

Intelligent Mail® Barcode Technical Resource Guide

Prepared by: Intelligent Mail Planning and Standards United States Postal Service

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The information in this document is intended to give mailers and service providers cursory information on the use of Intelligent Mail® barcode for OneCode Confirm™ and OneCode ACS™ services.

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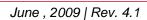




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1. INTELLIGENT MAIL® BARCODE BASICS

1.1. Specification and Construct Summary

The Intelligent Mail® barcode is a height-modulated barcode that encodes up to 31-digits of mailpiece data into 65 vertical bars using 4-state symbology (ascender, descender, tracker and full bar).

թ||Ալ||։Ալ||Ալ|-||ես|||-||երլիրել||ԱլթեսԱդուր||

Key specification tolerances:

- Overall barcode length between 2.667 and 3.225 inches.
- Overall barcode height between 0.125 and 0.165 inch.
- Vertical barcode clearance at least 0.028 inch; horizontal barcode clearance at least 0.125 inch.

Other physical characteristics are the same as POSTNET™ and PLANET Code® barcodes. Appendix A contains the Intelligent Mail barcode specification tolerances.

The Intelligent Mail barcode consists of a 20-digit Tracking Code (Barcode ID, Service Type ID, Mailer Identifier, and Serial Number) and up to 11-digit Routing Code (Delivery Point ZIP Code). Depending on mail volume and services selected, the Intelligent Mail barcode construct will change as seen in the figures below.

FIGURE 1: Large mailer with 6-digit Mailer ID

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Baro	code	Se	ervi	е																										
	D	Ту	ре	ID		M	laile	er I	D		Serial Number		Routing Code																	
[2	N]	[3N]			[6]	N]			[9N]		[9N] [none,5,9, c			or	11N	۱]												

FIGURE 2: Small mailer with 9-digit Mailer ID

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31
Baro	code	Se	ervi	ə																									
I	D	Ту	/ре	ID				Ma	iler	ID					Seri	al I	Nur	nbe	er	Routing Code									
[2	N]		3N						[9N]							[6	N]					[r	on	e, 5	5, 9	or	111	۱]	

The following fields are embedded within the Intelligent Mail barcode:

- Barcode ID identifies the presort makeup in conjunction with an Optional Endorsement Line.
- **Service Type ID** identifies special services requested (OneCode Confirm[™] and/or OneCode ACS[™]) or Mail Class when used for automation rate discount without any services.
- Mailer ID is a 6-digit or 9-digit number that uniquely identifies the mail owner or mailing agent.
- **Serial Number** can uniquely identify the mailpiece or mailing.
- **Routing Code** must contain Delivery Point ZIP Code from CASS (Coding Accuracy Support System) certified software in order to obtain automation rate discount.



1.2. Producing the Intelligent Mail Barcode

The general steps below can be followed to produce an Intelligent Mail barcode:

- Talk with your local Business Mail Entry Unit (BMEU) or Mailpiece Design Analyst (MDA) to receive guidance on how to best meet your mailing needs with the Intelligent Mail options the Postal Service has provided.
- Acquire a Mailer Identifier (MID) by visiting http://www.usps.com/ and logging into the Business Customer Gateway.
- Decide on what data will go into the Intelligent Mail barcode and populate the barcode fields: Tracking Code (Barcode ID, Service Type ID, Mailer ID, Serial Number) and Routing Code (Delivery Point ZIP Code).
- Encode required 20-digit Tracking Code and up to 11-digit Routing Code into 65-character string (encoders available on RIBBS).
- Apply font to 65-character string (fonts available on RIBBS).
- Print barcode on mailpiece or save barcode image for later application.

The Rapid Information Bulletin Board System (RIBBS) website at http://ribbs.usps.gov/OneCodeSolution/ contains a wide array of resources in support of getting started with the Intelligent Mail barcode.

1.3. Applying the Intelligent Mail Barcode

The Intelligent Mail barcode can be applied on automation-rate First-Class Mail®, Standard Mail®, Periodicals, and Bound Printed Matter letters and flats for rate eligibility in lieu of the POSTNET barcode. When used with OneCode Confirm and OneCode ACS, the Intelligent Mail barcode can be applied on First-Class Mail, Standard Mail, and Periodicals letters and flats.

Priority Mail Flat-shaped mailpieces with permit imprints may bear a POSTNET or Intelligent Mail barcode instead of the GS1-128 Postal Routing barcode for Commercial Base and Commercial Plus pricing.

The Intelligent Mail barcode can be placed in any location where POSTNET barcodes are currently allowed; the most common placement is within the address block.

2. ONE CODE VISION® AND INTELLIGENT MAIL® BARCODE

2.1. History of the Intelligent Mail Barcode

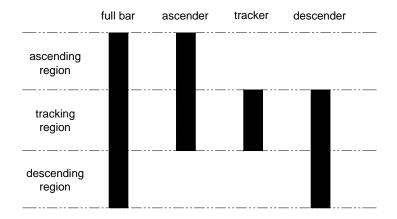
In 2003, the United States Postal Service (USPS) published the Intelligent Mail® Corporate Plan. This plan identified several key strategies including: Uniquely Identify Mail and Mail Aggregates; Develop and Deploy an Enabling Infrastructure; and Enhance Address Quality. This plan provided the following vision:



"To capitalize on the value of information about mail, the Postal Service and its customers will place an information-rich code on all mail, aggregates of mail, and business forms, enabling end-to-end visibility into the mail stream."

In support of this OneCode Vision®, the Postal Service, in partnership with the mailing industry, developed the Intelligent Mail® barcode (formally known as the 4-state Customer Barcode). It is the next generation in the evolution of Postal Service barcode technology. It offers a more effective alternative to existing barcodes by increasing the amount of information that is present on letter and flat mailpieces, allowing for expanded tracking capability, and creating greater visibility into the mailstream.

The Intelligent Mail barcode is a height-modulated barcode that encodes up to 31-digit string of mailpiece data into 65 vertical bars. These bars may be present in one of four possible states: full bar, ascender, tracker, and descender.



The 31-digit Intelligent Mail barcode (65 bars) is slightly longer than the 11-digit POSTNET barcode (62 bars), and it offers mailers certain flexibility in choosing the height and width of the barcode. Due to mailpiece real estate concerns and barcode print quality, some mailers expressed an interest in a shorter-height Intelligent Mail barcode. Evaluations were conducted with letter mail that allowed the Postal Service to reduce the height requirement by 16.3% for the September 2006 offering. Consequently, the read-rate and dimension analysis supported by an extensive flats test was used as a decision-making tool in determining the feasibility of a revised Intelligent Mail barcode with further reduced vertical dimensions. As a result of this, in July 2007, the Postal Service published a new Specification for the Intelligent Mail barcode with even shorter bar heights with the full bar ranging in height between 0.125 and 0.165 inches.

2.2. Implementation of Services and Automation Discount

The Postal Service offers a suite of services for letters and flats using the Intelligent Mail barcode. This suite of services is called the OneCode Solution[™] suite. Since the initial launch of the Intelligent Mail barcode on September 1, 2006, mailers have had the option of using the Intelligent Mail barcode on letter mail for the Confirm® Service, referred to as OneCode Confirm™, and a version of Address Change Service™ (ACS™), called OneCode ACS™. The Intelligent Mail barcode can be used for automation-rate eligibility with or

without these services requested. Effective May 1, 2007, the Postal Service expanded use of the Intelligent Mail barcode by allowing mailers to use IM™ barcode on automation-rate flat-size mailpieces.

The Postal Service allows mailers to use the Intelligent Mail barcode on automation-rate First-Class Mail®, Standard Mail®, Periodicals, and Bound Printed Matter letters and flats for rate eligibility in lieu of the POSTNET barcode. The Postal Service allows First-Class Mail, Standard Mail, and Periodicals letters and flats with Intelligent Mail barcode to participate in OneCode Confirm and OneCode ACS programs.

Details pertaining to the use of the Intelligent Mail barcode as part of OneCode ACS are available in *Publication 8b*, *Address Change Service-OneCode ACS*. Additional details about the use of the Intelligent Mail barcode as part of the OneCode Confirm are available in *Publication 197 - Confirm® Service User Guide*. These documents can be downloaded from the Rapid Information Bulletin Board System (RIBBS) website at http://ribbs.usps.gov/OneCodeSolution/.

At the present time, use of the Intelligent Mail barcode is optional; however, many customers have found that, because it offers significant advantages over POSTNET and PLANET Code barcodes (including using less mailpiece "real estate" and offering more overall data capacity), it makes good business sense to use this new format.

The Postal Service will require the Intelligent Mail barcode to qualify for automation discounts in May 2011. Until then, the Postal Service will continue to support the use of the POSTNET barcode for encoding the delivery point barcode for automation discount eligibility, the PLANET Code barcode for encoding tracking information for Confirm, and alphanumeric characters for conveying participant code and Keyline information for ACS.

3. INTELLIGENT MAIL BARCODE CONSTRUCT

The Intelligent Mail barcode carries a data payload of up to 31 digits comprised of the following elements.

Туре	Field	Field Length (in digits)				
Tracking Code	Barcode Identifier	2 (2nd digit must be 0-4)				
	Service Type Identifier	3				
	Mailer Identifier	6 or 9				
	Serial Number	9 (when used with 6 digit Mailer ID)				
	Serial Number	6 (when used with 9 digit Mailer ID)				
Routing Code	Delivery Point ZIP Code™	0, 5, 9, or 11				
Total Data Payload		31 (maximum)				

3.1. Barcode Identifier

The Barcode Identifier field is a 2-digit field that is reserved to encode the presort identification that is currently printed in human readable form on the optional endorsement line (OEL) as well as for future Postal Service use. Generally, this field should be left as "00" if an OEL is not printed on the mailpiece. The exception is for automation-rate eligible flat mail with an optional endorsement line, where the Intelligent Mail barcode must contain OEL coding corresponding to the correct sortation level of each piece. Table B1 in Appendix B provides the OEL codes for use within the Intelligent Mail barcode.

3.2. Service Type Identifier

The Service Type Identifier field is a 3-digit field that indicates participation, or the lack of, in various Postal Service programs. Each 3-digit value corresponds to a particular mail class with a particular combination of service(s). Eventually the Postal Service anticipates supporting many combinations of class and service using this field; however, initially only a limited set of offerings are available. Table B2 in Appendix B provides service codes and corresponding service descriptions.

Beyond simply identifying when a mailpiece carries services, the Intelligent Mail barcode will identify the mail class – even when no additional service is requested. Mailers printing the Intelligent Mail barcode solely to qualify for automation discount must populate the Service Type ID field with one of the following values: 300 for First-Class Mail, 301 for Standard Mail, 704 for Periodicals, or 401 for Bound Printed Matter. Reply mail, such as Courtesy Reply Mail (CRM), Meter Reply Mail (MRM), and Permit Reply Mail (PRM) may use the Intelligent Mail barcode by populating the Service Type ID field with 700. Mailers using Business Reply Mail (BRM) or Qualified Business Reply Mail (QBRM) without any services should populate the Service Type ID field with 708.

Priority Mail Flat-shaped mailpieces with permit imprints may bear an Intelligent Mail barcode with Service Type ID of 710 or 712. Note that Priority Mail customers cannot use the Intelligent Mail barcode to request extra services; in such case, the GS1-128 barcode symbology must be used, where each barcode must contain a unique Package Identification Code (PIC) and meet the specifications in Publication 91.

3.3. Mailer Identifier

The Mailer Identifier (Mailer ID or MID) field is a 6-digit or 9-digit number that identifies a specific agent in the mail preparation process who has responsibility for the ownership, content, make up, or preparation of the mail.

Mailer ID can be obtained via the Business Customer Gateway at http://www.usps.com/. Local Business Mail Entry Units (BMEUs) and Mailpiece Design Analysts (MDAs) are available to assist with the application process or to handle exceptions. To contact a local BMEU visit http://www.usps.com/nationalpremieraccounts/ findlocators.htm, or visit http://www.usps.com/replymail/mailpiece.htm to find a local MDA.



Mailer ID is only recommended, and not required on all reply mail using Origin Confirm service, except QBRM and PRM. QBRM and PRM will require Mailer ID in May 2011. All other mail using an IM barcode requires an embedded Mailer ID today.

3.4. Serial Number

The Serial Number is a 6-digit or 9-digit field depending on the length of the Mailer ID. The Serial Number can be populated with a number that uniquely identifies each mailpiece, becoming a Unique *Mailpiece* ID. Alternatively, the Serial Number may also be populated with a number that is unique to a mailing, becoming a Unique *Mailing* ID. The uniqueness method is left up to the mailer and can be achieved, among other things, by serializing the mailpieces, embedding Julian date, embedding mailing event, using recipient identifier, using database or mailing record ID. Serial Number uniqueness is not required when qualifying for basic automation prices.

For existing Destination Confirm customers, this field can hold the PLANET Code barcode Mailing ID field, padded with additional digits to fill the field completely. For existing Origin Confirm customers, the Serial Number and the Mailer ID fields can be combined into a 15-digit field to hold the PLANET Code barcode 9-digit or 11-digit Customer ID, padded with additional digits to fill the field completely. OneCode ACS customers should use the Serial Number field to encode information previously encoded within the Keyline field. Priority Mail customers can populate this field with zeroes, as it is not required.

3.5. Routing Code

The Routing Code field is an optional field, which may contain a 5-digit ZIP Code, a 9-digit ZIP+4 code, or an 11-digit delivery point code. When used on letters for automation-rate eligibility purposes, the routing code must contain a delivery point code from CASS-certified software that accurately matches the delivery address. When used on flat-size pieces for automation-rate eligibility purposes, the barcode must contain either a ZIP+4 or a delivery point routing code that accurately matches the delivery address. Unlike POSTNET barcode, the Routing Code within the Intelligent Mail barcode does not require a check digit. Also, unlike POSTNET barcode, the Intelligent Mail barcode is always 65 bars regardless of ZIP Code length. In certain situations the mailer may opt not to populate the Routing Code and use the barcode only for tracking; however, mailers should adhere to USPS program-specific guidance. The Routing Code, if populated, must never be padded with zeros, spaces or nulls that are not part of the valid ZIP Code.

Remittance or reply mail may use the Intelligent Mail barcode with a proper Routing Code for the mailpiece. Note that 11-digit delivery point codes are not permitted on Business Reply Mail (BRM). When used by Origin Confirm users, the Routing Code serves as the "Subscriber ID", in which case the Routing Code used must be registered within the subscriber's OneCode Confirm account.

When using OneCode Confirm for "seeding" within an automation discount mailing, a non-seeded mailpiece may use the Intelligent Mail barcode with a proper Delivery Point ZIP Code to meet the automation discount criteria. Such an Intelligent Mail barcode should use one of the Service Type IDs defined for use as a Mail Class Designator (those codes without



services) to indicate that the piece is not intended to generate Confirm information. The Mailer Identifier field should contain the appropriate Confirm Subscriber ID.

Priority Mail Flat-shaped mailpieces with permit imprints may use an Intelligent Mail barcode with a valid destination ZIP or ZIP+4 Code, instead of a GS1-128 Postal Routing barcode, to qualify for Commercial Base and Commercial Plus pricing.

4. BARCODE PRODUCTION CHARACTERISTICS

4.1. Creating the Intelligent Mail Barcode

Encoding data into a POSTNET or PLANET Code is very straightforward: each digit in the payload is represented by a predefined pattern of 5 bars. Encoding data into an Intelligent Mail barcode is more complex. The encoding algorithm that translates the 31 digits in the payload into 65 bars is defined in the USPS publication, *Specification USPS-B-3200*, which is available for download from the Rapid Information Bulletin Board System (RIBBS) website at http://ribbs.usps.gov/OneCodeSolution/.

To facilitate the adoption of the Intelligent Mail barcode, the Postal Service has developed, and is making available at no charge, a web-based, interactive encoder-decoder tool, and an extensive library of encoding software and fonts suitable for encoding and printing the Intelligent Mail barcode in mail production environments using selected operating systems and printing architectures. These resources are available from the same RIBBS web site.

To download the library of encoding software and fonts from the RIBBS website, users must first request a user ID and password by calling the NCSC Help Desk at (877) 640-0724 or contacting them via https://ribbs.usps.gov/onecodesolution/contact.html

Once logged in, users will be able to download the encoding software package for any particular operating system of interest. Each package contains all the files needed to use the encoder software under that operating system in any of the languages or applications that are supported. The Postal Service currently provides software, implemented in C, Java, Cobol, and PL1. The supported operating systems are: MVS, z/OS, OS/390, VSE/ESA, OS/400, AIX, Linux, HP/UX, Solaris, Mac OS X, and Windows. The list of combinations available is provided in Appendix C.

For each operating system, the encoding software package is distributed as a standard ZIP file. Users can use any utility that can handle a PKZIP file to extract the individual files to the path stored on the ZIP File. A user guide is included in each package to provide detailed operating system and language-specific instructions on how to install and use the files in the package. All the required binary loadable software modules and a number of source files for installation verification are also included in the package.

Independent of operating system and language, the encoding software works as follows. Each call to the encoder requires two arguments: a 20-digit tracking code, and none, 5, 9, or 11-digit routing code. The encoder will return the status of the encoding function along with a 65-character string of the letters F, A, D, or T, representing a full bar, ascender, descender, or tracker, respectively.

For example, a tracking code of 00040123456200800001 and a routing code of 987654321 will be encoded into the following 65-character string:

ADTTTATTTFTDFADTDTFTAATATADDDDFTTDTDFFDFTTATAFFDDADDTFFADFDFTTTAD When the string is printed with the Intelligent Mail barcode font, the actual barcode will be produced:

From the RIBBS website, registered and logged in users will be able to download the font package needed to install and use the font for the following major production printing environments: Advanced Function Printing (AFP), XEROX Metacode, Hewlett Packard's PCL (Print Control Language), Adobe's Postscript, and TrueType.

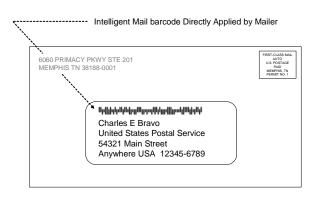
4.2. Placement of the Intelligent Mail Barcode

On letters, the Intelligent Mail barcode can be placed in the address block or in the barcode clear zone. On flats, the Intelligent Mail barcode can be placed anywhere on the address side as long as it is at least 1/8 inch from any edge of the piece. To avoid ambiguity, only one Intelligent Mail barcode can be placed in the same area.

The placement configurations of the Intelligent Mail barcode on a letter-size and flat-size mail are defined in the *Domestic Mail Manual (DMMTM)*. Below are some commonly used placement configurations. The mailpiece images used to illustrate these configurations are not meant to be exact or exhaustive; note that the POSTNET barcode is acceptable for automaton prices only until May 2011. For additional details concerning barcode placement, please refer to 202.5, 302.4 and 503.13.3 of the *DMM*.

Configuration 1

- Mailer applies the Intelligent Mail barcode above or below the address within the address block.
- Mailer encodes the delivery point code in the Intelligent Mail barcode along with the tracking code.



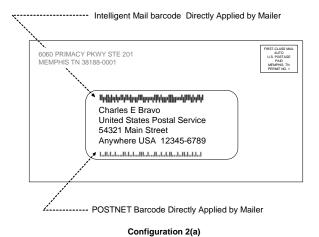
Configuration 1 (with Intelligent Mail barcode above address)





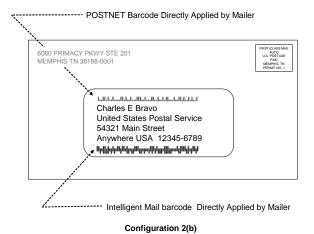
Configuration 2(a)

- Mailer applies the Intelligent Mail barcode above the address within the address block.
- Mailer encodes the delivery point code in a POSTNET barcode below the address in the address block.



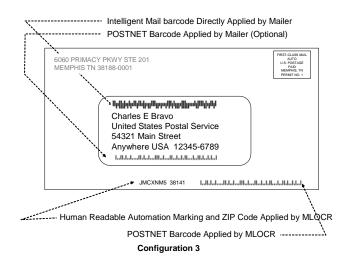
Configuration 2(b)

- Mailer applies the Intelligent Mail barcode below the address within the address block.
- Mailer encodes the delivery point code in a POSTNET barcode above the address in the address block.



Configuration 3

- Mailer applies the Intelligent Mail barcode with or without POSTNET barcode within the address block as in Configuration 1, 2(a), or 2(b).
- MLOCR applies POSTNET barcode in the barcode clear zone, along with the human readable automation marking¹ and ZIP Code to the left.



¹ It is also known as automation rate marking. Requirement for automation marking is stated in 604.9.4.14(e) of the DMM. Specification for automation marking is in 705.5.3.2 of the DMM.



Configuration 4

- Mailer does not apply POSTNET barcode or the Intelligent Mail barcode directly in the address block.
- MLOCR applies the POSTNET barcode in the barcode clear zone, along with the human readable automation marking and ZIP Code to the left.
- In addition, MLOCR applies the Intelligent Mail barcode containing the tracking code above the address block.

Configuration 5

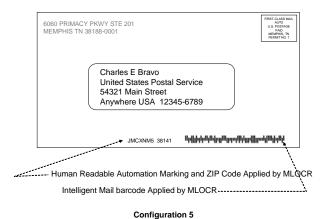
- Mailer does not apply POSTNET barcode or the Intelligent Mail barcode directly in the address block.
- MLOCR applies the Intelligent Mail barcode containing the routing code and tracking code in the barcode clear zone, along with the human readable automation marking and ZIP Code to the left.

Charles E Bravo
United States Postal Service
54321 Main Street
Anywhere USA 12345-6789

JMCXNM5 38141

Human Readable Automation Marking and ZIP Code Applied by MLOCR
POSTNET Barcode Applied by MLOCR
Configuration 4

Intelligent Mail barcode Applied by MLOCR



On letters, the Routing Code from a barcode (Intelligent Mail barcode or

POSTNET barcode) in the lower right clear zone takes precedence over that in the address block.

5. ADDITONAL RESOURCES

The Domestic Mail Manual (DMM) can be found at http://pe.usps.com/text/dmm300/dmm300_landing.htm. It contains, among other things, all official rates and standards governing domestic mailing services, including physical standards and barcode placement.

For general information, or to download specifications, publications for various services, and the library of encoding software and fonts, please visit the RIBBS web site at: http://ribbs.usps.gov/OneCodeSolution/.



To obtain User ID and Password to download the library of encoding software and fonts, or for technical assistance in using the online tool or the library of encoding software and fonts, contact the NCSC Help Desk at (877) 640-0724.

The Help Desk for Confirm service can be reached at (800) 238-3150.

The Help Desk for ACS can be reached at (877) 640-0724.

The Business Mail Entry Unit locator tool can be found at http://www.usps.com/nationalpremieraccounts/findlocators.htm.

The Mailpiece Design Analyst Lookup Tool for non Confirm or ACS IM[™] barcode usage is located at http://www.usps.com/replymail/mailpiece.htm.

The Help Desk for PostalOne! can be reached at (800) 522-9085.



Appendix A. Intelligent Mail barcode physical characteristics

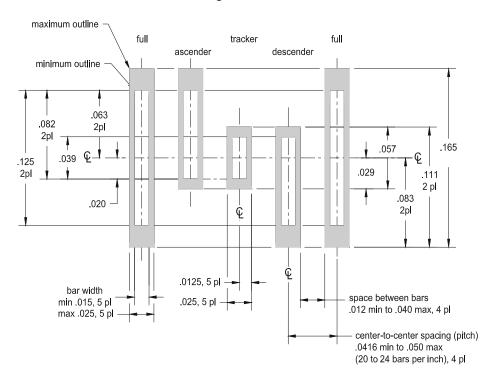


Table A1 - Intelligent Mail Barcode Dimensions

Table A2 – Comparison of Existing Postal Barcodes

Attribute	11-digit POSTNET Barcode	13-digit PLANET Code Barcode	31-digit Intelligent Mail Barcode
Number of bars	62	72	65
Bar Width	0.020 ± 0.005 inch	0.020 ± 0.005 inch	0.020 ± 0.005 inch
Horizontal Pitch	22 ± 2 bars per inch	22 ± 2 bars per inch	22 ± 2 bars per inch
Height of Full Bar	0.125 ± 0.010 inch	0.125 ± 0.010 inch	0.145 ± 0.020 inch *

^{*}NOTE: Barcode height is based on Specification USPS-B-3200 Revision E. As a reference, specification USPS-B-3200 Revision C stipulated Intelligent Mail barcode Full Bar height at 0.182 ± 0.048 inch.



Appendix B. Intelligent Mail barcode field values

Table B1 – Barcode Identifier

Barcode ID / Optional Endorsement Line (OEL) Description	Value
DEFAULT / NO OEL INFORMATION	00
CARRIER ROUTE (CR), ENHANCED CARRIER ROUTE (ECR), AND FIRM	10
5-DIGIT/SCHEME	20
3-DIGIT/SCHEME	30
AREA DISTRIBUTION CENTER (ADC)	40
MIXED AREA DISTRIBUTION CENTER (MADC), ORIGIN MIXED ADC (OMX)	50

Table B2 – Service Type Identifier

List of acronyms:

ACS: Address Change Service CRM: Courtesy Reply Mail ASE: Ancillary Service Endorsement ASR: Address Service Requested PRM: Permit Reply Mail

CSR: Change Service Requested QBRM: Qualified Business Reply Mail

No-Service / Mail Class Service Type ID	Full- Service*	Basic Option	Nonauto/ Other
FIRST-CLASS MAIL	260	300	700
PERIODICALS	264	704	704
STANDARD MAIL	261	301	702
BOUND PRINTED MATTER	265	401	706
FIRST-CLASS REPLY MAIL (CRM, MRM, PRM)	700	700	700
BUSINESS REPLY MAIL (incl. QBRM)	708	708	708
PRIORITY MAIL	N/A	N/A	710
PRIORITY MAIL FLAT-RATE	N/A	N/A	712
	Full-	Basic	Nonauto/
Ancillary Service Endorsement Service Type ID	Full- Service	Basic Option	Nonauto/ Other
Ancillary Service Endorsement Service Type ID FIRST-CLASS MAIL w/Manual Corrections			
	Service	Option	Other
FIRST-CLASS MAIL w/Manual Corrections	Service 036	Option 700	Other 700
FIRST-CLASS MAIL w/Manual Corrections FIRST-CLASS MAIL Destination Confirm w/Manual Corrections	Service 036 041	700 040	Other 700 040
FIRST-CLASS MAIL w/Manual Corrections FIRST-CLASS MAIL Destination Confirm w/Manual Corrections PERIODICALS w/Manual Corrections	Service 036 041 264	700 040 704	Other 700 040 704
FIRST-CLASS MAIL w/Manual Corrections FIRST-CLASS MAIL Destination Confirm w/Manual Corrections PERIODICALS w/Manual Corrections PERIODICALS Destination Confirm w/Manual Corrections	Service 036 041 264 274	Option 700 040 704 044	700 040 704 044
FIRST-CLASS MAIL w/Manual Corrections FIRST-CLASS MAIL Destination Confirm w/Manual Corrections PERIODICALS w/Manual Corrections PERIODICALS Destination Confirm w/Manual Corrections STANDARD MAIL w/Manual Corrections	036 041 264 274 037	Option 700 040 704 044 702	Other 700 040 704 044 702
FIRST-CLASS MAIL w/Manual Corrections FIRST-CLASS MAIL Destination Confirm w/Manual Corrections PERIODICALS w/Manual Corrections PERIODICALS Destination Confirm w/Manual Corrections STANDARD MAIL w/Manual Corrections STANDARD MAIL Destination Confirm w/Manual Corrections	Service 036 041 264 274 037 043	Option 700 040 704 044 702 042	Other 700 040 704 044 702 042

^{*} For detailed information on the full-service option implementation of Intelligent Mail barcodes visit RIBBS at http://ribbs.usps.gov/index.cfm?page=intellmailguides.



Decode Confirm Service Type ID				
FIRST-CLASS MAIL Destination Confirm		Full-	Basic	Nonauto/
PERIODICALS Destination Confirm				
STANDARD MAIL Destination Confirm			{	
FIRST-CLASS REPLY MAIL (CRM, MRM, PRM) Origin Confirm 050 050 050 050 050 050 050 050 050 050 050 050 052 05		∢	{	
BUSINESS REPLY MAIL (incl. QBRM) Origin Confirm			{	
Pull- Service Option Other		050	050	050
OneCode ACS Service Type ID Service Option Other FIRST-CLASS MAIL w/Traditional ASR 081 080 080 FIRST-CLASS MAIL w/Traditional CSR 083 082 082 FIRST-CLASS MAIL ASR Option 1 081 080 080 FIRST-CLASS MAIL CSR Option 2 081 080 080 FIRST-CLASS MAIL CSR Option 1 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 PERIODICALS w/Traditional ACS w/o ASE 038 784 784 PERIODICALS ASR w/o ASE 038 784 782 STANDARD MAIL w/Traditional ASR 091 090 090 STANDARD MAIL w/Traditional CSR 093 092	BUSINESS REPLY MAIL (incl. QBRM) Origin Confirm	052	052	052
OneCode ACS Service Type ID Service Option Other FIRST-CLASS MAIL w/Traditional ASR 081 080 080 FIRST-CLASS MAIL w/Traditional CSR 083 082 082 FIRST-CLASS MAIL ASR Option 1 081 080 080 FIRST-CLASS MAIL CSR Option 2 081 080 080 FIRST-CLASS MAIL CSR Option 1 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 PERIODICALS w/Traditional ACS w/o ASE 038 784 784 PERIODICALS ASR w/o ASE 038 784 782 STANDARD MAIL w/Traditional ASR 091 090 090 STANDARD MAIL w/Traditional CSR 093 092		Full-	Basic	Nonauto/
FIRST-CLASS MAIL w/Traditional ASR 081 080 080 082	OneCode ACS Service Type ID			
FIRST-CLASS MAIL ASR Option 1	FIRST-CLASS MAIL w/Traditional ASR	081	080	080
FIRST-CLASS MAIL ASR Option 2	FIRST-CLASS MAIL w/Traditional CSR	083	082	082
FIRST-CLASS MAIL ASR Option 2	FIRST-CLASS MAIL ASR Option 1	081	080	080
FIRST-CLASS MAIL CSR Option 1 083 082 082 FIRST-CLASS MAIL CSR Option 2 083 082 082 PERIODICALS w/Traditional ACS w/o ASE 038 784 784 PERIODICALS w/Traditional ACS w/ ASR 783 782 782 PERIODICALS ASR w/o ASE 038 784 784 PERIODICALS ASR w/ ASR 783 782 782 STANDARD MAIL w/Traditional ASR 091 090 090 STANDARD MAIL w/Traditional CSR 093 092 092 STANDARD MAIL ASR 091 090 090 STANDARD MAIL CSR 093 092 092 BOUND PRINTED MATTER w/Traditional ASR 423 424 424 BOUND PRINTED MATTER w/Traditional CSR 430 431 431 BOUND PRINTED MATTER SR 423 424 424 BOUND PRINTED MATTER w/Traditional CSR 430 431 431 PRIORITY MAIL w/Traditional ASR N/A N/A N/A PRIORITY MAIL FLAT-RATE w/Traditional ASR N/A N/A			{	
FIRST-CLASS MAIL CSR Option 2				
PERIODICALS w/Traditional ACS w/o ASE 038 784 784 PERIODICALS w/Traditional ACS w/ ASR 783 782 782 PERIODICALS ASR w/o ASE 038 784 784 PERIODICALS ASR w/ ASR 783 782 782 STANDARD MAIL w/Traditional ASR 091 090 090 STANDARD MAIL w/Traditional CSR 093 092 092 STANDARD MAIL ASR 091 090 090 STANDARD MAIL CSR 093 092 092 BOUND PRINTED MATTER w/Traditional ASR 423 424 424 BOUND PRINTED MATTER w/Traditional CSR 430 431 431 BOUND PRINTED MATTER CSR 430 431 431 PRIORITY MAIL w/Traditional ASR N/A N/A 710 PRIORITY MAIL FLAT-RATE w/Traditional ASR N/A N/A 712 FUIL- Basic OneCode Confirm + OneCode ACS Service Type ID Service Option Other Option Other FIRST-CLASS MAIL Destination Confirm w/Traditional ASR 141 140 140 FIRST-CLASS MAIL Dest		⊀	{	
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BOUND PRINTED MATTER w/Traditional CSR		1		
BOUND PRINTED MATTER ASR 423 424 424			{	
BOUND PRINTED MATTER CSR PRIORITY MAIL w/Traditional ASR N/A N/A N/A N/A N/A PRIORITY MAIL FLAT-RATE w/Traditional ASR N/A N/A N/A N/A T12 Full- Service Option Other FIRST-CLASS MAIL Destination Confirm w/Traditional ASR 141 140 140 FIRST-CLASS MAIL Destination Confirm w/Traditional CSR FIRST-CLASS MAIL Destination Confirm ASR Option 1 FIRST-CLASS MAIL Destination Confirm ASR Option 2 FIRST-CLASS MAIL Destination Confirm CSR Option 1 FIRST-CLASS MAIL Destination Confirm CSR Option 1 FIRST-CLASS MAIL Destination Confirm CSR Option 2 FIRST-CLASS MAIL Destination Confirm CSR Option 2 PERIODICALS Destination Confirm w/Traditional ACS w/o ASE 045 244 244			{	
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FIRST-CLASS MAIL Destination Confirm w/Traditional ASR 141 140 140 FIRST-CLASS MAIL Destination Confirm w/Traditional CSR 241 240 240 FIRST-CLASS MAIL Destination Confirm ASR Option 1 141 140 140 FIRST-CLASS MAIL Destination Confirm ASR Option 2 141 140 140 FIRST-CLASS MAIL Destination Confirm CSR Option 1 241 240 240 FIRST-CLASS MAIL Destination Confirm CSR Option 2 241 240 240 PERIODICALS Destination Confirm w/Traditional ACS w/o ASE 045 244 244		Full-	Basic	
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FIRST-CLASS MAIL Destination Confirm CSR Option 1 241 240 240 FIRST-CLASS MAIL Destination Confirm CSR Option 2 241 240 240 PERIODICALS Destination Confirm w/Traditional ACS w/o ASE 045 244 244	FIRST-CLASS MAIL Destination Confirm ASR Option 1	141	140	140
FIRST-CLASS MAIL Destination Confirm CSR Option 2 241 240 240 PERIODICALS Destination Confirm w/Traditional ACS w/o ASE 045 244 244	FIRST-CLASS MAIL Destination Confirm ASR Option 2	141	140	140
PERIODICALS Destination Confirm w/Traditional ACS w/o ASE 045 244 244	FIRST-CLASS MAIL Destination Confirm CSR Option 1	241	240	240
/	FIRST-CLASS MAIL Destination Confirm CSR Option 2	241	240	240
PERIODICALS Destination Confirm w/Traditional ACS w/ ASR 145 144 144	PERIODICALS Destination Confirm w/Traditional ACS w/o ASE	045	244	244
	PERIODICALS Destination Confirm w/Traditional ACS w/ ASR	145	144	144
PERIODICALS Destination Confirm ASR w/o ASE 045 244 244	PERIODICALS Destination Confirm ASR w/o ASE	045	244	244
PERIODICALS Destination Confirm ASR w/ ASR 145 144 144		145	144	144
STANDARD MAIL Destination Confirm w/Traditional ASR 143 142 142	STANDARD MAIL Destination Confirm w/Traditional ASR	143	142	142
STANDARD MAIL Destination Confirm w/Traditional CSR 243 242 242	STANDARD MAIL Destination Confirm w/Traditional CSR	243	242	242
STANDARD MAIL Destination Confirm ASR 143 142 142		{	1	
STANDARD MAIL Destination Confirm CSR 243 242 242	STANDARD MAIL Destination Confirm CSR	243	242	242



Appendix C. Encoding Software Packages and Fonts Available on RIBBS

		La	nguage an	d Appl	ications Sup	ported	
Operating System	С	Java 2	COBOL	PL/1	Assembler	Access	Excel
MVS, z/OS, and OS/390	Yes	Yes	Yes	Yes	Yes		
VSE/ESA	Yes		Yes	Yes	Yes		
OS/400	Yes	Yes	Yes				
AIX	Yes	Yes					
Linux (Intel and pSeries)*	Yes	Yes					
Solaris*	Yes	Yes					
HP/UX	Yes	Yes					
Mac OS X	Yes	Yes					
Programmer Version for Windows*	Yes	Yes					
MS Office Version for Windows						Yes	Yes

^{*} Both 32-bit and 64-bit versions available.

	Туре					
Fonts	Fixed Pitch Bitmap	Scalable				
The Advanced Function Printing (AFP)	Yes					
The XEROX Metacode	Yes					
Hewlett Packard's PCL	Yes					
Adobe's Postscript	Yes	Yes				
TrueType		Yes				