NRG Address Validation v1.5.0

How can it help my business?

- ❖ Save on address correction, postage, printing/packaging and return fees
- ❖ Check address quality at time of data entry so that customer does not need to be contacted to correct errors
- ❖ Simplify data entry by performing city-state lookup based on zip code entry
- ❖ Built-in bulk address validation
- ❖ Insure that you are sending to deliverable addresses
- ❖ Proper addressing insures timely delivery
- ❖ Perform more frequent address validations without sending your data to an outside vendor
- ❖ Built-in reporting tells you how clean your data is
- ❖ Easily create Avery labels for mailings

Overview

NRG Address Validation provides integrated address management inside of FileMaker Pro. Why do you need to implement address management in your databases? First, it will help to reduce undeliverable-as-addressed mail that results from inaccurate addresses. By reducing undeliverable mail you can lower the costs of postage and printing by removing invalid addresses before you send your mailing. Second, if you are sending parcel shipments many couriers will tack on surcharges for residential, rural, and address correction. By utilizing Delivery Point Validation (DPV), Residential Delivery Indicators (RDI), rural flags and address validation you can very quickly realize great savings by reducing additional delivery charges.

What is Delivery Point Validation (DPV)?

DPV is a technology available from the United States Postal Service to help mailers identify inaccurate or incomplete addresses. The DPV System assists mailers in obtaining accurate delivery address information and facilitates identification of erroneous addresses contained in mailer address files. Mailer use of DPV helps to reduce the amount of undeliverable as addressed (UAA) pieces, which in turn will result in more efficient postal mail processing and delivery operations. DPV essentially returns yes/no against a list of over 145 million deliverable addresses.

What is Residential Delivery Indicator (RDI)?

91% of mailing addresses in the United States are classified as residential. RDI-enabled software helps you make informed shipping decisions by identifying whether a delivery type is classified as residential or business. If you are shipping to residences, you may lower costs by shipping with the Postal Service and avoid residential delivery surcharges as some shipping companies charge a higher price for delivery to a residence.

Installation

NRG Address Validation is distributed as a set of FileMaker Pro v8/9 databases which communicate with a web service thru a FileMaker plug-in.

Macintosh – OS X
Double-click on the installer and the appropriate files are placed in the FileMaker Pro directory. The NRG Address Validation files are installed in a new folder which will be placed on your Desktop. (See release notes for information on other files that are installed)

Windows 98/2000/XP
Double-click on the installer and you will be asked to locate the directory in which the FileMaker Pro application resides. The NRG Address Validation files are installed in a new folder which will be placed on your Desktop. (See release notes for information on other files that are installed)

Configuration

Open the *NRG Address Validation Blackbox.fp7* database and enter your company name and email address to request a 10-day demo request or if you have already licensed the software, enter the company name, email address and registration code provided by NRG Software, LLC and press Register

Demo Request:

Enter your company name and email address and press the Request 10-Day Demo button. You will now be able to submit up to 100 address validation requests over the next 10 days.

Registering

Once you have purchased, enter your company name, email address, account number and registration code and press the Register button. You can now submit address validation requests during your subscription term.

Now that you have requested demo access or registered the software you can perform address validation requests.

<u>Address Validation</u>
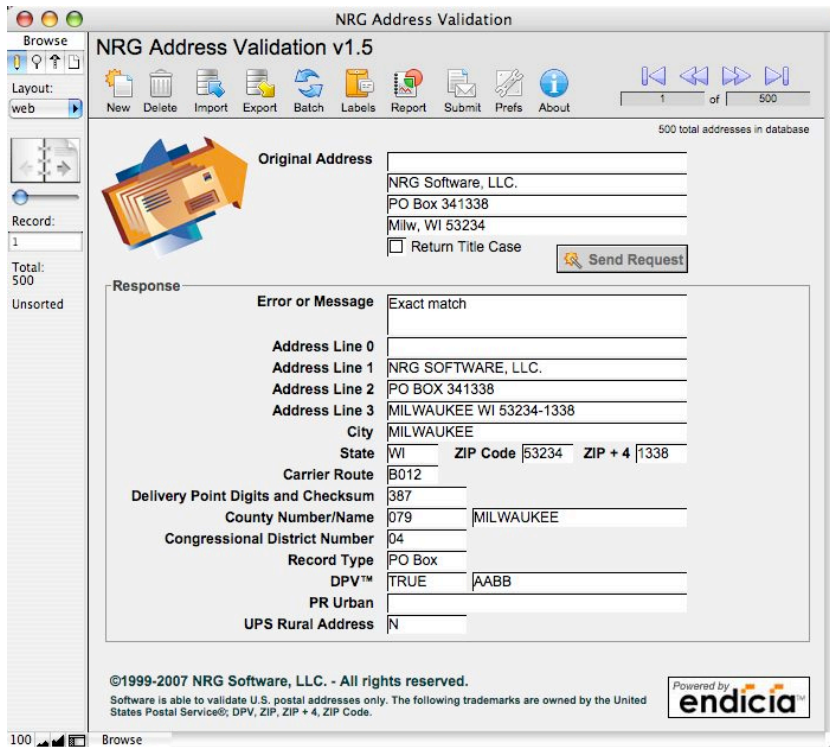
Open the NRG Address Validation.fp7 database. Several test records have been created. Simply press the Send Request button to perform address validations on this record.

How to Validate an Address

1. Open the *NRG Address Validation.fp7* database.
2. Press the New button to create a new record.
3. Enter as much information into the Original address fields and press the Send Request button. The address validation servers will respond back with a standardized address and delivery point validation for the original address.
4. Import/export functionality as well as batch processing can be done from inside the *NRG Address Validation.fp7* database

Label Printing

Avery labels can be easily printed for mailing purposes by clicking on the Labels button, with the option to exclude addresses which could not be validated to postal standards.

Reporting

Quickly print or preview a summary report for the found set or all records in the database after cleanup to better understand your quality of data.

NRG Address Validation
Cleanup Summary

Response Message	Records	Modified	No Change	DPV™ Valid	DPV™ Invalid	RDI™ Residence	RDI™ Business
Default match, more	124	124	0	124	0	79	45
ERR: Address not found	4	0	4	0	4	0	0
ERR: City, State and ZIP	35	0	35	0	35	0	0
ERR: Multiple matches, too	9	0	9	0	9	0	0
Exact match	334	333	1	324	10	44	290
Totals	506	457	49	448	58	123	335

Invalid Address Submission

If you feel you are receiving messages in error regarding address quality, you can now submit your error records in Excel format to NRG Software for further review. You may not receive a personal response to your submission – this data is used for research and development purposes only.

Integration

In addition to the *NRG Address Validation Blackbox.fp7* database which performs the primary communication and data conversion with the address validation servers you will find ancillary databases which provide specific functionality.

NRG Address Validation.fp7 – Provides address validation services via the

The field names in this database are well-defined and easy to decipher:

Field Name	Type	Description
ConstantKey	Number	Always set to 1
AddrVal_ID	Text	Incremental ID for each record
UserID	Text	Use this field for your own ID's to relate to external files
Address0	Text	Address to validate, line 0 (top)
Address1	Text	Address to validate, line 1
Address2	Text	Address to validate, line 2
Address3	Text	Address to validate, line 3
Response_ReturnCode	Text	Error number, if any
Response_Zip5	Text	Zip Code
Response_Plus4	Text	Zip +4
Response_CRT	Text	Carrier Route
Response_AddrLine3	Text	Company name, if not in Response_AddrLine2
Response_AddrLine2	Text	Secondary delivery data or Company Name
Response_AddrLine1	Text	Delivery (Street) line
Response_AddrLineLast	Text	City, State, ZIP Code line of address
Response_City	Text	City
Response_State	Text	State abbreviation
Response_DPDigits	Text	Delivery Point digits and checksum used for POSTNET barcoding

Response_CountyNo	Text	County Number
Response_LOTSeq	Text	Planned for future use.
Response_LOTAscend	Text	Planned for future use.
Response_CongressDist	Text	Congressional district number
Response_DelSeq	Text	Planned for future use.
Response_AddrExists	Text	Delivery Point Validation response, TRUE if a valid address
Response_AMSDate	Text	AMS database used for verification. Format is CCYYMMDD
Response_RecType	Text	Contains value of Firm, Street or PO Box
Response_LACSStatus	Text	Planned for future use.
Response_CountyName	Text	County name for address
Response_RDI	Text	Contains value of Residential or Business
Response_DPVFootNote	Text	More verbose DPV description
Response_PRUrban	Text	Alternate address line which may be returned for Puerto Rican addresses
Response_UPSRural	Text	Contains value of Y if address is rural per UPS
Response	Text	Full response from web service returned with pipe delimiter
Response_Msg	Text	Description of Response_ReturnCode
CurRec	Calculation	Current record number
CurFound	Calculation	Current found count
TotalRec	Calculation	Total records in database
Icon	Container	Icon that displays DPV status (Star if good)

Integrating with other FileMaker Databases

Included with the Address Validation Database is a sample Integration example. If you have a basic knowledge of FileMaker Development you can open this file and "dissect" it to see the type of changes required to your own solutions. Following are the steps we took to create this sample database.

1. Created new database with generic address fields and unique id
2. Opened AddrInfo database and created a new field with the name/type of the field used for the unique ID in Integration database
3. Created relationship in Integration database between UserID fields. Checked allow creation of related records.
4. Added fields from relationship (response_* fields) to layout
5. Created script to perform address validation. First it sets values in the related file to the value of the current record. It then goes to Related Record (show only related is checked) and invokes the external script to perform address validation.
6. Added a button to layout and set script to the Address Validation script that was just created
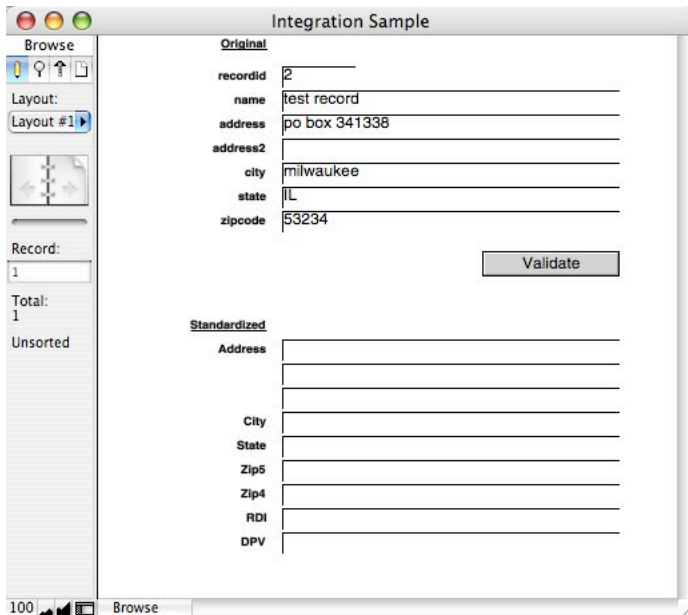
As you can see, it's very easy to integrate the Address Validation database with your existing FileMaker solution.

Faceless Interface

Once the software is registered you will no longer see the splash screen on startup. In addition you can also "lock down" the solution so that end-users cannot access the address validation layouts. First, open the NRG Address Validation Blackbox.fp7 database in single user mode (non-server). Next, select Script->Lock Solution. Enter in a special password which can be used to unlock the files if necessary. To unlock the solution, open again in single user mode and select the Unlock Solution script.

Multi-User Support

If you have purchased a multi-user license, you can enable multi-user sharing in the NRG Address Validation Blackbox.fp7 file by selecting Scripts->Toggle Multi-User Status. Once sharing is enabled, files can be placed on FileMaker Server v7/8 for network validation.

Support

Support for setup and initial configuration is available for 90 days from date of purchase thru email by sending a message to support@nrgsoft.com or calling 262-432-0934. NRG Software is able to provide integration of the Address Validation functions with your solution for a nominal fee.

Purchasing

Contact NRG Software via phone, fax or email for pricing information. The Address Validation Database is available for $450 for a single user, one-year subscription and you can perform 60,000 (or 5k/month) address validation requests during your subscription period.

Contacting NRG Software

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http://www.endicia.com/default.cfm?referredby=pnrg

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Sample data in Address Validation file provided by Brian Dunning
http://www.briandunning.com/sample-data/