

ERP Sap REST

Documenti Condivisi:

api_s4_production_order.pdf

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

oeo_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'
```

#flashback

```
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>
  <agents>
    <!-- ... -->
    <!--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="simplmovi" />
    </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>
```

gestione ConfirmationGroup

La tabella sapinfoubi prende informazioni riguardo il ruck (codop) e postazione (postazione) da inviare con il metodo POST per il Flashing Back

```
--- drop table sapinfoubi

CREATE TABLE public.sapinfoubi (
  codop CHARACTER VARYING(51) NOT NULL,
  codubi CHARACTER VARYING(51) NOT NULL,
  confgrp CHARACTER VARYING(51),
  ordope CHARACTER VARYING(51)
);

COMMENT ON TABLE public.sapinfoubi IS 'Tabella informazioni codop-codubi arrivate
da SAP';
COMMENT ON COLUMN public.sapinfoubi.codop IS 'Rueck Ricevuto da sap';
COMMENT ON COLUMN public.sapinfoubi.codubi IS 'codice postazione';
COMMENT ON COLUMN public.sapinfoubi.confgrp IS 'ConfirmationGroup da inviare con il
flashingback';
COMMENT ON COLUMN public.sapinfoubi.ordope IS 'OrderOperation da inviare con il
flashingback';

ALTER TABLE ONLY public.sapinfoubi ADD CONSTRAINT sapinfoubi_pkey PRIMARY KEY
```

```
(codop, codubi);  
ALTER TABLE ONLY public.sapinfoubi ADD CONSTRAINT ix_sapinfoubi_codop FOREIGN KEY  
(codop) REFERENCES public.ordprod(codop) ON UPDATE CASCADE ON DELETE CASCADE;  
ALTER TABLE ONLY public.sapinfoubi ADD CONSTRAINT ix_sapinfoubi_codubi FOREIGN KEY  
(codubi) REFERENCES public.ubicaz(codice) ON UPDATE CASCADE ON DELETE CASCADE;
```

Crezione API

Generazione API, Avere Get a SAP Universal ID se manca crearlo dalla schermata di accesso

Log On

E-Mail, ID, or Login Name

Continue

SAP® ID Service



Existing Users | One login for all accounts:
[Get SAP Universal ID](#)

Create your SAP Universal ID

We just need some basic personal information and a password for your SAP Universal ID.

Already have a SAP Universal ID? [Link accounts to my SAP Universal ID](#)

First Name	Enter a first name
Last Name	
Country/Region	
SAP Universal ID E-mail	The e-mail address will be used as your new login
Password	
Re-enter Password	

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Una volta entrato da questo link:

https://frankeisprod.apibhubenterprise.cfapps.eu10.hana.ondemand.com/product/PRD_NEXT0EE

Creare una nuova app:

The screenshot shows the 'Create New Application' dialog in the SAP Cloud Platform. The 'Application Info' tab is active, displaying fields for Title (PROD API), Description, and Callback URL. A red arrow points to the 'Add Products' tab, and a red text label 'Scegliere: PRD_NEXT0EE' is visible. At the bottom, there is a checkbox 'Take me to this new application now' and 'Create' and 'Cancel' buttons.

Usare queste nell'agente Rest (AgentRestSAP)