

EQER Transaction

Error Transaction	Error TOT	Generating TOT
External Query History Error Response	EQER	EQHR

The field requirements for these error messages are detailed in Tables D-1, E-1 and I-1.

Appendix M contains further details on contents of the Status/Error (2.060 MSG) field for error conditions.

SECTION 2 – EBTS FUNCTIONAL CHANGES

[Unchanged text not included here for brevity]

Appendix A: Transaction Response Times

A-1 NGI Maximum Transaction Response Times

Transaction	Priority	10 sec	20 sec	30 sec	2 min	5 min	10 min	15 min	30 min	1 hour	2 hours	4 hours	24 hours	48 hours	15 days
[Unchanged text not included here for brevity]															
Iris Image Identification Submission								•							
[Unchanged text not included here for brevity]															

A-2 NGI Type of Transaction By Service

SERVICE	TRANSACTION	TOT	DESCRIPTION
[Unchanged text not included here for brevity]			
Identification Services	Iris Image Identification Submission Search (Future	IIDS	Iris Image Identification Submission
[Unchanged text not included here for brevity]			
Investigation Services	Iris Image Investigation Search (Future Capability)	IIS	Iris Image Investigative Search
[Unchanged text not included here for brevity]			

Appendix C: Descriptors and Field Edit Specifications for Type-2 Logical Records

BID 2.2028 Biometric Image Description

[Unchanged text not included here for brevity]

The SMT (2.2028G) information item holds the NCIC designation code for a scar, mark, or tattoo. The SMT is required when an SMT image is to be retrieved. If the BSI (2.2028C) information item is not present, the representative biometric set(s) are retrieved for the identity specified in the Subject Identifier (SI) item. The representative set for fingerprints will be a composite fingerprint set of images, while the **representative set of any additional biometrics (i.e., supplemental fingerprint, palm print, face image, iris set)** ~~representative set of palm prints or supplemental fingerprint and palm print~~ will be the latest set enrolled.

[Unchanged text not included here for brevity]

BID Submitted Values and Results

BID Field Values Submitted	Biometric Images Returned
SI	Composite fingerprint set for the identity specified
SI, IMT	Representative set for image type specified
SI, BSI	Specific image set indicated by the BSI
SI, IMT, FNR	The friction ridge position image of the representative set for the image type specified
SI, BSI, FNR	The finger position image of the specific image set indicated by the BSI

BSI 2.2029 Biometric Set Identifier

This numeric field will uniquely identify each biometric image set or photo, such as a facial photo, a fingerprint set, a palm print set, ~~or~~ a supplemental print set **or iris set**.

CSL 2.051 Court Segment Literal

[Unchanged text not included here for brevity]

When submitting **a custody data in the Supervised Release Notification Request (SRNR)** ~~tenprint~~, use this field for custody information. In the event that there is no arrest information available when submitting **a custody data tenprint**, the COL and CDD must be copied to the corresponding AOL and DOO fields of the Arrest Segment Literal (ASL), ~~which are is mandatory in all criminal tenprint submissions.~~

[Unchanged text not included here for brevity]

FI 2.2105 Foreign Information

This field contains descriptive data related to the collection of the fingerprint capture for the FIDR TOT. The field may contain alphanumeric and special characters with a limit of 300 characters.

IMT 2.062 Image Type

[Unchanged text not included here for brevity]

IMT Values

Image Type	Value
<i>[Unchanged text not included here for brevity]</i>	
Iris (Future)	11
Fingerprints on Front of Palm Card (Future)	12
<i>[Unchanged text not included here for brevity]</i>	

MNU 2.017 Miscellaneous Identification Number

[Unchanged text not included here for brevity]

NOTE: For all U.S. Military personnel (as their Identifying Agency), the 10-digit U.S. Department of Defense Identification Number on the service member’s Identification Card or Common Access Card (CAC) will be the primary number used as one of the MNU’s. (Ex: U.S. Army, AS-0000000000).

MNU Values

Identifying Agency	Code
Air Force Serial Number , Air Force Reserve, Air National Guard	AF
Non-Immigrant Admission Number	AN
Alien Registration Number	AR
Air National Guard Serial Number , U.S. Army Serial Number , Army Reserve, Army National Guard Serial Number	AS
Bureau Fugitive Index Number	BF
Canadian Social Insurance Number	CI
U. S. Coast Guard Serial Number , Coast Guard Reserve	CG
Fingerprint Identification Number (DHS only)	FN
Identification Order Number	IO
U.S. Marine Corps Serial Number , Marine Corps Reserve	MC
Mariner’s Document or Identification Number	MD

SECTION 2 – EBTS FUNCTIONAL CHANGES

RCMP Identification or Fingerprint Section Number	MP
National Agency Case Number	NA
U.S. Navy Serial Number, Navy Reserve	NS
Originating Agency Police or Identification Number	OA
Personal Identification Number (State Issued Only)	PI
Passport Number (U.S. Only)	PP
Port Security Card Number	PS
Selective Service Number	SS
Veterans Administration Claim Number	VA

POC 2.2072 Point of Contact

This grouped field contains contact information associated with a biometric/identity enrolled in the RISC or SPC file. It is composed of two information items:

- A. Name (organization or person)
- B. Phone Number

Note: For those submissions containing a Tier Level of 2 (Contact Information Only) in the 2.2046 TLI field, the 2.2072 POC field will be required on the submission.

RAP 2.070 Request for Electronic Rap Sheet

The purpose of this field is to allow the contributor to optionally request an electronic Identity History Summary (IdHS) of the identity. An NIDR is returned if the submission results in a non-identification. A ‘Y’ in this field indicates that **a text IdHS is desired**, an ‘X’ indicates that **an XML Rapsheet response is desired**, while an omitted field or an ‘N’ in this field indicates that no IdHS should be returned with the response.

RBC 2.2065 Rap Back Category

[Unchanged text not included here for brevity]

RBC Values

Rap Back Category	Category Code	Purpose Code
<i>[Unchanged text not included here for brevity]</i>		

RBT 2.2040 Rap Back Trigger

[Unchanged text not included here for brevity]

SECTION 2 – EBTS FUNCTIONAL CHANGES

RBT Values

RBT Code Value	Format Description
1	Criminal Retain Submission
2	Dispositions
3	Civil Retain Submission
4	Expungement/Partial Expungement
5	Want Addition
6	Want Deletion
7	Want Modification
8	Sexual Offender Registry Addition
9	Sexual Offender Registry Deletion
10	Sexual Offender Registry Modification
11	External
12	Death Notices with Fingerprints
13	Death Notices without Fingerprints
13 14-40	Reserved for FBI Future Use

SRF 2.059 Search Results Findings

[Unchanged text not included here for brevity]

SRF Values

Value	Definition	TOT
C	Inconclusive	BDEC, LSR
D	Deferred for manual processing	FDSP -SRE (FDSP)
G	Green - No Hit	RPISR
I	Identification	BDEC, LSR, SRE (IIDS) , SRE
M	Match of Images Submitted	FVR -SRE (FVR)
N	Non-Identification	BDEC, LSR, SRE (IIDS) , SRE
P	Pending Verification of Identification	BDEC, LSR
R	Red - Hit on Potential Candidate, High Confidence Match	RPISR, UHN
Y	Yellow - Probable Candidate, Potential Match	RPISR, UHN, BDEC
X	Not a Match of Images Submitted	FVR -SRE (FVR)
Z	Disposition posted but no biometric search was performed.	FDSP -SRE (FDSP)

TLI 2.2046 Tier Level Indicator

[Unchanged text not included here for brevity]

TLI Values

Definition	Code
Share ALL	1
Share POC (ATN) Limited Sharing	2
Silent Hit	3
Limited Sharing – Not Foreign Dissemination	4
Federal Sharing	5

Appendix C: Descriptors And Field Edit Specifications For Type-2 Logical Records

[Unchanged text not included here for brevity]

SECTION 2 – EBTS FUNCTIONAL CHANGES

Table C-1 Field Edit Specifications for Type-2 Elements

Field Number	Identifier	Field Name	Character	Field Size		Occurrences		Example	Comments/Special Characters
				(not including Character Separators)		Min ¹	Max		
				Min	Max				
<i>[Unchanged text not included here for brevity]</i>									
2.2030	PPD	PRINT POSITION DESCRIPTOR	SET				+10	2.2030:02{US}FV1{GS}	
A	FGP	FRICTION RIDGE GENERALIZED POSITION	N	1	2	1	1		
B	FIC	FFFINGER IMAGE OCDE	AN	3	3	1	1		
2.2105	FI	FOREIGN INFORMATION	ANS	1	300		999	2.2105:CAPTURED DURING RAID{GS}	

Appendix D: Summary of Logical Record Layouts for Type-2 Identification and Verification Transactions

[Unchanged text not included here for brevity]

SECTION 2 – EBTS FUNCTIONAL CHANGES

Table D-1 Summary of Field Lists for Identification and Verification Transactions
(Minimum/Maximum Occurrences of Each Element for Each Logical Record Type)

Tag Elem	AMN	CAR	CNA	CPDR	CPNU	DEK	DEU	DOCE	EMUF	ERRT	FANC	FAUF	FDSP	FIDR	FNDR	FVR
<i>[Unchanged text not included here for brevity]</i>																
2.054 SSD		0..1	0..1	0..1	0..1											
2.055 SLE		0..1 ⁹	0..1 ⁹	0..1 ⁹	0..1 ⁹											
<i>[Unchanged text not included here for brevity]</i>																
2.2007 SDOB										1 ^{FE+}						
2.2008 SNAM										1 ^{FE+}						
<i>[Unchanged text not included here for brevity]</i>																
2.2105 FI														0..999		

Tag Elem	HDS
2.001 LEN	1
2.002 IDC	1
2.006 ATN	0..1
2.007 SCO	0..9
2.009 OCA	0.1
2.014 FBI	0..1
2.015 SID	0..1
2.017 MNU	0..4
2.018 NAM	0..1
2.070 RAP	0..1
2.073 CRI	1..3
2.096 RPR	0..1

Tag Elem	SRE
2.088 NOT	0..1
2.2023 SII	0..1

Appendix D – Reference Notes

1. For this transaction, this field must contain a ‘Y’.
2. The DOO portion of this field is optional, but should be provided if known. ASL is required when the submission contains a RET = ‘Y’.
3. This field is mandatory for applicant submissions from DIS and OPM.
4. It is obviously not expected that full Name and Date of Birth of Unknown Deceased and Amnesia victims will be known. These fields, however, must be submitted with formatted information.
5. FBI number must be present if known for inquiry prints.
6. Field is mandatory if fingerprint submission is from an NFF State.
7. This field is mandatory if any finger is either amputated or a rolled impression was not made.
8. An UCN may be returned depending upon transaction results. No FBI number is returned when none is assigned (e.g., Non-Identification with RET = ‘N’). UCN will be returned for any submission resulting in an Identification against the Criminal File or when a Non-Identification results in an add to the Criminal File or Civil file.
- ~~9. CSL must be included where submission includes SLE.~~
- ~~10.9.~~ This field will be returned in the response if subject identification is made.
- ~~11.10.~~ Field is optional unless Identification has been made and subject criminal history was requested in submission.
- ~~12.11.~~ CDD and CCT are mandatory fields for this TOT.

~~FC1. Tag elements 2.2007 SDOB and 2.2008 SNAM will be added to the ERRT as mandatory with 1 occurrence (Future Capability effective 10/2018).~~

Appendix E: Summary of Logical Record Layouts for Type-2 Investigation, Information, And Notification Transactions

[Unchanged text not included here for brevity]

SECTION 2 – EBTS FUNCTIONAL CHANGES

Table E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions

Tag Elem	RBRPTR	SPN	SRB	SRL	SRT	TPIS	TPRS	TPRR	TXTSRCH	UBM	UHN	ULM	UUBD	UULD
<i>[Unchanged text not included here for brevity]</i>														
2.084 AMP		0..13			0..13	0..13 ²	0.13 ²					0..13		
<i>[Unchanged text not included here for brevity]</i>														

¹ The number of candidates returned may be less than the maximum specified as a result of thresholds determined by trade study tests and the algorithm used to determine potential matches.

² This field is mandatory if any finger is either amputated or a rolled impression was not made.

Appendix F: FBI/CJIS Image Quality Specifications

[Unchanged text not included here for brevity]

F-5 Mobile ID IQS Requirements

Fingerprint Acquisition Profile (FAP)	Minimum Image Dimensions (WxH in inches)	IQS Specification Requirements	Simultaneous # of Fingers
10	0.5 x 0.65	PIV	1
20	0.6 x 0.8	PIV	1
30	0.8 x 1.0	PIV	1
40	1.6 x 1.5	PIV	1-2
45	1.6 x 1.5	App F	1-2
50	3.2 x 2.0	App F	1-4
60	3.2 x 3.0	App F	1-4

NOTE: Although the RISC will accept submissions from Mobile Fingerprint Scanners that do not meet these requirements, the FBI/CJIS Division reserves the right to enforce these, or any other, scanner requirements deemed necessary to meet accuracy levels established by the FBI/CJIS Division’s Advisory Policy Board. NGI RISC participants should refer to the FBI/CJIS Biometric Specification (<https://www.fbibiospecs.cjis.gov>) ~~IAFIS~~ Certified Products List/Mobile ID Category for a list of mobile identification devices which have been certified by the FBI/CJIS as tested and in compliance with the FBI/CJIS’s Next Generation Identification (NGI) initiatives and ~~Integrated Automated Fingerprint Identification System (IAFIS)~~ Image Quality Specifications (IQS). The certification process is not intended to endorse one product over a competitor’s product but merely to certify that the product meets FBI/CJIS standards and that, between two products that meet FBI/CJIS standards, the FBI/CJIS does not recommend one over the other.

[Unchanged text not included here for brevity]

Appendix I: Summary of Logical Record Layouts For Type-2 Data Management Transactions

[Unchanged text not included here for brevity]

SECTION 2 – EBTS FUNCTIONAL CHANGES

I-1 Summary of Field Lists for Data Management Transactions
(Minimum/Maximum Occurrences of Each Element for Each Logical Record Type)

Tag Element	BDEC	BDECR	BDEL	BDELR	CDEL	CDELR	CPD	DSPE	DSPR	ERRA	FIS	FISR	PDR	RBSCRM	RBSCVL
<i>[Unchanged text not included here for brevity]</i>															
2.084 AMP											0..13 ³				0..13 ³
<i>[Unchanged text not included here for brevity]</i>															

³This Field is mandatory if any finger is either amputated or a rolled impression was not made.

Tag Element	RBSR	RBMNT	RBMNTR	SPMNT	SPMNTR	SRNR	SRNRR	ULD	ULDR	XACT	XACTR	XMNT	XMNTR
<i>[Unchanged text not included here for brevity]</i>													
2.009 OCA	0..1			0..1	0..1	0..1							
<i>[Unchanged text not included here for brevity]</i>													
2.055 SLE						0..1							
<i>[Unchanged text not included here for brevity]</i>													
2.084 AMP				0..13 ³									
<i>[Unchanged text not included here for brevity]</i>													

[Unchanged text not included here for brevity]

³This Field is mandatory if any finger is either amputated or a rolled impression was not made.

Appendix K: Descriptors And Field Edit Specifications For Type-10 Logical Records

Type-10 Data Dictionary

[Unchanged text not included here for brevity]

RSV 10.200 – 10.249 Reserved For Future Use

Reserved

RSV 10.351 – 10.400 Reserved For Future Use

Reserved

Appendix L: Summary Tables

[Unchanged text not included here for brevity]

L-1 Complete Element Cross-Reference List by Tag Number

EBTS Tag Number	Element ID	Element Name
2.0001 – 2.0099	RSV	FBI USE
2.0100 – 2.0208	RSV	CA USE
2.0210 – 2.0234	RSV	MA USE
2.0235 – 2.0269	RSV	PA USE
2.0300 – 2.0309	RSV	CA USE
2.0310 – 2.0379	RSV	IL USE
2.0380 – 2.0399	RSV	KING CO, WA USE
2.0400 – 2.0409	RSV	CA USE
2.0410 – 2.0460	RSV	TX USE
2.0475 – 2.0530	RSV	WESTERN IDENTIFICATION NETWORK USE
2.0531 – 2.0542	RSV	NC USE
2.0550 – 2.0589	RSV	FL USE
2.0590 – 2.0609	RSV	WESTERN IDENTIFICATION NETWORK USE
2.0610 – 2.0650	RSV	VA USE
2.0700 – 2.0750	RSV	ME USE
2.0700 – 2.0750	RSV	LA USE
2.0751 – 2.0799	RSV	WASHINGTON STATE POLICE USE
2.0800 – 2.0899	RSV	ROYAL CANADIAN MOUNTED POLICE USE
2.0900 – 2.0999	RSV	WESTERN IDENTIFICATION NETWORK USE
2.1000 – 2.1099	RSV	NY USE
2.1100 – 2.1399	RSV	DEPARTMENT OF DEFENSE USE
2.1400 – 2.1499	RSV	NIST – OLES – LITS STANDARD
2.2000 – 2.7999	RSV	FBI USE

SECTION 2 – EBTS FUNCTIONAL CHANGES

2.8000 – 2.999	RSV	DEPARTMENT OF DEFENSE USE
2.2105	FI	FOREIGN INFORMATION
10.200 – 10.249	RSV	RESERVED FOR FUTURE USE
10.250 – 10.349	UDF	USER DEFINED FIELDS
10.351 – 10.400	RSV	RESERVED FOR FUTURE USE
10.401 – 10.900	UDF	USER DEFINED FIELDS
13.200 – 13.400	RSV	RESERVED FOR FUTURE USE
13.401 – 13.900	UDF	USER DEFINED FIELDS
14.201 – 14.400	RSV	RESERVED FOR FUTURE USE
14.401 – 14.900	UDF	USER DEFINED FIELDS
15.201 – 15.400	RSV	RESERVED FOR FUTURE USE
15.401 – 15.900	UDF	USER DEFINED FIELDS
16.200 – 16.400	RSV	RESERVED FOR FUTURE USE
17.001	LEN	LOCIGAL RECORD LENGTH
17.002	IDC	INFORMATION DESIGNATION CHARACTER
17.003	ELR	EYE LABEL
17.004	SRC	SOURCE AGENCY
17.005	ICD	IRIS CAPTURE DATE
17.006	HLL	HORIZONTAL LINE LENGTH
17.007	VLL	VERTICAL LINE LENGTH
17.008	SLC	SCALE UNITS
17.009	THPS	TRANSMITTED HORIZONTAL PIXEL SCALE
17.010	TVPS	TRANSMITTED VERTICAL PIXEL SCALE
17.011	CGA	COMPRESSION ALGORITHM
17.012	BPX	BITS PER PIXEL
17.013	CSP	COLOR SPACE
17.014	RAE	ROTATION ANGLE OF EYE
17.015	RAU	ROTATION UNCERTAINTY
17.016	IPC	IMAGE PROPERTY CODE
17.017	DUI	DEVICE UNIQUE IDENTIFER
17.019	MMS	MAKE/MODEL/SERIAL NUMBER
17.020	ECL	EYE COLOR
17.021	COM	COMMENT
17.025	EAS	EFFECTIVE ACQUISITION SPECTRUM
17.028	DME	DAMAGED OR MISSING EYE
17.031	IAP	SUBJECT ACQUISITION SPECTRUM
17.032	ISF	IRIS STORAGE FORMAT
17.200 – 17.400	RSV	RESERVED FOR FUTURE USE
17.999	DAT	DATA
18.200 – 18.400	RSV	RESERVED FOR FUTURE USE
19.200 – 19.400	RSV	RESERVED FOR FUTURE USE

SECTION 2 – EBTS FUNCTIONAL CHANGES

L-2 Record Set Requirements Summary by Type of Transaction

Transaction	Enrollment TOT	T1	T2	T4 ¹	T7	T9	T10	T13	T14 ³	T15 ²	T17 ²
Identification Service Transactions											
[Unchanged text not included here for brevity]											
DEPARTMENTAL ORDER CHANNELING ELECTRONIC	DOCE	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
ELECTRONIC IN/MANUAL OUT USER FEE	FMUF	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
FEDERAL APPLICANT (NO CHARGE)	FANC	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
FEDERAL APPLICANT USER FEE	FAUF	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
FEDERAL NO CHARGE DIRECT ROUTE	FNDR	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
NON-FEDERAL NO CHARGE DIRECT ROUTE	NNDR	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
NON-FEDERAL USER FEE EXPEDITE	NFUE	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
NON-FEDERAL APPLICANT USER FEE	NFUF	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
MISCELLANEOUS APPLICANT CIVIL	MAP	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
KNOWN DECEASED	DEK	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
UNKNOWN DECEASED	DEU	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
MISSING PERSON	MPR	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
AMNESIA VICTIM	AMN	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
[Unchanged text not included here for brevity]											
ELECTRONIC FINGERPRINT DISPOSITION SUBMISSION	FDSP	1	1	0-14	0-2	0	0	0	0-46	0-10	0-2
IRIS IMAGE IDENTIFICATION SEARCH (FUTURE CAPABILITY)	IIDS	1	1	0	0	0	0	0	0	0	2
[Unchanged text not included here for brevity]											
Investigation Search Transaction											
[Unchanged text not included here for brevity]											
IRIS IMAGE INVESTIGATION SEARCH (FUTURE CAPABILITY)	IIS	1	1	0	0	0	0	0	0	0	1
[Unchanged text not included here for brevity]											

SECTION 2 – EBTS FUNCTIONAL CHANGES

L-3 Record Set Requirements Summary by Type of Response

Transaction	TOT	T1	T2	T4*	T7	T9	T10	T13	T14*	T15**	T17**
Identification Service Responses											
RAPID FINGERPRINT IDENTIFICATION SEARCH RESPONSE	RPISR	1	1-2	0	0	0	0-2	0	0	0	0
SUBMISSION RESULTS - ELECTRONIC	SRE	1	1	0	0	0	0-1	0	0	0	0
LATENT SUBMISSION RESULTS	LSR	1	1	0	0	0	0	0	0	0	0
TENPRINT TRANSACTION ERROR	ERRT	1	1	0	0	0	0	0	0	0	0
BIOMETRIC SEARCH ERROR	ERRB	1	1	0	0	0	0	0	0	0	0
Investigative Services Responses											
Search Results - Biometri	SRB	1	1	0	0	0	0-50	0	0	0	0-51

L-4 Transaction/Response/Error TOT Correspondence

Transaction	TOT	Response TOTs	Error TOTs
Identification Service Transactions			
[Unchanged text not included here for brevity]			
IRIS IMAGE IDENTIFICATION SEARCH (FUTURE CAPABILITY)	IIDS	SRE	ERRB
[Unchanged text not included here for brevity]			
Identification Service Transactions			
[Unchanged text not included here for brevity]			
IRIS IMAGE INVESTIGATION SEARCH (FUTURE CAPABILITY)	IIS	SRB	ERRT
[Unchanged text not included here for brevity]			

SECTION 2 – EBTS FUNCTIONAL CHANGES

L-5 Record Type Fields Allocated by the FBI

Record Type Number	Fields Allocated by the FBI	Element ID	Element Name
Type-2 (NGI)	2.0001 – 2.0099	RSV	FBI USE
Type-2 (NGI)	2.0100 – 2.0208	RSV	CA USE
Type-2 (NGI)	2.0210 – 2.0234	RSV	MA USE
Type-2 (NGI)	2.0235 – 2.0269	RSV	PA USE
Type-2 (NGI)	2.0300 – 2.0309	RSV	CA USE
Type-2 (NGI)	2.0310 – 2.0379	RSV	IL USE
Type-2 (NGI)	2.0380 – 2.0399	RSV	KING CO, WA USE
Type-2 (NGI)	2.0400 – 2.0409	RSV	CA USE
Type-2 (NGI)	2.0410 – 2.0460	RSV	TX USE
Type-2 (NGI)	2.0475 – 2.0530	RSV	WESTERN IDENTIFICATION NETWORK USE
Type-2 (NGI)	2.0531 – 2.0542	RSV	NC USE
Type-2 (NGI)	2.0550 – 2.0589	RSV	FL USE
Type-2 (NGI)	2.0590 – 2.0609	RSV	WESTERN IDENTIFICATION NETWORK USE
Type-2 (NGI)	2.0610 – 2.0650	RSV	VA USE
Type-2 (NGI)	2.0700 – 2.0750	RSV	ME USE
Type-2 (NGI)	2.0700 – 2.0750	RSV	LA USE
Type-2 (NGI)	2.0751 – 2.0799	RSV	WASHINGTON STATE POLICE USE
Type-2 (NGI)	2.0800 – 2.0899	RSV	ROYAL CANADIAN MOUNTED POLICE USE
Type-2 (NGI)	2.0900 = 2.0999	RSV	WESTERN IDENTIFICATION NETWORK USE
Type-2 (NGI)	2.1000 – 2.1099	RSV	NY USE
Type-2 (NGI)	2.1100 – 2.1399	RSV	DEPARTMENT OF DEFENSE USE
Type-2 (NGI)	2.1400 – 2.1499	RSV	NIST – OLES – LITS STANDARD
Type-2 (NGI)	2.2000 – 2.7999	RSV	FBI USE
Type-2 (NGI)	2.8000 – 2.999	RSV	DEPARTMENT OF DEFENSE USE
Type-10 (Photo)	10.200 – 10.249	RSV	RERSERVED FOR FUTURE USE
Type-10 (Photo)	10.351 – 10.400	RSV	RERSERVED FOR FUTURE USE
Type-13 (Latent)	13.200 – 13.400	RSV	RERSERVED FOR FUTURE USE
Type-14 (Fingerprint)	14.200	ISC	IMAGE SOURCE CODE
Type-14 (Fingerprint)	14.201 – 14.400	RSV	RERSERVED FOR FUTURE USE
Type-15 (Palm)	15.200	ISC	IMAGE SOURCE CODE
Type-15 (Palm)	15.201 – 15.400	RSV	RERSERVED FOR FUTURE USE
Type-16 (Test)	16.200 – 16.400	RSV	RERSERVED FOR FUTURE USE
Type-17 (Iris)	17.200 – 17.400	RSV	RERSERVED FOR FUTURE USE
Type-18 (DNA)	18.200 – 18.400	RSV	RERSERVED FOR FUTURE USE
Type-19 (Foot)	19.200 – 19.400	RSV	RERSERVED FOR FUTURE USE

Appendix M: Transactions Messages

[Unchanged text not included here for brevity]

An up-to-date list of transaction message codes can be located at <https://fbibiospecs.cjis.gov/EBTS/TransactionMessage>

SECTION 2 – EBTS FUNCTIONAL CHANGES

M-1 Transaction Message

Code	Condition for Message	Description	Count	Insert #1	Insert #2	Insert #3
IR001	Mislabeled Images - Enrollment	The biometric image enrollment contains mislabeled images (ex. 2 right eyes). The iris images were not enrolled.				
IR002	Missing Type-17 - Enrollment	The biometric image enrollment requires 2 Type 17 records to be submitted. Only one was submitted.				
IR003	No Enrollment Images	The biometric image enrollment requires at least one iris image. No images were provided.				
IR004	Unable to Generate Templates - Enrollment	The submitted iris image(s) were not enrolled. Templates could not be created for the submitted image(s).				
IR005	Unable to Template One Image - Enrollment	One of the submitted iris images was not enrolled. A template could not be created for image. %1 %2		ELR	Field Value	
IR006	Below Quality Threshold - Enrollment	The submitted iris image(s) fail to meet NGI Minimum Iris Image Quality Standards and were not enrolled.				
IR007	Below Quality Threshold One Image - Enrollment	One of the submitted iris images fails to meet NGI Minimum Iris Image Quality Standards and was not enrolled. %1 %2		ELR	Field Value	
IR008	Invalid AUD - Enrollment	Could not enroll iris images. UCN %1 is not criminal.		UCN		
IR009	Missing Iris Image - Search	The biometric search contains only one iris image. %1 %2 did not contain an image. Search was performed using only one iris image.		ELR	Field Value	
IR010	No Search Images	The biometric search requires at least one iris image. No images were provided.				
IR011	Mislabeled Images - Search	The biometric search included mislabeled images (ex. 2 right eyes). Search was performed using the mislabeled images.				

SECTION 2 – EBTS FUNCTIONAL CHANGES

IR012	Unable to Generate Templates - Search	The biometric search was not performed. Templates could not be created for the submitted images.				
IR013	Unable to Template One Image - Search	One of the submitted iris images was not searched. A template could not be created for image. %1 %2		ELR	Field value	
IR014	Below Quality Threshold - Search	The submitted iris images fail to meet NGI Minimum Iris Image Quality Standards and were not searched.				
IR015	Below Quality Threshold One Image - Search	One of the submitted iris images fails to meet NGI Minimum Iris Image Quality Standards and was not included in the search. %1 %2		ELR	Field value	
IR016	Missing Iris Image – Enrollment	The biometric image enrollment contains only one iris image. %1 %2 did not contain an image.		ELR	Field value	
IR017	Manual Review - Search	The submitted search requires CJIS to adjudicate results.				
IR018	Non-Ident Quoted UCN	The submitted iris images identified to a different UCN than provided.				
IR019	Undefined Eye - Enrollment	The submitted iris images contain an undefined eye position (ELR). The biometric image enrollment must be a known eye position. The iris images were not enrolled.				
IR020	Deceased UCN - Search	The submitted search resulted in an identification to an identity that has been confirmed deceased by %1 on %2		ORI	DOD	
IR021	Missing DME – Enrollment	The biometric image enrollment does not contain an iris image and no reason given (missing 17.028 DME field). The iris images were not enrolled.				
IR022	National Security – Enrollment	The biometric image enrollment is associated with a National Security-type record. The submitted iris images were not enrolled.				

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‡L0008	Characteristics quality low	The quality of the characteristics is too low to be used. ¹ The quality of the characteristics is too low to be used. Candidate(s) were found. Please resubmit a new set of fingerprints for comparison to the candidates(s). ²	0			
L0062	Reject Count Not Found	The element of %1 provided for reference in this maintenance request is not present in this record.	1	CCT #		
‡L0116	Fingerprint Pattern Quality Error	Fingerprint pattern(s) not discernable	0			
‡L0117	Fingerprint Pattern Area Error	Insufficient pattern area(s) recorded for identification purposes	0			
‡L0118	ITN Image Quality/Sequence Error	Erroneous or incomplete fingerprint(s) on images, fingers or hands out of sequence, printed twice, missing, and not reason given.	0			
L0183	Mandatory UCN not provided on subsequent arrest submission from A-NFF state	Necessary to differentiate when ANFF states are not complying with the NFF Quals to provide UCN on 2nd or subsequent criminal submissions.	0			
L0185	Multiple Images	Rolled and/or plain fingerprint block(s) contain multiple images. See finger(s).	0			
L0186	Multiple Subject	Rolled and/or plain fingerprint image appears to be from multiple subjects. See finger(s).	0			
L0187	Invalid Plain Impressions	Plain impressions are not printed simultaneously and/or same hand printed twice in plains. See finger(s).	0			
L0188	Invalid Pattern Area	Fingerprint image contains shadowing/gray areas with ridge detail throughout or surrounding the pattern area. See finger(s).	0			
L0189	Invalid Pattern Area	Fingerprint image contains text and/or lines running through the pattern area. See finger(s).	0			
L0191	Non Visible Plains	Non Visible Plains Fingerprint images not visible/printed in the plain impression block(s). Unable to determine correct sequence. See finger(s) 0	0			

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M0011	Biometric Sample Quality Below Threshold	The %1 biometric for UCN %2 fails to meet NGI Minimum Image Quality Standards and has not been enrolled	2	IMT	UCN	
M0012	Biometric Sample Failed Validation	The %1 biometric for UCN %2 has failed validation with Fingerprints on file and was not enrolled The palm print biometric for UCN %1 has failed segmentation or validation with fingerprints on file.	2	IMT	UCN	
M0058	The palm print image is distorted/smeared/blurred	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) is distorted/smeared/blurred.	1	UCN		
M0059	The palm print image is a plain impression	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) is a plain impression.	1	UCN		
M0060	The palm print image(s) is mislabeled	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) is mislabeled.	1	UCN		
M0061	The palm print image is missing all fingers	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) is missing all fingers.	1	UCN		
M0062	The palm print image contains multiple/overlaid images	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) contains multiple/overlaid images.	1	UCN		
M0063	The palm print image contains insufficient ridge detail	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) contains insufficient ridge detail.	1	UCN		

SECTION 2 – EBTS FUNCTIONAL CHANGES

M0064	The palm print images contain a scanning error	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) contains a scanning error.	1	UCN		
M0065	The palm print images contain white/gray/blank box	The palm print biometric for UCN %2 has failed segmentation or validation with fingerprints on file; The palm print image(s) contains white/gray/blank box.	1	UCN		
M0066	The palm print images are associated with a Non-Ident/Non-Retain tenprint	The palm print biometric for UCN%2 is associated with a Non-Ident/Non-Retain tenprint and was not enrolled.	1	UCN		

[Unchanged text not included here for brevity]

* ~~These error messages will include a formatted response reflecting “Candidates(s) were found. Please resubmit a new set of fingerprints for comparison to the candidate(s).” when a candidate was associated with the submission.~~

¹ ~~A name check request should not be submitted~~

² ~~A name check can be submitted after second submission~~

Appendix N: Descriptors And Field Edit Specifications For Type-14 Logical Records*[Unchanged text not included here for brevity]***Type-14 Data Dictionary***[Unchanged text not included here for brevity]***RSV 14.201 – 14.400 Reserved For Future Use**

Reserved

Appendix O: Place of Birth (POB) Code Table*[Unchanged text not included here for brevity]*

Table O-1 POB Code			
CODE	CTZ	DESCRIPTION	DATE AHEAD FLAG
BP	*	Bosnia (Herzegovenia , for Reference only)	
CK	*	Czechoslovakia	
FT		Eastern Shoshone Tribe WY	
FU		Ely Shoshone Tribe of NV	
FV		Paiute- Shoshone Tribe of the Fallon Rsvn and Colony, NV	
FW		Flandreau Santee Sioux Tribe of SD	
HC	*	Herzegovenia	
HN	*	New Hebrides (now Vanuatu)	
IZ		Kootenai Tribe of ID	
JX		Mississippi Band of Choctaw Indians	
KF		Nez Perce Tribe, ID (Frmrly Listed Nex Perce Tribe of ID)	
KQ		Ohkay Owingeh, NM (Formerly the Pueblo of San Juan)	
PC		Pitcairn, Henderson, Ducie, and Oeno Islands	
QV		Shoshone -Bannock Tribes of the Fort Hall Rsvn of ID	
QW		Shoshone -Paiute Tribes of the Duck Valley Rsvn of NV	
RX		Te-Moak Tribe of W. Shoshone Indians of NV	
SJ	*	South- West Africa (Namibia)	
UC		Turtle Mtn Band of Chippewa Indians of ND	
UI		Tunica -Biloxi Indian Tribe of LA	
UU		Wampanoag Tribe of Gay Head (Aquinnah) of MA	
VF		Yakama Nation, WA	
WM		Duckwater Shoshone Tribe of the Duckwater Rsvn, NV	

WP		Fort McDermitt Paiute & Shoshone Tribes of F.M. Indians Rsvn, NV & OR	
YZ		Northwestern Band of Shoshoni Nation of UT (Washakie)	

Appendix R: Descriptors And Field Edit Specifications For Type-13 Logical Records

[Unchanged text not included here for brevity]

Type-13 Data Dictionary

[Unchanged text not included here for brevity]

RSV 13.200 – 13.400 Reserved For Future Use

Reserved

Appendix S: Descriptors And Field Edit Specifications For Type-17 Logical Records

This appendix contains the descriptors and field specifications for Type-17 logical records, defined by ANSI/NIST-ITL, as iris image records.

Iris enrollment requires an iris set, defined as two Type-17 iris image records, be submitted with a CAR, FIS, CNA, CPNU, or CPDR transaction. For detailed information pertaining to the enrollment of iris images into the NGI, please review the NGI Iris Service Policy and Implementation Guide located at <<https://www.fbibiospecs.cjis.fbi/Iris>>.

Refer to the ANSI/NIST-ITL for complete usage and descriptions of the Type-17 fields. The Data Dictionary in this appendix has been organized to display Identifier, Field Number, Field Name, and Field Description.

Type-17 Data Dictionary

The Type-17 Data Dictionary only includes those fields that have been constrained by NGI/CJIS functionality. All other fields defined in the ANSI/NIST-ITL will be used as defined in that standard.

NGI/CJIS accepts two different configurations for the Type-17 record. One is used when an iris image is present and the other when an image is absent. The exact layout, including allowed fields can be found in table S-1 and S-2 of this appendix.

ELR 17.003 Eye Label

This field is mandatory for all iris transactions submitted to NGI for enrollment or search. For enrollment TOTs, (1) an ELR value of '0' for 'unknown' is not permissible, and (2) mislabeled iris images (i.e. two right eyes) will cause the iris records to be rejected. For an IIDS with mislabeled iris images within the Type-17 records, the transaction will be processed but an error message

will be returned along with the search response.

CGA 17.011 Compression Algorithm

This field is mandatory if an image is present in Field 17.999. It shall specify the algorithm used to compress the transmitted iris image. Permitted values for this field are “NONE”, “PNG”, “JP2”, and “JP2L”. Lossless compression or no compression is preferred to preserve image quality. Typically, image submissions use the PNG format.

Note that the baseline JPEG algorithm (*ISO/IEC 10918*) is not acceptable for iris images and shall not be used.

CSP 17.013 Color Space

This field is mandatory if an image is present in Field 17.999. The NGI/CJIS restricted value for Field 17.025 EAS is “NIR”; therefore this field is restricted to “GRAY”.

MMS 17.019 Make/Model/Serial Number

This field is mandatory if an image is present in Field 17.999. The MMS contains the make, model, and serial number for the capture devices. Each information item shall be 1 to 50 characters. Any or all information items may indicate that information is unknown with the value “0”.

ECL 17.020 Eye Color

This optional field is used to record the subject’s eye color as it appears in the image. Due to restrictions for fields 17.013 CSP and 17.025 EAS, which only permit gray scale iris images, the only NGI/CJIS acceptable value for ECL shall be “XXX.”

EAS 17.025 Effective Acquisition Spectrum

This optional field indicates the acquisition spectrum used in capturing the iris image. NGI/CJIS transactions are restricted to the “NIR” (near-infrared) value.

DME 17.028 Damaged or Missing Eye

This field is mandatory for all iris transactions submitted to NGI for enrollment or search when either the left or right iris image cannot be captured. Enrollment TOTs not following this requirement will be rejected. The IIDS TOT will still process, but an error message will be returned along with the search results. This field shall contain a code from the Missing and Damaged Eye Codes below. “UC” should be entered if the eye is physically present, but a usable iris image cannot be captured. An example is when the eye is swollen shut due to injury.

SECTION 2 – EBTS FUNCTIONAL CHANGES

Missing and Damaged Eye Code

Descriptor	Code
Missing or Artificial Eye	MA
Unable to Capture Image	UC

S-1 Iris Transaction with Image

Filed Number	Identifier	Field Name	EBTS Value Constraints	Min	Max
17.001	LEN	Logical Record Length		1	1
17.002	IDC	Information Designation Character		1	1
17.003	ELR	Eye Label	“1” or “2”	1	1
17.004	SRC	Source Agency		1	1
17.005	ICD	Iris Capture Date		1	1
17.006	HLL	Horizontal Line Length		1	1
17.007	VLL	Vertical Line Length		1	1
17.008	SLC	Scale Units		1	1
17.009	THPS	Transmitted Horizontal Pixel Scale		1	1
17.010	TVPS	Transmitted Vertical Pixel Scale		1	1
17.011	CGA	Compression Algorithm		1	1
17.012	BPX	Bits Per Pixel		1	1
17.013	CSP	Color Space	“GRAY”	1	1
17.014	RAE	Rotation Angle of Eye		0	1
17.015	RAU	Rotation Uncertainty		0	1
17.016	IPC	Image Property Code		0	1
a	IHO	Horizontal Orientation Code		1	1
b	IVO	Vertical Orientation Code		1	1
c	IST	Specific Scan Type		1	1
17.017	DUI	Device Unique Identifier		0	1
17.019	MMS	Make/Model/Serial Number		1	1
a	MAK	Make		1	1
b	MOD	Model		1	1
c	SER	Serial Number		1	1
17.020	ECL	Eye Color	“XXX”	0	1
17.021	COM	Comment		0	1
17.025	EAS	Effective Acquisition Spectrum	“NIR”	0	1
17.031	IAP	Subject Acquisition Profile - Iris		0	1
17.032	ISF	Iris Storage Format		0	1
17.999	DAT	Data		1	1

S-2 Iris Transaction without Image

Filed Number	Identifier	Field Name	EBTS Value Constraints	Min	Max
17.001	LEN	Logical Record Length		1	1
17.002	IDC	Information Designation Character		1	1
17.003	ELR	Eye Label	“1” or “2”	1	1
17.004	SRC	Source Agency		1	1
17.005	ICD	Iris Capture Date		1	1
17.017	DUI	Device Unique Identifier		0	1
17.019	MMS	Make/Model/Serial Number		0	1
a	MAK	Make		1	1
b	MOD	Model		1	1

SECTION 2 – EBTS FUNCTIONAL CHANGES

c	SER	Serial Number		1	1
17.021	COM	Comment		0	1
17.028	DME	Damaged or Missing Eye	“MA” or “UC”	1	1

Appendix AC: Acronyms

Acronym	Description
<i>[Unchanged text not included here for brevity]</i>	
IIS	Iris Image Investigation Search
<i>[Unchanged text not included here for brevity]</i>	

SECTION 3 – AGGREGATE LIST OF CHANGES

Section 3 – Aggregate List of Changes

This section records the changes made for EBTS 11.0.

EBTS	Date
11.0	4/16/20

Section	TOU Number	Change
1.9 Specific Changes to this Version	11.0	Removed references to previous versions of the EBTS
3.1.1.1 CAR		Updated first paragraph
3.1.1.2 CNA		Updated first paragraph
3.1.1.9 FIDR		Updated first paragraph
3.1.1.22 ERRT		Section moved to 3.7.6 ERRT
3.1.5 Iris Identification Search Submission		Removed (Future Capability) from title
3.1.5.1 IIDS		Removed (Future Capability) from title
3.1.5.2 IIDS - SRE		Section added
3.3.1.1 IRQ		Added “10. Iris Images” to list
3.3.2.3 ERRI		Section moved to 3.7.3 ERRI
3.4.5 Iris Image Investigation Search Submission		Section removed
3.4.5.1 IIIS		Section removed
3.4.6 Biometric Investigation Submission		Section and subsections renumbered to 3.4.5
3.4.6.3 EQER		Section moved to 3.7.7 EQER
3.4.6.4 EQRR		Section renumbered to 3.4.5.3 EQRR
3.4.6.5 ERRR		Section moved to 3.7.5 ERRR
3.6.15 SPMNT		Removed “Tier 2” from first paragraph
3.6.20 RBSCVL		Updated first paragraph
3.7 Error Message Format		Added sections 3.7.1 ERRA, 3.7.2 ERRB, 3.7.3 ERRI, 3.7.4 ERRL, 3.7.5 ERRR, 3.7.6 ERRT, and 3.7.7 EQER
Appendix A		Updated A-1 NGI Maximum Transaction Response Times Removed (Future Capability) from IIDS transaction in A-2 NGI Type of Transaction By Service table Removed from the IIDS transaction in A-2 NGI Type of Transaction By Service table

SECTION 3 – AGGREGATE LIST OF CHANGES

Section	TOU Number	Change
Appendix S		Added new appendix and Data Dictionary for Type-17
		Added S-1 Iris Transaction with Image table
		Added S-2 Iris Transaction without Image table
Appendix AC		Removed IIIS from acronyms list