

FBI EBTS IEPD Change Log

Version 9.0 beta 2

The following changes were made to the schemas and samples between version 9.0 beta 1 and beta 2:

1. Incorporated LEXS 4.0 beta 2 with the following changes that affect EBTS:
 - a. lexs:DataOwnerMetadata is optional
 - b. lexs:DataItemStatus is optional
 - c. lexs:DisseminationCriteria is optional
 - d. ulex:ResultCode is optional
 - e. lexs:SystemID is optional inside lexs:SystemIdentifier and lexs:MessageDestinationIdentifier
2. Added lexsdigest:ArrestOffenseAssociation elements to show association between arrest and offense.
3. Added many more samples, and made miscellaneous improvements to the existing samples to make them more representative.
4. Moved hair color (HAI) to the payload as fbiefts:PersonHairColorCode due to differences between EBTS and NIEM code lists.
5. Moved sex (SEX) to the payload as fbiefts:PersonSexCode due to differences between EBTS and NIEM code lists.
6. Moved place of birth (POB) to the payload as j:PersonBirthPlaceCode due to mapping differences between EBTS code lists and LEXS StateName/CountryName elements.
7. Moved CRI to ulex:SRMessageMetadata/ulex:SRMessageMetadataDomainAttribute/fbiefts:ControllingAgencyList/fbiefts:ControllingAgencyID to enable multiple values to appear, and to avoid the semantics of "Data Owner".
8. Incorporated the new NIEM subset recently posted to the ANSI/NIST-ITL site, with the following changes:
 - a. relaxed the constraint on ansi-nist:TransactionCategoryCode to allow nc:TextType, in order to match the definition that appears in the PDF version of the ANSI/NIST-ITL specification.
 - b. eliminated a duplicate schema document in the ansi-nist namespace. (Deleted ansi-nist.xsd (which had incorrect cardinalities) and renamed ansi-nist_itl_constraint-2008-Annex-L.xsd to ansi-nist.xsd).
9. Renamed the FBI EBTS Payload to the FBI EBTS Descriptive Payload.
10. Moved the court segment literal (CSL) fields into the payload under fbi:Offense:
 - a. CDD was remapped to fbiefts:Offense/j:Charge/j:ChargeDisposition/nc:DispositionDate
 - b. COL was remapped to fbiefts:Offense/j:Charge/j:ChargeText
 - c. CPL was remapped to fbiefts:Offense/j:Charge/j:ChargeDisposition/j:ChargeDispositionOtherText

11. Moved extended names (NAM1, NAM2, NAM3, NAM4, NAM5) from the digest into the payload as
fbiefts:Person/fbiefts:PersonName/fbiefts:PersonNameAugmentation/fbiefts:ExtendedName
12. Moved submitted name (SNAM) to the payload as
fbiefts:Person/fbiefts:PersonAugmentation/fbiefts:PersonSubmittedName
13. Moved submitted date of birth (SDOB) to the payload as
fbiefts:Person/fbiefts:PersonAugmentation/fbiefts:PersonSubmittedBirthDate
14. Removed fields 9.005 through 9.012 from the mappings and samples because they are not used in EBTS (they are not in Table J-1, and have semantically redundant EBTS-specific fields 9.013 through 9.022 to replace them).
15. Significantly restructured the Type 9 to better reflect extensions of ITL Type 9 components rather than including separate (redundant) elements. Merged fbiefts:itl:MinutiaDetail into itl:MinutiaDetail and eliminated all the duplicate children.
16. Renamed fbiefts:itl:MinutiaeFingerDeltaPosition to fbiefts:itl:MinutiaeFingerDeltaAttribute (for DLA 9.022) to better reflect the EBTS name of the field.
17. Remapped FCP 9.016 from ansi-nist:MinutiaeReadingSystem to fbiefts:itl:FingerprintCharacterizationProcess (with corresponding subelements and code lists) to allow for the correct code lists and to better reflect the EBTS names of the fields
18. Remapped ORN 9.020 from ansi-nist:PositionUncertaintyValue to fbiefts:itl:OrientationUncertaintyValue to better reflect the meaning of the element and to move it to the appropriate parent element so the cardinalities are correct.
19. Split CRA 9.021 and DLA 9.022 into two separate types to reflect their differences in structure.
 - a. For CRA, changed the type to allow horizontal and vertical coordinates instead of a bottom coordinate.
 - b. For DLA, added three direction elements (PositionUpwardDirectionDegreeValue, PositionLeftDirectionDegreeValue and PositionRightDirectionDegreeValue) and removed unused elements from samples.
20. Added fbiefts:itl:CharacterizationRegionPolygon to support ROV 9.018.
21. Added fbiefts:itl:CoordinateOffsets to support COF 9.019.

Version 9.0 beta 1

The following changes were made to the schemas and samples between version 1.0.4 and 9.0 beta 1:

1. All elements were moved into the FBI EBTS payload from the ITL type 2 record. The "biographic payload" was renamed the "FBI EBTS payload".
2. LEXS schemas were upgraded from version 3.1.4 to version 4.0.
3. Support was added for extra fields and TOTs for EBTS 9.0.
4. Code values P, R, Y and G were added to SearchResultsCodeSimpleType. The value P (Pending) was added for the LSIR TOT, while R, Y and G were added for the RPISR TOT.

5. Cardinality of ansi-nist:RecordForwardOrganizations was changed to be repeating, since multiple organizations can be specified, and ansi-nist:RecordForwardOrganizations (despite its name) is intended to represent only one organization.
6. ansi-nist:TransactionSearchRequestCategoryCode was removed in favor of fbiefts:SearchRequestCategoryCode, to allow for the correct code list.
7. The maxOccurs of FingerprintImagesUpdated was changed from 3 to 1 (repeating child element handles multiple occurrences).
8. ansi-nist:TransactionReasonText was removed and added fbiefts:ResponseExplanationText in its place, to better reflect the meaning of the element.
9. A repeating fbiefts:RepositoryParameter child was added to fbiefts:RepositoryResponse to allow for multiple parameters.
10. Name changes:
 - RecordCascadedSearchCode -> CascadedSearchCode
 - RecordFeaturesRequestIndicator -> FeaturesRequestIndicator
 - RecordPhotoRequestIndicator -> PhotoRequestIndicator
 - RecordRapBackEligibilityIndicator -> RapBackEligibilityIndicator
 - RecordRapBackExpirationDate -> RapBackExpirationDate
 - RecordRapBackOwnerOrganization -> RapBackRecipientOrganization
 - RecordRapBackRequestCode -> RapBackRequestCode
 - RecordRapBackVerificationIndicator -> RapBackVerificationIndicator
 - RecordSpecialPopulationCognizantFileIdentification -> SpecialPopulationCognizantFileIdentification
 - TransactionSearchRequestCategoryCode -> SearchRequestCategoryCode
 - TransactionActionText -> ActionText
 - TransactionAFISSegmentControlNumber -> AFISSegmentControlNumberIdentification
 - TransactionCandidateList -> CandidateList
 - TransactionCancelFingerprintSearchNumber -> CancelFingerprintSearchIdentification
 - TransactionCivilSearchRequestIndicator -> CivilSearchRequestIndicator
 - TransactionNoteText -> NoteText
 - TransactionDispositionMaintenanceCode -> DispositionMaintenanceCode
 - TransactionEstimatedCompletionTimeQuantity -> EstimatedCompletionTimeQuantity
 - TransactionImagesRequestedQuantity -> ImagesRequestedQuantity
 - TransactionFingerprintImagesRequested -> FingerprintImagesRequested
 - TransactionFingerprintImagesUpdated -> FingerprintImagesUpdated
 - TransactionPenetrationQueryResponsePercentage -> PenetrationQueryResponsePercentage
 - TransactionQueryDepthCode -> QueryDepthCode
 - TransactionResponseIndicator -> ResponseIndicator

- TransactionRepositoryResponse -> RepositoryResponse
- TransactionSearchAreaCode -> SearchAreaCode
- TransactionSearchPriorityCode -> SearchPriorityCode
- TransactionSearchResultsCode -> SearchResultsCode
- TransactionStatusText -> StatusText
- TransactionUnsolvedLatentFileIndicator -> UnsolvedLatentFileIndicator
- CandidateMatchScore -> CandidateMatchScoreValue
- BinaryCODISAvailableIndicator -> PersonBinaryCODISAvailableIndicator

Version 1.0.4

The following changes were made to the schemas and samples between version 1.0.3 and 1.0.4:

2. Additional structure (and a new namespace and corresponding schema) were added to the Type 2 record in order to more flexibly group domain-specific elements.
3. The ebtsbio:PersonTypeDesignatorCode element was removed in favor of an ebtsbio:EliminatedPerson role.
4. The ebts:TransactionCategoryCode was removed from the Type 2 record (in favor of using the newly relaxed ansi-nist:TransactionCategoryCode in Type 1).
5. In version 1.0.2, the field IMT 2.062 (Image Type) was mapped to ansi-nist:ImageCategoryCode in the IEPD specification, and ansi-nist:FingerprintImageImpressionCaptureCategoryCode in the samples. Neither of these is correct, because they have completely different code lists from those listed in the EBTS binary specification. A new element fbiebts:LatentImageCategoryCode was created with the appropriate code list.
6. Changed LEXS mapping of HAI (2.032) from nc:PersonHairColorCode to nc:PersonHairColorText to reflect code list differences.
7. Added a structural element fbiebts:FingerprintRidgeCoreDelta to represent the possibility of multiple RCN1 or RCN2 values for a single finger.

Version 1.0.3

The following substantive changes from the 1.0.2 version were made to the Type 2 record based on a review of the binary spec. Changes involving only schema mechanics are not listed.

1. Moved all biographic information from the Type 2 record to the LEXS Digest or Biographic Payload. Please see individual elements in the documentation for details.
2. Renamed ebts:CandidateListMatchScore to ebts:CandidateMatchScore and moved it under ebts:Candidate because there is one per candidate - up to 99 can be returned in a SRL transaction (along with 99 candidates).
3. Added ebts:CandidateFingerPositionImagesAvailable (for FGP 2.074) as a child of ebts:Candidate because up to 99 of these can appear in an SRL transaction.

4. Changed nc:CaveatText to ebts:AttentionText because the definition of the ATN field did not match the definition of nc:CaveatText, which is a warning or a caution. ATN is the name of a person to whom a response is directed.
5. Renamed ebts:ImagesRequestedNumber to ebts:SubjectPhotosRequestedQuantity to be more specific and comply better with NIEM NDR representation term guidelines.
6. Renamed ebts:RecordSpecialPopulationCognizantFileIdIdentification to ebts:RecordSpecialPopulationCognizantFileIdentification to eliminate the redundancy of "Id".
7. Moved field EID from inside the PersonEmploymentAssociation to a separate transaction-related field named ebts:FederalEmployeeIdentification. Putting it inside PersonEmploymentAssociation implies that it is the ID of employer of the subject, when in fact it is the employee ID of the federal agency employee performing the fingerprint search.
8. Changed the cardinality of the ansi-nist:FingerPositionCode child of ebts:FingerprintImageFinger from "0 to 10" to "1 to 1" since the corresponding FBI EBTS fields (PAT, RCD1 and RCD2) only allow for one finger position code per field.
9. Changed the cardinality of the ebts:FingerprintPatternClassificationCode child of ebts:FingerprintImageFinger from "0 to 9" to "0 to 3" since the PAT field allows only 3 pattern classifications per finger position.
10. Renamed ebts:TransactionDescriptionText to ebts:TransactionNoteText to better reflect its meaning.
11. Renamed ebts:TransactionFingerprintImagesRequestedText to ebts:TransactionFingerprintImagesRequested and split its contents into multiple child ansi-nist:FingerPositionCode elements to better reflect the true structure of the data
12. Renamed ebts:AFISSegmentControlNumber to ebts:TransactionAFISSegmentControlNumber and made it a transaction-related vs. activity-related element because it refers to the identifier of a EBTS search or transaction, not an activity like an arrest or offense.
13. Renamed ebts:RepositoryParameterText to ebts:RepositoryParameterNameText to be more descriptive
14. Changed the order of the children of ebts:TransactionRepositoryResponse to be more logical (alphabetization is not required for NIEM conformance)
15. Change the number of ebts:Candidate elements allowed from 25 to 99, since up to 99 can appear in an SRL transaction.
16. Changed all the documentation of elements and types to be NIEM-conformant.
17. Renamed many simple types to not use undefined acronyms, as required by the NIEM NDR.
18. Eliminated redundant simple types ebts:FPCCodeSimpleType and ebts:PATCodeSimpleType in favor of the already existing ansi-nist:PCSCodeSimpleType and fbi:FPCPatternCodeSimpleType
19. Renamed ebts:NCICFingerprintClassificationText to ebts:NCICFingerprintClassificationCode and created an appropriate code list for it
20. Removed structural element ebts:TransactionResponseData cause it did not contain all response data, contained some request data and added unnecessary structure.

NOTE: No changes were made to the Type 9 (Minutia) fields defined in version 1.0.2. It is assumed that the Type 9 record extensions were correctly defined in version 1.0.2.