Using the EBTS Reference Tool

The EBTS Reference Tool allows a user to easily view requirements of the EBTS specification. It provides users with the ability to view the transactions, records, and fields of the EBTS specification. In addition, it provides users with the ability to view the details of these record types and fields. For more information regarding EBTS, refer to the specification at www.fbibiospecs.cjis.gov/EBTS/Approved.

Please note:

- 1. The Reference Tool supports computers with the Windows, Linux, or Mac operating systems.
- 2. Java Webstart is used to download and execute the application locally and exclusively on the user's computer. No Personally Identifiable Information (PII) or other information is transmitted, stored, or processed by other computers.
 - a. If you do not have Java installed on your computer, please use to the following link to install it: www.java.com/en/download/help/windows_manual_download.xml.

How do EBTS Transactions work?



To communicate biometrics data with the FBI, a user must submit transactions as defined in the EBTS specification. There are a variety of transactions, each identified by a unique code in a field named "Type of Transaction" (TOT), which defines the purpose of the transaction. For example, if you wanted to conduct a search of a fingerprint image without any markup, you would create a transaction using an LFIS (Latent Fingerprint Image Search) TOT and submit it to the FBI.

Each transaction is composed of various combinations of data records, each of which has a Record Type. Each valid record of a given Record Type has a list of defined fields which must conform to a set of requirements (e.g., character length, occurrence count, mandatory or optional, etc.). If a created transaction is not valid (does not conform to EBTS requirements) it cannot be processed by the FBI's biometric system.

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Step 1: Launch the Tool

- 1. To start the tool, click on the "EBTS Reference Tool" button located at https://www.fbibiospecs.cjis.gov/ebts/Approved under "EBTS Compliance Tool Suite".
 - a. When running the ECTS applications, users will see several security notifications. The user must accept these notifications to run the application. These security notifications are a result of the technology used to start the application and provide information for users that describe the security implications for these types of applications.
 - When opening the batch file to start the application, the user will receive an "Open File – Security Warning" from the file system. To avoid seeing this dialog, the user can uncheck the "always ask before opening this file".
 - ii. Next there is a security notification asking the user whether to access an untrusted website. This is the website that is hosting the application. To avoid seeing the dialog, the user could add the website to its list of trusted web sites.
- 2. Most browsers will require you to download the tool and then run the download. See your browser's help file to determine how best to navigate Internet downloads.
 - a. If using Internet Explorer (IE), you will see an option to Save the tool (Figure 1). Select Save or Save As.

Do you want to save ReferenceTooUNLP.BAT (90 bytes) fi			×	
This type of file could harm your computer.	Save	•	Cancel	

Figure 1. Download Reference Tool via IE

- b. Select Run to start the tool or open "Windows"/"File Explorer" (Windows or File Explorer is the file management application in Windows). See Figure 2 below.
 - i. Following the access and download of the application files, the user will be asked whether to run the application. To avoid seeing this dialog, check the "do not show again..." checkbox before clicking run.

The ReferenceTooUNLP.BAT download has completed.	Run	Open folder	View downloads] ×

Figure 2. Open Reference Tool via IE

- 3. Navigate to the download location of the batch file and double click on it to run the Transaction Tool (Figure 3).
 - a. Windows/File Explorer can be found by clicking on the windows start button and typing "Windows Explorer" or "File Explorer" in the Search Programs and Files text box.

🕼 l 💽 🛄 = l		Downloads		_	D X
File Home Shar	re View				~ Ø
🕣 💿 = 🕆 🚺 • 1	This PC + Downloads		v ₫ Sear	ch Downloads	,P
🚖 Favorites	Name	Date modified	Туре	Size	
E Desktop	KeferenceTooUNLP	6/26/2017 2:19 PM	Windows Batch	File 1 KB	
Downloads Recent places					
🌉 This PC					
🗣 Network					
1 item					(iii 🖬

Figure 3. Open Reference Tool in Windows/File Explorer

- b. Each type of "Web Browser" (Internet Explorer, Firefox, Chrome, etc.) has a setting for the download location. Refer to that setting to determine the download location of the startup program.
 - If using Google Chrome, you will see an option to Keep or Discard the download.
 Select Keep. Then select Open or Show in Folder (double click on the batch file) to open the tool.
 - ii. If using Firefox, you will see an option to Open or Save. If Open is selected, the tool will open. If Save is selected, select the arrow at the top right of the screen and either select the batch file to open or go to the enclosing folder.
- 4. A loading icon from Java Webstart will appear (see Figure 4)



Figure 4. Java Web Start Loading Icon

5. A security warning may appear (similar to Figure 5) and, if so, select Run or the appropriate action to continue. The security pop-up may differ depending on the web browser used. If you do not want to see this screen every time you run the program, click on the checkbox next to the words "Always trust content from this publisher" if this is an option.



6. You will receive a Disclaimer screen, as shown in Figure 6, and you must agree to the terms in order to use the software. If you select "Disagree", the tool will exit.



Figure 6. Reference Tool Disclaimer

Step 2: Choose the EBTS Version

1. Once the "Agree" button is selected, the Reference Tool will open on your computer (Figure 7).

e		EBTS Reference Tool 2.0.9	_ D X
	EBTS Version: Lookup Type: TOT: Formatting:	EBTS 10.0 TOU#5 TOT Traditional O XML	a a
Output			
Clear			Export Look Up

Figure 7. Reference Tool Main Screen with EBTS Version

 Select the EBTS version you wish to view by clicking the dropdown arrow next to the "EBTS Version" pull-down. When you change the selected version, a loading bar is displayed while the program responds.

Note: The latest effective version of EBTS is always recommended, but older versions are maintained for backward compatibility. As new versions of EBTS are published, they are added to the list of available choices. The latest effective version is the default selection.

Step 3: Choose the Format

 Choose the appropriate format by selecting either "Traditional" or "XML" from the radio buttons located directly below the "TOT" dropdown menu as shown in Figure 7. This option will display the requirements for the selected format. For example, if the "XML" formatting option is selected, then the output will display the requirements for the XML format only.

Note: The default selection is Traditional formatting. Requirements for the XML format and Traditional format differ at times, which is why there are separate outputs for the two different formats. The radio buttons for EBTS versions for 9.1, 9.2, and the Iris Pilot are grayed out since these versions only support Traditional formatting.

Step 4: Choose the Lookup Type

- 1. Select which "Lookup Type" you wish to view (Figure 8). This currently consists of four options:
 - a. **<u>TOT</u>**: Allows the user to view the TOT requirements, which list the record types and fields for the selected TOT. The "TOT" option applies to all EBTS versions.
 - b. **<u>TOT with Description</u>**: Allows the user to view TOT requirements and an explanation of the TOT. The "TOT with Description" option applies only to EBTS v9.3 and v10.0.
 - c. <u>Record Description</u>: Allows the user to view the record type requirements and an explanation of the record type. The "Record Description" option applies only to EBTS v9.3 and v10.0.
 - d. <u>Field Description</u>: Allows the user to view the field requirements and an explanation of the field. Field requirements include the field lengths, occurrences, character type, value range, code table, and example values. The "Field Description" option applies only to EBTS v9.3 and v10.0.
- If you select "TOT" or "TOT Description", go to Step 5: View TOT Output. If you select "Record Description", go to Step 6: View Record Description Output. Otherwise, if you select "Field Description", go to Step 7: View Field Description Output.

€		EBTS Reference Tool 2.0.9	_ _ X
Output	EBTS Version: Lookup Type: TOT: Formatting:	EBTS 10.0 TOU#5 TOT TOT TOT with Description Record Description Field Description	
Clear			Export Look Up

Figure 8. Reference Tool Main Screen with Lookup Type List

Step 5: View TOT Output

 Once you select a "TOT" or "TOT Description" from the "Lookup Type" pull-down, you may select the TOT you wish to view from the "TOT" pull-down. Click on the arrows next to the "TOT" pull-down and a list of TOTs existing in the specified EBTS version will appear (Figure 9). Note that the TOT list will change when you change the "EBTS version". After clicking on the TOT(s) you want to view, select the "Look up" button on the bottom right of the screen.

0		EBTS Reference Tool 2.0.9	_ D X
Output	EBTS Version: Lookup Type: TOT: Formatting:	EBTS 10.0 TOU#5 TOT AMN AMNESIA VICTIM BATQ BIOMETRIC AUDIT TRAIL QUERY BATR BIOMETRIC AUDIT TRAIL RESPONSE BDEC BIOMETRIC DECISION RUBMISSION BDECR BIOMETRIC DECISION RESPONSE BDEL BIOMETRIC DELETE REQUEST BDELR BIOMETRIC DELETE RESPONSE	
Clear			Export Look Up

Figure 9. Reference Tool Main Screen with TOT List

Note: You can select multiple TOT (from one EBTS version) to look up simultaneously by holding Shift or Ctrl and clicking on the desired transactions. Conversely, you can unselect a TOT by holding Shift or Ctrl and clicking on the highlighted transaction. Please note that Shift selects or unselects all items between the two items selected, whereas Ctrl selects or unselects only the two items.

 Once you select the "Look Up" button, you will see a tab for each TOT selected under "Output". Figure 10 and Figure 11 show different examples of the Reference Tool output. To view the display for a TOT, click on the tab for the desired TOT.

	0		EBTS Reference Tool 2.0.9		- D X	
		EBTS Version: Lookup Type: TOT: Formatting:	EBTS 10.0 TOU#5 TOT Traditional O XML			Click and drag tabs to change the order of the output. The blue line designates where tab will be placed.
Click on a tab	Output		K			
to view that TOT's	AMN EBTS 10.0 TOU#5	Trak BATR EETS 10	.0 TOU#5 Traditional X titional X	BATR EBTS 10.0 TOU#5 Traditional X	BDEC	
Deletes all	BATR I BIOMETRIC AUD (1 - 1) TYPE 1 RECORD(s) F Mandatory Type 1 Fields 1.001 - Record Header 1.002 - Version Number 1.003 - Transaction Cont 1.003 - First Record Cate	REQUIRED	IEBTS I 0.0 TOU#5 (Traditional)		< /	Scroll up, down, and across to view requirements
output tabs	Clear			Export	Look Up	
	Fig	gure 10. Refere	nce Tool Output for TOTs	(without Descriptions)		
Close out	0		EBTS Reference Tool 2.0.9	-	o x	
individual						
tabs by	AND ADD IN THE PROPERTY OF	EBTS Version: Lookup Type:	EBTS 10.0 TOU#5 TOT with Description			
Selecting X	FBI BIOMETRIC	TOT:	To Finance scapaton			
	Provent and	Formatting:	Traditional			lse arrows to croll across TOTs
Tab headers display	Output	Z			S	
the EBTS version TO	BDECR EBTS 10.0 TO	OU#5 Traditional X	BDEL EBTS 10.0 TOU#5 Traditional X	BDELR EBTS 10.0 TOU#5 Traditional X		

Tab headers display the EBTS version, TOT ("Desc" denotes that TOT output contains the TOT Description), and formatting ("XML" or "Trad")



Figure 11. Reference Tool Output for TOTs (with Descriptions)

- For each TOT, you will see a list of record types (e.g., "Type 1"). Each listed record type is
 required or optional depending on the occurrence listed. The only exceptions are "Type 1" and
 "Type 2" records, which are mandatory for all transactions. Under each record header is a list of
 mandatory and optional fields. Below describes the data displayed by the tool.
 - a. The first item displayed (see Figure 12) is the "Type 1" header record, which is required for every TOT. The "Type 1" record lists the mandatory and optional "Type 1" fields, which remain constant for all TOTs.

Mandatory Type 1 Fields 1.001 - Record Header 1.002 - Version Number 1.003 - Transaction Content 1.004 - Type of Transaction 1.005 - Date 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 1.017 - Agency Names	1 TYPE 1 RECORD(s) REQUIRED
 1.002 - Version Number 1.003 - Transaction Content 1.004 - Type of Transaction 1.005 - Date 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	Mandatory Type 1 Fields
1.003 - Transaction Content 1.004 - Type of Transaction 1.005 - Date 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution 0.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	1.001 - Record Header
 1.004 - Type of Transaction 1.005 - Date 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Control Reference Number 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.002 - Version Number
 1.005 - Date 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.003 - Transaction Content
 1.007 - Destination Agency Identifier 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.004 - Type of Transaction
 1.008 - Originating Agency Identifier 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.005 - Date
 1.009 - Transaction Control Number 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.007 - Destination Agency Identifier
 1.011 - Native Scanning Resolution 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.008 - Originating Agency Identifier
 1.012 - Nominal Resolution Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications 	1.009 - Transaction Control Number
Optional Type 1 Fields 1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	1.011 - Native Scanning Resolution
1.006 - Transaction Priority 1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	1.012 - Nominal Resolution
1.010 - Transaction Control Reference Number 1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	Optional Type 1 Fields
1.013 - Domain Name 1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	1.006 - Transaction Priority
1.014 - Greenwich Mean Time 1.015 - Character Encoding 1.016 - Application Profile Specifications	1.010 - Transaction Control Reference Number
1.015 - Character Encoding 1.016 - Application Profile Specifications	1.013 - Domain Name
1.016 - Application Profile Specifications	1.014 - Greenwich Mean Time
	1.015 - Character Encoding
1.017 - Agency Names	1.016 - Application Profile Specifications
	1.017 - Agency Names

Figure 12. Example of Type-1 Record as Displayed by the Reference Tool

b. Next is the Type-2 record (see Figure 13), which is also required for all TOTs. The "Type 2" record lists the mandatory and optional "Type 2" fields, which are dependent on the TOT.



Figure 13. Example of "Type 2" Record as Displayed by the Reference Tool

c. The last section shows additional record types that may exist in a transaction. It states the allowed number of instances of a record type and the mandatory and optional fields for each required record type. Figure 14 shows one example:



Figure 14. Example of Additional Record Types as Displayed by the Reference Tool

Step 6: View Record Description Output

1. Once you select "Record Description" from the Lookup Type pull-down, select the record type you wish to view. Click on the arrows next to the "Record" pull-down and a list of record types existing in the specified EBTS version will appear (Figure 15). Note that the record type list may change when you change EBTS versions. After selecting on the record types(s) you want to view, select the "Look up" button on the bottom right of the screen.

⇔		EBTS Reference Tool 2.0.9	_ D X
AND DESCRIPTION OF LAVERTING	EBTS Version: Lookup Type: Record: Formatting:	EBTS 10.0 TOU#5 Record Description Type 1 - Transaction Information Record Type 2 - User-Defined Descriptive Text Record	
Output		Type 4 - Grayscale Fingerprint Image Record Type 7 - User-Defined Image Record Type 8 - Signature Image Record Type 9 - Minutiae Data Record Type 10 - Facial, Other Body Part & SMT Image record	▼
Clear			Export Look Up

Figure 15. Reference Tool Main Screen with Record Type List

Note: You can select multiple record types (from one EBTS version) to look up simultaneously by holding Shift or Ctrl and clicking on the desired record types. Conversely, you can unselect a record type by holding Shift or Ctrl and clicking on the highlighted record type. Please note that Shift selects or unselects all items between the two items selected, whereas Ctrl selects or unselects only the two items.

 Once you select the "Look Up" button, you will see a tab for each record type selected under "Output". Figure 16 shows examples of the Reference Tool output. To view a record type, click on the tab for the appropriate one.

	0		EB	TS Refere	nce Tool	2.0.9			×	
Click on a tab to view that record's requirements. Click		EBTS Version Lookup Type: Record Formatting:	EBTS 10.0 TOU#5 Record Description					E E		
on the "x" to close out that tab.	Output 1 EBTS 10.0 TOU#S XM Record Type-2: User-D			4 EBTS 1 TS 10.0 TC			7 EBTS 10	0.0 TOU#5 XML X 8 EBTS 10.0 TOU#		
Record Type Name		physical character						with the subject of the transaction. This record n dion contains at least one Type-2 record, some		Re De
	Field Number	Maemonic	Content Description	Cond Code		Charae	cter	Value Constraints		
	02		Package Descriptive Text Record (0ML)	0	Туре	Min	Nax		<	Dis rec
	Textual information relation	ng to the subject o	of the transaction.	-	1					fiel
Deletes all output	02.001	XRCC	XML Record Category Code	м	N	1	2	2		
(including all tabs)	Numeric representation	of Record Type.								
	Clear							Export Look Up		
-		Figure 1	6. Reference	Γool Ο	utput	for a	Record	Туре	F	xport

Step 7: View Field Description Output

 Once you select "Field Description" from the "Lookup Type" pull-down, select the field you wish to view. Click on the arrows next to the "Field" pull-down and a list of fields existing in the specified EBTS version will appear (see Figure 17). Note that the field list will change when you change EBTS versions. After clicking on the field(s) you want to view, select the "Look up" button at the bottom right of the screen.



Figure 17. Reference Tool Main Screen with Field List

Note: You can select multiple fields (from one EBTS version) to look up simultaneously by holding Shift or Ctrl and clicking on the desired fields. Conversely, you can unselect a field by holding Shift or Ctrl and clicking on the highlighted field. Please note that Shift selects or unselects all items between the two items selected, whereas Ctrl selects or unselects only the two items.

Once you select the "Look Up" button, you will see a tab for each field selected under "Output". Figure 18 shows an example of the Reference Tool output. To view a field, click on the tab for the appropriate field.

	÷				EE	STS Re	feren	ce Tool	2.0.9				_	D X		
Click on a tab to view that field's requirements. Click on the "x" to close out a		FBI	creat	EBTS Version: Lookup Type: Field: Formatting:	EBTS 1 Field D		on	n.						4		Use arrows to scroll across fields
tab.		Output			-	-		-		-	-		-			Displays
Field Name		01.001:T EBT	TS 10.0 TOU#	5 Traditional X	01.003:)	EBTS	10.0 1	rou#5 X	ML X 02.2064	EBTS	10.0 TOU	J#5 Traditio	nal X	K	-	requirements for
		Fleid-01.001 :	Record He	ader - EBTS 10.0 T	OU#5 -	Tradit	lonal						_			selected fields
		Field Number	Mnemonic	Content Description	Cond Code	6	harac	ter	Value Constraints	Occu	rrence	K			L	
						Туре	Min	Мах		Min	Max				L	
		01.001	LEN	Record Header	м	N	2	Infinite		1	1					
Deletes <i>all</i> output (including all field		Record length	in bytes.										-			Field Summary
tabs)		Clear									E	xport	Lool	k Up		Ticle Summary
				Figure 18	. Ref	eren	ce To	ool Ou	tput for a Fie	ld					- - I	Exports results

Step 8: Export Files

- If you want to export the output results, select the "Export" button at the bottom right of the screen. You will then be taken to the "Export Results" screen, shown in Figure 19, which will include a list each of the TOTs and fields existing in the current Reference Tool output. All TOT, record, and field outputs are checked by default and you can uncheck the items which you do not want in the export file.
- 2. Choose the format you would like to export in by selecting either "Export as TXT" (plain text format) or "Export as HTML".



Figure 19. Reference Tool Export Results Screen

3. Select the "Export" button (see Figure 19). The next screen (Figure 20) will allow you to navigate in the file system to select where you would like to save the results. You can view the folder structure by selecting the arrows next to the "Look In" pull-down.

🗢 Save	
Look In:	RT Folders
Folder 1	
File <u>N</u> ame:	
Files of <u>T</u> ype:	All Files
	Save Cancel

Figure 20. Reference Tool Save Screen

The screen contains the following selections:





Details: Sets the current view to Include the size, item type, and date modified of each folder/file in the list

4. Once you navigate to the folder in which you want to save the Reference Tool output, name the file and select "Save".

If saved as a TXT file, open the exported file in the default text processing software on your computer. In Windows, you can use Microsoft Notepad, Microsoft WordPad, Word, etc. by right clicking on the file name and selecting "Open With" (Figure 21).



Figure 21. Opening an Exported .TXT File from the Reference Tool

Figure 22 through Figure 24 show examples of TXT export format.

AMN AMNESIA VI	CTIM EBTS 9.3 (XML)
	ECORD(s) REQUIRED
Mandatory Type 1	
	ackage Information Record (XML)
	ransaction (XML)
	ontent Record Summary (XML)
	ransaction Destination Organization (XML)
	ransaction Originating Organization (XML)
	ransaction Image Resolution Details (XML)
	ML Record Category Code
	lajor Version
1.002 - M	linor Version
	ersion Number
1.003 - 7	ransaction Content (XML)
1.003 - F	irst Record Category Code
	ontent Record Count
	lecord Category Code (XML)
	information Designation Character (XML)
1.004 - 7	ype of Transaction
1.005 - 0	late (XML)
	estination Agency Identifier
	Iriginating Agency Identifier
	ransaction Control Number
	lative Scanning Resolution (XML)
	Iominal Resolution (XML)
	Ionain Name
	haracter Encoding Set Index
	haracter Encoding Set Name
	oplication Profile Organization
	oplication Profile Name
	pplication Profile Version Number
Optional Type 1	
	ransaction Priority
	ransaction Control Reference Number
	Ionain Name
	ionain Version Number
	reenwich Mean Time (XML)
	haracter Encoding
	haracter Encoding Set Version
	pplication Profile Specifications
	estination Agency Name
	riginating Agency Name
	ECORD(s) REQUIRED
Mandatory Type 2	
	ML Record Category Code
	information Designation Character
	etention Code (XML)
2.003 - 1	eventered event



acord Type-1:	Transaction Inf	ormation Record - EBTS 9.3-Trad							
scord Header									
Pield Number	Mnemonic	Content Description	Cond Code	туре	Character Nin	Маж	Value Constraints	Occu Min	Nax
1.001	LEN	Record Header	м	N	2	•		1	1
1.002	VER	Version Number	м	N	4	4	(0500)	1	1
1.003	CMT	Transaction Content	м					1	1000
1.003-A	FRC	First Record Category Code	M^	N	1	1	(1)	1	1
1.003-B	CRC	Content Record Count	M ^A	N	1	3	(1999)	1	1
1.003-C	REC	Record Category Code	M ⁿ	N	1	2	(>1)	1	1
1.003-D	IDC	Information Designation Character	Mn	N	1	2	(0,,99)	1	1

Figure 23. Exported Text File Example 2

Field - 1.0	Field - 1.006 - PRY - Transaction Priority - EBTS 9.3-XML								
The urgency	with which	transaction response is desired (1 = hi	ghest pri	iority).	Default	value for	field is defined by	the agency receiving the	transaction.
ID Example	Mnemonic	Marros	Field	Length	Field	Occurrence	Character Type	Value Range	Code Tables
rxespre			Min	Max	Min	Max			
1.006	PRY	Transaction Priority	1	1	0	1	N	{19}	

Figure 24. Exported Text File Example 3

If saved as an HTML file, open the exported file in the default internet browser by double clicking on the file name or, in Windows, by right clicking on the file name and selecting a browser using "Open With" (Figure 25).

export 4.html				
Export 3.html Export 2.txt Export 1.txt	Open Edit with Notepad++ Scan for Viruses			
	Open with		6	Google Chrome
1	Symantec	,	0	Internet Explorer
4	Share with WinZip Restore previous versions	;	Γ	Choose default program
	Send to	•		
	Cut Copy			
	Create shortcut Delete Rename			
	Open file location Properties			

Figure 25. Opening an Exported HTML File

The HTML output contains a "Go To" menu which lists all the exported TOTs and fields. You can click on a TOT or field to navigate to the TOT/field/record type requirements and description. At the end of each listing there is a link to go "Back to the Top", which you can select to return to the top of the export page.

Figure 26 shows an example of a HTML record format export.

Mandato	ry Type 1 Fields
1.001 - 1	Record Header
1.002 - 1	Version Number
1.003 - 1	Transaction Content
1.003 - 1	First Record Category Code
1.003 - 0	Content Record Count
1.003 - 1	Record Category Code
1.003 - 1	nformation Designation Character
1.004 - 1	Type of Transaction
1.005 - 1	Dute
1.007 - 1	Destination Agency Identifier
1.008 - 0	Wiginating Agency Identifier
1.009 - 1	fransaction Control Number
1.011 - 2	fative Scanning Resolution
1.012 - 1	Nominal Resolution
1.013 - 1	Domain Name
1.015 - 0	Character Encoding Set Index
1.015 - 0	Tharacter Encoding Set Name
1.016 - /	Application Profile Organization
1.016 - /	Application Profile Name
1.016 - /	Application Profile Version Number
Optional	Type 1 Fields
1.006 - 1	Transaction Priority
1.010 - 1	Transaction Control Reference Number
1.013 - 1	Domain Name
1.013 - 1	Domain Version Number
1.014 - 0	Greenwich Mean Time
1.015 - 0	Character Encoding
1.015 - 0	Character Encoding Set Version
1.016 - /	Application Profile Specifications
1.017 - /	Agency Names

BATQ | BIOMETRIC AUDIT TRAIL QUERY | EBTS 9.3 (Traditional)

Figure 26. Example HTML Record Format Export

Figure 27 shows an example of a HTML field format export.

Field-01.006 : Transaction Priority - EBTS 9.3 - Traditional

Field Number	Mnemonic	Content Description	Cond Code	Character		er	Value Constraints	Occu	rrence
				Туре	Min	Max		Min	Max
01.006	PRY	Transaction Priority	0	N	1	1	1.9		1
The urgency with which transaction response is desired (1 = highest priority). Default value for field is defined by the agency receiving the transaction.									
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Figure 27. Example HTML Field Format Export

Troubleshooting

- If you run into errors validating transactions or downloading the tool, try clearing the Java cache. The following link describes how to do this: <u>https://www.java.com/en/download/help/plugin_cache.xml</u>
- 2. If you receive the error "Remote host closed during handshake", you will need to set the Java SSL/TLS protocol 1.2. In order to do this, please use the following instructions.

	For Windows:		For Mac:		For Linux:
1.	Click on the Start Menu Java in the search field a. From the list select "Configure Java"	1.	Click on System Preferences and click on the Java icon towards the bottom		In a new tab on Mozilla, type or paste <u>about:config</u> in the address bar and press Enter. Click the button promising to be careful.
2.	When the Java Control Panel open click on the "Advanced" Tab	2.	When the Java Control Panel open click on the "Advanced" Tab		In the Search box above the list, type or paste tIs and pause while the list is filtered
3.	Scroll down to the bottom and under "Advanced Security Settings" check the box next to "Use TLS 1.2"	3.	Scroll down to the bottom and under "Advanced Security Settings" check the box next to "Use TLS 1.2"	4.	To disable SSL3 and requires TLS of one flavor or another, double-click security.tls.version.min and enter the desired value: • 0 = SSL 3.0 okay • 1 = at least TLS 1.0 • 2 = at least TLS 1.1
4.	Click "Apply" and close the Control Panel	4.	Click "Apply" and close the Control Panel	:	 b disable TLS of one flavor or another, double-click security.tls.version.max and enter the desired value: 0 = up to SSL 3.0 1 = up to TLS 1.0 2 = up to TLS 1.1