

CCH SureTax - Determine Jurisdiction Integration Flow (iFlow)

Date Updated: 8/27/2020

Introduction:

CCH SureTax iFlow for SAP CO_TAX_JURI_DETER_SPRX, which is configured in your SAP S4/HANA Cloud system via communication scenario SAP_COM_0177.

An active CCH SureTax account for V07 is required.

Please refer to SAP's CO_TAX_JURI_DETER_SPRX documentation for details.

Please view the 'CCH SureTax Integration for SAP S4HC Technical Guide' for more details.

iFlow Details

1. URL = /WK_S4CLDtoWK_DetermineJurisdiction
2. Used by SAP system for updating SAP's Tax Jurisdiction Code with CCH SureTax's geocode for tax calculation.
 - a. Expects Tax Jurisdiction Code in SAP to be configured with the following in your SAP S/4HANA Cloud system:
 - i. TXJCD_L1 = 2
 - ii. TXJCD_L2 = 2
 - iii. TXJCD_L3 = 3
 - iv. TXJCD_L4 = 5
3. Requests to the iFlow are expected to be SOAP format matching the XSD for CO_TAX_JURI_DETER_SPRX's request (see TAX_JURISDICTION_SEND XSD below).
4. CCH SureTax API (SOAP web service) used:
 - a. GetGeocodeByZipcode – if ZIPCODE is available in TAX_JURISDICTION_SEND SOAP request.
 - b. GetGeocodeByAddress – if ZIPCODE is not available in TAX_JURISDICTION_SEND SOAP request.
5. (Optional) If address validation is enabled, address sent in request from SAP has minimum required address (Address line 1, state, Zipcode or City), and CCH SureAddress is configured in in SAP CPI, then CCH SureAddress is web service (SOAP web service) is used to include address validation functionality on top of returning tax jurisdiction code. If the criteria are not met, then CCH SureTax API's (#4) are used.
6. Returns SOAP response in format matching the XSD for CO_TAX_JURI_DETER_SPRX's response (see below WSDL from https://api.sap.com/api/CO_TAX_JURI_DETER/overview)

CO_TAX_JURI_DETER.wsdl

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions targetNamespace="http://sap.com/xi/FotETaxUS" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsoap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:tns="http://sap.com/xi/FotETaxUS"
xmlns:n1="http://sap.com/xi/SAPGlobal20/Global">
  <wsdl:documentation>
    <sid:sid xmlns:sid="http://www.sap.com/2007/03/sid"/>
  </wsdl:documentation>
  <wsdl:types>
    <xsd:schema targetNamespace="http://sap.com/xi/FotETaxUS" xmlns="http://sap.com/xi/FotETaxUS"
xmlns:xi0="http://sap.com/xi/SAPGlobal20/Global">
      <xsd:element name="TAX_JURISDICTION_RECEIVE" type="TAX_JURISDICTION_RECEIVE"/>
      <xsd:element name="TAX_JURISDICTION_SEND" type="TAX_JURISDICTION_SEND"/>
      <xsd:complexType name="ExchangeFaultData">
        <xsd:sequence>
          <xsd:element name="faultText" type="xsd:string"/>
          <xsd:element name="faultUri" minOccurs="0" type="xsd:string"/>
          <xsd:element name="faultDetail" minOccurs="0" maxOccurs="unbounded" type="ExchangeLogData"/>
        </xsd:sequence>
      </xsd:complexType>
      <xsd:complexType name="ExchangeLogData">
        <xsd:sequence>
          <xsd:element name="severity" minOccurs="0" type="xsd:string"/>
          <xsd:element name="text" type="xsd:string"/>
          <xsd:element name="url" minOccurs="0" type="xsd:string"/>
          <xsd:element name="id" minOccurs="0" type="xsd:string"/>
        </xsd:sequence>
      </xsd:complexType>
      <xsd:complexType name="LOCATION_DATA">
        <xsd:sequence>
          <xsd:element name="COUNTRY" minOccurs="0">
            <xsd:simpleType>
              <xsd:restriction base="xsd:string">
                <xsd:maxLength value="3"/>
              </xsd:restriction>
            </xsd:simpleType>
          </xsd:element>
          <xsd:element name="STATE" minOccurs="0">
            <xsd:simpleType>
              <xsd:restriction base="xsd:string">
                <xsd:maxLength value="3"/>
              </xsd:restriction>
            </xsd:simpleType>
          </xsd:element>
          <xsd:element name="COUNTY" minOccurs="0">
            <xsd:simpleType>
              <xsd:restriction base="xsd:string">
                <xsd:maxLength value="35"/>
              </xsd:restriction>
            </xsd:simpleType>
          </xsd:element>
          <xsd:element name="CITY" minOccurs="0">
            <xsd:simpleType>
              <xsd:restriction base="xsd:string">
                <xsd:maxLength value="35"/>
              </xsd:restriction>
            </xsd:simpleType>
          </xsd:element>
          <xsd:element name="ZIPCODE" minOccurs="0">
            <xsd:simpleType>
```

```
<xsd:restriction base="xsd:string">
  <xsd:maxLength value="10"/>
</xsd:restriction>
</xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD_L1" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="2"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD_L2" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="2"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD_L3" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="2"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD_L4" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="2"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="15"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="OUTOF_CITY" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="1"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="STREET_ADDRESS" minOccurs="0" type="STREET_ADDRESS_SIMPLE"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="LOCATION_HEADER">
  <xsd:sequence>
    <xsd:element name="RETCODE" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:length value="1"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="ERRCODE" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="4"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

```

```
<xsd:element name="ERRMSG" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="72"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="LOCATION_RESULTS">
  <xsd:sequence>
    <xsd:element name="COUNTRY" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="3"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="STATE" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="3"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="COUNTY" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="35"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="CITY" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="35"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="ZIPCODE" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="10"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="TXJCD_L1" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:length value="2"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="TXJCD_L2" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:length value="2"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="TXJCD_L3" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:length value="2"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

```

</xsd:element>
<xsd:element name="TXJCD_L4" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="2"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="TXJCD" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="15"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="OUTOF_CITY" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:length value="1"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="REF_INFO" minOccurs="0">
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:maxLength value="20"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:element>
<xsd:element name="STREET_ADDRESS" minOccurs="0" type="STREET_ADDRESS_SIMPLE"/>
</xsd:sequence>
</xsd:complexType>
<xsd:complexType name="STREET_ADDRESS_SIMPLE">
  <xsd:sequence>
    <xsd:element name="STREET" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="60"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="STREET1" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:maxLength value="40"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="TAX_JURISDICTION_RECEIVE">
  <xsd:sequence>
    <xsd:element name="LOCATION_HEADER" minOccurs="0" type="LOCATION_HEADER"/>
    <xsd:element name="LOCATION_RESULTS" minOccurs="0" maxOccurs="unbounded" type="LOCATION_RESULTS"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="TAX_JURISDICTION_SEND">
  <xsd:sequence>
    <xsd:element name="LOCATION_DATA" type="LOCATION_DATA"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:schema>
<xsd:schema targetNamespace="http://sap.com/xi/SAPGlobal20/Global" xmlns="http://sap.com/xi/SAPGlobal20/Global"
xmlns:xi0="http://sap.com/xi/SAPGlobal20/Global">
  <xsd:import namespace="http://sap.com/xi/FotETaxUS"/>
  <xsd:element name="StandardMessageFault">

```

```

<xsd:complexType>
  <xsd:sequence>
    <xsd:element name="standard" type="tns:ExchangeFaultData"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:schema>
</wsdl:types>
<wsdl:message name="TAX_JURISDICTION_SEND">
  <wsdl:part name="TAX_JURISDICTION_SEND" element="tns:TAX_JURISDICTION_SEND"/>
</wsdl:message>
<wsdl:message name="TAX_JURISDICTION_RECEIVE">
  <wsdl:part name="TAX_JURISDICTION_RECEIVE" element="tns:TAX_JURISDICTION_RECEIVE"/>
</wsdl:message>
<wsdl:message name="StandardMessageFault">
  <wsdl:part name="StandardMessageFault" element="n1:StandardMessageFault"/>
</wsdl:message>
<wsdl:portType name="Tax_Juri_Deter">
  <wsdl:documentation>
    <sapdoc:sapdoc xmlns:sapdoc="urn:sap:esi:documentation">
      <sapdoc:docitem applicationComponent="FI-GL-GL-F"/>
    </sapdoc:sapdoc>
  </wsdl:documentation>
  <wsdl:operation name="TaxJurisdictionCodeDetermination">
    <wsdl:input message="tns:TAX_JURISDICTION_SEND"/>
    <wsdl:output message="tns:TAX_JURISDICTION_RECEIVE"/>
    <wsdl:fault name="StandardMessageFault" message="tns:StandardMessageFault"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding type="tns:Tax_Juri_Deter" name="CO_TAX_JURI_DETER">
  <wsoap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
  <wsdl:operation name="TaxJurisdictionCodeDetermination">
    <wsdl:input>
      <wsoap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <wsoap12:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="StandardMessageFault">
      <wsoap12:fault name="StandardMessageFault" use="literal"/>
    </wsdl:fault>
  </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```