

Address Verification for Ellucian Internet Native Banner

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Introduction

- Address verification enhancements
 - Converting inputted addresses to USPS format without breaking baseline
 - Reducing the amount of returned mail due to incorrect addressing
 - Tapping into the USPS database
- In this session
 - How to use a trigger in INB to verify and convert inputted addresses to USPS format

Address Verification on INB

The screenshot displays the Oracle Fusion Middleware Forms Services interface. The main window is titled "General Person Identification SPAIDEN 8.5.3.1 (PPRD)". It features a menu bar (File, Edit, Options, Block, Item, Record, Query, Tools, Help) and a toolbar with various icons. The form contains an "ID:" field with a dropdown menu showing "@00185067" and a text field containing "Doe, John". A "Generate ID:" button is also present.

An error dialog box titled "Banner Error and Warning Messages GUAERRM 8.0 (PPRD)" is overlaid on the form. The dialog contains the following text:

ORA-20001:
This address is not recognized by the USPS.
Press 'SAVE' again to save what you provided.

The dialog has a "Close..." button at the bottom right. The background form shows a "Current Identification" section with the following labels: From Date, Address Type, Sequence Number, Street Line 1, Street Line 2, Street Line 3, City, State or Province, ZIP or Postal Code, County, Nation, and Telephone Type.

The status bar at the bottom of the window displays "Close window.", "Record: 1/1", and "<OSC>".

Benefits of attending

- Learn how to
 - Contact SmartyStreets for address verification API plan (free for educational use)
 - Install and use PL/SQL packages
 - Install and use PL/SQL trigger
 - Enter data in Crosswalk Validation GTVSDAX to make address verification API work
 - Enhance your PL/SQL knowledge

Agenda

- Why Address Verification
- Terminology and basic requirements
- PL/SQL and Banner form

Why address verification

NMHU's philosophy for address verification

- [Address verification demo](#)
- We require verification of address without touching baseline code
 - Banner form – General Person Identification SPAIDEN
 - Alert Banner users if inputted address:
 - Is not recognized by the USPS
 - Has missing secondary number
 - Has bad secondary address

Terminology and basic requirement

Terminology

- Application Program Interface (API)
- Procedural Language/Structured Query Language (PL/SQL)

Basic requirements to run address verification

- Scripts

- SWKADDR.SQL and SWKADD1.SQL
 - Must be compiled as BANINST1 in Oracle database
- SWTADDR1.SQL
 - Must be compiled as SATURN in Oracle database

- Banner Form

- GTVSDAX

PL/SQL and Banner form

NMHU's SWKADDR.SQL and SWKADD1.SQL

- These scripts are relatively long so they are not included in this PowerPoint (contact ken@nmhu.edu for scripts)
 - SWKADDR.SQL is a package specification
 - SWKADD1.SQL is a package body
- SWKADDR.P_VERIFYADDRESS(...)
 - Procedure to pass address to SmartyStreets API for verification

NMHU's SWTADDR1.SQL

- This script is relatively long so it is not included in this PowerPoint (contact ken@nmhu.edu for script)
 - SWTADDR1.SQL is a trigger
- ST\$ADDRESS_VERIFICATION
 - Trigger to verify address

Banner Form GTVSDAX

Oracle Fusion Middleware Forms Services: Open > GTVSDAX

File Edit Options Block Item Record Query Tools Help

Crosswalk Validation GTVSDAX 8.5.2.5 (PPRD)

----- Internal -----

Code:	DEBUG	Sequence:	1	Group:	ADDRESSVERIFICATION	External Code:	DC096B4E2BBBA17
Description:	7E1D2E5A71AA7E7C97BCE62C0DF3C4		Concept:	9C305E0B33520B6A892		Translation Code:	
Reporting Date:		Sys:	G	General	<input type="checkbox"/> Sys Required	Last Update:	KEN 04-APR-2014
Comments:							

Code:	DEBUG	Sequence:	2	Group:	ADDRESSVERIFICATION	External Code:	NOT USED
Description:	99d2d232-6700-41a9-b8c6-f89cde		Concept:	a4cb68		Translation Code:	
Reporting Date:		Sys:	G	General	<input type="checkbox"/> Sys Required	Last Update:	KEN 04-APR-2014
Comments:							

Code:	DEBUG	Sequence:	3	Group:	ADDRESSVERIFICATION	External Code:	NOT USED
Description:	ej7qyv0cF44JxXgVXI07ZyEsMbkfx		Concept:	BBczzWsC4pxYPn8RIAFH31cGmKl2		Translation Code:	
Reporting Date:		Sys:	G	General	<input type="checkbox"/> Sys Required	Last Update:	KEN 04-APR-2014
Comments:							

Enter Internal Code

Record: 11/14 | ... | <OSC>

Banner Form GTVSDAX (continued)

Oracle Fusion Middleware Forms Services: Open > GTVSDAX

File Edit Options Block Item Record Query Tools Help

Crosswalk Validation GTVSDAX 8.5.2.5 (PPRD)

----- Internal -----

Code:	DEBUG	Sequence:	2	Group:	ADDRESSVERIFICATION	External Code:	NOT USED
Description:	99d2d232-6700-41a9-b8c6-f89cde		Concept:	a4cb68		Translation Code:	
Reporting Date:		Sys:	G	General	<input type="checkbox"/> Sys Required	Last Update:	KEN 04-APR-2014
Comments:							

Code:	DEBUG	Sequence:	3	Group:	ADDRESSVERIFICATION	External Code:	NOT USED
Description:	ej7qyv0cF44JxXgVXI07ZyEsMbkfx		Concept:	BBczzWsC4pxYPn8RIAFH31cGmKl2		Translation Code:	
Reporting Date:		Sys:	G	General	<input type="checkbox"/> Sys Required	Last Update:	KEN 04-APR-2014
Comments:							

Code:	MODULEINCL	Sequence:	1	Group:	ADDRESSVERIFICATION	External Code:	SPAIDEN
Description:	Module for addrvr inclusion		Concept:			Translation Code:	
Reporting Date:		Sys:			<input type="checkbox"/> Sys Required	Last Update:	KEN 08-APR-2014
Comments:							

Enter Internal Code

Record: 14/14 | ... | <OSC>

Banner Form GTVSDAX (continued)

Oracle Fusion Middleware Forms Services: Open > GTVSDAX

File Edit Options Block Item Record Query Tools Help

Crosswalk Validation GTVSDAX 8.5.2.5 (PPRD)

----- Internal -----

Code:	ATYPEXCL	Sequence:	1	Group:	ADDRESSVERIFICATION	External Code:	OF
Description:	Atyp for addrvr exclusion		Concept:		Translation Code:		
Reporting Date:		Sys:		<input type="checkbox"/> Sys Required	Last Update:	KEN	04-APR-2014
Comments:							

Code:	ATYPEXCL	Sequence:	1	Group:	ADDRESSVERIFICATION	External Code:	OR
Description:	Atyp for addrvr exclusion		Concept:		Translation Code:		
Reporting Date:		Sys:		<input type="checkbox"/> Sys Required	Last Update:	KEN	04-APR-2014
Comments:							

Code:	ATYPEXCL	Sequence:	1	Group:	ADDRESSVERIFICATION	External Code:	PA
Description:	Atyp for addrvr exclusion		Concept:		Translation Code:		
Reporting Date:		Sys:		<input type="checkbox"/> Sys Required	Last Update:	KEN	04-APR-2014
Comments:							

Enter Internal Code

Record: 1/14 | ... | <OSC>

Summary

- How Address Verification works
 - Trigger to verify
 - Pass address to SmartyStreets API for verification
 - Alert Banner users if inputted address is not recognized, has missing secondary number or has bad secondary address

Questions & Answers

Thank You!

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Please complete the evaluation form