizacao = VAA.Localizacao"
```

API URL

POST {{apiUrl}}Administrador/Consulta

Expected Output

```
{
  "Id": "824325af-06a2-4ff2-8751-58c2580f1210",
  "Entidade": "MICROAVI",
  "Artigo": "B0004",
  "Descricao": "Ddram2 1024Mb 533Mhz PC2 4200",
  "LocalizacaoSugestao": "A4",
  "Quantidade": 1,
  "STKActual": 12
},
{
  "Id": "824325af-06a2-4ff2-8751-58c2580f1210",
  "Entidade": "MICROAVI",
  "Artigo": "B0005",
  "Descricao": "TFT 19\" HV-926TS 1280x1024",
  "LocalizacaoSugestao": "A4",
  "Quantidade": 1,
  "STKActual": 8
}
```

List Supplier Order Products

Webservice ID

SUP_ORD_PRD_LST

Webservice Description

Whilst expanding each supplier order, the user must be able to check out which products belong to it and their respective quantities as well as expected warehouse location. The current stock parameter is extracted to manage future inventory updates. Additionally, product specifications and location is also utilized on the route menus.

Related Core View(s)

This webservice is related to core view GRAO_SUPP_ORD and GRAO_ROUTE_VW.

Input Example

Body

```
"SELECT CC.Id, CC.Entidade, A.Artigo, A.Descricao, VAA.Localizacao,  
LC.Quantidade, A.STKActual  
FROM CabecCompras CC, LinhasCompras LC, Artigo A, V_INV_ArtigoArmazem  
VAA  
WHERE A.Artigo = LC.Artigo AND A.Artigo = VAA.Artigo AND LC.IdCabecCompras  
= CC.Id"
```

API URL

POST {{apiUrl}}Administrador/Consulta

Expected Output

```
{  
  "Id": "b2830295-e987-11dd-9538-000c29f83a13",  
  "Entidade": "F0002",  
  "Artigo": "MP002",  
  "Descricao": "Laminado",  
  "Localizacao": "A1",  
  "Quantidade": 34.5999984741211,  
  "STKActual": 103.8  
}
```

Transform Document

Webservice ID

TRANSF_DOC

Webservice Description

This API access allows us to create a shipping guide in Primavera when all the items linked to a certain order are picked up.

Related Core View(s)

This webservice is related to core view GRAO_CLI_ORD.

Input Example

Body

```
{
  "Tipodoc": "GR",
  "Serie": "A",
  "Entidade": "C0001",
  "TipoEntidade": "C",
  "DataDoc": "11/29/2018",
  "DataVenc": "11/29/2018"
}
```

API URL

POST {{apiUrl}}Compras/Docs/TransformDocument/ECL/A/12/000/true

Expected Output

true

Warehouse Transfers

Webservice ID

WARE_TRANSF

Webservice Description

This API access allows us to transfer a specific quantity of a product from one location to the other within the company.

Related Core View(s)

This webservice is related to core view GRAO_ROUTE_VW.

Input Example

Body

```
{
  "TipoDoc": "TRA",
  "Serie": "A",
  "Data": "02/12/2018",
  "Moeda": "EUR",
  "LinhasOrigem":
  [{
    "Artigo": "A0002",
    "Armazem": "A1",
    "Localizacao": "A1",
    "Lote": "",
    "Quantidade": 2,
    "PrecUnit": 2,
    "INV_EstadoOrigem": "DISP",
    "LinhasDestino":
    [{
      "Artigo": "A0002",
      "Armazem": "A2",
      "Localizacao": "A2",
      "Lote": "",
      "Quantidade": 2,
      "PrecUnit": 2,
      "INV_EstadoDestino": "DISP"
    }]
  }]
}
```

API URL

POST {{apiUrl}}Inventario/Transferencias/CreateTransfer

Expected Output

true

List Warehouses Names

Webservice ID

LIST_WARE

Webservice Description

This API access allows us to list every name of the warehouses sections in the company.

Related Core View(s)

This webservice is related to core view GRAO_ROUTE_VW.

Input Example

Body

"SELECT AL.Localizacao FROM Armazens A, ArmazemLocalizacoes AL WHERE AL.NomeNivel = 'PISO' AND A.Armazem = AL.Armazem"

API URL

POST {{apiUrl}}Administrador/Consulta

Expected Output

```
{
  "Localizacao": "A1.A.1"
},
{
  "Localizacao": "A1.A.2"
},
{
  "Localizacao": "A1.B.1"
},
{
  "Localizacao": "A2.A.1"
},
{
  "Localizacao": "A2.B.1"
},
{
  "Localizacao": "A2.B.2"
}
```