# 2019 Other Tax Software Developer's Guide

A Guide for Form Vendors and Software Developers of Massachusetts *Forms 2, 2-G, 3* 

Tax Year 2019 Processing Year 2020

Note: This document based on <u>2019</u> forms

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Because of sizing issues, the 2D data layouts are a separate document.

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## **Preface**

This document (parts one and two) are designed to help those individuals tasked with analyzing certain Commonwealth of Massachusetts, Department of Revenue (DOR) tax forms in order to develop software used in the preparation and filing of those forms. The Software Developers Guide is best used in conjunction with the published forms and instructions; it is not a substitute for those documents.

Enclosed are the specifications used to create 1 dimensional and 2 dimensional barcodes so that DOR will be able to read them. Part two of this document outlines the order and type of data expected in the various 2 dimensional barcodes.

The Data Specifications section of part 1 has information geared towards validating data. The Changes to Massachusetts Forms and Schedules section of part 1 talks about changes made from the previous year's forms and instructions. As this is a "living" document, you will find a Document Revision section that gives a brief outline of the changes made since its last publication. Also, a contact list is provided for anyone needing technical assistance. Note: these contacts cannot offer any help in dealing with specific taxpayer issues. Follow this link for phone numbers of the various DOR help lines:

http://www.mass.gov/?pageID=dorterminal&L=3&L0=Home&L1=Tax+Professionals&L2=Help+%26+Resources&sid=Ador&b=terminalcontent&f=dor\_help\_direct&csid=Ador

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# 1 Dimensional Barcode layout

The 1-D barcode of thirteen characters plus leading and trailing asterisks is described here. (The Asterisks are not part of the 1-D value, but part of the Code 39 characteristics).

#### \*1122333445555\*

| Field | Name           | Characters | Value                                   | Misc.   |
|-------|----------------|------------|---|---|
| 1     | State ID       | 2          | "MA"                                    |   |
| 2     | Year           | 2          | "19"                                    | See also Table 1                              |
| 3     | Form ID        | 3          | Standard MASSTAX values.                | See Table 1 for complete list of Form IDs     |
| 4     | Page<br>Number | 2          | Page number for form or schedule.       | Physical page                                 |
| 5     | Vendor ID      | 4          | Four digit company ID assigned by NACTP | See Table 2 for complete list of Vendor codes |

# The following are the **1-D parameters**:

- 1) Code 39 symbology
- 2) Thirteen characters (not including the start and stop asterisk)
- 3) 2.5:1 wide narrow ratio
- 4) Height one inch
- 5) Length 2 1/2 inches.
- 6) An alphanumeric version of the 1-D barcode must appear in the exact position specified on the record layout. (see pdf for exact positioning)
- 7) "X" dimension (the narrowest bar and/or space) must be at least 1.5 pts (approximately 20 mils or 3/144 ")
- 8) Each bar in the barcode must be solid. Streaks in the barcode are unacceptable.
- 9) A ¼" quiet zone around the barcode must be maintained (for 2003 the bottom edge can have one print line (approximately 3/16") of space below it). The top left anchor is the only exception.

The following barcode represents a potential 1-D barcode for the 2002 Form 1 (DOR hand-printed version). It is here as a sample for sizing considerations.

MA020011M001



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# Table 1: Form ID

The Form ID column of the chart below is used in the Form ID section of the 1 Dimensional Barcode layout above. Also, used in the 2D barcodes for identification.

| Form               | Form ID    | Page No                      |
|--------------------|------------|------------------------------|
| Form 2             | 002        | 1                            |
| Form 3 pg 1        | 007        | 1                            |
| Form 3 pg 2        | 007        | 2                            |
| Form 3 pg 3        | 007        | <u>3</u><br>4                |
| Form 3 pg 4        | 007        | 4                            |
| Form 3 pg 5        | 007        | 5<br>6<br>7                  |
| Form 3 pg 6        | 007        | 6                            |
| Form 3 pg 7        | 007        |                              |
| Form 3 pg 8        | 007        | 8                            |
| Form 3 pg 9        | 007        | 9                            |
| Form 3 pg 10       | 007        | 10                           |
| Form 3M            | 231        | 1                            |
| Form 2G            | 028        | 1                            |
| Schedule 3K-1      | 3K1        | 1                            |
| Schedule B\R       | BRE        | 1                            |
| Schedule RFC       | RFC        | 1                            |
| Schedule LP        | LPC        | 1                            |
| Schedule EOAC      | EOA        | 1                            |
| Schedule FAF       | FSH        | 1                            |
| Schedule 2K-1      | 22K        | 1                            |
| Schedule B         | 210        | 1                            |
| Schedule C-2       | CC2        | 1                            |
| Schedule D         | 212        | 1                            |
| Schedule E & F     | 213        | 1                            |
| Schedule H         | 267        | 1                            |
| Schedule IDD       | 2ID        | 1                            |
| Schedule CMS       | 647        | 1                            |
| Schedule CRS       | 648        | 1                            |
| Schedule FCI-I     | 752        | 2                            |
| Form M-2210F*      | 654        | 3                            |
| Payment Vouchers & | Extensions | Note: the year field is "PV" |
| Form-2ES           | 009        | MAPV00901vvvv                |
| Form-2PV           | 002        | MAPV00201vvvv                |
| Form 8736          | 003        | MAPV00301vvvv                |
| Form 4868          | 004        | MAPV00401vvvv                |

Note: The "vvvv" noted above for vouchers and extensions represent the Vendor Id Code.

See Appendix B of <u>Corp Excise Software Developers Guide</u>, <u>Part 1</u> for a comprehensive list of documents using a 1D barcode for forms identification with associated Form ID values.

# **Quality Assurance**

The software <u>must</u> ensure that printed data and encoded data in the 2-D barcode are an exact match. Any updates to data must be reflected in the 2D barcode prior to a return being printed. This becomes especially important when a return is updated after its initial creation. Changes to any document within a return must flow to every other area of the return, as appropriate. For example, a W2 arriving late to the taxpayer could necessitate an update to the Schedule INC, Form 1 and Schedule CB. A substantial increase in income could negate a Schedule CB credit eligibility.

This example also serves to illustrate the importance of reprinting and subsequently filing an updated return <u>in its entirety</u>. In the example, if a new schedule CB was not reprinted and submitted to the Department, the return would fail our validation process requiring a "Post Audit" review of the return. To help identify this type of scenario, the print date and time should be produced at the bottom of each page of every document of the return. Date format is discretionary upon the vendor. The location is to be at row 61, beginning at column 15. There must not be a user option to shut the timestamp off.

For their own internal purposes, the vendor may choose to print company name, an identification number, control number, version number, etc. on the form or schedule. Row 61 between columns 45 and 75 may be used for this purpose. When trying to research a problem, some vendors have found this information to be helpful. No printing is allowed below row 61. Printing below row 61 has a negative impact on reading the forms and schedules.

# **Portable Document Format - PDF Files**

Please include this setting in all instructions to the user for printing a tax return. When saving a form in PDF format, the ADOBE reader defaults to fit or shrink to printable area. When this happens, the 1D barcode can become unreadable. There is a setting in the PDF specifications that can be set in each file that will force the document to print without being shrunk. When using PDF files to save and/or print tax returns, the following PDF Viewer Preferences or properties <u>must</u> be set by the vendor application:

#### **PrintScaling = None**

**Duplex = Simplex.** 

The standard Adobe Reader when installed, defaults to Page Scaling set to "shrink to printable area" causing all documents to be scaled. This causes two problems: 1.) 1D barcodes become unreadable and 2.) Fixed location printing is shifted and also becomes unreadable.

Setting the PrintScaling property to none will override the local setting and force the document to print without scaling.

Setting the Duplex property to Simplex will override local settings and force the documents to be printed single sided.

These settings are explained in section 8.1, Viewer Preferences, page 577 of the following manual: PDF Reference sixth edition Adobe®

Portable Document Format Version 1.7

November 2006

Adobe Systems Incorporated

This document can be found at:

http://www.adobe.com/content/dam/Adobe/en/devnet/acrobat/pdfs/pdf\_reference\_1-7.pdf

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The following are excerpts from that manual.

**PrintScaling** The page scaling option to be selected when a print dialog is displayed for this document. Valid values are None, which indicates that the print dialog should reflect no page scaling, and AppDefault, which indicates that applications should use the current print scaling. If this entry has an unrecognized value, applications should use the current print scaling. Default value: AppDefault. Note: If the print dialog is suppressed and its parameters are provided directly by the application, the value of this entry should still be used.

**Duplex** - The paper handling option to use when printing the file from the print dialog. The following values are valid:

Simplex - Print single-sided

**DuplexFlipShortEdge** - Duplex and flip on the short edge of the sheet

**DuplexFlipLongEdge** - Duplex and flip on the long edge of the sheet

# **Attachment Inventory**

The inventory fields are in place to help the Department to verify document integrity. If the income tax return contains two Schedule Cs, then our recognition software will count two. We are also able to validate against misidentified forms and schedules. As a last resort, we will request submission from the taxpayer who is truly missing forms and schedules. In the event that any given 2-D barcode cannot be read, the schedule inventory for the return is repeated in every barcode.

In the 2-D layouts found in part two of this document, field 10 represents an inventory - physical page count for the return. For example, if the return only consists of a Form 1 and one Schedule INC, then the count would be 4: Form 1 pages 1, 2 and 3 and 1 Schedule INC. Another example would be Form 1 and two Schedule Cs which yields a value of 7 in field 10: Form 1 pages 1, 2 and 3 and Schedule C front and back twice.

In the Form 1 2-D barcode, fields 11 through 19 show a breakdown of what is included in the taxpayer's return. Most often, field 11 would be one (1), meaning there is one Form 1 in the return; field 12 could be either zero (0) or one (1); field 13 could be zero (0) or whatever the number of Schedule C's which were included in the return.

To reiterate for clarity, field 10 counts the number of sides of every piece of paper that has taxpayer data on it. However, fields 11 through 19 count the number of a given form type that is included in the return. Field 19 counts those form types NOT expressly represented in Fields 11 through 18. Field 19 should not include any worksheets (for example AGI calculation) nor should explanatory or overflow attachments be included. It should include any form or schedule (Massachusetts or Federal or Other State's) to be mailed to DOR as part of the return being filed.

Field number 18, in the Form 1 & NRPY specification documents, counts the number of Schedule X/Y & Schedule Z/RF & Schedule DI being filed.

# **Multiple Instances of the Same Schedule**

If three Schedule C forms were sent as part of the return, then the first instance of the Schedule C would have a value in field 11 of 1 and field 12 of 3. The second Schedule C would have a value in field 11 of 2 and field 12 of 3; and lastly, the third Schedule C would have a value in field 11 of 3 and field 12 of 3. If only one Schedule INC was supplied, then the value in field 11 and field 12 would both be 1.

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**General Specifications** 

Alphanumeric Data Only 1 space between characters for word separation

Left justified

Numeric Data Whole dollar only, Rounded, Right justified

Use whole dollar format Leading dash (-), floating

Negative Numbers
Unused Data
Leading dash (-), floating
No Zero fill, No Blank fill

Paper size 8 1/2" x 11"
Orientation Portrait
Printing Single-Sided
12 Point

10 Pitch Courier

Upper Case only text

½ inch margin – sides, top and bottom

Choose Print Scaling value of "None" via Adobe

Lines per Vertical inch 6 (1/16<sup>th</sup> of an inch)
Characters per Horizontal inch 10 (1/10<sup>th</sup> of an inch)

Paper weight 20 lb Bond minimum (non-recycled)

Paper Color

Print Color

Print area Horizontal – first

Print area Horizontal – last

Print area Vertical – first

Column 6

Print area Vertical – last

Column 81

Prohibited Shading

Screens in the text area

Reverse Characters (white on black background)

Rotated text (Landscape printing)

Logos and Seals

No Dollar signs in Numeric fields No Commas in Numeric fields

No Decimal Points

No Pennies

No parentheses to represent Negative numbers

No text in Numeric fields (such as "None")

No redacting or masking of data

The Department realizes that some specifications, such as paper and ink, are beyond the control of vendors. However, these specifications are critical to the successful implementation of the product and should be communicated to your customers.

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PDF417 Suggested Specifications<sup>1</sup>

Encode type Normal PDF417

DPI 300 dpi
Pixel shaving ON
Code word count Variable

Encryption

Error Correction Level 4
Mils 10.0
Data Columns Variable
Module Aspect Ratio 2.00 : 1
Data Rows Variable

X Dimension 3

Location Reserved area top right corner of the forms

Reserved space 3.75" x 1.5"

Max Characters 1500

Field Delimiter Carriage Return

End of File Delimiter "\*EOD\*"

- 1. PDF 417 has error detection and correction capabilities. The more error correction is used, the less data can be communicated in the barcode. With respect to data capture, you either get 100% or nothing. Complete barcode read failures are very uncommon. The tax Application Programming Interface (tax API) sets parameters for correction/detection. These parameters should be observed and not altered.
- 2. Based on the experience of previous filing seasons of 2-D barcode use, and due to the low level of deterioration of tax returns (compared to high media-abuse environments) the error correction level in the current market-provided DLL is set to level 4.
- 3. A general rule that can be used to determine if a printer is capable of producing a 2-D barcode is if the printer can produce a graphic such as a tax agency seal or business logo, then the printer should be capable of producing a 2-D barcode that can be scanned.
- 4. Pixel shaving is a technique that produces higher-quality barcodes when printed on lower-quality equipment like inkjet printers. Pixel shaving will result in improved read rates. In the DLL, pixel shaving will always be turned on.
- 5. Increasing the x (horizontal) dimension of the barcode elements from the minimum of 7.5 mils to the maximum of 25 mils will produce the most readable barcodes, especially on low quality ink/bubble jet printers. Whenever possible, software vendors will create a barcode that uses the largest possible x element value for the given space.
- 6. Users are advised that stretching or scaling the barcode (via copying the paper media or the like) changes its integrity and worsens readability; it should not be employed.
- 7. 2-D barcodes should never be rotated. Rotating a 2-D barcode increases processing difficulty and introduces the risk of errors. Since PDF-417 barcodes are read in both the x (horizontal) and y (vertical) directions on a portrait page, rotating them from their natural position can render the barcode unusable.

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<sup>&</sup>lt;sup>1</sup> Also see Tax Forms Processing – 2D Barcoding Standards: Section 3 as found at WWW.NACTP.ORG.

8. Unless otherwise noted in Part 2, any line item left unanswered or having a value of zero (blank, no data, nul or 0) should not have a value on the printed page or in the 2D barcode. An inspection of the 2D barcode (raw data) should look something like this, which represents 2 consecutive line items having no data values. <CR><CR><

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# Changes to forms and schedules for 2019

#### General

We had one schedule FCI in 2018. Moving forward in 2019, we have 2 of them; one for income and one for corporate taxpayers. Income taxpayers will use the FCI-I. The suffix and new 1D barcode values is important to note. (See page 5)

#### Form 2

New captured 2D field, Self Employed bubble, new lines 48 & 49

#### Form 2G

New captured 2D field, Self Employed bubble, lines 8, 9, 10 moved to page 2

Form 3 Schedule 3K-1 2D enabled 2D enabled

Schedule B/R

None

Schedule 2K-1

New fields and now 3 pages

Schedule B

None

Schedule D

None

Schedule E

None

Schedule H

None

Schedule IDD

None

Schedule CRS Schedule CMS

None None

Schedule LP Schedule RFC Schedule EOAC Schedule FAF

lines 16 to 17 removed 2D Enabled None None

Down to 1 page

Schedule FCI-I Schedule C-2

New form (2D) None

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# **Data Specifications**

#### General

See Technical Information Release TIR-04-30 for information on Electronic Filing requirements for Fiduciary and Partnership Taxpayers. Failure to abide by the aforementioned provisions set forth in TIR 04-30 may result in the assessment of penalties.

Pending legislation may affect some line items. See instructions on the DOR web site for any last minute updates.

Failure to produce a 2D barcode on third party returns may result in taxpayers having their returns rejected and the imposition of penalties for noncompliance.

Vendors should not allow taxpayers to print a return which was created using software unapproved by the department. The taxpayer should be directed to "Download the latest software patch prior to printing or submitting their return". Submitting a return using unapproved software may result in the taxpayer having their returns reject and the imposition of penalties for noncompliance.

Until a vendor has been approved, include watermarks across every page of the return stating "DRAFT FORM: THIS WILL NOT BE PROCESSED" Watermarks should be removed as part of the approved software production release.

All forms and schedules are whole dollar only.

To allow the paid preparer or taxpayer to verify that their printer can produce the 1D barcode, 2D barcode and anchors, the Department suggests that the software providers include a test page containing a 2D barcode, 1D barcode & anchors. Together, with appropriate instructions and text explaining what the barcodes are and why they are important, the Department hopes to avoid rejecting returns or imposing penalties for cases were barcodes are missing. For those returns prepared by someone other than the taxpayer, identifying fields Preparer Name, phone, and PTIN/EIN are mandatory. The software geared towards professionals, must insure that paid preparer information has been entered prior to printing.

The value of accurate taxpayer name and address information is self-evident and as important is consistency. To that end, attached below are Standard Addressing abbreviations that are to be used when formatting the data for BOTH print and 2D encoded address fields.

Apartment, Suite, and Room numbers should be placed in the Apartment Number field. Acceptable values are numeric digits and alpha letters. DO NOT include the "Apt." prefix, pound signs (#), dashes or any other special characters. Please discontinue the practice of concatenating street address and apartment number values. When printing, the apartment number should be a separate field on the form.

#### Name and Address data

Having correct and complete name and address data is always a concern with the department. Please refer to 'Postal Addressing Standards' document at <a href="http://pe.usps.gov/cpim/ftp/pubs/Pub28/Pub28.pdf">http://pe.usps.gov/cpim/ftp/pubs/Pub28/Pub28.pdf</a>

If the address is a foreign address, NO LONGER include the text FC in the State field. If the foreign country has a zip code, it can go in the ZIP code field, otherwise leave the ZIP code field empty. See '2016 Personal Income Tax Software Developer's Guide' – Taxpayer Registration Rules for examples. See Appendix B for text to be used for foreign country. Use

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the foreign state field for a foreign country's state, province or county as needed. <u>The Foreign</u> Country should be represented as the 2 character code in both print and the 2D barcode.

#### Timestamp

There are times when a taxpayer's return is created over a period of time. If the return is printed at different times, sometimes an update will not be reflected in the document that the department receives. This can become problematic when data flows from one page to another. To be sure that the department has the most up to date and complete return, the print date and time should be printed on the bottom of every page of every document of the return. Date format is discretionary upon the vendor. The location is to be at row 61, beginning at column 15. There must not be a user option to shut the timestamp off. No printing is allowed below row 61. Printing below row 61 has a negative impact on reading the forms and schedules.

#### Vendor Reserved

For internal purposes, the vendor may choose to print company name, an identification number, control number, version number, etc. on the form or schedule. Row 61 between columns 45 and 75 may be used for this purpose. When trying to research a problem, some vendors have found this information helpful.

#### Form 2

TIR 03-11 required fiduciaries filing Form 2 with total Part A, Part B, and Part C net taxable income (as defined in G.L. c. 62, § 2(b)) of \$50,000 or more to pay electronically, as of January 1, 2004; this threshold was to be lowered to \$30,000 and the requirement that such returns be filed electronically was to be added as of January 1, 2005. The Commissioner hereby postpones the change in threshold; the threshold at or above which fiduciaries must pay electronically remains \$50,000. In addition, the Commissioner postpones the requirement that fiduciary returns above the threshold be filed electronically. Fiduciaries who are at or above the \$50,000 threshold (total Part A, Part B, and Part C net taxable income on Form 2) must continue to use electronic means to make any payments to the Department. Chapter 262 of the Acts of 2004 (chapter 262) modified the tax treatment of trusts, effective for taxable years beginning on or after January 1, 2005, by imposing the tax on income for certain trusts at the beneficiary level, rather than at the trust level. While income included in the gross income of a beneficiary by reason of Internal Revenue Code sections 652 or 662 will be taxed at the beneficiary level, trusts with accumulated income or capital gains will continue to file Form 2 and pay taxes on the trust income at the trust level. See TIR 04-23 for more information on chapter 262 and the changes in taxation of fiduciaries.

The Period, that is the year beginning and ending date, must not span more than 12 months. For returns prepared by someone other than the taxpayer, Preparer Name, phone & either PTIN/SSN or EIN must be included prior to printing the return. The size of the Account Number field is 11 bytes in length.

Credits must be documented as required. That is, a certificate number or a supporting schedule must accompany certain credits or else the credit will be disallowed. Schedule CMS and or Schedule CRS must accompany the return if any credits or credit recapture are being claimed. See instructions for information pertaining to when and if to submit specific credit schedules.

If the taxpayer has a credit recapture, the total dollar amount is entered on line 39, as well as the requisite bubbles filled in.

See TIR-10-11 for details on the Additional Tax on Installment Sales.

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#### Form 2-G

The Period, that is the year beginning and ending date, must not span more than 12 months. For returns prepared by someone other than the taxpayer, Preparer Name, phone & either PTIN/SSN or EIN must be included prior to printing the return.

## Schedule B/R

Legal Domicile is a 2 byte field that is the 2 character USPS State abbreviation. The Beneficiary and Remaindermen fields are on the same line as Legal Domicile.

#### Form 3

Annual partnership information returns (Forms 3) are required under G.L. c. 62C, §§ 6 and 7. Partnerships must also submit Schedules 3K-1, explaining each partner's distributive share, to the Department and to each partner.

The Department of Revenue announced in TIR 03-11 the requirement that, as of January 1, 2005, partnerships at or over the partnership E-file income threshold or loss threshold, or with 25 or more partners, must submit all Forms 3 and Schedules 3K-1 to the Department by electronic means. The partnership income threshold is reached when the partnership has, in one tax year, (1) \$50,000 or more in gross income, including (but not limited to) gross receipts from a trade or business, gross income from the sale or rental of real or tangible personal property, or from royalties, interest, or dividends; or (2) \$100,000 or more received from the sale of stock and securities. The partnership loss threshold is reached when the partnership has, in one tax year, (1) \$50,000 or more in ordinary loss from trade or business activities; or (2) \$100,000 or more in losses from the sale of stock and securities.

The Period, that is the year beginning and ending date, must not span more than 12 months. For returns prepared by someone other than the taxpayer, Preparer Name, phone & either PTIN/SSN or EIN must be included prior to printing the return.

Additional tax associated with an installment sales. See TIR-10-11 for details.

Credits found on Form 3 represent the GROSS amount of each credit that is associated with the Partnership. Certificate numbers are the original numbers assigned to the Partnership. Schedule CMS and or Schedule CRS must accompany the return if any credits or credit recapture are being claimed. See instructions for information pertaining to when and if to submit specific credit schedules.

All 10 pages are required. Take special note of the 1D barcode values for pages 6 through 10 in Table 1. They have changed since 2015. Also, the form is 2D enabled

#### Schedule 3K-1

The Name and SSN are required for each partner.

Credits must be documented as required. That is, a certificate number or a supporting schedule must accompany certain credits or else the credit will be disallowed. The credits on the 3K-1 are the Partner's share (if any) of the credits accumulated by the Partnership.

New certificate numbers must be assigned to the Partner's share of the credit. The Partnership has the responsibility of getting the new certificate numbers and getting that information to the Partner.

Certificate Numbers are not found on the 3K-1. (They must be included when filing the tax return of the Partner) This schedule is 2D enabled beginning in the 2019 tax year.

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## Schedule CRS & CMS

See instructions for criterion set forth for when to file the various credit schedules and when they should be retained by the taxpayer. Schedule CMS and or Schedule CRS must always accompany the return if any credits or credit recapture are being claimed. See instructions for information pertaining to when and if to submit specific credit schedules.

The credit type field should be encoded as outlined here:

**Brownfields Credit** value="BRWFLD" Certified Housing Credit value="CRTHOU" Community Investment Credit value="CMMINV" Conservation Land Credit value="CNSLND" Dairy Farm Credit value="DAIFRM" **EDIP Credit** value="EDIPCR" **Employer Wellness Credit** value="EMPWLL" **EOAC Credit** value="EOACCR" Film Incentive Credit value="FLMCRD" Harbor Maintenance Credit value="HRBMNT" Historic Rehabilitation Credit value="HISRHB" **Investment Tax Credit** value="INVTAX" Life Science (FDA) Credit value="LFSFDA" Life Science (ITC) Credit value="LFSITC" Life Science (Jobs) Credit value="LFSJOB" Life Science (RD) Credit value="LFSRDC" Low-Income Housing Credit value="LOWINC" Medical Device Credit value="MEDDVC" General Research Credit value="REARCH" Vanpool Credit value="VANPOL" Lead Paint Credit value="LEDPNT" Septic Credit value="SEPTIC" Solar and Wind Energy Credit value="SLRWND" Farming and Fisheries Credit value="FRMFSH" Veteran Hire Credit value="VETHIR" Low Income Housing Donation Credit value="LIHDON" **Angel Credit** value=" AGLCRD" Apprentice Credit value="APPCRD" Vacant Storefront Credit value="VACSTR"

| Certificate Type        | Size   | Format     | Notes                              |
|-------------------------|--------|------------|------------------------------------|
| EDIP                    | 10     | nnnnEnnnnn |                                    |
| Brownfields             | 10     | nnnnBnnnnn | "n" is a number                    |
| Low-Income Housing      | 9      | MAnnnnnn   | "a" is a letter                    |
| Historic Rehabilitation | 7      | HRCnnna    | Capital letters are static values  |
| Film Incentive          | 10     | nnnnFnnnnn | * Missing Cert # nullifies         |
| Medical Devices         | 10     | nnnnMnnnnn | Credit dollars                     |
| Employer Wellness       | 10     | nnnnWnnnn  |                                    |
| Dairy                   | 5      | annnn      |                                    |
| Conservation            | 10     | nnnnCnnnnn |                                    |
| Community               | 10     | nnnnVnnnnn |                                    |
| Certified Housing Dev   | 10     | nnnnHnnnnn |                                    |
| <generic></generic>     | varies | Cnnnnnnnn  | This type can have up to 10 digits |

See DOR web site for instructions and rules for credits. Refer to TIR 18-13 for details.

\* When validating the certificate number, please keep the error responses general. For example: "You have entered an invalid certificate number..." or "The certificate number you entered is not a Brownfields certificate number..." The primary / initial authority who issues the certificate number with the credit amount can elect to use the formats outlined in the table above. However, the Massachusetts Department of Revenue can also elect to issue certificate numbers that can supersede the original certificate number. In those cases, the new certificate number field size can be up to 20 bytes in length. Note: the sizes noted above will not match the sizes of the certificate numbers in the (Part 2) 2D layout details document.

# Making Payments - Form 2 only

See below, "Other Resources": Computer-Generated Payment voucher. Also, to make online payments (preferred method), including scheduling payments, taxpayers should visit The Massachusetts Department of Revenue's secure web pagewww.mass.gov/dor/payonline

Vendors should include the above url, with appropriate text encouraging online payments, on the top half of the paper Payment Voucher. If appropriate, where vendor software discusses payments, please include text and the url above in order to encourage online payments.

#### Payment Vouchers & Extensions

- 1 See page 4 and Table 1 on page 5.
- 2 These documents should NOT have anchors.
- These documents still require the scan line at the bottom of the page.
- 4 These documents should include a 13 byte 1D barcode located at the top of the page.
- 5 Vendors should include their vendor code in the last four bytes of the 1D barcode.
- 6 2D barcode is mandatory for tax season 2019
- All other criteria remain the same as outlined in "Payment Voucher and Extensions Software Developer's Guide" and "Tax Payment Voucher and Extension Forms" (see Other Resources on page 22)

See 2019 PV Extensions Developers Guide

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# Vendor requirements for passing certification testing

DOR does acknowledge that not every vendor can maintain the same level of sophistication in terms of what types of tax scenarios its software can handle. DOR takes a fiduciary responsibility to the taxpayers in certifying a vendor as acceptable. DOR does expect vendors to provide the highest possible quality in the areas of appearance, functionality and accuracy in delivering their product to the market place.

See Massachusetts Department of Revenue Publication 'Handbook for Reproduction of Non-Scannable Department of Revenue Forms' Section 1.3 for guidance regarding who needs to pass certification testing. To paraphrase: Any company that develops and uses substitute Massachusetts Department of Revenue forms MUST get approval from the Department. If the company develops substitute tax forms using its own tax software; develops tax software programs to be used with substitute tax forms developed by another company; or, develops substitute tax forms for other companies to use with their tax software.

The company must have forms reviewed annually prior to release of the substitute forms. Part of the approval process is for the Payment Voucher to pass DOR testing. For those vendors passing certification, they must provide a copy of their DOR Approval letter to tax practitioners or other vendors who sell the products of tax software developers who design substitute tax forms. (See also, Section 1.4 of 'Handbook for Reproduction of Non-Scannable Department of Revenue Forms')

If a company chooses to release software to their customers (tax payer or tax practitioner) prior to being approved by the DOR, the company must adhere to the following criterion:

Disable printing of returns created using unapproved software.

A watermark with the text of "**DRAFT FORM**: **THIS WILL NOT BE PROCESSED**" must be printed across all pages of the form(s)

The watermark must be printed in black only

The watermark must be at least tall enough to encompass two printed lines

The watermark must be located such that the taxpayer name and address are obliterated. For forms where there is no name and address area, the vendor may place the watermark anyplace common sense would dictate.

The consumer must not have a way to shut off the watermark feature

The software must prohibit returns created with unapproved software from being filed electronically

Once approved, a software patch should remove any watermarks and filing prohibitions.

Vendors are encouraged to submit test samples early to avoid approval delays. DOR will make every effort to review and approve forms within 10 days of receipt. See contact list to learn where to submit test forms.

Each page has a unique 1-D barcode that the imaging recognition software uses to identify each page.

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#### Fixed (exact) Positioning

DOR requires exact positioning for all data elements on all forms and schedules for certification. Certification status will be posted on the DOR's web site at <a href="http://www.mass.gov/dor">http://www.mass.gov/dor</a>

All optical scanner enabled forms are required to have anchors. The anchors must be placed in accordance with the department's exact positioning requirements for that form. Each form must contain the exact number of tax data fields, taxpayer ID fields, line items, optical mark fields and keying symbols as the state issued form. The location of all OCR-readable fields must appear in the exact location as specified in the record layout. Those returns not following the exact positioning requirements will be given a lower priority than those following the requirements. DOR has an Imaging based automatic data capture system in place. Image based technology requires exact positioning for data to be captured

#### <u>Text</u>

- Vendors may limit descriptions for captions and lines required by the official form or schedule to one print line on the substitute form or schedule by using abbreviations and contraction and by omitting articles and prepositions. The substitute schedule must retain sufficient key words, however, to permit ready identification of the caption, line or item.
   See Massachusetts Department of Revenue Publication 'Handbook for Reproduction of Non-Scannable Department of Revenue Forms' Section 3 for more information.
- Text found on the transparent films and online grids are for illustration purposes only. Vendors are encouraged to be as brief or verbose as space and reason permits.

#### Anchors

- Four anchors, one in each corner, must be present on all pages.
- Anchors must be in the exact same location on all pages and must be in the exact location specified in the transparent films sent to each vendor.
- Each anchor must consist of an angle bar formed by the intersection of one horizontal and one vertical line. Line thickness should be 3 points (3/72"). Line length should be ½".
- No solid, filled (black) area should be with 2cm (approximately ¾") of any anchor.

# Optical Mark Fields

- A single upper case "X" must be used to indicate a response in an optical mark field.
- No underlining or enclosing of optical mark fields.
- One blank character space must immediately proceed and follow an optical mark field.
- If a field is not applicable, it must be left blank.

# Negative Amounts

- Negative amounts or losses must be preceded by a minus sign ("-").
- Use of parentheses or "X" boxes (as found on the official Department produced version of the forms) is not acceptable.
- Language regarding the use of "X" boxes must not be printed on the substitute forms.

# **Dollar Amounts**

• Punctuation is prohibited in money amount fields. No Dollar signs (\$), commas (,) or decimal points (.).

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• Text is prohibited in money amount fields. Do not allow "None" or any such message to be keyed into a money amount field. Empty fields should be left blank.

# Signature Area

- Taxpayer signature and paid preparer information and signature area must be formatted in the same manner as the official Department form.
- Underlining is permitted only in the area allotted for the taxpayer's, spouse's and paid preparer's signatures.

## **Privacy Act Notice**

- "Privacy Act Notice available upon request" verbiage must appear on page 1 of the return. The verbiage should appear where indicated on the transparent films provided to the vendors. If need be, the verbiage may be printed elsewhere, provided that it not interfere with any OCR fields. The Privacy Act Notice must be made available to the software user by the software developer. It may be presented in either printed "hard-copy" or software "soft-copy" formats.
- . The text of the Privacy Act Notice is as follows:
  - Under the authority of 42 U.S.C. sec. 405© (2) ©(i), and M.G.L. c. 62C, sec. 5, the Department of Revenue has the right to require an individual to furnish his or her Social Security number on a state tax return. This information is mandatory. The Department of Revenue uses Social Security number for taxpayer identification to assist in processing and keeping track of returns and in determining and collecting the proper amount of tax due. Under M.G.L. c. 62C, sec. 40, the taxpayer's identifying number is required to process a refund of overpaid taxes. Although tax return information is generally confidential pursuant to M.G.L. c. 62C, sec. 21, the Department of Revenue may disclose return information to other taxing authorities and those entities specified in M.G.L. c. 62C. secs. 21, 22 or 23 and as otherwise authorized by law.

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# The department's acceptance criteria are as follows.

- . Can we read the 1-D & 2-D barcode?
- . Is there a 2-D barcode on every form and schedule as required?
- Is the 2D barcode data correctly located within the barcode?
- . Is the 1-D barcode correct on each page?
- . Are the 1-D and 2-D barcodes correctly sized and located?
- . Using the grids which are available to the vendors, do anchors and fields on the test samples line up to the films, within REASONABLE tolerances?
- Transparent films will gladly be provided upon request.
- The payment voucher must pass DOR testing prior to final approval. The 1D Barcode and scanline must both be readable and correctly configured. (See the PV Developers Guide for more details)
- Those vendors providing Massachusetts Personal Income Tax Forms and Schedules must pass <u>ALL</u> (1D, 2D and exact positioning) acceptance requirements.

# **Submitting test data**

- . Submitting samples for 2D testing may be done via email using pdf files.
- . There will be two tests per form required to be submitted for 2D testing.
- **.** Exact positioning tests may be submitted via email or hard copy.
- Vendors are free to format their own cover sheets as they see fit. Included must be contact information, Forms and Schedules being submitted, and which testing is to be performed. (See appendix A for samples of a cover sheet in use.)

# Non-Image enabled forms with anchors and a 1-D barcode

Schedule BC – Brownfields Credit is an example; there is no 2D barcode, nor is there a "grid" layout of the schedule. The department wants to be able to name the document when we encounter it. We do that using the 1-D barcode and the anchors.

- 1 Code: 39 symbology
- 2 12 characters
- 3 Ratio: 2.5:1 wide narrow
- 4 Height: 5/16 inch
- 5 Length: 2 1/2 inches
- 6 "X" dimension (the narrowest bar and/or space) must be at least 1.5 pts (approximately 20 mils or 3/144 ")
- 7 Each bar in the barcode must be solid. Streaks in the barcode are unacceptable.
- 8 Quiet zone restrictions are relaxed.
- 9 Margin restrictions are relaxed for the anchors and 1D barcode
- 10 Print area restrictions are relaxed for the anchors and 1D barcode
- 11 See Anchors (above) for those characteristics. The exception is location.
- 12 The top left corner of the 1D barcode is on Bottom of Row 1, Left of Column 15
- 13 Top Left anchor's top left corner is on Top of Row 4, Left of Column 7
- 14 Top Right anchor's top right corner is on Top of Row 4, Right of Column 79
- 15 Bottom Left anchor's bottom left corner is on Bottom of Row 63, Left of Column 7
- 16 Bottom Right anchor's bottom right corner is on Bottom of Row 63, Right of Column 79

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## Massachusetts DOR Contact List

Non 1D enabled forms are submitted to:

Patrick Ford <u>dorforms@dor.state.ma.us</u>
Brian Mcglone <u>dorforms@dor.state.ma.us</u>

1D and 2D enabled forms are submitted to, preferably via pdf attached to email:

Robert Fiore anfitformsapproval@dor.state.ma.us 617-887-5315

ANF-IT Support 3rd floor – Scannable Forms Approval

200 Arlington St. Chelsea MA 02150

Steven Piro <u>anfitformsapproval@dor.state.ma.us</u> 617-887-5710

ANF-IT Support 3<sup>rd</sup> floor - Scannable Forms Approval

200 Arlington St Chelsea MA 02150

Note: a scannable form is any document with a 1-dimensional barcode on it.

These contacts cannot offer any help in dealing with specific taxpayer issues. Follow this link for phone numbers of the various DOR help lines:

 $\frac{http://www.mass.gov/?pageID=dorterminal\&L=3\&L0=Home\&L1=Tax+Professionals\&L2=Help+\%26+Resources\&sid=Ador\&b=terminalcontent\&f=dor\_help\_direct\&csid=Ador$ 

# **Communication**

The preferred method is via e-mail. It falls upon the sender of the email to include their own backup person as a 'CC' recipient. The subject line should include (at a minimum) the vendor id number and reason for the communication such as 'Schedule HC question' or 'Testing clarification'.

Do not include any personal information such as social security number of you or any customer or client.



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#### Other resources:

The National Association of Computerized Tax Processors (NACTP) website <a href="http://www.nactp.org/">http://www.nactp.org/</a>. The 'Computerized Industry Standards' document is particularly helpful.

Federation of Tax Administrators (FTA) website <a href="http://www.taxadmin.org/">http://www.taxadmin.org/</a>. The 2-D Barcode Standards document is a good starting point for those vendors taking their first steps into 2-D barcode technology.

Massachusetts Department of Revenue website <a href="http://www.dor.state.ma.us/">http://www.dor.state.ma.us/</a>. Refer to the site map to help find draft and final versions of the latest forms and schedules as well as other helpful information.

Information relevant to the production of payment vouchers and extensions, including scan-line specifications and sample forms, can be found in the '2019 Payment Voucher and Extensions Software Developer's Guide' and '2019 Tax Payment Voucher and Extension Forms'

United States Postal Service website <a href="http://www.usps.com/">http://www.usps.com/</a>. Please refer to the 'Postal Addressing Standards' document at <a href="http://pe.usps.gov/cpim/ftp/pubs/Pub28/Pub28.pdf">http://pe.usps.gov/cpim/ftp/pubs/Pub28/Pub28.pdf</a>

Taxpayers can obtain an ITIN by completing and filing Form W-7, which is available at the Internal Revenue Service website www.irs.gov or by contacting the IRS at (800) 829-1040.

TIR 08-11: An Act Relative to Tax Fairness and Business Competitiveness. The act institutes "Unitary Combined Reporting" for multi-state corporations and also adopts business entity classification rules that broadly conform to the Federal "check-the-box" rules. Although the act is for tax years beginning on or after January 1, 2009, how it affects 2008 filings has yet to be determined. Please check the Massachusetts Department of Revenue website frequently for the most up-to-date information on this matter. TIR 09-18 has information related to the filing requirements of the unitary returns.

(Note: website addresses current as of 10/27/2016)

Generally, we do not issue a TIR when we promulgate a new or amended regulation but we may issue a TIR if there is a law change that may relate to a regulation. Anything we issue can be found online in the <u>legal library</u>. And recent drafts and additions may be found on this <u>page</u>. Vendors should also sign up to receive our <u>email updates</u>. (<a href="https://www.mass.gov/service-details/dor-legal-library">https://www.mass.gov/service-details/dor-legal-library</a>)

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# **Document Revisions**

Updates to this document will be posted to DOR's Web site <a href="http://www.mass.gov/dor">http://www.mass.gov/dor</a> on Friday afternoons. Please check for updates over the weekend or on Monday mornings to ensure that you have the most current document.

This page is included to track changes between published revisions of this document.

| Rev<br>Number | Date       | Revision  |  |  |  |  |  |  |
|---------------|------------|---|--|--|--|--|--|--|
| 2019-1.0      | 9/20/2019  | Beginning annual updates  |  |  |  |  |  |  |
| 2019-1.0      | 3/20/2013  | The provision for including "key marks" has been removed.           |  |  |  |  |  |  |
|               |            | Coupons (Vouchers, Estimated Payments and Extension) are            |  |  |  |  |  |  |
|               |            | mandatory 2D  |  |  |  |  |  |  |
|               |            | Amended Bubble valid values   |  |  |  |  |  |  |
|               |            | Form 2 p1 field 44 (DOR use) removed and renumbered                 |  |  |  |  |  |  |
|               |            | Sched B/R 23, 35, 47 & 59 remain as "Unused" ATM                    |  |  |  |  |  |  |
|               |            | 2-ES coupon may see some instructional changes as well              |  |  |  |  |  |  |
|               |            | Schedules FAF & OJC are 2D enabled                                  |  |  |  |  |  |  |
|               |            | Form 3 & 3K-1 are 2D enabled  |  |  |  |  |  |  |
|               |            | Sched 2K-1 page 2 re-sequenced the field numbers to follow          |  |  |  |  |  |  |
|               |            | the line items on the page. (note *)                                |  |  |  |  |  |  |
|               |            | M2210F is 2D enabled  |  |  |  |  |  |  |
|               |            | Part 2 is now a spreadsheet rather than a word document with        |  |  |  |  |  |  |
|               |            | multiple tables. It also includes the test data as a column in      |  |  |  |  |  |  |
|               |            | the spreadsheet rather than a separate pdf document. This is        |  |  |  |  |  |  |
|               |            | to enable you to see exactly which field should have which          |  |  |  |  |  |  |
|               |            | data in it.   |  |  |  |  |  |  |
|               |            | New captured 2D field, Self Employed bubble Form 2 & 2G             |  |  |  |  |  |  |
|               |            | page 1. Field 67 & 58 respectively.                                 |  |  |  |  |  |  |
|               |            | 2D fields realigned, page 1 of Form 2 & 2G, schedule H also,        |  |  |  |  |  |  |
| 004044        | 0/05/00/0  | to match flow of the paper document                                 |  |  |  |  |  |  |
| 2019-1.1      | 9/25/2019  | New lines on page 1 Form 2. New bubble page 1 2G, lines 8,          |  |  |  |  |  |  |
|               |            | 9, 10 moved to page 2   |  |  |  |  |  |  |
| 0040 4 0      | 40/0/0040  | Schedule 2K-1 added credits and forced to 3 pages                   |  |  |  |  |  |  |
| 2019-1.2      | 10/3/2019  | Form 3K-1 line 5u was "Reserved" now named Vacant Storefront Credit |  |  |  |  |  |  |
|               |            | Form 2K-1 line 33 was "Reserved" now named Vacant                   |  |  |  |  |  |  |
|               |            | Storefront Credit   |  |  |  |  |  |  |
|               |            | Form 2G "Grantor Deceased" was renamed to "Final 2G"                |  |  |  |  |  |  |
|               |            | EOAC lines 16 to 17 removed. One page schedule now                  |  |  |  |  |  |  |
| 2019-1.3      | 10/9/2019  | Sched 2K-1, lines 31, 32, 33 have cert numbers added                |  |  |  |  |  |  |
| 2019-1.4      | 10/29/19   | Schedule FCI-I has changed from prior revisions of the specs        |  |  |  |  |  |  |
|               |            | to be 2 pages. Also, you will see the name has an "I" suffix to     |  |  |  |  |  |  |
|               |            | differentiate between the income version and the corporate          |  |  |  |  |  |  |
|               |            | version of the schedule. The 1D barcode value of the                |  |  |  |  |  |  |
|               |            | schedule is updated for 2019 to help with this. The 2018 must       |  |  |  |  |  |  |
|               |            | NOT be used after 2018.   |  |  |  |  |  |  |
| 0040 4 5      | 44/40/0040 | No redacting or masking of data                                     |  |  |  |  |  |  |
| 2019-1.5      | 11/13/2019 | Additional Tab in part 2 showing forms per test                     |  |  |  |  |  |  |
| 2019-1.6      | 11/20/2019 | Angle Credit has no cert. #. 2K1, pg2, field 91 is "Unused"         |  |  |  |  |  |  |
| 2019-2.0      | 12/11/2010 | No longer DRAFT   |  |  |  |  |  |  |
| 2019-2.1      | 12/11/2019 | Added link to DOR Legal Library                                     |  |  |  |  |  |  |

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# **Appendix A**

#### **Initial Submission**

Massachusetts Department of Revenue

Mrs. Dep Revenue 200 Arlington St Chelsea MA 02150 (617) 887-0000

revenue@dor.state.ma.us

or

Mr. Ven Doore doore@dor.state.ma.us (617) 887-0001

XYZ Corp of America Vendor # 1234

Product: Awesome Software 4U Contact: Mr. Stanley Smith

2 Main St Anytown, OR 10102

(123) 222-1234 smith@xyz.com

or

Mr. James Jones (123) 222-1233 jones@xyz.com

| Forms and Schedules | Te                    | sts to be | e perforn | ned              | Results / Action                  |
|---------------------|-----------------------|-----------|-----------|------------------|-----------------------------------|
|                     | = To be tested        | i         |           |                  | Successful Result, Error, Retest, |
|                     | P = Successful        | test      |           |                  | Did Not Submit, Accepted Form     |
|                     | Exact                 | 1D        | 2D        | Not              |                                   |
|                     | Positioning           |           | data      | supported        |                                   |
| Form 1              | √                     |           |           |                  |                                   |
| Schedule B          | √                     |           |           |                  |                                   |
| Schedule C          | √                     | <b>√</b>  |           |                  |                                   |
| Schedule D          | √                     | <b>√</b>  |           |                  |                                   |
| Schedule E          |                       |           |           | <b>√</b>         |                                   |
| Schedule CB         | √                     | <b>√</b>  |           |                  |                                   |
| Schedule INC        |                       |           |           |                  | D.N.S.                            |
| Schedule X/Y        |                       |           |           |                  | D.N.S.                            |
| Schedule Z/DI       |                       |           |           |                  | D.N.S.                            |
| Form 1NRPY          |                       |           |           |                  | D.N.S.                            |
| Schedule NTSL/NR    |                       |           |           |                  | D.N.S.                            |
|                     |                       |           |           |                  |                                   |
| Notes Developmen    | nt is incomplete. Sch | nedules   | with a D  | NS status will l | be submitted                      |
| next week.          | next week Stan        |           |           |                  |                                   |

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**Test Results** 

Massachusetts Department of Revenue

Mrs. Dep Revenue 200 Arlington St Chelsea MA 02150 (617) 887-0000

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or

Mr. Ven Doore doore@dor.state.ma.us

(617) 887-0001

XYZ Corp of America Vendor #

† 1234 Product: Awesome Software 4U

Contact: Mr. Stanley Smith

2 Main St

Anytown, OR 10102 (123) 222-1234 <a href="mailto:smith@xyz.com">smith@xyz.com</a>

or

Mr. James Jones (123) 222-1233 jones@xyz.com

| Forms and Schedu | ıles   | Tes                      | sts to be | eperform  | ned                               | Results / Action              |
|------------------|--|--------------------------|-----------|-----------|-----------------------------------|-------------------------------|
|                  |  | $\sqrt{}$ = To be tested |           |           | Successful Result, Error, Retest, |                               |
|                  |  | P = Successful to        | est       |           |                                   | Did Not Submit, Accepted Form |
|                  |  | Exact                    | 1D        | 2D        | Not                               |                               |
|                  |  | Positioning              |           | data      | supported                         |                               |
| Form 1           |  | P                        | P         |           |                                   | Success Exact / 1D            |
| Schedule B       |  | P                        |           |           |                                   | Success Exact / Error 1D      |
| Schedule C       |  | P                        | P         | <b>√</b>  |                                   | Success Exact & 1D            |
|                  |  |                          |           |           |                                   | Error 2D (see report)         |
| Schedule D       |  | P                        | P         | P         |                                   | Accepted                      |
| Schedule E       |  |                          |           |           | V                                 |                               |
| Schedule CB      |  | V                        | <b>√</b>  | √         |                                   | Did Not Submit                |
| Schedule INC     |  |                          |           |           |                                   | D.N.S.                        |
| Schedule X/Y     |  |                          |           |           |                                   | D.N.S.                        |
| Schedule Z/DI    |  |                          |           |           |                                   | D.N.S.                        |
| Form 1NRPY       |  |                          |           |           |                                   | D.N.S.                        |
| Schedule NTSL/N  | √R   |                          |           |           |                                   | D.N.S.                        |
|                  |  |                          |           |           |                                   |                               |
| Notes            | Schedule B – 1   | D barcode value l        | had 200   | 7 year, s | should be 2008                    | •                             |
|                  | Schedule CB did not accompany the test package as indicated - Kara |                          |           |           |                                   |                               |

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Resubmission

Massachusetts Department of Revenue

Mrs. Dep Revenue 200 Arlington St Chelsea MA 02150 (617) 887-0000

revenue@dor.state.ma.us

or

Mr. Ven Doore doore@dor.state.ma.us (617) 887-0001

XYZ Corp of America

Vendor #

1234

Product: Awesome Software 4U Contact: Mr. Stanley Smith

2 Main St

Anytown, OR 10102 (123) 222-1234 <a href="mailto:smith@xyz.com">smith@xyz.com</a>

or

Mr. James Jones (123) 222-1233 jones@xyz.com

| Forms and Sched | lules   | To  | ests to be | e perforn | ned             | Results / Action                            |
|-----------------|---|---|------------|-----------|-----------------|---|
|                 |   | $\sqrt{}$ = To be teste                                       | ed         |           |                 | Successful Result, Error, Retest,           |
|                 |   | P = Successful  | test       |           |                 | Did Not Submit, Accepted Form               |
|                 |   | Exact   | 1D         | 2D        | Not             |   |
|                 |   | Positioning   |            | data      | supported       |   |
| Form 1          |   | P   | P          | <b>√</b>  |                 |   |
| Schedule B      |   | P   | √          |           |                 | Retest 1D                                   |
| Schedule C      |   | Р   | P          | V         |                 | Success Exact & 1D<br>Error 2D (see report) |
| Schedule D      |   | P   | P          | P         |                 | Accepted                                    |
| Schedule E      |   |   |            |           | V               |   |
| Schedule CB     |   | V   | √          | <b>√</b>  |                 |   |
| Schedule INC    |   |   |            |           |                 | D.N.S.                                      |
| Schedule X/Y    |   |   |            |           |                 | D.N.S.                                      |
| Schedule Z/DI   |   |   |            |           |                 | D.N.S.                                      |
| Form 1NRPY      |   |   |            |           |                 | D.N.S.                                      |
| Schedule NTSL/  | NR  |   |            |           |                 | D.N.S.                                      |
|                 |   |   |            |           |                 |   |
| Notes           | Schedules CB  | Schedules CB is attached this time. Retest 1D value for Sched |            |           |                 | B. We are                                   |
|                 | still looking at Sched C error report. 2D test for Form-1 is inc<br>submission next week Stan |   |            |           | Form-1 is inclu | ided. DNS are still on track for            |

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Final Results

Massachusetts Department of Revenue

Mrs. Dep Revenue 200 Arlington St Chelsea MA 02150 (617) 887-0000

revenue@dor.state.ma.us

or

Mr. Ven Doore doore@dor.state.ma.us (617) 887-0001

XYZ Corp of America

Vendor#

1234

Product: Awesome Software 4U Contact: Mr. Stanley Smith

2 Main St

Anytown, OR 10102 (123) 222-1234 <a href="mailto:smith@xyz.com">smith@xyz.com</a>

or

Mr. James Jones (123) 222-1233 jones@xyz.com

| Forms and Schedules | Tes                      | ts to be | e perform | ned       | Results / Action                  |
|---------------------|--------------------------|----------|-----------|-----------|-----------------------------------|
|                     | $\sqrt{}$ = To be tested |          |           |           | Successful Result, Error, Retest, |
|                     | P = Successful to        | est      |           |           | Did Not Submit, Accepted Form     |
|                     | Exact                    | 1D       | 2D        | Not       | -                                 |
|                     | Positioning              |          | data      | supported |                                   |
| Form 1              | P                        | P        | P         |           | Accepted                          |
| Schedule B          | P                        | P        | P         |           | Accepted                          |
| Schedule C          | P                        | P        | P         |           | Accepted                          |
| Schedule D          | P                        | P        | P         |           | Accepted                          |
| Schedule E          |                          |          |           | √         | _                                 |
| Schedule CB         | P                        | P        | P         |           | Accepted                          |
| Schedule INC        | P                        | P        | P         |           | Accepted                          |
| Schedule X/Y        | P                        | P        | P         |           | Accepted                          |
| Schedule Z/DI       | P                        | P        | P         |           | Accepted                          |
| Form 1NRPY          | P                        | P        | P         |           | Accepted                          |
| Schedule NTSL/NR    | P                        | P        | P         |           | Accepted                          |
|                     |                          |          |           |           |                                   |
| Notes Have a succes | sful filing season -     | Kara     |           |           |                                   |
|                     |                          |          |           |           |                                   |

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# Appendix C

# The 2 character code must be used in the foreign country field

https://www.irs.gov/tax-professionals/e-file-providers-partners/foreign-country-code-listing-for-modernized-e-file

| Country Name                   | Country Code |
|--------------------------------|--------------|
| Afghanistan                    | AF           |
| Akrotiri                       | AX           |
| Albania                        | AL           |
| Algeria                        | AG           |
| American Samoa                 | AQ           |
| Andorra                        | AN           |
| Angola                         | AO           |
| Anguilla                       | AV           |
| Antarctica                     | AY           |
| Antigua & Barbuda              | AC           |
| Argentina                      | AR           |
| Armenia                        | AM           |
| Aruba                          | AA           |
| Ashmore and Cartier Islands    | AT           |
| Australia                      | AS           |
| Austria                        | AU           |
| Azerbaijan                     | AJ           |
| Bahamas                        | BF           |
| Bahrain                        | BA           |
| Baker Island                   | FQ           |
| Bangladesh                     | BG           |
| Barbados                       | BB           |
| Belarus                        | ВО           |
| Belgium                        | BE           |
| Belize                         | ВН           |
| Benin                          | BN           |
| Bermuda                        | BD           |
| Bhutan                         | BT           |
| Bolivia                        | BL           |
| Bosnia-Herzegovina             | BK           |
| Botswana                       | BC           |
| Bouvet Island                  | BV           |
| Brazil                         | BR           |
| British Indian Ocean Territory | IO           |
| British Virgin Islands         | VI           |
| Brunei                         | BX           |
| Bulgaria                       | BU           |
| Burkina Faso                   | UV           |
| Burma                          | BM           |
| Burundi                        | BY           |
| Cambodia                       | СВ           |
| Cameroon                       | CM           |
| Canada                         | CA           |
| Cape Verde                     | CV           |
| Cayman Islands                 | СЈ           |
| Central African Republic       | CT           |
| Chad                           | CD           |
| Chile                          | CI           |
| China                          | СН           |
| Christmas Island               | KT           |
| Clipperton Island              | IP           |

| Cocos (Keeling) Islands             | CK    |
|-------------------------------------|-------|
| Colombia                            | CO    |
| Comoros                             | CN    |
| Congo (Brazzaville)                 | CF    |
| Congo (Kinshasa)                    | CG    |
| Cook Islands                        | CW    |
| Coral Sea Islands                   | CR    |
| Costa Rica                          | CS    |
| Cote D'Ivoire (Ivory Coast)         | IV    |
| Croatia                             | HR    |
| Cuba                                | CU    |
| Curacao                             | UC    |
| Cyprus                              | CY    |
| Czech Republic                      | EZ    |
| Denmark                             | DA    |
| Dhekelia                            | DX    |
| Djibouti                            | DJ    |
| Dominica                            | DO    |
| Dominican Republic                  | DR    |
| East Timor                          | TT    |
| Ecuador                             | EC    |
| Egypt                               | EG    |
| El Salvador                         | ES    |
| Equatorial Guinea                   | EK EK |
| Equatorial Guinea  Eritrea          | ER    |
|                                     |       |
| Estonia                             | EN    |
| Ethiopia Ethiopia                   | ET    |
| Falkland Islands (Islas Malvinas)   | FK    |
| Faroe Islands                       | FO    |
| Federated States of Micronesia      | FM    |
| Fiji                                | FJ    |
| Finland                             | FI    |
| France                              | FR    |
| French Polynesia                    | FP    |
| French Southern and Antarctic Lands | FS    |
| Gabon                               | GB    |
| The Gambia                          | GA    |
| Georgia                             | GG    |
| Germany                             | GM    |
| Ghana                               | GH    |
| Gibraltar                           | GI    |
| Greece                              | GR    |
| Greenland                           | GL    |
| Grenada                             | GJ    |
| Guam                                | GQ    |
| Guatemala                           | GT    |
| Guernsey                            | GK    |
| Guinea                              | GV    |
| Guinea-Bissau                       | PU    |
| Guyana                              | GY    |
| Haiti                               | HA    |
| Heard Island and McDonald Islands   | HM    |
| Holy See                            | VT    |
| Honduras                            | НО    |
| Hong Kong                           | HK    |
| Howland Island                      | HQ    |
| Hungary                             | HU    |
| Iceland                             | IC    |
| India                               | IN    |
| пии                                 | 111   |

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| Indonesia                                      | ID    |
|--|-------|
| Iran   | IR    |
| Iraq   | IZ    |
| Ireland  | EI    |
| Israel   | IS    |
| Italy  | IT    |
| Jamaica  | JM    |
| Jan Mayen                                      | JN    |
| Japan  | JA    |
| Jarvis Island                                  | DQ    |
| Jersey   | JE    |
| Johnston Atoll                                 | JQ    |
| Jordan   | JO    |
| Kazakhstan                                     | KZ    |
| Kenya  | KE    |
| Kingman Reef                                   | KQ    |
| Kiribati                                       | KR    |
| Korea, Democratic People's Republic of (North) | KN    |
| Korea, Republic of (South)                     | KS    |
| Kosovo   | KV    |
| Kuwait   | KU    |
| Kyrgyzstan                                     | KG    |
| Laos   | LA    |
| Latvia   | LG    |
| Lebanon  | LE    |
| Lesotho  | LT    |
| Liberia  | LI    |
| Libya  | LY    |
| Liechtenstein                                  | LS    |
| Lithuania                                      | LH    |
| Luxembourg                                     | LU    |
| Macau  | MC    |
| Macedonia                                      | MK    |
| Madagascar                                     | MA    |
| Malawi   | MI    |
| Malaysia                                       | MY    |
| Maldives                                       | MV    |
| Mali   | ML    |
| Malta  | MT    |
| Man, Isle of                                   | IM    |
| Marshall Islands                               | RM    |
| Mauritania                                     | MR    |
| Mauritius                                      | MP    |
| Mexico   | MX    |
| Midway Islands                                 | MQ    |
| Moldova  | MD    |
| Monaco   | MN    |
| Mongolia                                       | MG    |
| Montenegro                                     | MJ    |
| Montserrat                                     | MH    |
| Morocco  | MO    |
| Mozambique                                     | MZ    |
| Namibia  | WA    |
| Nauru  | NR    |
| Navassa Island                                 | BQ    |
| Nepal  | NP    |
| Netherlands                                    | NL NL |
| New Caledonia                                  | NC    |
| New Zealand                                    | NZ    |

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| Nicaragua                                    | NU |
|--|----|
| Niger  | NG |
| Nigeria                                      | NI |
| Niue   | NE |
| Norfolk Island                               | NF |
| Northern Mariana Islands                     | CQ |
| Norway                                       | NO |
| Oman   | MU |
| Other Country                                | OC |
| Pakistan                                     | PK |
| Palau  | PS |
| Palmyra Atoll                                | LQ |
| Panama                                       | PM |
| Papua-New Guinea                             | PP |
| Paracel Islands                              | PF |
| Paraguay                                     | PA |
| Peru   | PE |
| Philippines                                  | RP |
| Pitcairn Islands                             | PC |
| Poland                                       | PL |
| Portugal                                     | PO |
| Puerto Rico                                  | RQ |
| Qatar  | QA |
| Romania                                      | RO |
| Romania                                      | RS |
| Rwanda                                       | RW |
|  | TB |
| Saint Barthelemy                             | RN |
| Saint Martin                                 |    |
| Samoa  | WS |
| San Marino                                   | SM |
| Sao Tome and Principe                        | TP |
| Saudi Arabia                                 | SA |
| Senegal                                      | SG |
| Serbia                                       | RI |
| Seychelles                                   | SE |
| Sierra Leone                                 | SL |
| Singapore                                    | SN |
| Sint Maarten                                 | NN |
| Slovakia                                     | LO |
| Slovenia                                     | SI |
| Solomon Islands                              | BP |
| Somalia                                      | SO |
| South Africa                                 | SF |
| South Georgia and the South Sandwich Islands | SX |
| South Sudan                                  | OD |
| Spain  | SP |
| Spratly Islands                              | PG |
| Sri Lanka                                    | CE |
| St. Helena                                   | SH |
| St. Kitts and Nevis                          | SC |
| St. Lucia Island                             | ST |
| St. Pierre and Miquelon                      | SB |
| St. Vincent and the Grenadines               | VC |
| Sudan  | SU |
| Suriname                                     | NS |
| Svalbard                                     | SV |
| Swaziland                                    | WZ |
| Sweden                                       | SW |
| Switzerland                                  | SZ |
|  |    |

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| Syria   | SY |
|---|----|
| Taiwan  | TW |
| Tajikistan  | TI |
| Tanzania  | TZ |
| Thailand  | TH |
| Togo  | TO |
| Tokelau   | TL |
| Tonga   | TN |
| Trinidad and Tobago   | TD |
| Tunisia   | TS |
| Turkey  | TU |
| Turkmenistan  | TX |
| Turks and Caicos Islands  | TK |
| Tuvalu  | TV |
| Uganda  | UG |
| Ukraine   | UP |
| United Arab Emirates  | AE |
| United Kingdom (England, Northern Ireland, Scotland, and Wales) | UK |
| Uruguay   | UY |
| Uzbekistan  | UZ |
| Vanuatu   | NH |
| Venezuela   | VE |
| Vietnam   | VM |
| Virgin Islands  | VQ |
| Wake Island   | WQ |
| Wallis and Futuna   | WF |
| Western Sahara  | WI |
| Yemen (Aden)  | YM |
| Zambia  | ZA |
| Zimbabwe  | ZI |

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