SAP SOLUTIONS FOR GOVERNANCE, RISK, AND COMPLIANCE

How-To Guide

How To Upload the XML File of Customs Offices in GTS

SAP GRC Regional Implementation Group

Applicable Releases:

GTS 7.2

Version 1

December 2008

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Type Style	Description
Example Text	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
`Example text`	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
`Example text`	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
`<Example text>`	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
`EXAMPLE TEXT`	Keys on the keyboard, for example, F2 or ENTER.

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Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

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1. Business Scenario

The list of US Port Codes is a required master data in SAP Global Trade Services (GTS) Customs Management and can be uploaded from an XML file. During upload, SAP GTS creates these port codes as customs office business partners in the system. In the current release of GTS 7.2, the port code (ex. 2809) in the XML file is used as both the *external business partner number* (if this option is selected) and the office number of the customs office in GTS.

In some cases, existing business partners (ex. 2809 Vendor John Doe) in GTS may overlap with these customs office numbers (ex. 2809 Port of San Francisco). Therefore, the upload of the XML file may generate conflicts during the business partner creation for the customs offices.

This How-To guide provides a workaround to solve the issue while uploading the XML file of customs offices. The goal is to create unique business partners for US customs offices (ex. US2809) and then assign the appropriate port code (2809).

2. Background Information

The list of US customs offices is published in the "Schedule D" from US Customs and Border Protection (CBP). Each US customs office is identified with a unique 4-digit identification number in Schedule D. In this guide, the XML file of US customs office is used to illustrate the procedure of the workaround.

Here are the major steps of the workaround provided in this guide:

1. Modify the US customs office XML file
2. Upload the customs office XML file
3. Use the ABAP program found in the Appendix of this guide as a reference to correct customs office identification number for each customs office in GTS
4. Verify the result in GTS cockpit

This guide is based on the SAP GTS 7.2 release. However, this approach can also be applied to other SAP GTS releases.

The ABAP program in Appendix A is only a sample code for reference. Please modify it accordingly to fit your system environment.

> **CAUTION**
>
> In GTS, if you have business partner external numbers in the format USxxxx where xxxx is the 4-digit official US customs office identification number; you will run into the conflicts that this workaround tries to solve. In this case, you need to modify the step 1 and step 3 accordingly. However, the approach remains the same.

3. Prerequisites

- Software

  SAP GTS 7.2

  The Compliance and Customs Management are working in your SAP GTS system.

- Hardware

  SAP GTS server

- Required/recommended expertise or prior knowledge
  - Basic knowledge of SAP GTS
  - Basic knowledge of ABAP programming
  - Basic knowledge of XML.

4. Step-by-Step Procedure

First of all, you need to get the XML file of US customs office from your data provider. The file from CBP website is not in the XML format at the time this guide is written.

4.1 Prepare the XML file of the US customs office

1. Open the XML file of the US customs offices with an editor, such as notepad.
2. Add two characters “US” in front of the 4-digit identification number for each customs office, as shown in following.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<businesspartners xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
        <custom_office identifier="PORTLAND, ME" office_no="US0101">
                <address>
                        <country name="US">
                                <region>ME</region>
                                <city>PORTLAND</city>
                        </country>
                </address>
                <contact language="EN"/>
        </custom_office>
        <custom_office identifier="BANGOR, ME" office_no="US0102">
                <address>
                        <country name="US">
                                <region>ME</region>
                                <city>BANGOR</city>
                        </country>
                </address>
                <contact language="EN"/>
        </custom_office>
</businesspartners>
```

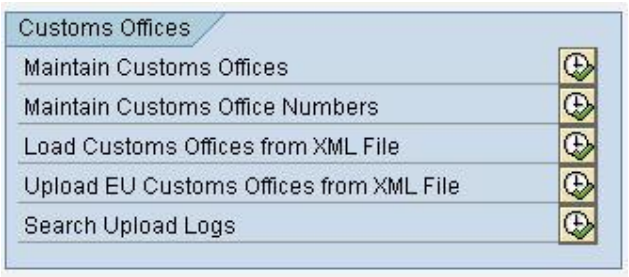
> **Note**
>
> If you already have business partners with external numbers in the format USxxxx where xxxx is the 4-digit official US customs office identification number; you can add other characters instead, such as “ABC”. However, you will need to modify the ABAP program in the Appendix of this guide accordingly.

3. Save and close the XML file.

4.2 Upload the XML file into SAP GTS system

1. From the GTS cockpit, follow the navigation path:

   SAP GTS Area Menu -> SAP Customs Management -> Master Data -> Customs Offices

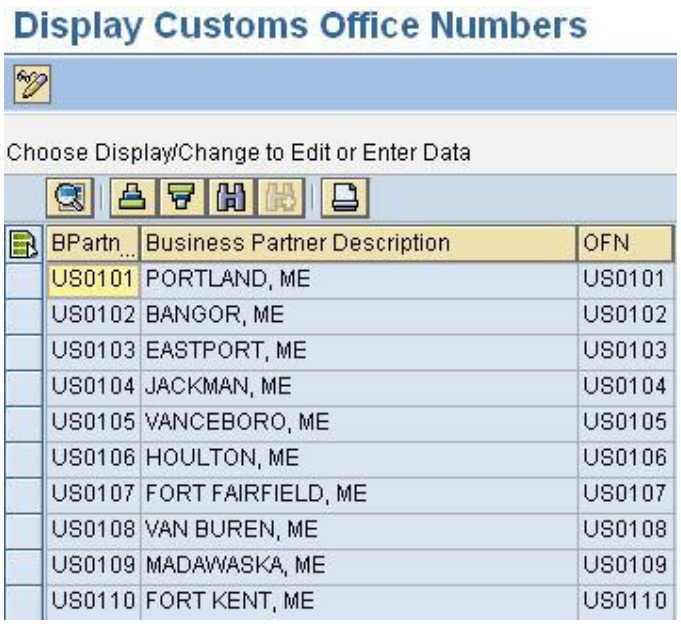


2. Before the upload, check the existing information in GTS system for legal regulation “ACE” by clicking on “Maintain Customs Office Numbers”.
3. Load the XML file by clicking on the “Load Customs Offices from XML File” in the Customs Offices section.
4. Provide the information of Data Provider, Legal Regulation, and the full path of the XML file.

   Tip

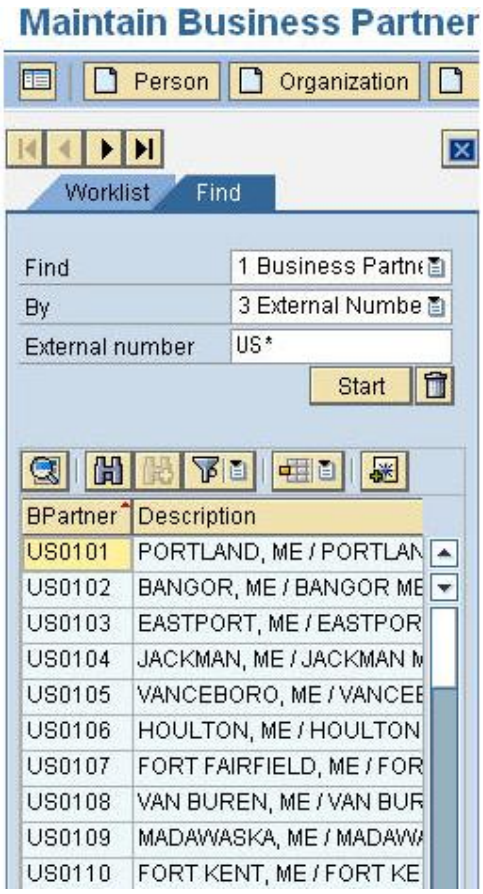
   You might want to try the “Simulation Mode” first to make sure everything is correct before the actual upload.

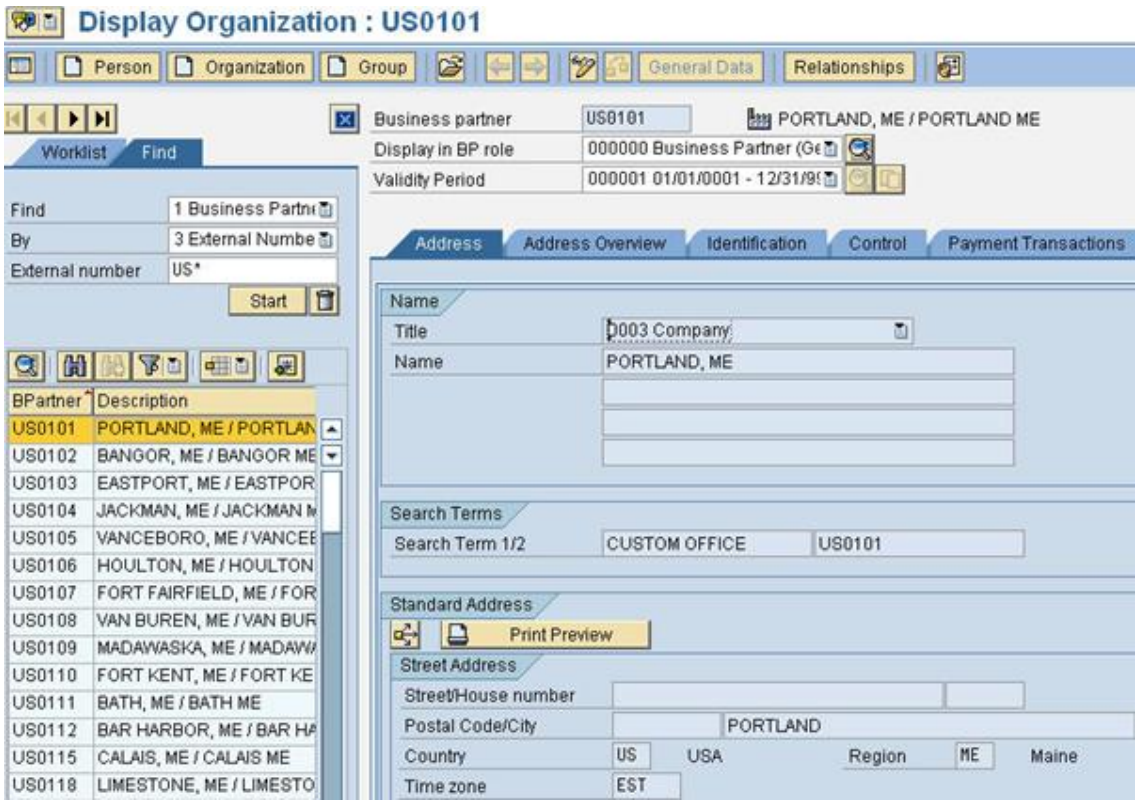
5. Click on Execution button and wait to see the message “Tasks performed successfully” in the display log.
6. Click on the Save button to save the data in database.
7. Display the result of the upload by clicking on “Maintain Customs Office Numbers” in the Customs Offices section (or transaction /SAPSLL/BP_MAIN_DNR).
8. Enter the legal regulation, and “US*” in the Business Partners selection field.



Notice the customs office identification number in the column “OFN” has the values in the format USxxxx, where the xxxx is the customs office identification number. We need to remove the prefix ‘US’ created during the XML file upload to make it a 4-digit number as published by the CBP.

9. Check the business partner creation of the customs offices after the upload with transaction BP.





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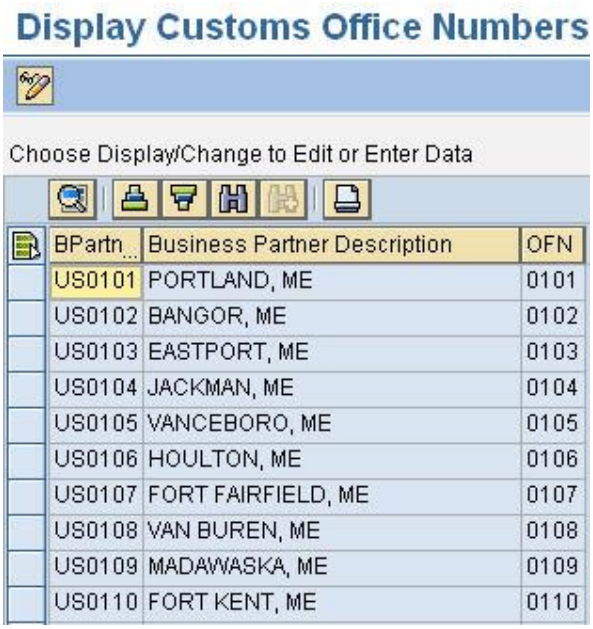
4.3 Run the modification program to update the customs office identification number in GTS

1. Create the modification program with the sample code in Appendix A as reference, by SE38. Modify it accordingly to fit your system environment.
2. Activate and execute the program.
3. Verify the result by clicking on “Maintain Customs Office Numbers” in the Customs Offices section (or transaction /SAPSLL/BP_MAIN_DNR). The column OFN should be only assigned with the 4-digit official US customs office number.



BPartn...	Business Partner Description	OFN
US0101	PORTLAND, ME	0101
US0102	BANGOR, ME	0102
US0103	EASTPORT, ME	0103
US0104	JACKMAN, ME	0104
US0105	VANCEBORO, ME	0105
US0106	HOULTON, ME	0106
US0107	FORT FAIRFIELD, ME	0107
US0108	VAN BUREN, ME	0108
US0109	MADAWASKA, ME	0109
US0110	FORT KENT, ME	0110

5. Appendix

This is only a sample code for reference. Please modify it according to your system environment.

Appendix A - ABAP program to remove the prefix for the customs office numbers in GTS

```
*&---------------------------------------------------------------------*
*& Report Z_MODIFY_OFN
*&
*&---------------------------------------------------------------------*
*& The report removes the prefix for the customs office numbers,
*& for example from 'US5582' to '5582'.
*&
*&---------------------------------------------------------------------*

REPORT Z_MODIFY_OFN.

DATA: update_needed TYPE syst-input value ' '.
DATA: l_pinid     TYPE /SAPSLL/ADRLRID-pinid.
DATA: lt_adrlrid  TYPE TABLE OF /SAPSLL/ADRLRID.
FIELD-SYMBOLS <ls_adrlrid>  TYPE /sapsll/adrlrid.

SELECT *
  FROM /sapsll/adrlrid
  INTO TABLE lt_adrlrid
  WHERE pinid like 'US%'.

IF sy-subrc = 0.
  LOOP AT lt_adrlrid ASSIGNING <ls_adrlrid>.
    l_pinid = <ls_adrlrid>-pinid.
    SEARCH l_pinid for 'US*'.
    IF SY-SUBRC = 0 and ( strlen( l_pinid ) = 6 ).
      <ls_adrlrid>-pinid = l_pinid+2(4).
      update_needed = 'X'.
    ENDIF.
  ENDLOOP.
  IF update_needed = 'X'.
    update /SAPSLL/ADRLRID from TABLE lt_adrlrid.
    IF sy-subrc = 0.
      WRITE: 'The table of customs offices is updated successfully.'"#EC NOTEXT
    ELSE.
      WRITE: 'Table update failed.'.                          "#EC NOTEXT
    ENDIF.
  ENDIF.
ELSE.
  WRITE: 'There is no record to be updated. Everything is OK.'"#EC NOTEXT
ENDIF.
```