

ERP Sap REST

Documenti Condivisi:

api_s4_production_order.pdf

Tabella di conversione campi SAP (java) con il modello REST :

oee_s4_integration_mapping.xlsx

il protocollo Rest utilizza OAuth2 quindi le trasmissioni sono attraverso un token, in questo caso v'è mandato nella header; è di tipo Bearer quindi prevede una chiave fissa "Bearer" prima del Token

il Token ha una validità descritta nel campo expire_in al momento dell'arrivo del token:

la curl per richiedere il token ha questa forma:

#token

```
curl -X POST -H "Content-Type: application/x-www-form-urlencoded" -d  
"grant_type=client_credentials&client_id=API&client_secret=SECRET"  
https://franke.prod.apimanagement.eu10.hana.ondemand.com/OAuthService/GenerateToken
```

#rueck

```
curl --request GET  
'https://franke.prod.apimanagement.eu10.hana.ondemand.com/a88a/NEXT0EE/API_PROD_ORD  
ER/ProductionOrder/1000001' --header 'APIKey: API' --header 'Authorization: Bearer  
TOKEN'
```

#falshback

```
curl --request POST  
'https://franke.prod.apimanagement.eu10.hana.ondemand.com:443/a88a/NEXT0EE/API_PROD  
_ORDER/ConfirmProductionOrder/1000007' --header 'APIKey: API' --header  
'Authorization: Bearer TOKEN' --header 'Content-Type: application/json' --data-raw  
'{ "ConfirmationDate": "2022-01-24T00:00:00", "ManufacturingOrder": "1000007",  
"YieldQuantity": "0", "ProductionUnit": "PC", "FinalConfirmatio
```

Utilizzare Postman per il debug; e caricare prendere le curl

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!--
```

```
Document      : etnconfig.xml  
Created on    : 2 febbraio 2005, 18.30  
Author       : BERGANTINO Nicola  
Description:
```

Purpose of the document follows.

```
-->
<xnetagents>
  <mtp name="nome_mtp" >
    <netmtp name="maganet" host="127.0.0.1" port="5151" />
  </mtp>
  <super_agents>
    <!-- <param name="tmmax" value="7000" /> -->
    <agent lib="/usr/lib/libiasupag.so" create="agentXNet" live="1"
name="xnet">
      <param name="ipaddr" value="ANY" />
      <param name="port" value="6161" />
    </agent>
  </super_agents>
  <agents>
    <!-- Agente gestiore della comunicazione tra framework -->
    <agent lib="/usr/lib/libiautiag.so" create="agentNetMtp" live="1"
name="netmtp">
      <param name="class0" value="agdb" />
      <param name="askp10" value="1" />
      <param name="dirask0" value="1" />
      <param name="tellp10" value="2" />
      <param name="askout0" value="2" />

      <param name="class1" value="tpevo" />
      <param name="askp11" value="2" /> <!-- 1=PKT_SEM 2=REC_SEM 0=NONE_SEM -
-->

      <param name="dirask1" value="1" />
      <param name="askout1" value="2" />
      <param name="tellp11" value="2" />
      <param name="dirtell1" value="0" />

      <param name="class2" value="ctrlpc" />
      <param name="askp12" value="0" /> <!-- 1=PKT_SEM 2=REC_SEM 0=NONE_SEM -
-->

      <param name="dirask2" value="0" />
      <param name="askout2" value="2" />
      <param name="tellp12" value="2" />
      <param name="dirtell2" value="0" />

      <param name="class3" value="tell_p1_rec" />
      <param name="tellp13" value="2" />

      <param name="class4" value="tell_p1_rec_ask_p12_pkt_out_pkt" />
      <param name="tellp14" value="2" />
      <param name="askp14" value="1" />
      <param name="askp24" value="1" />
      <param name="askout4" value="1" />

      <param name="class5" value="tell_p12_pkt_ask_p12_pkt_out_rec" />
      <param name="tellp15" value="1" />
      <param name="tellp25" value="1" />
      <param name="askp15" value="1" />
      <param name="askp25" value="1" />
      <param name="askout5" value="2" />
```

```

<param name="class6" value="tell_p1_rec_ask_out_rec" />
<param name="tello6" value="2" />
<param name="askout6" value="2" />

<param name="class7" value="ask_out_pkt" />
<param name="askout7" value="1" />

<param name="class8" value="tell_p1_rec_ask_p1_pkt_out_rec" />
<param name="tello8" value="2" />
<param name="askp8" value="1" />
<param name="askout8" value="2" />

<param name="class9" value="tell_p1_rec_ask_p1_rec_out_pkt" />
<param name="tello9" value="2" />
<param name="askp9" value="2" />
<param name="askout9" value="1" />

<param name="class10" value="tell_p12_rec_ask_p1_rec_out_rec" />
<param name="tello10" value="2" />
<param name="tello210" value="2" />
<param name="askp10" value="2" />
<param name="askout10" value="1" />

<param name="class11" value="tell_p12_pkt_ask_p1_rec_out_rec" />
<param name="tello11" value="1" />
<param name="tello211" value="1" />
<param name="askp11" value="2" />
<param name="askout11" value="2" />

<param name="class12" value="ask_p1_rec_out_rec" />
<param name="askp12" value="2" />
<param name="askout12" value="2" />

<param name="class13" value="tell_p1_rec_ask_p1_rec_out_rec" />
<param name="tello13" value="2" />
<param name="askp13" value="2" />
<param name="askout13" value="2" />

<param name="tmwait" value="7200000" />

<param name="ipaddr" value="ANY" />
<param name="port" value="5161" />
</agent>
<!-- Agente che gestisce i servizi legati al database -->
<agent lib="/usr/lib/libiautiag.so" create="agentDb" live="1"
name="tpevodb">
  <param name="libdb" value="/usr/lib/libpgdb.so" />
  <param name="libfunc" value="Cdb_Create" />
  <param name="serverdb" value="127.0.0.1" />
  <param name="dbname" value="andon" />
  <param name="usr" value="postgres" />
  <param name="pwd" value="HMtrs9hY" />
  <param name="ipnume" value="127.0.0.1" />
  <param name="portnume" value="5002" />
</agent>
<!-- Agente che si occupa del carico a magazzino dei lotti -->

```

```
<agent lib="/usr/lib/libgtrace.so.0.0.0" create="agentSimpMovi" live="0"
name="simpmovi">
  <param name="agdb" value="tpevodb" />
  <param name="agdepo" value="depo" />
  <param name="aglotto" value="lotto" />
  <param name="causca" value="SCAPR" />
  <param name="enabnpsub" value="0" />
  <param name="pparam" value="0" />
  <param name="tm" value="1000" />
</agent>
<!--Agente gestisce l'inserimento degli ordini di produzione, degli
articoli e del tempo ciclo dei prodotti-->
<agent lib="/usr/lib/libgtrace.so.0.0.0" create="agentInsOp" live="1"
name="insop">
  <param name="agdb" value="tpevodb" />
  <param name="agsm" value="simpmovi" />
</agent>
<agent lib="/usr/lib/libniserp.so.0.0.0" create="agentRestSAP" live="1"
name="sapnis">
  <param name="agdb" value="tpevodb" />
  <param name="agop" value="insop" />
  <param name="urlpref"
value="https://franke.prod.apimanagement.eu10.hana.ondemand.com" />
  <param name="urlget"
value="/a88a/NEXT0EE/API_PROD_ORDER/ProductionOrder" />
  <param name="urlpost"
value="/a88a/NEXT0EE/API_PROD_ORDER/ConfirmProductionOrder" />
  <param name="bearer" value="Bearer" />
  <param name="api" value="7SggN0ISN0xAaCCckioj03yRGRAGIrpK" />
  <param name="secret" value="hcHcczWs23n3Eku2" />
</agent>
</agents>
</xnetagents>
```