# MIEIC FEUP

# Sistemas de Informação Interoperability Deliverable

# **Group Description**

Class ID: 4MIEIC05

Group ID: E

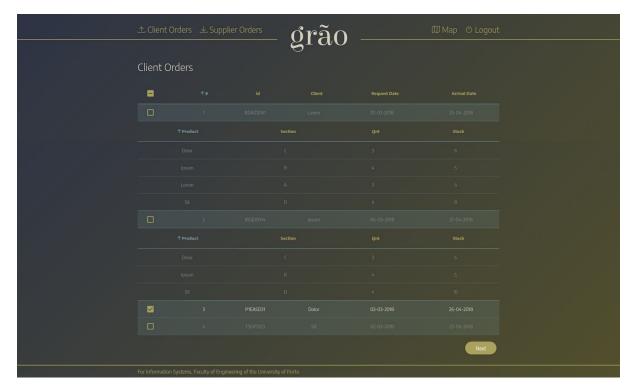
Project ID: GRAO - P2 Picking Wave

#### Related Students:

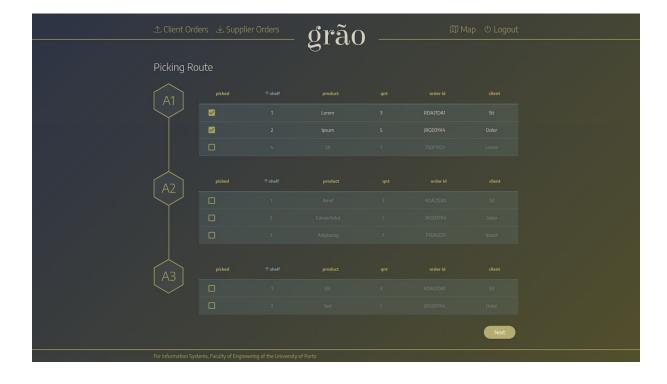
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# Core Views

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, TRANSF\_DOC.



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.



# 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

```
{
    "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

```
{
    "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

```
{
        "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

```
{
    "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

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