

Release Notes

This document provides information for the Finalist[®] 9.0.0 release. Complete documentation for the Finalist[®] 9.0.0 release can be downloaded from the Technical Support Web Site at <http://www.g1.com/Support/Docs>.

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USPS[®] Customer Support Center: <https://ribbs.usps.gov>

Who should upgrade to Release 9.0.0?	Finalist [®] customers on all platforms.
Is this Finalist[®] release required?	Yes, the Finalist [®] 9.0.0 release is required if you wish to continue processing in a CASS [™] -certified mode after July 31, 2015. No, if you do not wish to continue processing in a CASS [™] -certified mode after July 31, 2015.

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Prices for Pitney Bowes Software products, options and services are not established, controlled or approved by USPS[®] or United States Government. When utilizing RDI[™] data to determine parcel-shipping costs, the business decision on which parcel delivery company to use is not made by the USPS[®] or United States Government.

Release 9.0.0 Highlights

The Finalist® 9.0.0 release includes the following enhancements and updates:

- **Updated Finalist® Software License Key**
- **USPS® CASS™ Cycle O Support**
- **USPS® CASS™ Cycle O Changes**
- **Calling the Native Finalist® APIs Using Standard Linkage**
- **PBFNAddressDataDef**
- **PBFNAddressInfoDef Structure**
- **PBFNRtnSuiteLinkStatsDef Structure**
- **PBFNSetupDef Structure**
- **Enhanced Output File Formatting**
- **User Interface (UI) Changes**
- **CICS Screen Changes**
- **IMS Screen Changes**
- **Report Changes**

After reviewing the Finalist® 9.0.0 new and changed feature descriptions, please refer to the section “**Documentation Changes**” on page 42 for information on where these changes are documented in the Finalist® User Guides.

Updated Finalist® Software License Key

The Finalist® 9.0.0 release requires an updated software license key. This updated software license key was sent to the current (Primary User or Ship To) contact in our database automatically based on the System (CPU) ID information we have on file from your previous Finalist® software license key. If your System ID has changed, or you will be processing on a system different from your previous key, please contact your Pitney Bowes Software Account Manager to update your System ID information and request an updated key.

The expiration date for the USPS® CASS™ Cycle N is July 31, 2016. The Finalist® 8.3.0 software license key expires on July 31, 2015. The Finalist® 9.0.0 software license key expires on July 31, 2016.

Finalist® 8.3.0 Software License Key

The Finalist® 8.3.0 software license key is set to expire CASS™ certification on July 31, 2015. Finalist® 8.3.0 will continue to operate in non-CASS mode only after July 31, 2015. The Finalist® 8.3.0 key is only valid for Finalist® 8.3.0.

Finalist® 9.0.0 Software License Key

The Finalist® 9.0.0 software license key expires CASS™ on July 31, 2016. The Finalist® 9.0.0 key is only valid for Finalist® 9.0.0 versions of the Finalist® software.

USPS® CASS™ Cycle O Support

Originally, the USPS® announced that CASS™ Cycle N would end on July 31, 2015 and that the required implementation date for CASS™ Cycle O would be effective August 1, 2015. The USPS reviewed comments from impacted stakeholders including mailers, software developers, and service providers. The consensus was that the benefits of continuing to pursue CASS™ Cycle O were not demonstrated and the USPS® has announced that they have made the decision to postpone CASS™ Cycle O and extend CASS™ Cycle N to July 31, 2016.

The USPS® is encouraging all CASS™ vendors to evaluate the changes originally planned for the CASS™ Cycle O August 2015 release for implementation in future CASS™ software releases. The USPS® has stated that implementation of any of the previously-mandated CASS™ Cycle O changes is optional at this time. Pitney Bowes Software is implementing the previously-scheduled USPS® CASS™ Cycle O requirements as options for our customers.

The Finalist® 9.0.0 release is a major update to your Finalist® software that includes previously-scheduled USPS® CASS™ Cycle O requirements, enhancements, and resolved reported issues. We recommend that you upgrade to Finalist® 9.0.0 at your earliest convenience for the highest possible software product performance and reliability and to prepare for the upcoming USPS® CASS™ Cycle O requirements.

You may continue to run your 8.3.0 release of Finalist® as a CASS™-certified release through July 31, 2015. After July 31, 2015, Finalist® 8.3.0 will operate only in a non-CASS™ certified mode.

Release Version	Effective Date	CASS™ Expiration Date
8.3.0	November 2013	July 31, 2015
9.0.0	November 2014	July 31, 2016

Visit http://ribbs.usps.gov/cassmass/documents/tech_guides/ for more information on USPS® CASS™ Cycle O.

USPS® CASS™ Cycle O Changes

The Finalist® 9.0.0 release includes previously-scheduled USPS® CASS™ Cycle O requirements (now being implemented as options, where appropriate).

Carrier Route R777

The previously-planned USPS® CASS™ Cycle O regulations state that any physical address assigned a phantom route of R777 is not eligible for street delivery. In addition, Carrier Route R777:

- Cannot be assigned a ZIP + 4® code by CASS™ software
- Cannot be counted on the USPS® Form 3553 (CASS™ Summary Report)
- Must return DPV® Footnote R7

The Carrier Route R777 feature is optional for the Finalist® 9.0.0 release.

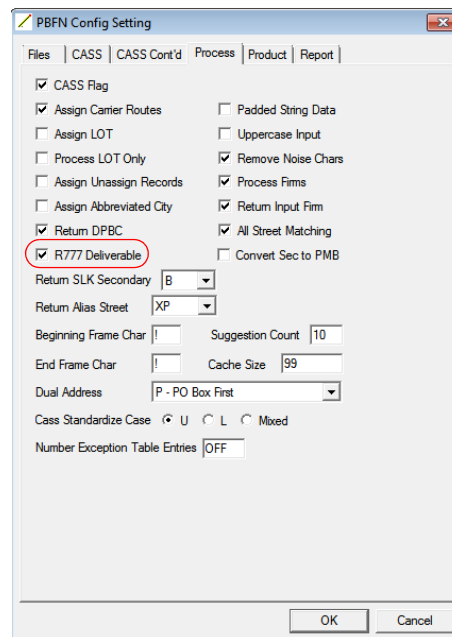
Configuration File Changes for Carrier Route R777

The configuration file (pbfncfg) includes a new line for the Carrier Route R777 feature. By default, the R777 Deliverable feature is activated (ON) to indicate that R777 addresses are to be marked as deliverable. If you want to disable the R777 feature to indicate that R777 addresses are to be marked as nondeliverable, specify "OFF" for the "R777 Deliverable" field.

Return Input Firm = ON
 All Street Matching = ON
 R777 Deliverable = ON
 Convert Secondary to PMB = OFF
 Number Exception Table Entries = OFF
 Suggestion Count = 10

pbfncfg Field	Description
R777 Deliverable	<p>Addresses with Carrier Route R777 are phantom routes and are not eligible for street delivery. Since these addresses are assigned a ZIP + 4[®] code by the USPS[®], Finalist marks these addresses as deliverable. If you do not want addresses with Carrier Route R777 marked as deliverable, set this option to OFF and the following actions are performed for the address:</p> <ul style="list-style-type: none"> • No ZIP + 4[®] code is assigned • Address is not counted on the USPS[®] Form 3553 (CASS[™] Summary Report) • DPV[®] Footnote of R7 is returned <p>Valid values are:</p> <ul style="list-style-type: none"> • OFF — R777 addresses are not deliverable. • ON — R777 addresses are deliverable. • blank — Defaults to ON.

You can also activate the Carrier Route R777 feature in the configuration file (pbfncfg) using the Workbench or Lookup Tool. From the PBFN Config Setting dialog box, click the Process tab. The Process tab includes a new R777 Deliverable check box for the Carrier Route R777 feature. By default, the R777 Deliverable check box is activated (ON). If you want to disable the R777 feature, uncheck the "R777 Deliverable" check box



DPV Footnote Code

The USPS® has created a new DPV® Footnote Code "R7" to identify Carrier Route R777 addresses. CASS™ software must return this footnote when an address matches to Carrier Route R777. The R7 footnote code indicates that the USPS® is not expected to deliver to this address.

PBFNDPVStatsDef Structure

The PBFNDPVStatsDef structure includes the new "IR7" field that indicates the total number of R7 footnotes (R777). A portion of the PBFNDPVStatsDef structure is shown below to illustrate this addition.

```
.
.
.
unsigned long    lDPVVacantFound;
unsigned int     lPB;
unsigned int     lR7;
char            cFiller2[78];
char            cFiller3[2];
} PBFNDPVStatsDef, *pPBFNDPVStatsDef;
```

PBFNSetupDef Structure

The PBFNSetupDef structure includes the new "cR777Deliverable" field to indicate how to process addresses with Carrier Route R777. A portion of the PBFNSetupDef structure is shown below to illustrate this addition.

```
.
.
.
char            cAssignDPVPBSA[ON_OFF_FLAG];
char            cR777Deliverable[ON_OFF_FLAG];
char            cConvertSecPMB[ON_OFF_FLAG];
char            cFiller4[160];
char            cFiller5[5];
} PBFNSetupDef, *pPBFNSetupDef;
```

Error Code

The Finalist® 9.0.0 release includes a new error code, 4602, to facilitate Carrier Route R777 processing. If the R777 Deliverable option is OFF, error code 4602 is generated to indicate that a record was flagged as Carrier Route R777 and is not eligible for street delivery. If the R777 Deliverable option is ON, error code 4602 is not generated.

Error Code	Description
4602	Address flagged as Carrier Route R777 is not eligible for street delivery. This error code is only generated if the option R777 Deliverable = OFF.

Finalist Batch Report

A new line has been added to the Process section of the Finalist® Batch Report Page 2 to indicate whether the option R777 Deliverable is ON or OFF.

Process Section:

CASS Flag:	ON	CASS Standardize Case:	U
Assign Carrier Routes:	ON	Return Input Firm:	ON
Assign Unassign Records:	OFF	No. Exception Tbl Entries:	OFF
Assign Abbreviated City:	OFF	Process Firms:	ON
Cache Size:	99	Beginning Frame Char:	!
End Frame Char:	!	Return DPBC:	ON
Dual Address Switch:	P	Return Alias Street Name:	XP
Assign LOT:	ON	Padded String Data:	OFF
Process LOT Only:	OFF	All Street Matching:	ON
R777 Deliverable:	ON	Convert Secondary to PMB	OFF

A new line has been added to the Processing Summary section of the Finalist[®] Batch Report Page 4 to provide R777 failure statistics. If you do not activate Carrier Route code R777 processing, the Count and % columns display zeroes for the new line.

Processing Summary	Count	%
Total Zip Codes Assigned:	469782	97.76
Total Carrier Routes Assigned:	422883	88.00
Total ZIP+4 Codes Assigned:	397202	82.66
Total records with LACS indicator:	8214	1.71
Total LOT Assigned:	397202	82.66
Total RDI Identified:	0	0.00
Total Valid But Undeliverable Addresses on AMS (4600):	446	0.09
Total ZIP+4 Suppressed due to DPV Failure (4601):	25235	5.25
Total ZIP+4 Suppressed due to R777 Failure (4602):	125	0.08

Example

Input address:

40 FLETCHER DR
PLEASANT HILL TN 38578

Previous output:

40 FLETCHER DR
PLEASANT HILL TN 38578-3001

ZIP + 4[®] code returned: **Y**

ZIP + 4[®] code printed on the USPS[®] Form 3553 (CASS[™] Summary Report): **Y**

DPV[®]: **Y**

DPV[®] Footnotes: **AABB**

New output:

40 FLETCHER DR
PLEASANT HILL TN 38578

ZIP + 4[®] code returned: **N**

ZIP + 4[®] code printed on the USPS[®] Form 3553 (CASS[™] Summary Report): **N**

DPV[®]: **Y**

DPV[®] Footnotes: **AABBR7**

Compatibility Interface (CI)

For the Init call ('0'), the new Carrier Route R777 option is not specifically available in the CI. The CI uses the default values.

If you want to use the new options, you must use the FINAL-USE-SETUP-Y option and pass parameters via the PBFNSetupDef (PBFNGCFG) structure that is imbedded in FINALIST-CALL-AREA.

DPV[®] P. O. Box[™] Street Address (PBSA) Table

The USPS[®] has added a P. O. Box[™] Street Address (PBSA) Table for DPV[®] processing. DPV[®] processing uses the PBSA Table to identify P. O. Box[™] Street Addresses (PBSA). A PBSA address is a street address that represents a USPS[®] P. O. Box[™].

Activating the PBSA Table Using the Configuration File

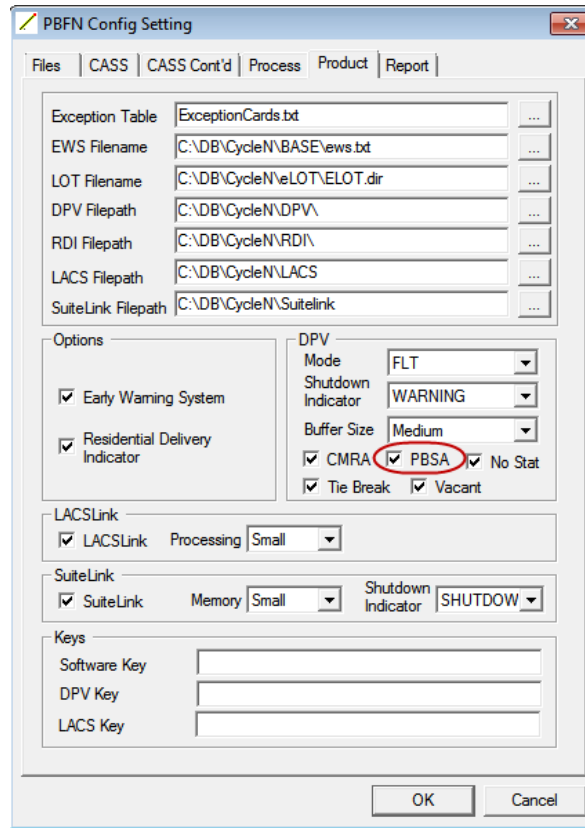
A new field has been added to the configuration file to activate the P. O. Box[™] Street Address (PBSA) Table for DPV[®] processing

```
.  
.br/>Product Section:  
-----  
Exception Table Filename =  
EWS Filename =  
LOT Filename =  
DPV Filepath =  
RDI Filepath =  
LACSLink Filepath =  
SuiteLink Filepath =  
Early Warning System =  
Delivery Point Validation =  
DPV Shutdown Indicator =  
Delivery Point Validation Tie Break =  
DPV No-Stat Table =  
DPV Vacant Table =  
DPV PBSA Table =  
DPV Buffer Size =  
Residential Delivery Indicator =  
Commercial Mail Validation =  
LACSLink =  
LACSLink Processing =  
SuiteLink =  
SuiteLink Small Memory Flag =  
SuiteLink Shutdown Indicator =  
Return SLK Input Secondary =  
SOFTWARE KEY =  
DPVKey =  
LACSLink Key =  
.br/>.br/>.
```

pbfn.cfg Field	Description
DPV PBSA Table	<p>DPV[®] processing uses the PBSA Table to identify P. O. Box[™] Street Addresses (PBSA). PBSA addresses are street addresses that really represent a USPS[®] P. O. Box[™]. This field determines whether Finalist[®] uses the PBSA Table and returns the PBSA result in the appropriate Finalist[®] structures.</p> <ul style="list-style-type: none">• OFF — Do not perform PBSA Table processing.• ON — Perform PBSA Table processing.• blank — Defaults to OFF.

Activating the PBSA Table Using the Workbench or Lookup Tool

A new check box has been added to the PBFN Config Setting dialog box Product Tab to activate the P. O. Box™ Street Address (PBSA) Table for DPV® processing.



Definition File Layout Changes for P. O. Box™ Street Address (PBSA) Information

A new keyword has been added for a Definition File Layout using component keywords for processing.

Definition File Layout Using Component Keywords

Definition Keyword	Description	Recommended Length
oDPVPBSA=x,y,a[,y]	Identifies the position (x) and length (y) of the output Delivery Point Validation (DPV®) PBSA flag.	1

Structure and Copybook Changes for P. O. Box™ Street Address (PBSA) Information

The new P. O. Box™ Street Address (PBSA) Table indicator, cDPVPBSAFound, has been added to the following Finalist® structures and copybooks.

New Field	Structure	Copybook(s)
cDPVPBSAFound	PBFNAddressDataDef	PBNFADRS PBFNRRTN
	PBFNParsedAdrAltDef	PBFNVPDS PBFNWRPA
	PBFNParsedAdrDef	PBFNJRPA PBFNLPDS
	PBFNProcessDataAltDef	PBFNXPDS PBFNZRTN
	PBFNProcessDataDef	PBFNAPDS PBFNHRTN
cAssignDPVPBSA	PBFNSetupDef	PBFNGCFG

DPV® Return Information

You can find the DPV® processing return codes and footnote codes in the PBFNProcessDataDef structure (or PBFNProcessDataAltDef). A new DPV® PBSA indicator has been added for the Finalist® 9.0.0 release.

DPV Return Indicators

Field	Description
cDPVPBSAFound	DPV® PBSA Table status indicator. <ul style="list-style-type: none">• Y — Found in the DPV® PBSA Table.• N — Not found in the DPV® PBSA Table.

DPV® Footnote Code

The following new DPV® footnote code has been added for the Finalist® 9.0.0 release.

Footnote Code	Description
PB	Input address is a P. O. Box™ Street Address (PBSA).

VeriMove™ Move Update - External CASS Support

The following new information code has been added for VeriMove™ Move Update Product External CASS™ Support.

Information Code	Length (bytes)	Description
DPV PBSA Flag	1	DPV® PBSA status. <ul style="list-style-type: none">• Blank — No DPV® results.• Y — Match to PBSA Table.• N — No match to PBSA Table.

Finalist Batch Report

The Finalist® Batch Report - Page 3 includes a new line, DPV® PBSA Table, that indicates whether Finalist® used the P. O. Box™ Street Address (PBSA) Table for DPV® processing to return the proper PBSA code to the PBFNProcessDataDef structure for the job processed.

Finalist Batch Report © YYYY Pitney Bowes Software, Inc.

Page 3

Product Section:

Exception Table Filename:

EWS Filename:	D:\PitneyBowes\CycleM\BASE\ews.txt
LOT Filename:	D:\PitneyBowes\CycleM\ELOT\ELOT.dir
DPV Filepath:	D:\PitneyBowes\CycleM\DPV\
RDI Filepath:	D:\PitneyBowes\CycleM\RDI\
LACSLink Filepath:	D:\PitneyBowes\CycleM\LACS
SuiteLink Filepath:	D:\PitneyBowes\CycleM\suiteLink
Early Warning System:	ON
Delivery Point Validation:	FLT
DPV Shutdown Indicator:	W
Delivery Point Validation Tie Break:	ON
DPV Vacant Table:	ON
DPV No-Stat Table:	ON
DPV PBSA Table:	OFF
DPV Buffer Size:	L
LACSLink:	ON
LACSLink Memory:	L
Residential Delivery Indicator:	OFF
Commercial Mail Validation:	ON
SuiteLink:	ON
SuiteLink Small Memory Flag:	L
SuiteLink Shutdown Indicator:	S
Return SLK Input Secondary:	B

The Finalist® Batch Report - Page 7 provides statistics for the total number of P. O. Box™ Street Addresses (PBSA) found during DPV® processing for the job processed.

Finalist Batch Report

Page 7

DPV Processing Statistics	Count	%
Total Records Through DPV Processing	422437	87.91
Total DPV Y Type	348267	72.48
Total DPV S Type	18808	3.91
Total DPV D Type	30127	6.27
Total DPV Not Validated	25235	5.25
Total DPV Vacant Found	14777	3.08
Total DPV No-Stat Found	9132	1.90
Total DPV PBSA Found	0	0.00
Total CMRA Found	1235	0.26

CICS Screen Changes

The CICS Main Menu screen and the Return Area screen include changes for P. O. Box™ Street Address (PBSA). For more information, please refer to [CICS Screen Changes](#).

IMS Screen Changes

The IMS Main Menu screen and the Return Area screen include changes for P. O. Box™ Street Address (PBSA). For more information, please refer to [IMS Screen Changes](#).

Compatibility Interface (CI)

The Compatibility Interface (CI) does not support turning on or off DPV® PBSA Table processing.

P. O. Box™ Only Delivery Zones

The USPS® has added an additional value to the City/State data to flag P. O. Box™ Only Delivery Zones. Addresses located within a P. O. Box™ Only Delivery Zone can only receive postal delivery through the use of a P. O. Box™. No other postal delivery method is available for these addresses.

P. O. Box™ Only Delivery Zone Information

The Finalist® 9.0.0 release includes a new P. O. Box™ Only Delivery Zone indicator.

Field	Description
cPOBoxZone	<p>P. O. Box™ only delivery zone status indicator:</p> <p>Y — Address ZIP Code is a P. O. Box™ only delivery zone.</p> <p>N — Address ZIP Code is not a P. O. Box™ only delivery zone.</p> <p>Blank — Invalid input ZIP Code. P. O. Box™ only delivery zone cannot be determined.</p>

Definition File Layout Changes for P. O. Box™ Only Delivery Zones Information

A new keyword, oPOBoxZone, has been added for a Definition File Layout using component keywords for processing. You can use the Workbench to add the P. O. Box™ Only Delivery Zone indicator (oPOBoxZone) to your definition file (.def).

Definition File Layout Using Component Keywords

Definition Keyword	Description	Recommended Length
oPOBoxZone=x,y; a[,y]	Identifies the position (x) and length (y) of the output P. O. Box Zone flag.	1

Structure and Copybook Changes for P. O. Box™ Only Delivery Zones

The new P. O. Box™ Only Delivery Zone indicator, cPOBoxZone, has been added to the following Finalist® structures and copybooks.

New Field	Structure	Copybook(s)
cPOBoxZone	PBFNAddressDataDef	PBFNADR PBFNRRTN
	PBFNParsedAdrAltDef	PBFNVPDS PBFNWRPA
	PBFNParsedAdrDef	PBFNJRPA PBFNLPDS
	PBFNProcessDataAltDef	PBFNXPDS PBFNZRTN
	PBFNProcessDataDef	PBFNAPDS PBFNHRTN

CICS Screen Changes

The CICS Return Area screen have been changed for the P. O. Box™ Only Delivery Zone. For more information, please refer to [CICS Screen Changes](#).

IMS Screen Changes

The IMS Main Menu screen and the Return Area screen have been changed for the P. O. Box™ Only Delivery Zone. For more information, please refer to [IMS Screen Changes](#).

Five-Digit Validation

A planned USPS® CASS™ Cycle O regulation requires CASS™ software to validate the city, state and ZIP Code™ before including a record in the 5-Digit Coded total count that displays on the USPS® Form 3553 (CASS™ Summary Report). The output city, state, and ZIP Code™ must correspond to be added to the 5-Digit Coded box shown below.

CODING ACCURACY SUPPORT SYSTEM (CASS)				SUMMARY REPORT			
== A. SOFTWARE ==							
----- CASS - A1 -----							
1. CASS CERTIFIED COMPANY NAME		2. CASS CERT. SOFTWARE NAME & VER		3. CFG			
Pitney Bowes Inc		Finalist		X.XX.XX.X		AAA	
4. Z4CHANGE CERTIFIED COMPANY NAME		5. Z4CHANGE CERT. SOFTWARE NAME & VER		6. CFG			
7. DIRECTDPV CERTIFIED COMPANY NAME		8. DIRECTDPV CERT. SOFTWARE NAME & VER		9. CFG			
10. eLOT CERTIFIED COMPANY NAME		11. eLOT CERT. SOFTWARE NAME & VER		12.CFG			
Pitney Bowes Inc		Finalist		X.XX.XX.X		AAA	
= B. LIST =							
1. LIST PROCESSOR'S NAME		2. DATE LIST PROCESSED		3. DATE OF DATABASE USED			
		MASTER FILE: XX/XX/XXXX		ZIP+4 FILE: XX/XX/XXXX			
		Z4CHANGE:		Z4CHANGE:			
		DIRECTDPV:		DIRECTDPV:			
		eLOT: XX/XX/XXXX		eLOT: XX/XX/XXXX			
		CRIS:		CRIS:			
4. ADDRESS LIST NAME OR ID#		5. NUMBER OF LISTS		6. TOTAL RECORDS SUBMITTED			
INPUTFILE.TXT		1		1234567			
== C. OUTPUT ==							
OUTPUT RATING		VALIDATION PERIOD		OUTPUT RATING		VALIDATION PERIOD	
TOTAL CODED		FROM TO		TOTAL CODED		FROM TO	
a. ZIP+4/DPV CONFIRMED		XX/XX/XXXX		d. 5-DIGIT CODED		XX/XX/XXXX	
1234567		XX/XX/XXXX		1234567		XX/XX/XXXX	
b. Z4CHANGE PROCESSED		////////////////////		e. CRT CODED		XX/XX/XXXX	
0		////////////////////		1234567		XX/XX/XXXX	
c. DIRECTDPV				f. eLOT ASSIGNED		XX/XX/XXXX	
0				1234567		XX/XX/XXXX	
== D. MAILER ==							
I CERTIFY THAT THE MAILING SUBMITTED WITH THIS FORM HAS BEEN CODED (AS INDICATED ABOVE) USING CASS-CERTIFIED SOFTWARE MEETING ALL OF THE REQUIREMENTS LISTED IN THE DMM SECTION 708.				3. NAME & ADDRESS OF MAILER: Pitney Bowes Inc 2200 Western Ct Ste 100 Lisle IL 60532			
1. MAILER'S SIGNATURE				2. DATE SIGNED			
== E. QUALITATIVE STATISTICAL SUMMARY (QSS) ==							
HR DEFAULT	HR EXACT	RR DFLT	RR EXACT	LACSLINK	EWS	SUI TELINK	
XXXXX	XXXXX	XX	XXX	XXXX	XX	XXX	
PS Form 3553, XXXXXXXX XXXX							

Five-Digit Validation Information

The planned regulation also requires CASS™ software to set a flag to indicate whether an address record's 5-Digit is included in the 5-Digit Coded box on the USPS® Form 3553 (CASS™ Summary Report). Invalid 5-Digit records cannot be included on the report.

Field	Description
cZipValid	<p>Indicates if the address ZIP Code™ is valid:</p> <ul style="list-style-type: none"> Y — Address ZIP Code™ is a valid USPS® ZIP Code™. N — Address ZIP Code™ is not a valid USPS® ZIP Code™. Blank — Unable to determine USPS® ZIP Code™ for input address.

Definition File Layout Changes for Five-Digit Validation Information

A new keyword has been added for a Definition File Layout using component keywords for processing. You can use the Workbench to add the 5-Digit validation indicator (oZIPValid) to your definition file (.def).

Definition File Layout Using Component Keywords

Definition Keyword	Description	Recommended Length
oZIPValid=x,y; a[,y]	Identifies the position (x) and length (y) of the output ZIPValid flag.	1

Structure and Copybook Changes for 5-Digit Validation

A new 5-Digit validation indicator, cZipValid, has been added to the following Finalist® structures and copybooks.

New Field	Structure	Copybook(s)
cZipValid	PBFNAddressDataDef	PBNFADRS PBFNRRTN
	PBFNParsedAdrAltDef	PBFNVPS PBFNWRPA
	PBFNParsedAdrDef	PBFNJRPA PBFNLPDS
	PBFNProcessDataAltDef	PBFNXPDS PBFNZRTN
	PBFNProcessDataDef	PBFNAPDS PBFNHRTN

Convert Secondary to PMB

The USPS® CASST™ Cycle O plans include new regulations for CMRA/PMB addresses. Input address secondary information must be converted to "PMB" under the following conditions:

- A secondary number is present in the returned ZIP + 4® address
- The secondary number does not DPV® confirm
- The primary number (and/or other secondary number) confirms as a CMRA
- The unconfirmed unit designator is not a pound sign (#)

This Cycle O rule only applies if the primary address codes to a CMRA.

The conversion to "PMB" feature is optional for the Finalist® 9.0.0 release.

Example

Input Address:

2809 KIRBY RD STE 116 APT 3
MEMPHIS TN 38119

Output Address:

2809 KIRBY RD STE 116 PMB 3
MEMPHIS TN 38119-8245

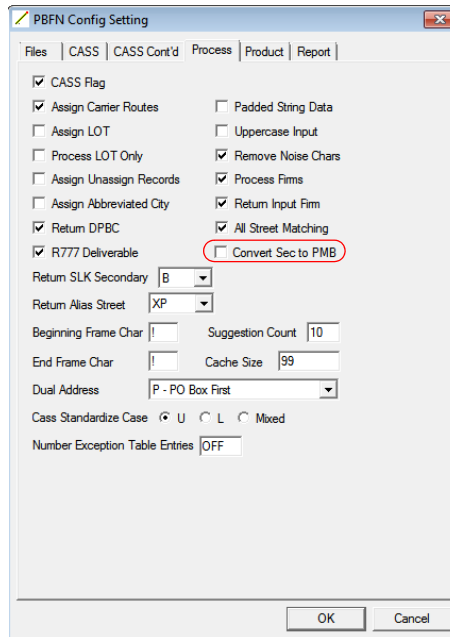
In this example, "APT" (present as part of the secondary number) is converted to "PMB" per the planned rule.

Configuration File Changes for Converting Secondary to PMB

The configuration file (pbfncfg) includes a new line for the Convert Secondary to PMB feature. By default, the Convert Secondary to PMB feature is not activated (OFF). If you want to activate the Convert Secondary to PMB feature, specify "ON" for the "Convert Secondary to PMB =" field.

```
.  
.br/>Return Input Firm = ON  
All Street Matching = ON  
R777 Deliverable = ON  
Convert Secondary to PMB = OFF  
Number Exception Table Entries = OFF  
Suggestion Count = 10  
.  
.
```

You can also activate the Convert Secondary to PMB feature in the configuration file (pbfncfg) using the Workbench or Lookup Tool. From the PBFN Config Setting Dialog Box, click the Process Tab. The Process Tab includes a new Convert Sec to PMB check box for this feature. By default, the Convert Sec to PMB check box is not checked (OFF). If you want to enable this feature, check the Convert Sec to PMB check box (ON).



PBFNSetupDef Structure

The PBFNSetupDef structure includes the new "cConvertSecPMB" field to activate Secondary to PMB conversion processing. A portion of the PBFNSetupDef structure is shown below to illustrate this addition.

```
.  
.br/>char    cAssignDPVPBSA[ON_OFF_FLAG];  
char    cR777Deliverable[ON_OFF_FLAG];  
char    cConvertSecPMB[ON_OFF_FLAG];  
.  
.  
} PBFNSetupDef, *pPBFNSetupDef;
```

Finalist® Batch Report

A new line has been added to the Process section of the Finalist® Batch Report Page 2 to indicate whether Convert Secondary to PMB processing is active (ON). If Convert Secondary to PMB processing is not active, this line displays the value OFF. By default, Convert Secondary to PMB processing is disabled (OFF)

Process Section:

CASS Flag:	ON	CASS Standardize Case:	U
Assign Carrier Routes:	ON	Return Input Firm:	ON
Assign Unassign Records:	OFF	No. Exception Tbl Entries:	OFF
Assign Abbreviated City:	OFF	Process Firms:	ON
Cache Size:	99	Beginning Frame Char:	!
End Frame Char:	!	Return DPBC:	ON
Dual Address Switch:	P	Return Alias Street Name:	XP
Assign LOT:	ON	Padded String Data:	OFF
Process LOT Only:	OFF	All Street Matching:	ON
R777 Deliverable:	ON	Convert Secondary to PMB	OFF

Compatibility Interface (CI)

For the Init call ('0'), the new Convert Secondary to PMB option is not specifically available in the CI. The CI uses the default values.

If you want to use the new options, you must use the FINAL-USE-SETUP-Y option and pass parameters via the PBFNSetupDef (PBFNGCFG) structure that is imbedded in FINALIST-CALL-AREA.

Single Trailing Alpha on Primary Number

Planned USPS® CASS™ Cycle O regulations now allow a second DPV® confirmation attempt for addresses that did not DPV® confirm as returned from the ZIP + 4® match. To qualify for a second DPV® confirmation attempt, an address must:

- Include a numeric primary number
- Include a single trailing alpha on the primary range that is not matched but is acceptable (for example, 101A on a USPS range of 100 - 200)
- Not include a secondary on input (no apartment information)
- Be a conventional address (not a P. O. Box™, Rural Route, or General Delivery address)
- Cannot be a unique ZIP Code™ or military address

Under these conditions:

1. CASS™ software is now allowed to drop the single trailing alpha and make a second attempt for DPV® confirmation.
2. If the second attempt is successful and the address is DPV® confirmed, the address is now identified as deliverable.
3. The CASS™ software must return "S" (instead of "N" as required in previous CASS™ cycles) to indicate that the secondary information or trailing alpha was dropped in a second attempt that resulted in DPV® confirmation.
4. The primary number returned must be the primary number that ZIP + 4® matched (including the trailing alpha).

Example of address that qualifies for second DPV® confirmation attempt:

301C Ash Ave, 36301

Example of addresses that do not qualify for a second DPV® confirmation attempt:

301C Ash Ave Ste 100, 36301 (secondary input)

390A James Ave, 38019 (alpha is part of USPS range 390A - 390Z)

PO Box 321A, 60532 (not a conventional address)

Calling the Native Finalist[®] APIs Using Standard Linkage

Finalist[®] processing on the z/OS platform has been enhanced to allow you to call the Finalist[®] product APIs using standard (non-DLL) linkage without using ProgramName(LongMixed). For example:

1. You generate the following call to a Finalist[®] API:

```
CALL 'PBFNProcess' USING(...) RETURNING XXX
```

2. The COBOL compiler truncates the name to eight characters and forces the entire name to upper case:

```
CALL 'PBFNPROC' USING(...) RETURNING XXX
```

Finalist[®] supports the use of standard linkage and upper case names for the these product APIs only.

Standard linkage	DLL/LongMixed
PBFNINIT	PBFNInit
PBFNPROC	PBFNProcess
PBFNTERM	PBFNTerminate
PBFNCASE	PBFNCase
PBFNSTAT	PBFNStats
PBFNDECR	PBFNDecrypt
PBFNINFO	PBFNInfo

The Finalist[®] database APIs (i.e., PBCSCreatePhoneticList, PBFNCreateSuggestionList, PBCSGetZipList, etc.) require DLL Linkage and are still not supported with standard linkage.

PBFNAddressDataDef

The Finalist[®] 9.0.0 release includes a new PBFNAddressDataDef C structure that passes parsed and unparsed address information to and from the postal coding functions using character arrays. The new PBFNAddressDataDef structure is being added to consolidate and streamline the number of structures needed and make it easier to pass in the correct structure for processing. Previously, address information (State, ZIP, ExtraData, etc.), although identical in function and purpose, was duplicated in multiple structures. The new PBFNAddressDataDef structure resolves that issue by providing one structure for defining, initializing, passing, and retrieving address information.

The following structures have been included in the new AddressDataDef structure. The AddressDataDef structure eliminates the need to pass these structures on the PBFNProcess() call.

- PBFNAddressInfoDef
- PBFNDPVDetailDef
- PBFNExtendedErrorDef
- PBFNLabelLineDef
- PBFNLACSSeedDetDef
- PBFNParsedAdrAltDef
- PBFNParsedAdrDef
- PBFNProcessDataAltDef
- PBFNProcessDataDef
- PBFNRtnFirmDef
- PBFNRtnOrigDataDef

NOTE: To differentiate between input parsed and standard input address data, use the new `clnputAddressType` (PBFN-ADRS-INPUTADDRESS-TYPE) field.

Field	Description
<code>clnputAddressType</code>	Field containing the input address type for the address being passed in: <ul style="list-style-type: none">• B — Blank or low-values. Defaults to standard address data.• P — Parsed address data.

For more detailed information on the new `PBFNAddressDataDef` structure, please refer to the section "PBFNAddressDataDef" in Chapter 2, Using the Structures and Constants, in your *Finalist® 9.0.0 Reference Guide*.

PBFNAddressInfoDef Structure

A new value, `PBFN_PREFERRED_OVERRIDE`, has been added to the `cCityType` field in the `PBFNAddressInfoDef` structure to indicate when the output city was changed due to a preferred city override condition. For more information, please refer to Chapter 1, Using the Product APIs in your *Finalist 9.0.0 Reference Guide*.

PBFNRtnSuiteLinkStatsDef Structure

The previously documented `PBFNRtnSuiteLinkStatsDef` structure is now available via the `PBFNStats()` and `PBFNTerminate()` APIs. For more information, please refer to Chapter 1, Using the Product APIs in your *Finalist 9.0.0 Reference Guide*.

PBFNSetupDef Structure

The following additional structures were added to the `PBFNSetupDef` structure:

- `PBFNExtendedErrorDef`
- `PBFNInfoDef`

This change eliminates the need to pass additional structures on the `PBFNInit()` call.

LPFNCL01 (COBOL), LPFNCL04 (BAL), and LPFNCL0C (C) Changes

The `LPFNCL01` (COBOL), `LPFNCL04` (BAL), and `LPFNCL0C` (C) copybooks have been changed to incorporate the changes made to the `PBFNSetupDef` structure. For detailed information on this structure, please refer to the section "PBFNSetupDef" in Chapter 2, Using the Structures and Constants, in your *Finalist® 9.0.0 Reference Guide*.

Enhanced Output File Formatting

Previous versions of Finalist® did not allow an output field to overlay an input field unless the output and input field formats were identical. Finalist® 9.0.0 includes a new JOB option, cOverlayCheck, that allows you to create an output file that differs in format from your input file. If cOverlayCheck is set to ON (default value), the Finalist® driver continues, as in past releases, to ensure that output fields do not overlay input fields. If cOverlayCheck is set to OFF, the output file is initially blank and then only populated by output fields specified in the corresponding job definition (DEF) file.

Keyword	Description
cOverlayCheck=ON OFF	<ul style="list-style-type: none">• ON — Prevent output fields from overlaying input fields unless the output and input field formats are identical. The Finalist® driver ensures that output fields do not overlay input fields. Defaults to ON.• OFF — Create an output file with a format that is not identical to the format of the input file. If set to OFF, the output file is initially blank and then only populated by output fields specified in the corresponding job definition (DEF) file.• Blank — Defaults to ON.

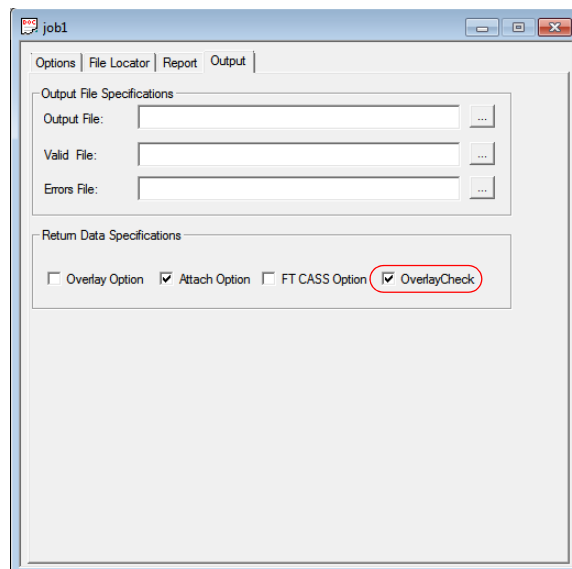
A new field, cOverlayCheck, has been added to the Workbench Job Dialog Output Tab. For more information on this UI change, please refer to [“Workbench Changes” on page 18](#).

User Interface (UI) Changes

The Finalist® 9.0.0 release includes the following UI changes.

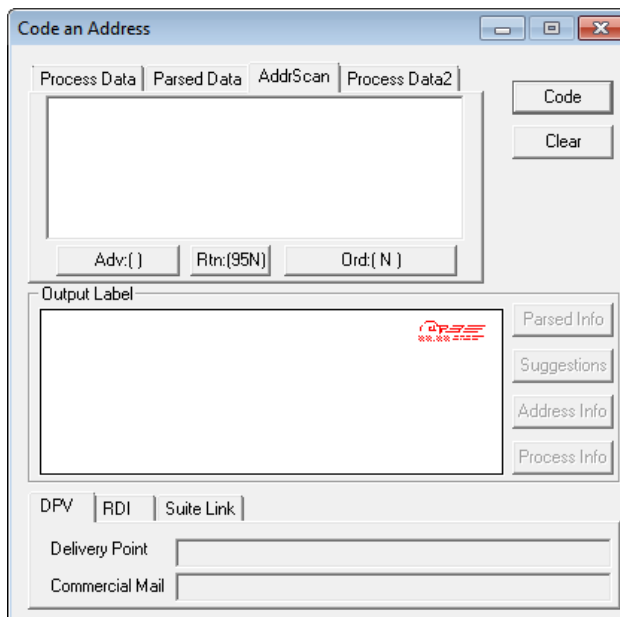
Workbench Changes

The Workbench Job Dialog Output Tab has been enhanced to include the new OverlayCheck field that allows you to create an output file format that differs from your input file format. For more information, please refer to [“Enhanced Output File Formatting” on page 18](#).



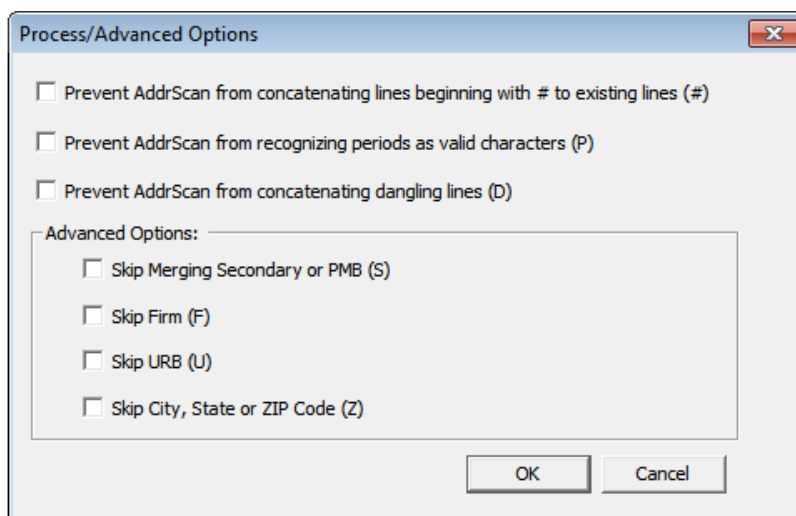
Lookup Tool Changes

The Lookup Tool AddrScan feature has been enhanced to allow you to set the AddrScan options from the Lookup Tool AddrScan Tab. You can use three new buttons to set AddrScan options.



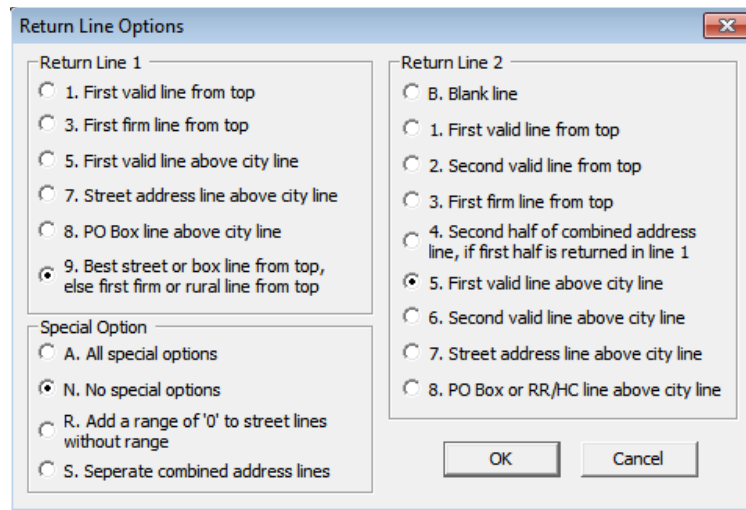
Setting AddrScan Advanced Options

You can use the new Adv button to access the new Process/Advanced Options dialog box and set AddrScan advanced options from the Lookup Tool.



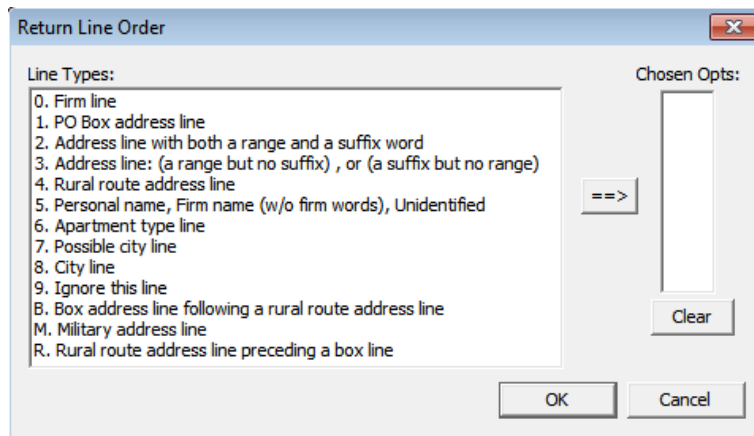
Setting AddrScan Return Line Options

You can use the new Rtn button to access the Return Line Options dialog box and set AddrScan return line options from the Lookup Tool.



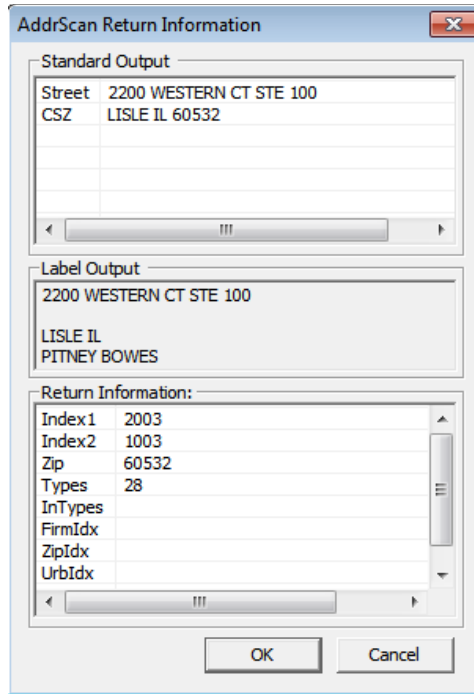
Setting AddrScan Return Line Order Options

You can use the new Ord button to access the Return Line Order dialog box and set AddrScan return line order options from the Lookup Tool.



Accessing AddrScan Coding Information

The Lookup Tool AddrScan feature provides enhanced access to detailed information on the standardized output, label output, and the return information. To access the new AddrScan Return Information dialog box, from the **AddrScan** tab, enter the address elements and click **Code**. The **AddrScan Return Information** dialog displays the standard output, label output, and return information.



CICS Screen Changes

Unused fields have been removed from the CICS screens and, where needed, the screens have been reformatted for ease of use.

The Finalist® 9.0.0 release includes CICS screen changes implemented for the planned USPS® CASS™ Cycle O.

CICS Main Menu

The Finalist® 9.0.0 release includes changes to the CICS Main Menu screen for LPCF for the planned USPS® CASS™ Cycle O requirements:

- P. O. Box™ Street Address (PBSA)
- Carrier Route R777 Processing
- Secondary Information Conversion "PMB"

```
FINALIST ON-LINE N.N                                (C) YYYY PITNEY BOWES SOFTWARE, INC.
Option Code: 1 (Valid options listed below)          hh:mm:ss
1-Address Lookup      3-ZIPCODE Information      5-Street Information
2-City Information    4-Street Name List      6-Product Information

Exception Table: N (Y/N)
EWS: N (Y/N)
RDI: N (Y/N)
LACSLink: N (Y/N)
Sui teLink: N (Y/N)
SLK Secondary: B (B/S/I/N)
DPV: N (Y/N/S/F)
NoStat: Y CMRA: Y Tie Break: Y (Y/N)
Vacant: Y PBSA: Y (Y/N)

ALSBLBL : N (Y/N/1/2/3/4/5/6)
FIRMLBL: D (I/D)
ASM : N (Y/N)
DUALADR: F (F/A/1/2/P/C)
CTYLONG: Y (Y/N)
R777 Deliverable: Y (Y/N)
Cnvr t Sec to PMB: N (Y/N)

PF1: OPT 1  PF2: OPT 2  PF3: OPT 3  PF4 : OPT 4  PF5 : OPT 5  PF6 : OPT 6
PF7: N/A     PF8: N/A     PF9: RESET PF10: N/A   PF11: N/A   PF12: EXIT
```

CICS Return Area Screen

The Finalist® 9.0.0 release includes changes to the CICS Return Area screen implemented for LPCF for the planned USPS® CASS™ Cycle O requirements:

- P. O. Box™ Street Address (PBSA)
- P. O. Box™ Only Delivery Zones

```

FINALIST ON-LINE N.N                                (C) YYYY PITNEY BOWES SOFTWARE, INC.
INPUT INFORMATION:                                RETURN AREA
FIRM LINE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
URB LINE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDR LINE 1: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDR LINE 2: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CITY/STATE: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ZIP: NNNNN SEC-SEG: NNNN CR: XXXXX

ISOLATION RESULTS:                                ISOLATION ATTEMPTS: N
RANGE: XXXXXXXXXX                                SUFFIX1: AAAA
PRE-DIRECT: AA                                  SUFFIX2: AAAA
POST-DIR: AA                                    APARTMENT: XXXXXX
STREET: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX        EXTRANEOUS: XXXXXXXX

DIRECTION/SUFFIX COMBINATIONS                    OUTPUT INFORMATION
PRE-DIR SUFF1 SUFF2 POST-DIR                    ZI PCODE: NNNNN                DPV: X    NOSTAT: X
-----
1) AA AAAA AAAA AA                            SEC-SEG: NNNN                LLK: X    VACANT: X
2) AA AAAA AAAA AA                            CR: XXXX                     SLK: X    CMRA : X
3) AA AAAA AAAA AA                            CITY: XXXXXXXXXXXXXXXX      RDI: X    PBSA : X
STATE: XX                                     POB ZONE: N

PF1: N/A PF2: N/A PF3: N/A PF4 : N/A PF5 : N/A PF6 : N/A
PF7: N/A PF8: N/A PF9: N/A PF10: N/A PF11: RETCODE PF12: EXIT
  
```

IMS Screen Changes

Unused fields have been removed from the IMS screens and, where needed, the screens have been reformatted for ease of use.

The Finalist® 9.0.0 release includes IMS screen changes implemented for the planned USPS® CASS™ Cycle O.

IMS Main Menu

The Finalist® 9.0.0 release includes changes to the IMS Main Menu screen for S56LPWNH for the following planned USPS® CASS™ Cycle O requirements:

- P. O. Box™ Street Address (PBSA)
- Carrier Route R777 Processing
- Secondary Information Conversion "PMB"

```

S56LPWNH      FINALIST ON-LINE INQUIRY VERSION X.XX (C) PITNEY BOWES SOFTWARE, INC. XXXX
      OPTION CODE: 1      (VALID OPTIONS LISTED BELOW)      HH: MM: SS

1-Address Lookup      3-ZIPCODE Information      5-Street Information
2-City Information    4-Street Name List      6-Product Information

Exception Table: N (Y/N)      ALSLBL : N (Y/N/1/2/3/4/5/6)
EWS: N (Y/N)      FIRMLBL: D (I/D)
RDI: N (Y/N)      ASM : N (Y/N)
LACSLink: N (Y/N)      DUALADR: F (F/A/1/2/P/C)
SuiteLink: N (Y/N)      CTYLONG: Y (Y/N)
SLK Secondary: B (B/S/I/N)      R777 Deliverable: Y (Y/N)
DPV: N (Y/N/S/F)      Cnvrt Sec to PMB: N (Y/N)
NoStat: Y CMRA: Y Tie Break: Y (Y/N)
Vacant: Y (PBSA: Y)      (Y/N)

PF1: OPT 1  PF2: OPT 2  PF3: OPT 3  PF4 : OPT 4  PF5 : OPT 5  PF6 : OPT 6
PF7: N/A    PF8: N/A    PF9: RESET  PF10: N/A  PF11: N/A  PF12: EXIT
    
```

IMS Return Area Screen

The Finalist® 9.0.0 release includes changes to the IMS Return Area screen for S56LPWNH for the following planned CASS™ Cycle O requirements:

- P. O. Box™ Street Address (PBSA)
- P. O. Box™ Only Delivery Zones.

```

S56LPWNH      FINALIST ON-LINE N.N      HH: MM: SS
INPUT INFORMATION:      RETURN AREA
FIRM LINE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
URB LINE : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDR LINE 1: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDR LINE 2: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CI TY/STATE: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ZIP: NNNNN SEC-SEG: NNNN CR: XXXXX

ISOLATION RESULTS:      ISOLATION ATTEMPTS: N
RANGE: XXXXXXXXXX      SUFFI X1: AAAA
PRE-DIRECT: AA      SUFFI X2: AAAA
POST-DIR: AA      APARTMENT: XXXXXX
STREET: XXXXXXXXXXXXXXXXXXXXXXXXXXXX      EXTRANEOUS: XXXXXXXX

DIRECTION/SUFFIX COMBINATIONS      OUTPUT INFORMATION
PRE-DIR SUFF1 SUFF2 POST-DIR      ZIPCODE: NNNNN      DPV: X      NOSTAT: X
-----
1) AA AAAA AAAA AA      CR: XXXX      LLK: X      VACANT: X
2) AA AAAA AAAA AA      CI TY: XXXXXXXXXXXXXXXX      SLK: X      CMRA : X
3) AA AAAA AAAA AA      STATE: XX      RDI: X      PBSA : X
      POB ZONE: N

PF1: N/A    PF2: N/A    PF3: N/A    PF4 : N/A    PF5 : N/A    PF6 : N/A
PF7: N/A    PF8: N/A    PF9: N/A    PF10: N/A   PF11: RETCODE PF24: EXIT
    
```


Report Changes

The Finalist® 9.0.0 release includes report changes.

USPS® Form 3553 (CASS™ Summary Report)

Although the layout of the USPS® Form 3553 (CASS™ Summary Report) has not changed, the planned USPS® CASS™ Cycle O regulations require CASS™ software to validate the city, state, and ZIP Code™ before including a record in the 5-Digit Coded total count. The output city, state, and ZIP Code™ must correspond to be added to the 5-Digit Coded box. For more information, please refer to the section [“Five-Digit Validation” on page 12](#).

Finalist® Batch Report

The Finalist® Batch Report includes the following changes for the Finalist® 9.0.0 release.

- A new line has been added to the Process section of the Finalist® Batch Report - Page 2 that indicates whether R777 Deliverable is ON or OFF. For more information, please refer to the section [“Finalist Batch Report” on page 5](#).
- A new line has been added to the Process section of the Finalist® Batch Report - Page 2 that indicates whether Convert Secondary to PMB processing is activated. For more information, please refer to the section [“Finalist® Batch Report” on page 15](#).
- The Finalist® Batch Report - Page 3 includes a new line, DPV® PBSA Table, that indicates whether Finalist® used the P. O. Box™ Street Address (PBSA) Table for DPV® processing to return the proper PBSA code for the job processed. For more information, please refer to the section [“Finalist Batch Report” on page 10](#).
- A new line has been added to the Processing Summary section of the Finalist® Batch Report - Page 4 that provides R777 failure statistics. For more information, please refer to the section [“Finalist Batch Report” on page 5](#).
- The Finalist Batch Report - Page 7 includes a new line, Total DPV® PBSA Found, that provides statistics for the total number of P. O. Box™ Street Addresses (PBSA) found during DPV® processing for the job processed. For more information, please refer to the section [“Finalist Batch Report” on page 10](#).

StreamWeaver®

The current StreamWeaver® 6.6.1 release calls Finalist® 9.0.0 and returns all the fields, variables, etc. that are returned for Finalist® 8.3.x. There is no impact to jobs other than the deprecation message generated when Finalist® 9.0.0 is called with an older API set.

StreamWeaver® 6.6.2 is tentatively scheduled for 1Q 2015. If you are a StreamWeaver® customer, you may decide to wait for the StreamWeaver® 6.6.2 release before you implement Finalist® 9.0.0 and implement the Finalist® 9.0.0 and StreamWeaver® 6.6.2 releases in parallel to avoid the deprecation messages.

VeriMove™

VeriMove™ 3.5.5, scheduled for release during the first half of 2015, will include Finalist® 9.0.0 as the Internal CASS™ Processing engine. VeriMove™ customers who use External CASS™ Processing may use Finalist® 9.0.0 as their External CASS™ Processing engine immediately." Information on the next VeriMove™ release will be shared as it becomes available

Installation Changes

Always follow the installation procedure provided in the *Finalist® Installation Guide* for the current release. Do not use installation procedures from previous releases of Finalist® to install the Finalist® 9.0.0 release.

Recompile of All Programs Required

If you are currently processing with a Finalist® release prior to 9.0.0, you must recompile all of your drivers with the Finalist® 9.0.0 changes. As a result of changes in the API version, changes within several APIs, and copybook changes, all programs should be recompiled to run with Finalist® 9.0.0.

Code Signing Certificate

The Finalist® installer for the Windows platform has been updated with a Code Signing Certificate to digitally sign and authenticate the installed software and files.

JCL Changes

All JCL and related components have been changed to ensure consistency by changing the generic term for high level qualifier from "yourhlq" to "hlq".

Database Changes

This section provides important information on database changes effective with the Finalist® 9.0.0 release.

Finalist® 9.0.0 Database Compatibility

The Finalist® 9.0.0 release requires several new style databases that are not backwards compatible with previous versions of Finalist®.

Database Compatibility Error Message

The Finalist® 9.0.0 release requires new style ZIP + 4®, City, and eLOT® databases that are not backwards compatible with previous versions of Finalist®. If you attempt to use a database that is incompatible with the Finalist® product version you use for processing, Finalist® writes the following error message to the log file.

```
Database and Engine Version differ; DB version (80000M01) != Engine version (90000N01)
```

The EWS, DPV®, LACS^{Link®}, and Suite^{Link®} databases have not changed formats and are compatible with both Finalist 8.x and Finalist 9.0.0 versions of the software.

Finalist® 9.0.0 ZIP + 4® and City Databases

The Finalist® ZIP + 4® and City (DDs CBDATA and CBCTYST on z/OS) files have been updated for the Finalist® 9.0.0 release. The internal layout of the file has been modified to support proposed Cycle O requirements.

Finalist[®] 9.0.0 Enhanced eLOT Database

The Finalist[®] eLOT[®] (DD LTDATA on z/OS) file has been updated for the Finalist[®] 9.0.0 release. The new eLOT[®] database requires a smaller physical space allocation and is almost 50% smaller (now 350 MB vs previous 625 MB) than the previous eLOT[®] database without any loss or change in performance and results. If you perform eLOT[®] processing, you must use the new Finalist[®] 9.0.0 release eLOT[®] database with the Finalist[®] 9.0.0 release. The Finalist[®] 9.0.0 release eLOT[®] database can only be used with the Finalist[®] 9.0.0 release and is not backwards compatible with previous Finalist[®] releases.

- The LRECL of LTDATA has changed from 8184 to 8182.
- The BLKSIZE of LTDATA has changed from 32736 to 23546.
- The size of the LTDATA file is roughly 50% smaller than previous versions.

Database Delivery

The Pitney Bowes Software AutoDelivery process automatically delivers the most current version of databases. With the Finalist[®] 9.0.0 release, AutoDelivery will begin delivering the Finalist[®] 9.0.0 databases. The Finalist[®] ZIP + 4[®], City, and eLOT[®] databases have new formats that are only compatible with the Finalist[®] 9.0.0 release. After Finalist[®] 9.0.0 is released, the Finalist[®] 8.x databases will only be available for download from the support website at <http://www.g1.com/support> and the eStore. The eStore is the fastest way to download software and data.

USPS[®] Postal Database and Finalist[®] Database Increase in 3490E Tape Count

The Finalist[®] Database 3490E tape count has changed. Previously, the Finalist[®] Database was distributed on a single 3490E tape. The Finalist[®] Database increased from a single 3490E tape to a two tape set. As of March 2014, the Finalist[®] Database now resides on two tapes. This change requires customers to modify their DATAFILE install JCL.

The following are examples of the changes needed for the database installation JCL. These examples are provided for illustration purposes only to assist you with this effort. The installation JCL changes required for your site may differ from these examples.

Sample of previous Finalist[®] installation JCL:

```
//REPROD EXEC PGM=IDCAMS
//INPUT DD DSN=FINALIST.DATAFILE,DISP=(OLD,PASS),
// UNIT=&UNIT,
// DCB=(LRECL=4088,BLKSIZE=32704,RECFM=FB),
// LABEL=(04,NL,EXPDT=98000),
// VOL=(, , 1, SER=(vo11))
```

Sample of new Finalist[®] installation JCL:

```
//REPROD EXEC PGM=IDCAMS
//INPUT DD DSN=FINALIST.DATAFILE,DISP=(OLD,PASS),
// UNIT=&UNIT,
// DCB=(LRECL=4088,BLKSIZE=32704,RECFM=FB),
// LABEL=(04,NL,EXPDT=98000),
// VOL=(, , 2, SER=(vo11,vo12))
```

Corrected Issues

The Finalist® 9.0.0 release corrects issues for:

- [All Platforms](#)
- [CICS](#)
- [Windows](#)
- [z/OS](#)

All Platforms

Change Requests Resolved for All Platforms (Part 1 of 12)

Change Request	Change Description
FINALIST-1557	<p>Corrected a coding issue for ordinal suffixes. When the ordinal was located before FL or Floor, Finalist® converted the ordinal to a number. For example, “1st FL” was changed to “FL 1”. However, in cases where FL or Floor was located before the ordinal, the ordinal was not changed to a number. For example, “FL 1ST” would be returned as “FL 1ST”.</p> <p>Input address: 506 RALPH AVE 1ST FLOOR BROOKLYN, NY 11221</p> <p>Incorrectly coded address: 506 RALPH AVE FL 1 BROOKLYN NY 11233-4405</p> <p>Correctly coded address: 506 RALPH AVE FL 1ST BROOKLYN NY 11233-4405</p>
FINALIST-1714	<p>ENHANCEMENT — The Finalist® 9.0.0 release includes a new eLOT database that requires a smaller physical space allocation and is smaller (now 350 MB vs previous 625 MB). For more information, please refer to the section “Finalist® 9.0.0 Enhanced eLOT Database” on page 27.</p>
FINALIST-1756	<p>Improved parsing of address elements for directional/directional addresses (e.g. SE).</p> <p>Input address (no match found): 507 North SE Caledonia, MI 49316</p> <p>Correctly coded address (match found): 507 NORTH SE CALEDONIA MI 49316-9407</p>
FINALIST-2047	<p>Corrected an issue with the formatting of military addresses in ProcessData fields. Finalist® now formats Military BOX information correctly as parsed primary range (like RR/HC format).</p> <p>Input address: UNIT 3230, Box 0093 DPO, AA 34031</p> <p>Incorrectly coded address: UNIT 3230, BOX 93 (ProcessData fields returned UNIT 3230 as Address1 and Unit returned BOX 93.) DPO, AA 34031</p> <p>Correctly coded address: UNIT 3230 BOX 93 (ProcessData fields now return UNIT 3230 BOX 93 as Address1 and Unit is blank). DPO, AA 34031</p>

Change Requests Resolved for All Platforms (Part 2 of 12)

Change Request	Change Description
FINALIST-2154	<p>Corrected an issue in AddrScan processing where “TRLR” was not being flagged as a unit designator when followed by a possible range.</p> <p>Input address: TRLR F6 600 BROADWAY AMITYVILLE NY 11701</p> <p>Incorrectly coded address: 600 Broadway AMITYVILLE NY</p> <p>Correctly coded address: 600 BROADWAY TRLR F6 AMITYVILLE NY 11701</p>
FINALIST-2165	<p>Corrected an issue where an address did not code if the ZIP/ZIP4 was presented in both City and ZIP/ZIP4 fields. For example, the following input address did not code.</p> <p>Input address: Address: 0 DUKE UNIVERSITY City: DURHAM NC 27708-9999 ZIP: 27708 ZIP4: 9999</p>
FINALIST-2171	<p>Corrected an AddrScan issue that resulted in a crash. When AddrScan encountered the input pattern “MAIL STOP CODE” and a subsequent address with “MAIL STOP” was passed for processing, AddrScan crashed. For example:</p> <p>Input address 1: 5565 GLENRIDGE CONNECTOR, NE MAIL STOP CODE G-15 LISLE IL 60532</p> <p>When a subsequent address containing “Mail Stop”, as shown below, was passed for processing, AddrScan crashed.</p> <p>Input address 2: 2435 ALPINE RD MAIL STOP 340</p>
FINALIST-2185	<p>Corrected an issue where the EXTRA-DATA (cExtra) field was not populated in the ALT structures (i.e., PBFNProcessDataAltDef (PBFNZRTN)). For example:</p> <p>Input address: Group 1 4200 Parliament PI STE 600 Leave at Security Desk Lanham MD 20706</p> <p>After processing, EXTRA-DATA (cExtra) field did not contain “Leave at Security Desk”. EXTRA-DATA (cExtra) field is now populated with “Leave at Security Desk”.</p>
FINALIST-2190	<p>CASS CYCLE O — Implemented a planned CASS Cycle O requirement to use the DPV P. O. Box™ Street Address (PBSA) Table to identify P. O. Box™ Street Addresses (PBSA). For more information, please refer to the section “DPV® P. O. Box™ Street Address (PBSA) Table” on page 7.</p>
FINALIST-2191	<p>CASS CYCLE O — Implemented DPV trailing Alpha requirement. For more information, please refer to the section “Single Trailing Alpha on Primary Number” on page 15.</p>

Change Requests Resolved for All Platforms (Part 3 of 12)

Change Request	Change Description
FINALIST-2215	<p>Corrected an AddrScan issue that occurred when the second address line contained 'DR' and 'S'. AddrScan interpreted the line as a street line, DR as a suffix, and 'S' as a directional. AddrScan removed the 'suffix' attribute and changed the line flag from '3' to '5' when "DR" was found at the beginning of line and there was no possible range found on the same line.</p> <p>Input address: MLPF& S CUST FPO DR KAYUEN S NG IRA FBO DR KAYUEN S NG 4368 STONEVIEW W BLOOMFIELD MI 48322</p> <p>Prior to this change, AddrScan generated the incorrect return code 53538. Now AddrScan interprets the second line, DR KAYUEN S NG IRA, as possibly a person's name and generates the correct return code 55538.</p>
FINALIST-2216	<p>Corrected coding for addresses that contain an extra unit designator but no suffix.</p> <p>Input address: 4265 N MOBILE APT FLR 2 CHICAGO IL606341585</p> <p>Fails with "Error code 4412 - Unable to rank primary street name with certainty. Suggestions may be available."</p> <p>Correctly coded address: 4265 N MOBILE AVE FL 2 CHICAGO IL 60634-1585</p> <p>Now codes with "Error code 5102 - Warning. Apt/Suite number is invalid or unavailable."</p>
FINALIST-2222	<p>Corrected an issue where AddrScan was not setting INDEX1 correctly for the following address.</p> <p>EXT QUINTAS DE SANTA MARIA #21 GENERAL DELIVERY</p> <p>AddrScan was incorrectly setting INDEX1 to 5000. INDEX1 is now being set correctly to 5600.</p>
FINALIST-2226	<p>Corrected an issue with some dual addresses where the label line was wrong and contained duplicate information.</p> <p>Input address: 60 CANTERBURY CT 449 STEELE ST DENVER CO 80206</p> <p>Incorrect label: 449 STEELE ST 60 CANTERBURY CT 449 STEELE ST DENVER CO 80206-4416</p> <p>Corrected label: 60 CANTERBURY CT 449 STEELE ST DENVER CO 80206-4416</p>
FINALIST-2236	<p>CASS CYCLE O — Implemented the planned Cycle O Convert Secondary to PMB requirement. For more information, please refer to the section "Convert Secondary to PMB" on page 13.</p>
FINALIST-2240	<p>CASS CYCLE O — Implemented the planned Cycle O Carrier Route R777 requirement indicating Carrier Route R777 is not eligible for street delivery. For more information, please refer to the section "Carrier Route R777" on page 3.</p>
FINALIST-2248	<p>CASS CYCLE O — Implemented the planned CASS Cycle O requirements for PO BOX only delivery zones and 5-Digit ZIP Validation. For more information, please refer to the sections "P. O. Box™ Only Delivery Zones" on page 11 and "Five-Digit Validation" on page 12.</p>

Change Requests Resolved for All Platforms (Part 4 of 12)

Change Request	Change Description
FINALIST-2256	<p>Corrected AddrScan processing for a situation where AddrScan failed to output the "CO" firm line when the advanced option "skip-firm" was turned off.</p> <p>Input address: CLARK CO TREASURER 15677 IRON BRIDGU RD</p> <p>Incorrect output (without "CO" firm line): 15677 IRON BRIDGU RD</p> <p>Corrected output: 15677 IRON BRIDGU RD</p> <p>CLARK CO TREASURER</p>
FINALIST-2264	<p>Corrected an issue where AddrScan was unable to recognize an URB input line when:</p> <ul style="list-style-type: none">• Returned Line Options were set to 56N• All advanced options were turned on except the skipURB advanced option• Advanced option "skipURB" turned off <p>Input address: Line 1: Line 2: URB BRISAS DE CEIBA</p>
FINALIST-2260	<p>Corrected an issue that occurred when PMB was presented on line 1, a complete address was presented on line 2, and no output PMB field was presented in the return ProcessData structure. The PMB line (line 1) was lost. When a UNIT was also presented on line 1, the UNIT was also lost assuming no output UNIT field is present in the return ProcessData structure.</p> <p>Input address: ADDR1: SUITE 116 PMB 348 ADDR2: 906 WEST MCDERMOTT DRIVE CITY: ALLEN STATE: TX ZIP: 75013 ZIP4: 5426</p> <p>Incorrectly coded address: FINL-ADDRESS2: 906 W MCDERMOTT DR FINL-CITY: ALLEN FINL-STATE: TX FINL-ZIP: 75013 FINL-ZIP4: 5426</p> <p>Correctly coded address: FINL-ADDRESS: SUITE 116 PMB 348 FINL-ADDRESS2: 906 W MCDERMOTT DR FINL-CITY: ALLEN FINL-STATE: TX FINL-ZIP: 75013 FINL-ZIP4: 5426</p> <p>Finalist[®] now returns the suite and PMB information in the address line.</p>
FINALIST-2268	<p>Corrected an issue where AddrScan interpreted "POBRE" as PO Box address for the following address.</p> <p>Input address: POBRE PERROS (P2) LLC 12211 DUNOON LN LOS ANGELES CA 90049 4001</p> <p>AddrScan now correctly identifies "POBRE PERROS (P2) LLC" as a firm.</p>

Change Requests Resolved for All Platforms (Part 5 of 12)

Change Request	Change Description
FINALIST-2269	CASS CYCLE O — As part of planned Cycle O requirements, added oPOBoxZone and oZIPValid as output fields to Finalist.exe and to the Workbench as part of the P. O. Box™ Only Delivery Zone and Five-Digit Validation requirements.
FINALIST-2273	Corrected an issue where AddrScan was unable to recognize "CALLE CHILE APT 7D" in the following address as an additional address line. Input address: CALLE CHILE APT 7D 253 COND CADIZ Incorrectly processed address (incorrectly flagging C/O line as firm "0" but output failed): CALLE CHILE APT 7D 253 COND CADIZ Correctly processed address (now generating correct output): 253 COND CADIZ CALLE CHILE APT 7D
FINALIST-2294	Corrected an issue with the state value in the AdsInfo structure. The state value was not always being set properly and was sometimes displaying an incorrect match status. Input address: 5969 Lee Vista Blvd Apt. 106 ORLANDO, PR 32822 Correctly coded address: 5969 LEE VISTA BLVD APT 106 ORLANDO FL 32822-1522 Prior to this correction the state value for the correctly coded address above was "04" (input data invalid). The state value is now being set properly to "06" (input data invalid and corrected).
FINALIST-2298	Finalist® matched to changed street because suffix match was given priority over directional match in the same search area. The street name change was not being considered in this case. Input address: 400 W Highland Seattle WA Incorrectly coded address: 400 Highlands Shoreline WA 98177-6003 Correctly coded address: 400 W Highland Dr Seattle WA 98119-3552

Change Requests Resolved for All Platforms (Part 6 of 12)

Change Request	Change Description
FINALIST-2299	<p>Corrected reported issues with EXTRA-DATA (cExtra):</p> <ul style="list-style-type: none">A unit designator without a range was overlaying C/O data. For example, for the following address, UNIT was returned in the EXTRA-DATA field (cExtra) but C/O BOSTON was lost. <p>Input address:</p> <p>135 SANTILLI HWY UNIT C/O BOSTON EVERETT MA 02149-1906</p> <p>Unit designators missing a range were being written to the cExtra field but were also overlaying other data previously written to the cExtra field. After this correction, the cExtra field now contains the following for the sample address:</p> <p>C/O BOSTON UNIT</p> <ul style="list-style-type: none">For the following address, the extra (trailing) word that matched the ZIP Code™ was not being placed in the cExtra field. <p>Input address:</p> <p>1 FINANCIAL WAY 45242 PO BOX 5363 CINCINNATI OH 45242-5851</p> <p>Correctly coded address:</p> <p>PO BOX 5363 1 FINANCIAL WAY CINCINNATI OH 45242-5851</p> <p>The cExtra field now contains "45242".</p> <ul style="list-style-type: none">Fractions following unit designators should not strip trailing alphas. For the following address, the "S" following "1021" was stripped and associated with the primary range. The resulting primary range, S-5225, caused the address to fail. <p>Input address:</p> <p>APT 1019/1021S 5225 POOKS HILL RD BETHESDA MD 20814-2052</p> <p>Correctly coded address:</p> <p>5225 POOKS HILL RD APT 1019/1021S BETHESDA MD 20814-2052</p> <p>Coding has been enhanced to only split off trailing alpha when the preceding word is not a unit designator (APT). The APT values remain invalid but the address now codes with an invalid unit (cERROR = 5102).</p> <ul style="list-style-type: none">In the following address, the date "7/14/08" resulted in "7/14" flagged as a fraction and "08" written to a separate field. The fraction split routine has been enhanced to interpret dates and no longer splits dates into multiple pieces of data. <p>Input address:</p> <p>4301 LARCHMONT ST 7/14/08 DALLAS TX 75205-1618</p> <p>Correctly coded address:</p> <p>4301 LARCHMONT ST # 7/14/08 DALLAS TX 75205-1618</p>

Change Requests Resolved for All Platforms (Part 7 of 12)

Change Request	Change Description
FINALIST-2300	<p>When running Finalist.exe (PGM=FINALIST) with AddrScan, the AddrScan advanced options were turned on causing a difference in how address lines were sent to the Finalist® engine. The default value is now "Off" when running Finalist.exe (PGM=FINALIST) with AddrScan. Also, corrected a problem with the automatic use of the AddrScan advanced options by combining ILx parameters with iCITY, IURBAN, or IFIRM.</p> <p>Input address:</p> <p>MARION JEAN BOHNE AGREEMENT LEWS SOLTAN UAD 08/14/96 HOWARD MESSER & JULIE PETE TTEES 310 GRANT STREET 3210 GRANT BUILDING PITTSBURGH PA 15219-2301</p> <p>AddrScan incorrectly passes the following address lines to the Finalist® engine with advanced options set to "ON" (previous default value for Finalist.exe):</p> <p>3210 GRANT BUILDING 310 GRANT STREET PITTSBURGH PA 15219-2301</p> <p>Address correctly coded but Finalist® generates error message 5101 (Missing apt/suite number):</p> <p>3210 GRANT BUILDING 310 GRANT ST PITTSBURGH PA 15219-2213</p> <p>Correctly coded address (with advanced options set to new default value "OFF"):</p> <p>310 GRANT STREET 310 GRANT ST STE 3210 PITTSBURGH PA 15219-2301</p>
FINALIST-2311	<p>Corrected an issue with coding of some addresses due to inconsistent extra line placement on some Puerto Rico addresses. This issue involved Puerto Rico dual/two-line addresses and resulted in an incorrect address location for some Puerto Rico addresses. For example:</p> <p>PO BOX 361182 SAN JUAN PR 5916 CALLE GUAVINA APARTADO 2 PONCE PR</p>
FINALIST-2312	<p>Corrected issues with losing information when standardizing a P. O. Box™. Now returning input address on garbage P. O. Box™ addresses.</p> <p>Input address:</p> <p>PO Box PMB 1283-610 SAN LORENZO PR 00754</p> <p>Incorrectly coded address:</p> <p>PO BOX SAN LORENZO PR 00754</p> <p>Correctly coded address:</p> <p>PO Box PMB 1283-610 SAN LORENZO PR 00754</p>

Change Requests Resolved for All Platforms (Part 8 of 12)

Change Request	Change Description
FINALIST-2316	<p>ENHANCEMENT — Corrected an issue where addresses that were EWS failures were being passed through for LACS^{Link} processing instead of being identified as failed addresses. These addresses are now identified as failed addresses with a 4460 error code (EWS Failure. Address found on EWS table).</p> <p>Input address: 1 WOODALL 17584</p> <p>Incorrectly coded address: 801 WOODHALL DR WILLOW STREET PA 17584-9650</p> <p>The example address now fails with a 4460 error code.</p>
FINALIST-2327	<p>ENHANCEMENT — Made the previously documented PBFNRtnSuiteLinkStatsDef structure available via the PBFNStats() and PBFNTerminate() APIs. For more information, please refer to the section “PBFNRtnSuiteLinkStatsDef Structure” on page 17.</p>
FINALIST-2332	<p>ENHANCEMENT — Updated the AddrScan option in the Lookup tool to provide more options. For more information, please refer to the section “Lookup Tool Changes” on page 19.</p>
FINALIST-2336	<p>Corrected an issue where AddrScan processing was flagging the following rangeless address as a FIRM.</p> <p>Input address: ANGUS RANCH RD CAMILLUS,NY 13031</p>
FINALIST-2346	<p>Corrected an issue with AddrScan processing of military addresses split over multiple lines. AddrScan failed to combine the address lines.</p> <p>Input address: BOX 15 UNIT 3460 DPO AP 340330015</p> <p>Incorrectly coded address: BOX 15 UNIT 3460 DPO AP 340330015</p> <p>Correctly coded address: UNIT 3460 BOX 15 DPO AP 340330015</p>
FINALIST-2350	<p>ENHANCEMENT — Provided a new option to allow the Finalist[®] driver to create an output file with a layout that is different from the input file (cOverlayCheck=OFF). For more information, please refer to the section “Enhanced Output File Formatting” on page 18.</p>

Change Requests Resolved for All Platforms (Part 9 of 12)

Change Request	Change Description
FINALIST-2354	<p>Corrected an AddrScan issue that occurred in the Finalist® 8.3.0 version. The Finalist® 8.3.0 version, when using 92N, did not return the C/O line in the ADDRPASS-OUTLINE2 field. However, the Finalist® 8.3.0 version, when using 93N, did return the C/O line in the ADDRPASS-OUTLINE2 field. The C/O line should not be returned in the firm line, label line, or output line.</p> <p>Input address: C/O TIME EQUITIES 55 5TH AVE NEW YORK NY 10003-4301</p> <p>Incorrectly output address: 55 5TH AVE C/O TIME EQUITIES NEW YORK NY 10003-4301</p> <p>Correctly output address: 55 5TH AVE NEW YORK NY 10003-4301</p>
FINALIST-2362	<p>ENHANCEMENT — Enhanced the coding process where a standardized unit designator follows C/O and is located on the same line as the primary address. Finalist® no longer treats the standardized unit designator as part of the C/O name. This enhancement only applies to standardized unit designators (APT, STE, etc.). If the input unit designator is not in a standardized format, the unit designator is not accepted.</p> <p>Input address: 1017 N. Jefferson St C/O Apt 21 Quitman, GA 31643</p> <p>Finalist® 8.3.0 coded address (C/O APT 21 written to the EXTRA data field (cExtra)): 1017 N JEFFERSON ST QUITMAN GA 31643-1462</p> <p>Finalist® 9.0.0 coded address (only C/O written to the EXTRA data field (cExtra)): 1017 N JEFFERSON ST APT 21 QUITMAN GA 31643-1449</p> <p>When C/O is input as a separate line, C/O remains independent and not part of the coded address. When on a line by itself, C/O is returned as an unused address line. For example:</p> <p>Input address: 1017 N. Jefferson St C/O Apt 21 Quitman, GA 31643</p> <p>Returned address: C/O APT 21 1017 N JEFFERSON ST QUITMAN GA 31643-1462</p>
FINALIST-2373	<p>Corrected a crash that occurred when the input P. O. Box™ address contains a comma and a PMB. For example:</p> <p>PO BOX 311, PMB 31104132 MENDHAM NJ 41341</p>

Change Requests Resolved for All Platforms (Part 10 of 12)

Change Request	Change Description
FINALIST-2377	<p>Corrected an issue where AddrScan was unable to concatenate secondary information (APT nnn) correctly.</p> <p>Input address: APT 335 14981 REFLCTION KEY CIR FORT MYERS FL 33907</p> <p>Incorrectly coded address: 14981 REFLCTION KEY CIR</p> <p>FORT MYERS FL</p> <p>Correctly coded address: 14981 REFLECTOIN KEY CIR APT 335 FORT MYERS FL 33907-8108</p>
FINALIST-2379	<p>Corrected an issue where Finalist[®] 8.20 S01 (for AIX) was core dumping when passed the following address.</p> <p>Input address: PO BOX 311, PMB 31104132 MENDHAM NJ 41351</p> <p>Correctly coded address: PO BOX 311 PMB 31104132 MENDHAM NJ 07945-0311</p>
FINALIST-2380	<p>Corrected an issue that occurred for street addresses that began with a single character word. That character was being added as a secondary (# M in this case).</p> <p>Input address: 837 M AND O STATION RO MILLSTADT IL 62260</p> <p>Previously coded address: 837 M AND O STATION RD # M MILLSTADT IL 62260-1367</p> <p>Correctly coded address: 837 M AND O STATION RD MILLSTADT IL 62260-1367</p>
FINALIST-2391	<p>ENHANCEMENT — If the output city is changed due to a preferred city override condition, indicate this as a new value, PBFN_PREFERRED_OVERRIDE, in the cCityType field of the AdsInfo structure.</p> <p>Input address: 60 DANBURY RD WALLS TOWNSHIP NJ 07753</p> <p>Correctly coded address: 60 DANBURY RD (Match) TINTON FALLS NJ 07753-7918</p> <p>For more information, please refer to the section “PBFNAddressInfoDef Structure” on page 17.</p>
FINALIST-2416	<p>ENHANCEMENT — Added a new AddressData (ADRS) structure that will eventually replace the ProcessData, AltProcessData, ParsedAdr, and AltParsedAdrstructures in future Finalist[®] releases. For more information, please refer to the section “PBFNAddressDataDef” on page 16</p>

Change Requests Resolved for All Platforms (Part 11 of 12)

Change Request	Change Description
FINALIST-2421	<p>ENHANCEMENT — Enhanced processing of ZIP+4[®] addresses from the USPS[®] data file that contain FIPS codes but do not have a corresponding COUNTY NAME. In these cases, Finalist[®] now returns the FIPS code and COUNTY NAME based on the ZIP Code[™]. At this time, known affected ZIP Codes are 24523, 23847, and 96799.</p> <p>Input address (address with FIPS code but no COUNTY NAME):</p> <p>1143 N. MAIN ST EMPORIA VA23847</p> <p>Previously coded address:</p> <p>1143 N. MAIN ST EMPORIA VA 23847-1259 FIPS Code = 51595 COUNTY NAME = Blank</p> <p>Correctly coded address:</p> <p>1143 N. MAIN ST EMPORIA VA 23847-1259 FIPS Code = 51081 (based on the ZIP+4[®]) COUNTY NAME = Greenville</p>
FINALIST-2425	<p>CASS CYCLE O — Previously required CASS[™] Cycle O functionality that required R777 and PMB Conversion is now optional. For more information, please refer to “Carrier Route R777” on page 3 and “Convert Secondary to PMB” on page 13.</p>
FINALIST-2432	<p>Corrects coding for addresses containing streets in the format ROAD N-A (where N is a number and A is an alpha).</p> <p>Input address:</p> <p>19872 Road 14-S Columbus Grove, OH 45830</p> <p>Incorrectly coded address (fails with error code 4601 - DPV[®] failure):</p> <p>19872 Road 14 Columbus Grove, OH 45830</p> <p>Correctly coded address:</p> <p>19872 Road 14S Columbus Grove, OH 45830</p>
FINALIST-2436	<p>Implemented new layout of Finalist[®] CITY and ZIP4 databases. New layout cannot be used with versions prior to Finalist 9.0. Old layout cannot be used with versions 9.0 or newer.</p>
FINALIST-24544	<p>Modify matching logic to favor exact street name over suffix if alternative street name match < 85%.</p> <p>Input address:</p> <p>200 Doe Run Dr 47172</p> <p>Incorrectly coded address:</p> <p>200 Deer Run Dr 47172-9747</p> <p>Correctly coded address:</p> <p>200 Doe Run 47172-9738</p>

Change Requests Resolved for All Platforms (Part 12 of 12)

Change Request	Change Description
FINALIST-2451	<p>Corrected processing to return error code 5105 (Box number is invalid or unavailable) instead of 5102 (Apt/suite number is invalid or unavailable) for military addresses. Box is more appropriate for military/box addresses. For example, prior to this change, the address below returned error code 5102. Processing now returns error code 5105 for the address below.</p> <p>Input address: UNIT 7755 BOX 960704 APO AE 09720</p>
FINALIST-2455	<p>Corrected an issue where Finalist® was not always indicating records are street defaults. For example, Finalist® now sets default match flag to Y for the address below.</p> <p>Input address: 1300 Rolling Oaks Dr 72756</p>
FINALIST-2459	<p>Corrected issue where addresses with a suffix of XRDS were missing from the Finalist® database. For example, the following address was missing from the Finalist® database prior to this correction.</p> <p>Input address: 198 OLIVERS XRDS 28573</p>
FINALIST-2467	<p>Changed processing to allow DPV® primary alpha retry for street defaults.</p> <p>Input Address: 3658B MONROE AVE PITTSFORD NY 14534</p> <p>Output if SpecialType=A (Alpha Retry): 3658B MONROE AVE PITTSFORD NY 14534-1262 DPV® Flag=S DPV® Footnote=AACC</p> <p>Output if SpecialType=S (Street Default): 3658B MONROE AVE PITTSFORD NY 14534 DPV® Flag=N DPV® Footnote=AAM3</p> <p>The address does not DPV® confirm if SpecialType=A, but will fail DPV® if SpecialType=S (or if SpecialType is blank). To resolve this issue, a new value 'B' has been created for internal DPV® input field cSpecialType that indicates both S and A and allows DPV® to recognize both conditions for the address.</p>
FINALIST-2471	<p>Corrected issues with the formatting of military addresses that caused the addresses not to code.</p> <p>Input address: UNIT 3190, UNIT 258 DPO AA 34024</p> <p>Address did not code.</p> <p>Correctly coded address: UNIT 3190 BOX 258 DPO AA 34024-0258</p>

CICS

Change Requests Resolved for CICS

Change Request	Change Description
FINALIST-2244	ENHANCEMENT - Updated the CICS transaction LPCF and the IMS transaction S56LPWNH to provide an option to display PBSA. Removed unused fields from the CICS and IMS screens and, where needed, reformatted screens for ease of use. Enhanced the LPCF and S56LPWNH transactions to be more consistent. Added other options (SLK Secondary, RDI). Now displays all "Link" output fields. Removed S56WNF1P, IMS protected panel. For more information, please refer to the section “CICS Screen Changes” on page 22 and “IMS Screen Changes” on page 23 .

IMS

Change Requests Resolved for IMS

Change Request	Change Description
FINALIST-2244	ENHANCEMENT - Updated the CICS transaction LPCF and the IMS transaction S56LPWNH to provide an option to display PBSA. Removed unused fields from the CICS and IMS screens and, where needed, reformatted screens for ease of use. Enhanced the LPCF and S56LPWNH transactions to be more consistent. Added other options (SLK Secondary, RDI). Now displays all "Link" output fields. Removed S56WNF1P, IMS protected panel. For more information, please refer to the section “CICS Screen Changes” on page 22 and “IMS Screen Changes” on page 23 .
FINALIST-2358	ENHANCEMENT — To enhance use of the AIBTDLI function in IMS, PCBNAMEs have been added to all PCB definitions. In addition, the COBOL definition of the PSB pointers in LPFNCL01 has been corrected - S9(05) has been changed to S9(09).

Windows

Change Requests Resolved for Windows

Change Request	Change Description
FINALIST-2286	ENHANCEMENT - The Finalist [®] installer has been updated with a Code Signing Certificate to authenticate the installed software and files.
FINALIST-2332	ENHANCEMENT - Update the AddrScan option in the Lookup tool to provide more options. For more information, please refer to the section “User Interface (UI) Changes” on page 18 .

Change Requests Resolved for z/OS

Change Request	Change Description
FINALIST-1553	Removed remaining LPFNCC components from the distributed OBJ library. The modules have been removed from BAOBJLIB and XBOBJLIB.
FINALIST-2205	ENHANCEMENT — Added alternate load modules for the Finalist® Product APIs on z/OS to allow COBOL program to operate without DLL and without ProgramName(LongMixed). For more information, please refer to the section “Calling the Native Finalist® APIs Using Standard Linkage” on page 16.
FINALIST-2301	Updated sample JCL used to load the Finalist® databases from tape to allow for 2 VOLSERS, DBREPRO and STATECUT. The US Postal Database and Finalist® Database both increased from single 3490E tapes to each being a two tape set.
FINALIST-2331	Correct a memory leak that occurred when calling PBFNInit/PBFNTerminate multiple times in the same enclave.
FINALIST-2342	The BAL (assembler) version of the AddrScan copybook (ADDR020D) contained two copies of the call area. The first contained an extra field definition. Standardized to a single copy and removed the extra field.
FINALIST-2366	Changed all JCL and related components to be consistent by changing the generic term for high level qualifier from "yourhlq" to "hlq".

Documentation Changes

The Finalist® 9.0.0 documentation has been updated and streamlined from four guides to three guides.

- Finalist® Installation Guide
- Finalist® User's Guide
- Finalist® Reference Guide

The Finalist® Getting Started Guide and the Working With Finalist® Guide have been combined into a new Finalist® User's Guide. Some information from the two previous guides, where appropriate, has been moved to the Finalist® Installation Guide and the Finalist® Reference Guide. We recommend you download copies of the new Finalist® 9.0.0 documentation from the Pitney Bowes Software Support Site at <http://www.g1.com/support> and become familiar with the streamlined documentation guides.

The Finalist® 9.0.0 documentation provides information on all enhancements and changes for the Finalist® 9.0.0 release. The following table describes the Finalist® 9.0.0 release documentation changes and additions and where you can find additional information on these release changes in your Finalist® documentation.

Finalist® Guide	Description
<i>Finalist® Installation Guide</i>	The Finalist® 9.0.0 release changes to the <i>Finalist® Installation Guide</i> include: <ul style="list-style-type: none">• Documentation changes for the Finalist® 9.0.0 release enhancements and updates.• Chapter 9, Auxiliary Databases, includes information on the new PB and R7 DPV® footnote codes in the section "DPV® Return Information".
<i>Finalist® User's Guide</i>	The Finalist® 9.0.0 release changes to the <i>Finalist® User's Guide</i> include: <ul style="list-style-type: none">• Documentation changes for the Finalist® 9.0.0 release enhancements and updates.• Chapter 2, Configuring Finalist® — Includes information on the Finalist® 9.0.0 release changes to the configuration file (pbfncfg) and the UI configuration screens.• Chapter 3, Interactive Address Lookup — The section "Using Finalist® CICS" includes information on CICS screen changes.• Chapter 3, Interactive Address Lookup — The section "Using Finalist® IMS" includes information on IMS screen changes.• Chapter 4, Defining a Job — Includes information on the new OverlayCheck field.• Chapter 4, Defining a Job — The section "Definition File" includes information on the following new definition file keywords:<ul style="list-style-type: none">– oDPVPBSA– oPOBoxZone– oZIPValid• Chapter 4, Defining a Job — The section "Pitney Bowes Software VeriMove™ Move Update Product Information Codes" includes information on the new DPV® PBSA Flag information code for VeriMove™ Move Update External CASS Support.• Chapter 6, Using the Finalist® Reports — Includes information on changes to the Finalist® Batch report and the USPS® Form 3553 (CASS™ Summary Report) for the Finalist® 9.0.0 release.• Chapter 7, Finalist® Error Codes — Includes information on the new 4602 error code.
<i>Finalist® Reference Guide</i>	The Finalist® 9.0.0 release changes to the <i>Finalist® Reference Guide</i> include: <ul style="list-style-type: none">• Documentation changes for the Finalist® 9.0.0 release enhancements and updates.• Chapter 2, Using the Structures and Constants — Includes information on new and changed structures and structure fields for the Finalist® 9.0.0 release.• Chapter 2, Using the Structures and Constants — Includes information on the new DPV® Footnote Code R7, in the section "PBFNDPVStatsDef Structure". DPV® Footnote Code "R7" identifies a Carrier Route R777.

For more information on the Finalist® 9.0.0 release changes, download the Finalist® 9.0.0 documentation from the Pitney Bowes Software Support Site at <http://www.g1.com/support>.

Help File Changes

The Finalist® 9.0.0 release includes an updated help file. The updated help file is provided with the Windows UI.

Finalist® 9.0.0 Release Availability

The Finalist® 9.0.0 release is available for download from Pitney Bowes Software at <http://www.g1.com/support>. Log in to Support>My Products>Finalist>View Available Downloads>Software tab.

Technical Support

If you have any questions, please use our [Online Case Management System](#) to create a Support request. If you have not previously logged in to the Online Case Management System, you will be prompted to create your account credentials. You may also contact us by telephone at **1-800-367-6950** to speak with a Finalist® Technical Support Representative.

