

Web Service D&T Service

Untuk Build 1.0.202005141

I. WEB SERVICE

Web Service Aplikasi D&T Service Online ini dapat diakses pada endpoint:

<http://192.168.1.194:3310/api>

Untuk keperluan pengembangan integrasi, endpoint tersebut ditambahkan parameter sesuai dengan method yang disediakan yaitu sebagai berikut :

```
#1 /other/transaction/odoo
#2 /other/transaction/odoo/get-token
#3 /other/transaction/odoo/sap
```

II. TOKEN

untuk setiap request yang dikirimkan memerlukan token sebagai authorization request API.

Berikut ini contoh source code untuk melakukan pengambilan token.

contoh pemanggilan web service dengan php curl:

```
$json_request = {
  "username": "hilmanaachmad",
  "password": "Password1!"
}
```

// membuat json juga dapat menggunakan json_encode:

```
$request["username"] = "hilmanaachmad";
$request["password"] = "Password1!";
$json_request = json_encode($request);
```

// tentukan Content-Type pada http header

```
$header = array(
  "Content-Type" => "application/x-www-form-urlencoded",
);
```

// url service get token D&T Service Online,
"http://192.168.1.194:3310/api/other/transaction/odoo/get-token";

// setup curl\$ch = curl_init();

```
curl_setopt($ch, CURLOPT_URL, $url);
curl_setopt($ch, CURLOPT_HEADER, 0);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch, CURLOPT_HTTPHEADER, $header);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS, $json_request);
```

```
// request dengan curl
$response = curl_exec($ch);
```

contoh pemanggilan web service dengan axios javascript:

```
axios.post('http://192.168.1.194:3310/api/other/transaction/odoo/get-token', {
  'username': 'hilmanaachmad',
  'lastName': 'Password1!'
})
.then(function (response) {
  console.log(response);
})
.catch(function (error) {
  console.log(error);
});
```

IV. KATALOG METHOD WEB SERVICE KE APLIKASI DTS

Khusus untuk semua field dalam metadata adalah mandatory.
menggunakan method POST dan header authorization dengan isian
value berdasarkan token

Berikut ini daftar method :

1. Membuat PO baru

// json query

```
json_request = {
  "metadata": {
    "method": "create_po"
  },
  "data": {
    "address": "16120507422",
    "address": "Jl. KH.Abdullah Bin Nuh No.64",
    "address_bongkar": "Jl. KH.Abdullah Bin Nuh No.64",
    "category_data": "From Application",
    "customer_id": 2000000108,
    "customer_name": "TULUS MAJU CIANJUR",
    "delivery_date": "2020-05-01 10:43:14",
    "note": "Test",
    "po_date": "2020-04-28 11:43:14",
    "po_display": "-",
    "po_number": "1000/DT/AIO/DIST/04/20",
    "requestor": "3684",
    "type": "Distributor",
    "user_created": "3684",
    "product": [ {
      "code_product": 2,
      "quantity": "2410",
      "total_kubikasi": "32.942",
      "total_tonase": "20.649"
    } ]
  }
}
```

2. Memperbaharui PO

// json query

```
json_request = {
  "metadata": {
    "method": "update_po"
  },
  "data": {
    "id" : "10034"
    "address": "16120507422",
    "address": "Jl. KH.Abdullah Bin Nuh No.64",
    "address_bongkar": "Jl. KH.Abdullah Bin Nuh No.64",
    "category_data": "From Application",
    "customer_id": 2000000108,
    "customer_name": "TULUS MAJU CIANJUR",
    "delivery_date": "2020-05-01 10:23:14",
    "note": "Test",
    "po_date": "2020-04-28 08:10:32",
    "po_display": "-",
    "po_number": "1000/DT/AIO/DIST/04/20",
    "requestor": "3684",
    "type": "Distributor",
    "user_created": "3684",
    "product": [ {
      "code_product": 2,
      "quantity": "2410",
      "total_kubikasi": "32.942",
      "total_tonase": "20.649"
    }, {
      "code_product": 3,
      "quantity": "1350",
      "total_kubikasi": "31.661",
      "total_tonase": "22.846"
    } ]
  }
}
```

3. Menghapus PO

```
json_request = {
  "metadata": {
    "method": "delete_po"
  },
  "data": {
    "id" : "10034"
  }
}
```

4. Get Data Product

```
json_request = {
  "metadata": {
    "method": "get_data"
  },
  "data": "product"
}
```

5. Get Data Truck

```
json_request = {
  "metadata": {
    "method": "get_data"
  },
  "data": "truck"
}
```

Keterangan parameter Web Service ke DTS:

```
# customer_id : id customer yang terdaftar didalam aplikasi
# address : alamat customer
# address_bongkar : alamat unload
# code_product : code product yg terdaftar didalam aplikasi
# po_date, delivery_date : format "YYYY-MM-DD hh:mm:ss"
YYYY = tahun 4 digit
MM = bulan 2 digit
DD = hari 2 digit
hh = jam 2 digit
mm = menit 2 digit
ss = detik 2 digit
```

V. KATALOG METHOD WEB SERVICE KE SAP

Khusus untuk semua field dalam metadata adalah mandatory.
menggunakan method POST dan header authorization dengan isian
value berdasarkan token

1. READ TABLE

```
json_request = {
  "metadata": {
    "method": "READ_TABLE"
  },
  "data": {
    "QUERY_TABLE": "MARA",
    "OPTIONS": [{
      "TEXT": "MTART = 'ZP02'"
    }],
    "DELIMITER": "!",
    "FIELDS": [{
      "FIELDNAME": "MATNR"
    }, {
      "FIELDNAME": "BRGEW"
    }, {
      "FIELDNAME": "NTGEW"
    }, {
      "FIELDNAME": "GEWEI"
    }, {
      "FIELDNAME": "VOLUM"
    }, {
      "FIELDNAME": "VOLEH"
    }
  ]
}
```

**Struktur JSON diatas merupakan get data menggunakan rfc read
table SAP yg mana pada key QUERY_TABLE terdapat value nama table
yg akan digunakan, pada key FIELD menentukan field mana saja yang

akan diambil pada table tersebut dan untuk kondisi pengambilan data dapat di tambahkan di key OPTIONS yg disesuaikan dengan kebutuhan.

2. CANCEL PGI

```
json_request = {
  "metadata": {
    "method": "REVERSE_PGI"
  },
  "data": {
    "i_vbeln" : "#delivery number",
    "i_budat" : "#posting date"
  }
}
```

3. DELETE SO

```
json_request = {
  "metadata": {
    "method": "SALESORDER_CHANGE"
  },
  "data": {
    "SALESDOCUMENT" : "#SO Number",
    "ORDER_HEADER_INX" : [{
      "UPDATEFLAG" : "U"
    }],
    "ORDER_ITEM_IN" : [{
      "ITM_NUMBER" : "#sesuai dengan item SO",
      "REASON_REJ" : "#sesuai dengan master rejection"
    }],
    "ORDER_ITEM_INX" : [{
      "ITM_NUMBER" : "#sesuai dengan item SO",
      "REASON_REJ" : "X"
    }]
  }
}
```

4. GR DC

```
json_request = {
  "metadata": {
    "method": "GOODSMVT_ITEM"
  },
  "data": {
    "BATCH" : "#Sesuai DO batch",
    "MOVE_TYPE" : 101,
    "MVT_IND" : "B",
    "DELIV_NUMB" : "#DO Number",
    "DELIV_ITEM" : "#10, 20, 30 sesuai dengan DO item",
    "MATERIAL" : "# Sesuai dengan DO material",
    "ENTRY_QNT" : "# Sesuai dengan DO qty",
    "ENTRY_UOM" : "# sesuai dengan DO uom",
    "PO_NUMBER" : "# PO STO Number",
    "PO_ITEM" : "#10,20, 30 sesuai dengan PO item",
    "PLANT" : "# sesuai PO plant",
    "STGE_LOC" : "# sesuai PO storage"
  }
}
```

5. INTERFACE SO

```
json_request = {
  "metadata": {
    "method": "BAPI_SALESORDER_CREATEFROMDAT2"
  },
  "data": {
    "ORDER_HEADER_IN" : [{
      "DOC_TYPE"      : "YC16",
      "SALES_ORG"     : "2000",
      "DISTR_CHAN"    : "10",
      "DIVISION"      : "10",
      "SALES_OFF"      : "DA01",
      "PURCH_NO_C"    : "#PO No",
      "PURCH_DATE"    : "#Po Date",
      "REQ_DATE_H"    : "#Po Expired Date",
      "REQ_DATE_S"    : "#Po Expired Date"
    }],
    "ORDER_PARTNERS" : [{
      "PARTN_ROLE"    : "AG",
      "PARTN_NUMB"    : "#Sesuai Master"
    }],
    "ORDER_ITEMS_IN" : [{
      "PO_ITM_NO"     : "#10, 20, 30, dst",
      "STORE_LOC "    : "#sesuai master ",
      "PLANT "        : "2501",
      "MATERIAL "     : "#sesuai master"
    }],
    "ORDER_SCHEDULES_IN" : [{
      "ITM_NUMBER "   : "#10, 20, 30, dst",
      "REQ_QTY"       : "#qty per line item"
    }],
    "ORDER_CONDITION_IN" : [{
      "ITM_NUMBER"    : "#10, 20, 30, dst",
      "COND_TYPE"     : "ZF02",
      "COND_VALUE"    : "#sesuai master"
    }]
  }
}
```

6. DELETE DO

```
json_request = {
  "metadata": {
    "method": "OUTB_DELIVERY_CHANGE"
  },
  "data": {
    "HEADER_DATA" : [{
      "DELIV_NUMB" : "#delivery number"
    }],
    "HEADER_CONTROL" : [{
      "DELIV_NUMB" : "#delivery number",
      "DLV_DEL": "X"
    }]
  }
}
```

Keterangan parameter:
format date : "YYYYMMDD"
YYYY = tahun 4 digit
MM = bulan 2 digit
DD = hari 2 digit