U.S. Department of Justice
Federal Bureau of Investigation
Criminal Justice Information Services (CJIS) Division

April 16, 2021

ELECTRONIC BIOMETRIC TRANSMISSION

SPECIFICATION (EBTS)

11.0 REDLINES

SECTION 1 – MESSAGE TO CJIS SYSTEMS OFFICERS, STATE IDENTIFICATION BUREAUS, AND OTHER INTERFACE AGENCIES

The purpose of this document is to identify changes for the Electronic Biometric Transmission Specification (EBTS) version 11.0 with redlines for user clarity. This and all previous versions of the EBTSs and associated Technical and Operational Updates (TOUs) can be located at <https://www.fbibiospecs.cjis.gov>. The full text of the EBTS version 11.0 is identified through Sentinel Case Number 242-HQ-A6687913-SYSDOCU.

EBTS version 11.0 officially introduces the addition of the iris biometric within the Next Generation Identification (NGI) System. NGI iris deployment is preceded by demonstrated success of the FBI Iris Pilot, endorsement from the FBI CJIS Division Advisory Policy Board, and approval from the FBI Director. Pertinent NGI modifications include changes to existing transactions, for example CAR and FIS, which now allow for enrollment of a subject's iris biometrics in addition to fingerprints, palms, and face images. Of additional significance is the deployment of the new Iris Image Identification Submission (IIDS) transaction. Just as it did in the FBI Iris Pilot, the IIDS transaction provides an easy, rapid, and contactless method of subject identification as the NGI response to the IIDS will provide either an identification or non-identification response. While use cases of iris are numerous for various law enforcement operational scenarios, it proved especially beneficial as a quick, easy, and contactless method of subject identification prior to release from correctional facilities. For additional benefits and Information pertaining to the NGI iris services please review the NGI Iris Service Policy and Implementation Guide as well as Appendix S of this document. Additional information pertaining to the NGI Iris Service Policy and Implementation Guide can be located at: <https://www.fbibiospecs.cjis.gov/Iris>.

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Users are reminded that any questions concerning the distribution of EBTS 11.0 should be directed to the Programs Research and Standards Unit at <https://www.fbibiospecs.cjis.gov/Comments/Comments>.

Archived and Active versions of the EBTS and associated TOUs are available via the Internet on the FBI Biospecs Web site at <http://www.fbibiospecs.cjis.gov>.

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SECTION 2 – FUNCTIONAL CHANGES FOR 11.0

Section 2 contains information concerning the modifications constituting EBTS 11.0. The following table is an overview of the functional modifications for this EBTS version.

Section	Change
Throughout	Grammar, punctuation, and minor style updates
	"Table" and table numbers removed from table titles
Change History	Removed references to EBTS 10 and associated TOUs. Archived versions of the EBTS and its TOUs are available via the internet on the FBI Biospecs web site at www.fbibiospecs.cjis.gov.
1.9 Specific Changes to this Version	Removed references to past EBTS changes Updated section with EBTS 11 information
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 Removed (Future Capability) from title
3.1.5 Iris Identification Search Submission	Removed (Future Capability) from title
3.1.5.1 IIDS	Removed (Future Capability) from title
	Removed last paragraph
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 renumber to 3.4.5
3.4.6.3 EQER	Section moved to 3.7.7 EQER
3.4.6.4 EQRR	Renumbered to 3.4.5.3 EQRR
3.4.6.5 ERRR	Section moved to 3.7.5 ERRR
3.6.15 SPMT	Removed "Tier 2" from first paragraph
3.6.20 RBSCVL	Updated first paragraph
3.7 Error Message Format	Added 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

Section	Change
Appendix A	Added Iris Image Identification Submission to the A-1 NGI Maximum Transaction Response Time Table
	Removed "Future Capability" from Iris Image Identification Search (IIDS) in the A-2 NGI Type of Transaction By Service Table
	Removed Iris Image Investigation Search (IIIS) from the A-2 NGI Type of Transaction by Service Table
Appendix C	Updated 2.2028 BID
	Added SI to BID Submitted Values and Results Table
	Updated 2.2029 BSI
	Update 2.051 CSL
	Added 2.2105 FI
	Updated 2.062 IMT Table
	Added note to 2.017 MNU and updated MNU Value Table
	Added note to 2.2072 POC
	Updated 2.070 RAP field to include ability to request XML response
	Updated header in 2.065 RBC Values Table
	Updated 2.2040 RBT Values Table
	Updated 2.059 SRF Values Table
	Updated Code 2 of 2.2046 TLI Values Table
	Added Limited Sharing – Not Foreign Dissemination - Code 4 and Federal Sharing – Code 5 to 2.2046 TLI Values Table
	Added 2.2105 FI to C-1 Field Edit Specifications for Type-2 Elements Table
Appendix D	Updated 2.054 SSD, 2.055 SLE in D-1 Summary of Field Lists for Identification and Verification Transactions Table
	Added 2.2105 FI to D-1 Summary of Field Lists for Identification and Verification Transactions Table
	Added IIDS TOT to D-1 Summary of Field Lists for Identification and Verification Transactions Table
	Updated SRE TOT in D-1 Summary of Field Lists for Identification and Verification Transactions Table to include 2.088 NOT and 2.2024 SII
	Removed CSL note and updated remaining notes in Reference Notes
	Removed FC1 note in Reference Notes
Appendix E	Updated 2.084 AMP fields in E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions Table
	Added footnote to E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions Table
Appendix F	Updated footnote for F-5 Mobile ID IQS Requirements Table
Appendix I	Updated 2.084 AMP, 2.009 OCA, and 2.055 SLE fields in I-1 Summary of Field Lists for Data Management Transactions Table
	Added footnote to I-1 Summary of Field Lists for Data Management Transactions Table

Section	Change
Appendix K	Added new fields 10.200 – 10.249 RSV to Type-10 Data Dictionary
	Added new fields 10.351 – 10.400 RSV to Type-10 Data Dictionary
Appendix L	Added 2.2105 FI to L-1 Complete Element Cross-Reference List by Tag Number Table
	Added FBI allocated fields to L-1 Complete Element Cross-Reference List by Tag Number table
	Added Type-17 fields to L-1 Complete Element Cross-Reference List by Tag Number table
	Updated T17 values to DOCE, EMUF, FANC, FAUF, FNDR, NNDR, NFUE, NFUF, MAP, DEK, DEU, MPR, AMN, and FDSP in L-2 Record Set Requirements Summary by Type of Transaction table
	Removed (Future Capability) form IIDS transaction in L-2 Record Set Requirements Summary by Type of Transaction table
	Removed the IIIS transaction from L-2 Record Set Requirements Summary by Type of Transaction table
	Added Biometric Search Error to Identification Service Responses in L-3 Record Set Requirements Summary by Type of Response table
	Updated SRB transaction to remove IIIS values from Type-17
	Removed (Future Capability) form IIDS transaction in L-4 Transaction/Response/Error TOT Correspondence
	Removed the IIIS transaction from L-4 Transaction/Response/Error TOT Correspondence
	Added L-5 Record Type Fields Allocated by the FBI table
Appendix M	Added link to obtain up-to-date version of M-1 Transaction Message Table
	Added new codes IR001, IR002, IR003, IR004, IR005, IR006, IR007, IR008, IR009, IR010, IR011, IR012, IR013, IR014, IR015, IR016, IR017, IR018, IR019, IR020, IR021 and IR022 to M-1 Transaction Message table
	Updated and added corresponding footnote to L0008 to M-1 Transaction Message Table
	Removed footnote associated with L0008, L0116, L0117, and L0118 in M-1 Transaction Message table
	Added new codes L0062, L0183, L0185, L0186, L0187, L0188, L0189, and L0191 to M-1 Transaction Message table
	Removed messages M0011 from M-1 Transaction Message Table
	Updated M0012 from M-1 Transaction Message table
	Added new codes M0058, M0059, M0060, M0061, M0062, M0063, M0064, M0065, and M0066 to M-1 Transaction Message table
Appendix N	Added new fields 14.201 – 14.400 RSV to Type-14 Data Dictionary
Appendix R	Added new fields 13.200 – 13.400 RSV to Type-13 Data Dictionary
Appendix S	Added new appendix and Data Dictionary for Type-17
Appendix AC	Removed IIIS from acronyms list

Change History

1.9 Specific Changes to this Version

This version of the EBTS represents Full Operational Capability of the NGI system and includes the following list of new services (new/modified TOTs in parenthesis):

1. Face image searching (FRS, SRB, UBM, ERRB, UUBD)
2. Face and Scars, Marks and Tattoos (SMT) text-based searching (TXTSRCH, SRB)
3. Rap Back services (RBSCRM, RBSCVL, RBSR, RBRN, RBMNT, RBMNTR, RBN, RBIHS, RBIHSR, RBRPT, RBRPTR)
4. Disposition Reporting Enhancements (FDSP, SRE, DSPE, DSPR, SRNRR)
5. Civil event maintenance (CDEL, CDELR)
6. External system interoperability (XACT, XACTR, XMNT, XMNTR)
7. RISC repository (FIDR, SPMNT, SPMNTR, SPN)
8. Iris image searching (future capability) (IIDS, IIIS, SRB)

In addition to the new capabilities, several existing TOTs were expanded to support biometric types other than friction ridge. These TOTs are:

- IRQ, IRR
- FIS, FISR
- BDEC, BDECR
- BDEL, BDELR
- BATQ, BATR

Also, the existing SRE response is modified to include the Biometric Image Enrollment (2.2061 BIE) and Biometric Image Available (2.2031 BIA) fields to inform the user of which biometrics from their submission were successfully enrolled and what biometric types are available for the matched identity respectively. SRE is also modified to reflect Rap Back subscription information, when enrollment into Rap Back is requested within the tenprint fingerprint identification search request.

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subject identification prior to release from correctional facilities. For additional benefits and Information pertaining to the NGI iris services please review the NGI Iris Service Policy and Implementation Guide as well as Appendix S of this document. Additional information pertaining to the NGI Iris Service Policy and Implementation Guide can be located at: <https://www.fbibiospecs.cjis.gov/Iris>.

3.1.1.1 Criminal Tenprint Submission (Answer Required) (CAR)

This transaction is a criminal arrest fingerprint submission for which the requester desires an identification decision response. It contains ten rolled and four plain impressions of all ten fingers, biographic descriptor data, as well as information relative to an arrest and court disposition data. ~~custody, or supervisory status~~. The biographical data and fingerprint images are used to determine potential candidates with criminal records at the FBI/CJIS and a positive identification or non-identification ~~decision~~ is determined. A response is returned to the contributor. The successful response will ~~always~~ contain the positive identification/non-identification decision and may contain the electronic Identity History Summary, if requested.

[Unchanged text not included here for brevity]

3.1.1.2 Criminal Tenprint Submission (No Answer Required) (CNA)

This transaction differs from a CAR request only in that no identification decision response is sent. However, a communication protocol acknowledgment will be returned to the contributor to confirm receipt of the transaction. Like the CAR, it contains ten rolled and four plain impressions, ~~and~~ arrest, and court disposition ~~custody, or supervisory status~~ data. The Retention Code (2.005 RET) for this transaction must be set to "Y."

3.1.1.9 Foreign Information Direct Route (FIDR)

This transaction consists of a fingerprint submission from a federal or international agency that will be directly routed to an FBI/CJIS internal log application for special processing. The submission shall contain ten rolled or flat and four plain impressions, or three identification flat impressions, along with biographic descriptor data. If the FIDR is successfully processed, a new identity will be created in the Foreign Subjects of Interest (FSI) repository. 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.

Note: FIDR is a limited-use TOT that requires coordination with FBI/CJIS prior to use.

~~3.1.1.22 Tenprint Transaction Error Response (ERRT) (Future Capability)~~

~~When a Tenprint Transaction Error Response (ERRT) is sent in response to an identification search submission, the Name (2.018 NAM) and Date of Birth (2.022 DOB) from the search submissions are returned as the Submitted Name (2.2008 SNAM) and Submitted Date of Birth (2.2007 SDOB),~~

respectively. Error responses are listed in the Error Message Format Section (Section 3.7).

3.1.5 Iris Identification Search Submission (Future Capability)

Iris Identification Search Submissions allow the user to submit one or two iris images from an individual for a one-to-many identification search against the FBI/CJIS Iris Identification File (IIF) NGI Iris Repository using an Iris image as the search probe.

[Unchanged text not included here for brevity]

3.1.5.1 Iris Image Identification Submission (IIDS) (Future Capability)

The Iris Image Identification Submission (IIDS) requires two iris records. At least one record must contain an iris image. Iris images must be from the same individual. transaction allows the user to submit the right or and left iris image for a given individual to be used for searching against the IIF NIRS for a possible match identification. All searches of the IIF NGI Iris Repository are one-to-many searches. An IIDS that results in a score better than a predetermined match threshold is deemed a match (i.e., a highly probable identification) an identification. In the event of a match an identification, information pertaining to the matched individual is returned in an SRE transaction. By default, IIDS searches that result in a match an identification do not return any iris images. The optional Request Photo Record (2.096 RPR) field may be set to "Y" to request a front face image to be returned with the SRE for an identification. If the IIDS contains any errors, an ERRB is returned.

No data entry is necessary unless an iris cannot be imaged. Missing iris images require submission of a Damaged or Missing Eye (17.028 DME) code.

[Unchanged text not included here for brevity]

Iris image search functionality is currently in the pilot phase. Therefore the IIDS is a limited use TOT that requires coordination with the FBI/CJIS prior to use.

3.1.5.2   IIDS Submission Results (IIDS-SRE)

This transaction is returned by NGI in response to an IIDS. The SRE will contain an identification/non-identification decision. For submissions which result in an identification decision, the SRE will return the Master Name (2.018 NAM), Master FBI Number/UCN (2.014 FBI), Master State Identification Number (2.015 SID), Supplementary Identity Information (2.2023 SII) if available, and electronic Identity History Summary (2.075 ERS) if requested. Additionally, if the IIDS included a photo request and a photo is available for the identity, a front face image will be included in the identification response.

The Supplementary Identity Information (2.2023 SII) contains the results of an NCIC search. The results include a list of identifiers and case numbers for the identity (e.g. Wants/Warrants, Sex Offenders, and Immigration Violators).

A non-identification response will return the submitted name and submitted SID. Non-identified iris images are not retained in the NGI system. For further information, please refer to the Identification Services section, Submission Results – Electronic (SRE) subsection.

Values of NAM, FBI Number/UCN and SID Returned in the SRE for IIDS

Type of Submission	Result	Value of Returned Field			Special Exceptions
Iris Identification Search Submission	Ident	Master NAM	Master FBI Number/ UCN	Master SID	SII if available
Iris Identification Search Submission	Non-Ident	NAM Submitted	None	Submitted SID	

3.2.2 Fingerprint Verification Response (SRE)

This transaction is returned by the FBI/CJIS in response to a Fingerprint Verification request. A Match response will be returned when the images on file for the submitted FBI Number/UCN (2.014 FBI) match the submitted images and will contain the electronic Identity History Summary (2.075 ERS), if requested. A No Match response will be returned when the images submitted do not match the images on file for the quoted UCN. ~~Table 3~~ The "Values of NAM, FBI Number/UCN and SID Returned in the SRE for FVR" table describes which NAM, FBI Number/UCN, and SID are returned in the SRE for the Fingerprint Verification request. For further information, please refer to the Identification Services section, Submission Results – Electronic (SRE) subsection.

3.3.1.1 Biometric Image/Feature Retrieval Request (IRQ)

This transaction enables users to retrieve images from the FBI/CJIS databases so a comparison can be made by the requester at user facilities. The requester identifies the subjects whose biometric images are being requested. The requester may also include additional parameters to specify particular modalities or image types of the subjects. Up to 1,000 subject records may be requested per transaction in the Biometric Image Description (2.2028 BID) field. Specific fingerprint, supplemental fingerprints, palm print images or the complete set may be requested. Other images, such as facial and SMT photos which are associated with the records, may also be requested. The transaction will be processed, and requested images on file at the FBI/CJIS will be transmitted in the response. Each subject record identifier number in the request and each set of biometrics being returned for the subject will be addressed in a separate Image Request Response (IRR). The default response condition in the IRR will return the representative biometric set(s) for the identity specified.

Alternately, this transaction may be used to request images from external repositories. The Name of Designated Repository (2.098 NDR) field is added to IRQ where only a single

external system value is valid. The ~~Biometric Image Description (~~2.2028 BID~~)~~ field information item UCN (2.2028A) has been changed to Subject Identifier (SI) in order to support external system identifiers.

[Unchanged text not included here for brevity]

The following biometric and descriptive record types may be retrieved:

1. Tenprint FP Images from an Event using the Biometric Set Identifier (2.2029 BSI)
2. Tenprint FP Features associated with a retrieved image
3. Palm Print Images from an Event using the Biometric Set Identifier (2.2029 BSI)
4. Palm Print Features associated with a retrieved image
5. Supplemental (joint and tip) Prints from an Event using the Biometric Set Identifier (2.2029 BSI)
6. Supplemental (joint and tip) Features associated with a retrieved image
7. Latent Friction Ridge images and associated Features
8. Facial Photos
9. SMT Photos
10. Iris Images

In order to support multiple biometric sets and multiple image types for an identity, ~~a new field,~~ the Biometric Image Description (2.2028 BID), has been created. If the ~~new~~ BID field is populated, then the FBI Number/UCN (2.014 FBI) and Finger Numbers Requested (2.057 FNR) fields will be ignored; therefore, UCN and FNR are optional. The BID field is a set type that allows users greater flexibility in defining what images are requested. Please see Appendix C, Type-2 Element Data Dictionary, for a full description of the use of BID.

[Unchanged text not included here for brevity]

3.3.1.3 Image Request Response (IRR)

This transaction is returned by the FBI/CJIS to provide requested images on file at the FBI/CJIS, or the specified external system, to the requester. Each image set identified in the IRQ request will cause a separate IRR response. The response will include either the subject record identifier number (2.014 FBI) or the External Subject Identifier (2.2037 ESI) and the requested image set in the format in which they were enrolled. As noted in 3.3.1.1, the IRR default response condition will return the representative biometric set(s) for the identity specified, along with the associated biometric feature set, if requested.

~~The IRR response will return one biometric image set, along with the associated biometric feature set, if requested.~~ The new Biometric Image Available (2.2031 BIA) field is added to reflect the biometric image types available for the Identity. The IMT

field in the IRR corresponds to the IMT within the BID field in the request (for composite results, where no BSI is provided in the request) or is equivalent to the image type of the BSI requested (for event results, where BSI is included in the request). When a composite set is returned, no Biometric Set Identifier (2.2029 BSI) is returned in the message.

3.3.2.3 Information Transaction Error (ERRI)

If the requestor does not own any of the images selected by the Biometric Audit Trail Query (BATQ) request criteria, this will result in an Information Transaction Error (ERRI), including the reason for the error in the Status/Error Message (2.060 MSG) field. An ERRI is also generated if the submitted Biometric Set Identifier (2.2029 BSI) or Image Type (2.062 IMT) is not associated with the submitted FBI Number/UCN (2.014 FBI). Error responses are described in the Error Message Format Section (Section 3.7).

3.4.5 Iris Image Investigation Search Submission (Future Capability)

Iris Image Investigation Search Submissions allow the user to submit a one-to-many investigation search against the FBI/CJIS Iris Identification File (IIF) using an Iris image as the search probe. As opposed to an identification search, the iris investigation search results consist of a list of candidates that must be adjudicated by the user.

The following TOT will be accepted by the FBI/CJIS for Iris Image Investigation Search Submissions:

TOT   TRANSACTION
IIIS   Iris Image Investigation Search

The FBI/CJIS response to electronic submissions will provide search results or indicate an error via the following TOTs:

TOT   RESPONSE TRANSACTION
SRB   Search Results – Biometric

ERRB   Biometric Search Error Response

Error messages are described in Section 3.7

3.4.5.1 Iris Image Investigation Search (IIIS) (Future Capability)

The Iris Image Investigation Search (IIIS) transaction allows the user to submit the right or left iris image for a given individual to be used for searching against the IIF for possible investigative

leads. Such iris images may be extracted from a visible light facial photo obtained under less than ideal conditions, such as iris images from photos extracted from video surveillance footage.

Subsequently, images submitted with an IIIS transaction are likely to be of relatively poor quality. All IIIS searches of the IIF will be one-to-many investigative type searches. An IIIS transaction will result in up to the 50 best scoring candidates returned in an SRB transaction. The enrolled iris image associated with each matched candidate will be returned. If the IIIS contains any errors, an ERRB will be returned.

Iris image search functionality is currently in the pilot phase. Therefore, the IIIS is a limited use TOT that requires coordination with FBI/CJIS prior to use.

~~3.4.6~~ 3.4.5 *Biometric Investigation Submission*

[Unchanged text not included here for brevity]

~~3.4.6.1~~ 3.4.5.1 *External Query History Request (EQHR)*

[Unchanged text not included here for brevity]

~~3.4.6.2~~ 3.4.5.2 *External History Request Response (EHRR)*

[Unchanged text not included here for brevity]

~~3.4.6.3 External Query History Error Response (EQER)~~

~~When the External Query History Request contains errors, such as missing mandatory information or invalid contents, the External Query Error Response (EQER) will be returned to the contributor. The response will include the Status/Error Message (2.060 MSG) field indicating the type(s) of error(s) encountered. See the Error Message Format Section for more detail on how this response is formatted (Appendix M).~~

~~3.4.6.4~~ 3.4.5.3 *External Query History Request Response - Summary (EQRR)*

An External Query History Request Response – Summary (EQRR) will be returned as a summary report of the number of candidates returned from the search and the UCN of each candidate. The number of EHRR and ERRR messages returned for the search, up to 20, will be equal to the number of candidates stated in the EQRR message.

~~3.4.6.5 Transaction Error (Electronic Response) (ERRR)~~

~~When the result of the External Query History Request contains candidate(s) where the Identity History Summary is not available, the Transaction Error (Electronic Response) (ERRR) will be returned to the contributor. The ERRR will include a Status/Error Message (2.060 MSG) field~~

indicating the status of the record. If the DOB in the EQHR is omitted or invalid, an ERRR indicating the error will be the only response. (See Section 3.7)

3.6.15 Special Repository Maintenance Request (SPMNT)

The Special Repository Maintenance Request (SPMNT) is used to manage identities within the Special Population Cognizant (SPC) and Foreign Subjects of Interest (FSI) repositories. Identities may be created within an SPC using the SPMNT with a Maintenance Action Indicator (2.2052 MAI) of "ADD", while identities are created in the FSI using the FIDR TOT. SPC and FSI identities may be removed using SPMNT by supplying the FBI Number/UCN (2.014 FBI) of the identity and the Name of Designated Repository (2.098 NDR) with the "DELETE" MAI value. Values for Tier Level Indicator (2.2046) TLI), Hit Notification Indicator (2.2051 HNOTI), and/or Tier 2 Point of Contact (2.2072 POC) may be updated for an FSI identity using SPMNT with the "REPLACE" MAI value, the UCN of the identity, and the new values to be applied to the identity.

3.6.20 Rap Back Subsequent Subscription Request – Civil (RBSCVL)

Any authorized agency may establish a Civil Rap Back Subscription by submitting a civil UCN (2.014 FBI) and either a full Tenprint Fingerprint image set or an the Event Identifier (2.2035 EVI) from a previously submitted Civil Tenprint Fingerprint Identification Search. A Subscription also requires the Name (2.018 NAM), Date of Birth (2.022 DOB) of the Subscription subject, and the Subscription Rap Back Category (2.2065 RBC). Allowable Civil Rap Back Categories are as follows:

3.7 Error Message Format

When a transmission is rejected because one or more data fields does do not pass internal editing criteria, an error response will be transmitted back to the submitting agency. Each reason for rejection will be detailed in the Status/Error Message (2.060 MSG) field. Up to 11 errors for a transaction can be recorded in the MSG field. If the error is related to a field that contains invalid data, the field tag and first 30 characters of the data in the invalid field will be returned.

The FBI/CJIS will validate all incoming data prior to its use within the system. If any mandatory data fields are missing or incorrect, the transaction will be rejected. If any optional data are in error, the data will not be stored in the FBI/CJIS repository.
The error response will be included in the appropriate error transaction. The following is a non-exhaustive list of the types of error messages:

- Mandatory field missing
- Invalid field for transaction
- Field discrepancy
- Field out of range

- Request not on file
- Fingerprints do not allow extraction of characteristics
- Non-standard native-mode fingerprint characteristics
- Inadequate quality of biometrics

3.7.1 Administrative Transaction Error Response (ERRA)

When any permission or processing error is present in a data management transaction, the Administrative Transaction Error Response (ERRA) will be transmitted back to the submitting agency. Each reason for rejection will be detailed in the Status/Error Message (2.060 MSG) field. Up to 11 errors for a transaction can be recorded in the MSG field.

ERRA Transaction

Error Transaction	Error TOT	Generating TOT
Administration Transaction Error Response	ERRA	LRSQ
		FIS
		BDEL
		CDEL
		BDEC
		DSPE
		SPMNT
		RBSCRM
		RBSCVL
		RBMNT
		XMNT
		XACT
		SRNR

3.7.2 Biometric Search Error Response (ERRB)

NGI returns a Biometric Search Error Response (ERRB) to the submitting agency when a transaction is rejected due to one or more data fields not passing internal editing criteria. Each reason for rejection will be detailed in the Status/Error Message (2.060 MSG) field. Up to 11 errors for a transaction can be recorded in the MSG field. If the error is related to a field that contains invalid data, the field tag and first 30 characters of the data in the invalid field will be returned.

ERRB Transaction

Error Transaction	Error TOT	Generating TOT
Biometric Search Error Response	ERRB	IIDS
		FRS

		TXTSRCH

3.7.3 Information Transaction Error Response (ERRI)

If an information service transaction contains any invalid field values or is missing any required fields, an Information Transaction Error (ERRI) will be returned, including the reason for the return in the Status/Error Message (2.060 MSG) field. Errors associated with individual subject identifier numbers, such as an image set not being on file, will be reported in the MSG field of the Image Summary Response (ISR).

ERRI Transaction

Error Transaction	Error TOT	Generating TOT
		IRQ
		CPR
Information Transaction Error Response	ERRI	BATQ
		RBRPT
		RBIHS

3.7.4 Latent Transaction Error Response (ERRL)

If a latent friction ridge transaction contains any invalid field values or is missing any required fields, an Information Transaction Error (ERRL) will be returned, including the reason for the return in the Status/Error Message (2.060 MSG) field.

ERRL Transaction

Error Transaction	Error TOT	Generating TOT
		LFIS
		LFFS
Latent Transaction Error Response	ERRL	LPNQ
		ULD

3.7.5 Transaction Error (Electronic Response) (ERRR)

When the result of the External Query History Request contains candidate(s) where the Identity History Summary is not available, the Transaction Error (Electronic Response) (ERRR) will be returned to the contributor. The ERRR will include a Status/Error Message (2.060 MSG) field indicating the status of the record. If the DOB in the EQHR is omitted or invalid, an ERRR indicating the error will be the only response.

ERRR Transaction

Error Transaction	Error TOT	Generating TOT

Transaction Error (Electronic Response)	ERRR	EQHR

3.7.6 Tenprint Transaction Error Response (ERRT)

When a tenprint identification search submission is rejected, a Tenprint Transaction Error Response (ERRT) will be returned to the submitting agency. The ERRT will include the Name (2.018 NAM) and Date of Birth (2.022 DOB) from the search submissions as the Submitted Name (2.2008 SNAM) and Submitted Date of Birth (2.2007 SDOB), respectively.

ERRT Transaction

Error Transaction	Error TOT	Generating TOT
Tenprint Transaction Error Response	ERRT	CAR
		CNA
		CPDR
		CPNU
		DOCE
		EMUF
		FANC
		FAUF
		FNDR
		NNDR
		NFUE
		NFUF
		MAP
		DEK
		DEU
		MPR
		AMN
		RPIS
		FIDR
		FDSP
		FVR
		TPIS
		TPRS

3.7.7 External Query History Error Response (EQER)

When the EQHR contains errors, such as missing mandatory information or invalid contents, the External Query Error Response (EQER) will be returned to the contributor. The response will include the Status/Error Message (2.060 MSG) field indicating the type(s) of error(s) encountered.

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.

[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)~~	~~IIIS~~	~~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
[Unchanged text not included here for brevity]	
Iris (Future)	11
Fingerprints on Front of Palm Card (Future)	12
[Unchanged text not included here for brevity]	

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

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 an 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
[Unchanged text not included here for brevity]		

RBT 2.2040 Rap Back Trigger

[Unchanged text not included here for brevity]

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
1314-40	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]

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

Field Numbe	Identifier	Field Name	Character	Field Size		Occurrences		Example	Comments/Special Characters
[Unchanged text not included here for brevity]									
2.2030	PPD	PRINT POSITION DESCRIPTOR	SET				~~1~~10		
A	FGP	FRICTION RIDGE GENERALIZED POSITION	N	1	2	1	1	2.2030:02{US}FV1{GS}	
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]

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
[Unchanged text not included here for brevity]																
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]											
[Unchanged text not included here for brevity]																
2.2007 SDOB										1~~FC1~~						
2.2008 SNAM										1~~FC1~~						
[Unchanged text not included here for brevity]																
2.2105 FI														0..999		

Tag Elem	IIDS
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]

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
[Unchanged text not included here for brevity]														
2.084 AMP		0..13			0..13	0..13[2]	0.13[2]					0..13		
[Unchanged text not included here for brevity]														

[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]

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
[Unchanged text not included here for brevity]															
2.084 AMP		$0..13^3$									$0..13^3$				$0..13^3$
[Unchanged text not included here for brevity]															

^{3} This 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
[Unchanged text not included here for brevity]													
2.009 OCA	0..1			0..1	0..1	~~0..~~1							
[Unchanged text not included here for brevity]													
2.055 SLE						0..1							
[Unchanged text not included here for brevity]													
2.084 AMP				$0..13^3$									
[Unchanged text not included here for brevity]													

[Unchanged text not included here for brevity]

^{3} This 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

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 ACQ1UISITION 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

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]											

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)~~	~~IIIS~~	~~SRB~~	~~ERRT~~
[Unchanged text not included here for brevity]			

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

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.				

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.				

*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			

~~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		

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.

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

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
[Unchanged text not included here for brevity]	
~~IIIS~~	~~Iris Image Investigation Search~~
[Unchanged text not included here for brevity]	

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		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	11.0	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	TOU Number	Change
Appendix C		Updated 2.2028 BID Added SI to BID Submitted Values and Results table Updated 2.2029 BSI Updated 2.051 CSL Added 2.2105 FI Updated 2.062 IMT table Added note to 2.017 MNU and updated MNU Values table Added note to 2.2072 POC Updated 2.070 RAP field to include ability to request XML response Updated header in 2.2065 RBC Values table Updated 2.2040 RBT Values table Updated 2.059 SFR Values table Updated Code 2 and added Code 4 and 5 2.2046 TLI Values table Added 2.2105 FI to C-1 Field Edit Specifications for Type-2 Elements table
Appendix D		Updated 2.054 SSD, 2.055 SLE in D-1 Summary of Field Lists for Identification and Verification Transactions table Added 2.2105 FI to D-1 Summary of Field Lists for Identification and Verification Transactions table Added IIDS TOT to D-1 Summary of Field Lists for Identification and Verification Transactions table Updated SRE TOT to D-1 Summary of Field Lists for Identification and Verification Transactions table Removed CSL note and updated remaining notes in Reference Notes Removed FC1 note from Reference Notes
Appendix E		Updated 2.084 AMP fields in E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions table Added footnote to E-1 Summary of Field Lists for Investigation, Information, and Notification Transactions table
Appendix F		Updated footnote for F-5 Mobile ID IQS Requirements table
Appendix I		Updated 2.084 AMP, 2.009 OCA, and 2.055 SLE fields in I-1 Summary of Field Lists for Data management Transactions table Added footnote to I-1 Summary of Field Lists for Data Management Transactions table
Appendix K		Added new fields 10.200 – 10.249 RSV to Type-10 Data Dictionary Added new fields 10.351 – 10.400 RSV to Type-10 Data Dictionary

Section	TOU Number	Change
Appendix L		Added 2.2105 FI to L-1 Complete Element Cross-Reference List by Tag Number table
		Added Type-17 fields to L-1 Complete Element Cross-Reference List by Tag Number table
		Added FBI Allocated Fields to L-1 Complete Element Cross-Reference List by Tag Number table
		Updated T17 values to DOCE, EMUF, FANC, FAUF, FNDR, NNDR, NFUE, NFUF, MAP, DEK, DEU, MPR, AMN, and FDSP in L-2 Record Set Requirements Summary by Type of Transaction table
		Removed (Future Capability) from the IIDS transaction in L-2 Record Set Requirements Summary by Type of Transaction table
		Removed the IIIS transaction in L-2 Record Set Requirements Summary by Type of Transaction table
		Added Biometric Search Error to Identification Service Responses in L-3 Record Set Requirements Summary by Type of Response table
		Updated SRB transaction to remove IIIS values from Type-17
		Removed (Future Capability) form IIDS transaction in L-4 Transaction/Response/Error TOT Correspondence
		Removed IIIS transaction from L-4 Transaction/Response/Error TOT Correspondence
		Added L-5 Record Type Fields Allocated by the FBI table
Appendix M		Added link to obtain up-to-date version of M-1 Transaction Message Table
		Updated and added corresponding footnote to L0008 in M-1 Transaction Message table
		Removed footnote associated with L0008, L0116, L0117, and L0118 in M-1 Transaction Message table
		Added new codes IR001, IR002, IR003, IR004, IR005, IR006, IR007, IR008, IR009, IR010, IR011, IR012, IR013, IR014, IR015, IR016, IR017, IR018, IR019, IR020, IR021, and IR022 to M-1 Transaction Message table
		Updated and added corresponding footnote for L0008 to M-1 Transaction Message table
		Added new codes L0062, L0183, L0185, L0186, L0187, L0188, L0189, and L0191 to M-1 Transaction Message table
		Removed code M0011 from M-1 Transaction Message table
		Updated M0012 from M-1 Transaction Message table
		Added new codes M0058, M0059, M0060, M0061, M0062, M0063, M0064, M0065, and M0066, to M-1 Transaction Message table
Appendix N		Added new fields 14.201 – 14.400 RSV to Type-14 Data Dictionary
Appendix R		Added new fields 13.200 – 13.400 RSV to Type-13 Data Dictionary

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