



Parascript® AddressSelect™

Delivering mail to the right place, at the right time.

Integrators and the Multi-Line Optical Character Recognition (MLOCR) transport vendors are well versed on the challenges associated with address validation. Incorrect address entries on mail pieces are rampant and address validation with the USPS database is not an option but a mandated necessity for gaining mailing discounts.

With Parascript's *AddressSelect*, a high performance address validation engine, you can reduce incorrect address entries, gain postage discounts and comply with USPS guidelines. *AddressSelect*, a complementary solution to current MLOCR engines, automatically validates addresses and assigns correct 11-digit zip codes to mail pieces.

Your first step to maintaining accurate address validation

AddressSelect broadens Parascript's advanced address recognition to address validation process. Address validation is executed through the following steps:

- **Contextual Analysis**
AddressSelect analyzes raw OCR data to correct misread, missed, unnecessary and erroneously segmented characters.
- **Address Parsing**
AddressSelect parses address data into elements such as city, state, ZIP, street address, and other components to support further address assignment.
- **Address Matching**
AddressSelect compares the address components information to data stored in the USPS Address Database. When a match is found, *AddressSelect* assigns 11-digit zip code and returns address in the standardized form.

Product Benefits

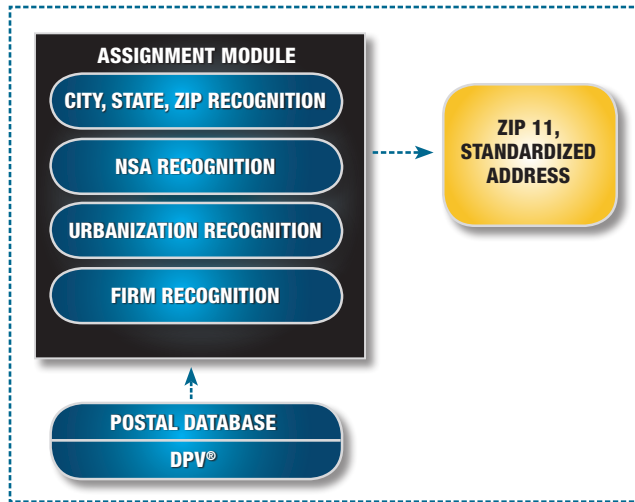
- **Comply with US Postal Authority Standards**
Parascript is committed to working with standard bodies nationwide for improved address validation. Parascript's *AddressSelect* engine meets USPS/Coding Accuracy Support System (CASS™) certification standards and requirements.
- **Qualify for Mailing Discounts**
When looking to add address validation and correction services to your offering, qualifying for mailing discounts is no doubt a top priority. *AddressSelect* enables you to get the highest available automated-mail postage discounts from the United States Postal Service (USPS).
- **Integrate Seamlessly with your MLOCR Transports**
AddressSelect delivers seamless API integration with MLOCR transports and/or third party OCR engines.
- **Get Industry Leading Assignment Rates and Low Error Rates**
AddressSelect works with multiple character interpretation and character segmentation hypotheses to deliver the industry's highest assignment rates and lowest error rates.
- **Enhance Addresses with 11 Digit Zip Code For Accurate Delivery**
AddressSelect reduces the amount of undeliverable mail by comparing raw address hypotheses with the USPS database and then assigns the correct 11-digit zip code to mail pieces.
- **Differentiate Between Informative Data and Random Characters**
AddressSelect efficiently filters noise and can differentiate between informative data and random characters.
- **Gain International Flexibility**
AddressSelect can be customized to country specific address validation and correction applications whenever local postal databases are available.

How AddressSelect Works



ADDRESS HYPOTHESES
PRODUCED BY MLOCR
ENGINE OR KEYING
OPERATOR

ASCII
STRINGS



1. Accepts raw character results produced by MLOCR engine or raw text strings keyed by and operator
2. Executes contextual analysis of the data and corrects misread, missed unnecessary, and erroneously segmented characters
3. Parses address data into address elements, (city, state, ZIP, street address) to support further address matching
4. Generates a number of address hypotheses from address elements using USPS Zip+4 Database
5. Selects the best hypothesis based on a match with USPS Zip+4 Database and outputs the final answer

Technical Product Specifications

System Structure

- AddressSelect consists of two main elements: validation engine and postal databases (ZIP+4 and DPV).
- Organized as Dynamic Link Libraries (DLLs), the recognition engines communicate through an Application Programming Interface.

Components and File Sizes

- Dynamic Link Libraries: 6.6 MB
- Postal database: 712 MB
- Data files: 1.83 MB
- Software Development Kit: supplied on 2 CD-ROMs and may be integrated with other address-processing applications.

Requirements

- Platforms and OS Support: A 32-bit version runs under Windows NT Service Pack 6, Windows 2000 Service Pack 2, Windows XP, Windows 2003

Server

- CPU: Pentium III, 500 MHz recommended
- RAM: 256 MB minimum
- Storage: 70 MB of free hard drive space. The USPS database requires an additional 712 MB of storage that may reside either on a CD-ROM or hard drive.

Input

- Address hypotheses produced by MLOCR engines or keying operators.

Output

- 11-digit zip code, address in standardized form

Customization

- AddressSelect offers porting to platforms and operating systems other than Windows® NT® 4.0, Windows 2000, Windows XP®.

AddressSelect is just one of many solutions within Parascript's product suite. For more information visit our web site at www.parascript.com



PARASCRIPT®