

EBTS version 10.0 Changelog
EBTS XML Version 10.0 final 9/16/2013

- Modified XML version number to 10.0

EBTS Schema Changes:

- Added the following enumeration values to TOTCodeSimpleType for version 10: CDEL, CDELRL, DSPE, DSPR, ERRL, ERRT, FDSP, FIDR, FRS, IIDS (Future Capability), IIIS (Future Capability), MAPC, RBLHS, RBLHSR, RBN, RBRPT, RBRPTR, RBMNT, RBMNTN, RBRN, RBSCRM, RBSCVL, RBSR, SRB, SPMNT, SPMNTR, SPN, SRNRR, TXTSRCH, UBM, UUBD, XACT, XACTR, XMNT, XMNTR.
- Added the following elements:
 - Added CDN 2.051D, ebts:DispositionCategoryCodeText
 - Added CCT 2.051E, ebts:CourtCountNumber
 - Added POS 2.2028F, ansi-nist:FacelImageSubjectPoseCode
 - Added SMT 2.2028G, nc:PhysicalFeatureCategoryCode
 - Added POS 2.2032H, ansi-nist:FacelImageSubjectPoseCode
 - Added SMT 2.2032I, nc:PhysicalFeatureCategoryCode
 - Added POS 2.2033L, ansi-nist:FacelImageSubjectPoseCode
 - Added SMT 2.2033M, nc:PhysicalFeatureCategoryCode
 - Added ESI 2.2037, ebts:ExternalSubjectID
 - Added RBT 2.2040 ebts:RecordRapBackTriggeringEventCode
 - Added RBNI 2.2041, ebts:RecordRapBackActivityNotificationID
 - Added RBSI 2.2048, RecordRapBackSubscriptionID
 - Added RBSL 2.2050, RecordRapBackSubscriptionListText
 - Added HNOTI 2.2051, ebts:HitNotificationRequestIndicator
 - Added SMD 2.2058, ansi-nist:PhysicalFeatureDescriptionDetail
 - Added RBNF 2.2062, ebts:RecordRapBackActivityNotificationFormatCode
 - Added RBOO 2.2063, ebts:RecordRapBackInStateOptOutIndicator
 - Added RBUD 2.2064, ebts:RecordRapBackUserDefinedElement
 - Added RBC 2.2065, ebts:RecordRapBackCategoryCode
 - Added RBDI 2.2067, ebts:RecordRapBackDisclosureIndicator
 - Added DTR 2.2068, nc:DateRange
 - Added RBST 2.2071, ebts:RecordRapBackSubscriptionTerm
 - Added BIL 2.2073, ebts:BiometricImageList
 - Added TLI 2.2046, ebts:TierLevelCode
 - Added POC 2.2072, ebts:RecordPointOfContact
 - Added BIL 2.2073, ebts:BiometricImageList
 - Added RBR 2.2020, ansi-nist:RecordForwardOrganizations
- Extended the following elements:
 - Created ebts:RecordRapBackDataType> and ebts:RecordRapBackData> element. Moved all Rap Back elements into ebts:RecordRapBackData element.
 - Created ebts:PersonPhysicalFeature of type ebts:PhysicalFeatureType to extend nc:PhysicalFeatureType with ansi-nist:PhysicalFeatureDescriptionDetail and ansi-nist:PhysicalFeatureSize for 2.2058 SMD, 2.2059 TCL, and 2.2055 SMS.
- Modified elements:
 - Modified SLE 2.055, nc:StatusText to minOccurs=1 in ebts:SupervisionStatusType.
 - Modified ebts:BiometricImageDescriptionType, j:PersonFBIIdentification to minOccurs=1

- Modified AuditTrailRecordType , ansi-nist:FacelImageSubjectPoseCode to minOccurs=0
 - Modified TransactionRepositoryResponseType, TransactionRepositoryResponseRecord to maxOccurs=unbounded
 - Modified GeographicAreaCodeType to use ebts:POBCodeUnionSimpleType
 - Replaced ULR 2.2034 tag, ebts:RecordLatentRetentionIndicator, with ebts:TransactionUnsolvedLatentFileIndicator
 - Replaced PPD 2.2030, PPD 2.2028E, PPD 2.2033F and PPD 2.2032G tag, ansi-nist:MajorCasePrintCode, with ebts:FingerImageCode
 - Modified ebts:DispositionCategoryCodeText element to type=ebts:DispositionCategoryCodeType for CDN 2.051D. Added code table for CDN values
 - Updated definition for ebts:TransactionUnsolvedLatentFileIndicator element
 - Added ebts:CourtCountNumber to ebts:CourtDispositionData for CCT 2.051E.
 - Renamed DispositionCategoryCodeTextSimpleType to DispositionCategoryCodeSimpleType
 - Renamed MNUCodeUnionSimpleType to MNUUnionCodeSimpleType
 - Renamed NCICFingerprintClassificationSimpleType to NCICFingerprintClassificationCodeSimpleType
 - Renamed NCICFingerprintClassificationUnionSimpleType to NCICFingerprintClassificationUnionCodeSimpleType
 - Renamed NCICFingerprintClassificationType to NCICFingerprintClassificationCodeType
 - Renamed NDRCodeUnionSimpleType to NDRUnionCodeSimpleType
 - Renamed POBCodeUnionSimpleType toPOBUnionCodeSimpleType
- Removed the following:
- Removed NFAP enumeration value from TOTCodeSimpleType
 - Removed TOTPatternCodeSimpleType and Union
 - Removed GeoLocationType
 - Removed GeographicCoordinateDatumCode
 - Removed j:ArrestCharge and j: ArrestRelease from j:Arrest. Deprecated RecordActivityType (use RecordTransactionActivityType instead).
- Deprecated Elements
- Deprecated PRI 2.076, ebts:TransactionSearchPriorityCode
 - Deprecated DOS 2.046, ebts:ArrestDateSuffixCode
 - Deprecated CRN 2.085, ebts:CivilRecordIdentification
 - Deprecated PTD 2.063, ebts:PersonTypeDesignatorCode
 - Deprecated PTY 2.2009, ansi-nist:ImageCategoryCode
- Removed elements deprecated in 9.3
- Removed QDD 2.004 , TransactionQueryDepthCode
 - Removed ITD 2.058, RecordImageRecordCategoryRequestCode
 - Removed ETC 2.069, ebts:TransactionEstimatedCompletionMinutesQuantity
 - Removed CFS 2.077, TransactionCancelFingerprintSearchID
 - Removed UCN 2.081, ebts:PersonUCNIdentification
- Removed Future Capabilities:
- Removed future capability CSF 2.006
 - Removed future capability TBD 2.052
 - Removed future capability SPCN 2.093
 - Removed future capability CSF 2.2006
 - Removed future capability TBD 2.2011
 - Removed future capability IIR 2.2012

- Removed future capability DMI 2.2013
- Removed future capability TBD 2.2014
- Removed future capability SEAL 2.2019
- Removed future capability GeoLocation Fields – GEO_TIME 2.2025, GEO_CORD 2.2026, and DATUM_ID 2.2027

- Removed Future Capability Labels:
 - Removed future capability label from EVI 2.035
 - Removed future capability label from SDOB 2.2007
 - Removed future capability label from SNAME 2.2008
 - Removed future capability label from IFS 2.2021

EBTS version 9.4 Changelog
 EBTS XML Version 3.1 final 12/14/2012
 Inc3 and FLASH requirements

- Added the remaining 9.4 transactions to the IEPD and adjusted section 6.1 of the master document accordingly.
- Un-deprecated field 2.036 PHT

EBTS version 9.4 Changelog
 EBTS XML Version 3.1 draft 8/3/2012
 Inc3 and FLASH requirements

- Added ebts:TransactionBiometricImageEnrollmentRecordList and ebts:BiometricImageEnrollmentRecord to include element 2.2061 and all associated subfields.

EBTS version 9.4 Changelog
 EBTS XML Version 3.1 draft 5/25/2011
 Inc3 and FLASH requirements

- Added ebts:TransactionBiometricImageEnrollmentRecordList and ebts:BiometricImageEnrollmentRecord to include element 2.2061 and all associated subfields.
- Added SRNR TOT code
- Added ebts:RecordTransactionActivity to include fields necessary for FLASH as well as 9.4 requirements
- Added new elements to NIEM subset:
 - j:ChargeText
 - nc:DispositionText
 - nc:DispositionDate
 - nc:EndDate
 - nc:StartDate

- Changed ebts:DomainDefinedDescriptiveFieldsType child ebts:RecordActivity to an abstract element, ebts:RecordActivityAbstract , in order to allow for a new set of RecordActivity Fields to be substituted in, when including new EBTS 9.4 fields. This preserves backwards compatibility for early adopters.
- Added ebts:PersonGeneralizedFrictionRidgePositions to ebts:RecordSubjectType, in order to handle latent friction ridge search requests when using “finger position” for would be inappropriate. FGP 2.074.
- Increased CTZ to Max 10
- Added MNU code “FN” to ebts:MNUCodeSimpleType for DHS FIN numbers.
- Added new NDR restricted code type, ebts:NDRReservedCodeSimpleType, to allow the new and existing reserved blocks of NDRs to be validated, without enumerating them (since they are not for general external users). Created a union of the two types, ebts:NDRCodeUnionSimpleType, to form the new basis for the existing ebts:RecordFBIRepositoryCodeType
- Deprecated NDR values 4 and 5 within ebts:NDRReservedCodeSimpleType.
- Deprecated ebts:PersonDigitalImageAvailableIndicator.
- Added new code values to ebts:SRFCodeSimpleType to support SRF 2.059
- Removed from Biometrics subset the SLC value (ScaleUnitsCodeSimpleType) of '0' as it is not permitted in EBTS.
- Added the requirement that DOM 1.013 is mandatory for EBTS 9.4 (biometrics.xsd)
- Consolidated types, ebts:EBTSRecordTransactionDataType and ebts:RecordTransactionDataType, removing ebts:EBTSRecordTransactionDataType.

EBTS version 9.3 Changelog
EBTS XML Version 3.0 draft 3/28/2011

Housekeeping Issues

- Updated from NIEM 2.0 to NIEM 2.1
- Added new NCIC Fingerprint Classification Code Types:
 - ebts:NCICFingerprintClassificationSimpleType
 - ebts:NCICFingerprintUlnarLoopSimpleType
 - ebts:NCICFingerprintRadialLoopSimpleType
 - ebts:NCICFingerprintClassificationUnionSimpleType
 - ebts:NCICFingerprintClassificationType
- Changed type of ebts:NCICFingerprintClassificationCode element to ebts:NCICFingerprintClassificationType
- Added complex type ebts:METCodeType and Changed type of ebts:ReadingSystemCodingMethodCode to use the new type
- Added complex type ebts:LatentImageCategoryCodeType and Changed type of ebts:RecordLatentImageCategoryCode to use the new type
- Renamed ebts:TOTCodePatternSimpleType to ebts:TOTPatternCodeSimpleType for NIEM conformance
- Created ebts:ArrestDateSuffixCodeType and ArrestDateSuffixCodeSimpleType to represent the allowed values of the field 2.046 (DOS)

- Added ebts:TransactionRepositoryResponseRecordType to hold rows of statistical details of the Repository Response.
- Added element ebts:TransactionRepositoryResponseRecord of type ebts:TransactionRepositoryResponseRecordType as a child of ebts:TransactionRepositoryResponseType in order to allow multiple rows of statistical data.
- Added new enumeration values for Verification transactions to Search Results Findings codes, ebts:SRFCodeSimpleType
- Corrected SPCN 2.093 name, ebts:RecordSpecialPopulationCognizantFileIdIdentification to ebts:RecordSpecialPopulationCognizantFileIdentification
- Tightened the cardinality on the children of ebts:MinutiaPositionType to better reflect the specification. This affects the CRA 9.021 and DLA 9.022 fields.
- Revised cardinalities to reflect changes to the specification: ebts:PersonFingerprintSetType child, itl:FingerprintImageFingerMissing, max changed from 9 to 13
- Revised ebts:PersonNameType to incorporate changes to the extended name elements:
 - NAM1-3, 2.2001-2.2003 have been collapsed into the existing NAM 2.018 PersonName elements (Given, Middle and Sur)
 - NAM4 2.2004 has been renamed <ebts:PersonFourthImportanceName> and
 - NAM5 2.2005 has been renamed <ebts:PersonFifthImportanceName>
- Added new types to restrict the location codes allowed for GEO 2.044 values: ebts:GeographicAreaCodeSimpleType and ebts:GeographicAreaCodeType.
- Changed GEO 2.044 element, ebts:TransactionSearchAreaCode to use new type.
- Added new POB codes to the ebts:POBCodeSimpleType.

Inc3 Updates:

- Renamed ebts:RecordLatentImageCategoryCode to ebts:RecordBiometricImageCategoryCode, ebts:RecordLatentImageCategoryCodeSimpleType to ebts:RecordBiometricImageCategoryCodeSimpleType, and ebts:RecordLatentImageCategoryCodeType to ebts:RecordBiometricImageCategoryCodeType, in order to accomodate new field requirements for Inc3.
- Added new enumeration values to ebts:RecordBiometricImageCategoryCodeSimpleType for Inc3.
- Added new elements to meet 9.3 requirements:
 - Added new TOT Code values: BDEC, BDECR, BDEL, BDELR, BATR and BATQ
 - ATR 2.2032 --> ebts:TransactionAuditTrailRecordList, ebts:AuditTrailRecord, ebts:RecordReceivingAgency, ebts:RecordDisseminationDate, ebts:RecordTransactionCategoryCode
 - BIA 2.2031 --> ebts:BiometricImageAvailableCode
 - BID 2.2028 --> ebts:TransactionBiometricImagesRequested, ebts:FrictionRidgePositionCode, ebts:BiometricImageDescription
 - BSI 2.2029 --> ebts:BiometricSetID

- EVI 2.2035 --> ebts:EnrollmentEventID
- ISC 14.200, 15.200 --> ebts:ImageSourceCode, ebts:Type14UserDefinedFields, ebts:Type15UserDefinedFields
- PPD 2.2030 --> ebts:TransactionPrintPositionDescriptors, ebts:FingerImageCode
- PPD 2.2028E, 2.2032G, 2.2033F --> ebts:PrintPositionDescriptors
- ULR 2.2034 --> ebts:RecordLatentRetentionIndicator
- Added new types to meet 9.3 requirements:
 - ATR 2.2032 --> ebts:AuditTrailRecordListType, ebts:AuditTrailRecordType
 - BID 2.2028 --> ebts:BiometricImageDescriptionListType, ebts:BiometricImageDescriptionType, ebts:BiometricImageCategoryCodeType
 - ISC 14.200, 15.200 --> ebts:ImageSourceCodeType, ebts:ImageSourceCodeSimpleType, ebts:UserDefinedFrictionRidgeInformationType
 - PPD 2.2030 --> ebts:PrintPositionDescriptorsType
- Updated ebts:Candidate to meet the new CNL requirements:
 - j:PersonFBIIdentification
 - ebts:PersonName
 - ebts:BiometricSetID
 - ebts:RecordBiometricImageCategoryCode
 - ansi-nist:FrictionRidgePositionCode
 - ebts:PrintPositionDescriptors
 - ebts:CandidateMatchScoreValue
 - ebts:BiometricImageAvailableCode
 - ebts:RecordFBIRepositoryCode
 - ansi-nist:ImageReferenceIdentification
 - ebts:ORIPointOfContactText
- Deprecated QDD 2.004, ebts:TransactionQueryDepthCode.
- Deprecated ITD 2.058, ebts:RecordImageRecordCategoryRequestCode.
- Deprecated ETC 2.069, ebts:TransactionEstimatedCompletionMinutesQuantity.
- Deprecated CFS 2.077, ebts:TransactionCancelFingerprintSearchID.
- Deprecated UCN 2.081, ebts:PersonUCNIdentification.
- Deprecated ebts:QDDCodeType and ebts:QDDCodeSimpleType.
- Added new code values for BiometricImageCategoryCodeType and converted from integer to alpha codes. This harmonizes the values for IMT and BIA.
- Updated Cardinality for ebts:ImageCaptureDeviceDetailType subitems to make them all mandatory.
- Updated Cardinality for ebts:TransactionFingerprintImagesType to make at least one finger position required.
- Updated Cardinality for ebts:RecordFBIRepositoryCode to max 10.
- Updated Cardinality for BSI 2.2029 to max 1000.
- Changed RSR 2.065 to remove ebts:RepositoryParameterPercent and created new elements, ebts:RepositoryCriminalParameterPercent, ebts:RepositoryCivilParameterPercent, ebts:RepositoryCombinedParameterPercent to reflect Inc3 Requirements.

- Changed Type of ebtsAFISSegmentControlID from nonNegativeInteger to type niem-xsd:string.
- Changed Cardinality of ebts:ContributorCaseIdentificationNumber from Max 200 to Max 5.
- Changed Cardinality of ebts:RecordBiometricImageCategoryCode within the ebts:DomainDefinedDescriptiveFieldsType from Max 10 to Max 1000.
- Changed Cardinality of ebts:AFISSegmentControlID from Max 200 to Max 1.
- Changed Cardinality of ebts:TransactionSearchPriorityCode from Max 200 to Max 1.
- Changed cardinality of CNL subfield, ebts:RecordFBIRepositoryCode from Max 1 to Max 100.
- Added new values for the ebts:NDRCodeSimpleType.

Changes due to ANSI/NIST-ITL 2011 Adoption:

- Changed ebts:DomainDefinedDescriptiveFieldsType to remove extension of no-longer-existent ansi-nist:RecordType. Directly added the previously inherited three elements to the type definition.
- Changed ebts:EBTSRecordTransactionDataType from a restriction of the now-deprecated ansi-nist:TransactionType to an extension of s:ComplexObjectType. Removed unused ansi-nist:TransactionSearchRequestCategoryCode element.
- Changed ebts:TOTCodeSimpleType to include all of the TOTs from the no-longer-existent ansi-nist:TOTCodeSimpleType. Removed the reference to ansi-nist type in ebts:TOTCodeSimpleUnionType.
- Removed no-longer necessary ebts:TSRCodeUnionSimpleType and changed ebts:TSRCodeType to extend ebts:TSRCodeSimpleType instead.
- Replaced ansi-nist:MinutiaeFingerPositionType with the new biometrics element, VertexType. This changed the type declarations for:
 - ebts:OffsetCenterOfRotation
 - ebts:OffsetTranslatedCenterOfRotation
 - ebts:OffsetTranslatedUpperLeftCoordinates
 - ebts:OffsetUpperLeftCoordinates
- Changed ebts:MinutiaPositionType from a restriction of the no-longer-existent ansi-nist:MinutiaPositionType to an extension of s:ComplexObjectType.
- Changed element ebts:PersonHairColorCode to be of the new biometrics type HairColorCodeType instead of the no-longer-existent ansi-nist:SHCCCodeType. Note that this adds a new value. "STR" for "Streaked."
- Removed no longer necessary ebts:Transaction, ebts:TransactionAugmentation, and ebts:TransactionType.

EBTS version 9.1 Changelog EBTS XML Version 2.0 Final 4/21/2010

- Added new error TOT, ERRR, to TOTCodeSimpleType
- Edited subset niem-core schema and wantlist to add correct cardinality to Latitude and Longitude elements.

- Changed cardinality for the ebts:RecordActivity element within the ebts:DomainDefinedDescriptiveFieldsType from 0..*, to 0..1
- Added <ansi-nist:ImageReferenceIdentification> element to CAN 2.064

EBTS version 9.1 Changelog

EBTS XML Version 2.0 draft 3/14/2010

- Created new POB types, ebts:POBCodeSimpleType, ebts:POBCodeUnionType and ebts:POBCodeType to correctly represent NCIC POB codes, as fbi:POBCodeType is out-of-date.
- Created new substitution element of type ebts:POBCodeType, ebts:PersonCitizenshipCode, for nc:PersonCitizenship (abstract),
- Changed type of ebts:TransactionSearchAreaCode to ebts:POBCodeType
- Changed element j:PersonBirthplaceCode to ebts:PersonBirthPlaceCode, of type ebts:POBCodeType
- Created new fields to represent ERS 2.075
(<ebts:TransactionRapsheetResponseText>), SII 2.2023
(<ebts:TransactionSupplementaryIdentityInformationText>) and added them to <ebts:TransactionResponseData>
- Created new field <ebts:TransactionHitCategoryCode> within <ebts:TransactionResponseData> to represent HTI 2.2024 – Hit Type Indicator. This will be code list will be expanded in the future.
- Added ebts:TOTCodePatternSimpleType as a placeholder to allow for information sharing across agencies. This will be Changed in the future as required TOTs for interagency sharing become known.
- Changed ebts:TOTCodeSimpleUnionType by adding an ebts:TOTCodePatternSimpleType member. This will be Changed in the future as required TOTs for interagency sharing become known.
- Created new element to represent ITD 2.058, <ebts:RecordImageRecordCategoryRequestCode>
- Created new types to represent DoD GeoLocator fields: GeographicCoordinateDatumCodeSimpleType, GeographicCoordinateDatumCodeType, GeoLocationType
- Created new elements represent DoD GeoLocator fields: <ebts:GeographicCoordinateDatumCode>, <ebts:BiometricCaptureGeoLocation> and added them to
- Changed name of type LatentImageCategoryCodeType to LatentImageCategoryCodeSimpleType
- Changed name of type MNUCodeSimpleUnionType to MNUCodeUnionSimpleType
- Changed name of type TSRCodeSimpleUnionType to TSRCodeUnionSimpleType
- Renamed element LatentImageCategoryCode to RecordLatentImageCategoryCode
- Renamed element ImageCaptureDetail to RecordImageCaptureDetail
- Renamed element FBIRepositoryCode to RecordFBIRepositoryCode
- Renamed element ImageRecordCategoryRequestCode to RecordImageRecordCategoryRequestCode
- Renamed element ImagesRequestedQuantity to RecordImagesRequestedQuantity

- Renamed element IrisImagesRequestedCode to RecordIrisImagesRequestedCode
- Created new element <ebts:PersonAlternateName> to allow for future capabilities, NAM1-5, and to provide consistency with the other PersonName elements within EBTS.
- Changed cardinality of <ebts:TransactionSearchPriorityCode> to max 200
- Changed name and type of element PHT 2.036 to a boolean, <ebts:PersonDigitalImageAvailable>
- Changed name of element PPA 2.035 to <ebts:PersonPalmPrintAvailableIndicator>
- Changed name and type of element DNAF 2.2016 to a boolean, <ebts:PersonDNAAvailableIndicator>
- Changed name of element RES 2.041 to <ebts:PersonResidenceLocation>
- Rearranged the order of RecordSubjectType subelements, to group them more logically, where possible.
- Corrected the cardinalities for CIN, CIX, and LCX
- Tweaked NIEM subset

EBTS XML version beta 1.05 Changelog 12/18/2009

Substantive Changes

- Added TOT codes for EHRR,TPRR, EQER, EQRR
- Added NDR code values 10-15 to NDRCodeSimpleType
- Changed nc:PersonName within the ebts:Candidate structure to ebts:PersonName
- Added new type UserDefinedFieldsType, and element StateDefinedFields to allow represent state-specific information to be included.
- Replaced enumeration list for METCCodeType with an equivalent pattern match. Added documentation for the code values.
- Removed unused element ebts:AlternatePalmprintQualityValue
- Changed ebts:TransactionFingerprintImagesUpdatedType to ebts:TransactionFingerprintImagesType
- Changed Type and name of element ebts:TransactionFingerprintImagesRequestedText, TextType to ebts:TransactionFingerprintImagesRequested, type ebts:TransactionFingerprintImagesType
- Added "units of measurement" to PersonHeight, PersonWeight and PersonAge constructs.
- Added new types, MNUCodeSimpleType, MNUCodeSimpleUnionType, MNUCodeType to represent the union of FBI and EBTS MNU codes.
- Added new element, ebts:PersonIDCategoryCode of ebts:MNUCodeType
- Added identification categories to SID (State Identification Number) and MNU (Miscellaneous Identification Number) constructs.
- Moved element ebts:ContributorCaseExtensionIdentification (CIX 2.011) to the structure for CIN 2.010
- Created new Type, ebts:FBILatentCaseIdentificationType, to contain FBI Latent File Numbers
- Changed Type of element ebts:FBILatentCaseIdentification from nc:IdentificationType to ebts:FBILatentCaseIdentificationType

- Created new element ebts:FBILatentCaseNumber of nc:IdentificationType
- Tweaked NIEM subset
- Changed name of element ebts:MinutiaCharaterizationQualityValue to ebts:MinutiaCharacterizationQualityValue
- Removed element ebts:FingerprintRidgeCountValue and substituted ansi-nist:RidgeCountValue
- Changed type of ebts:PersonSubmittedName to ebts:PersonNameType to provide consistency through all transaction names
- Changed cardinality of elements comprising ebts:FingerprintImageFingerType
- Removed unnecessary substitutionGroups from MinutiaDetail and TransactionAugmentation
- Moved <ebts:MinutiaCoordinateOffsets> from ebts:MinutiaeFBIStandard to ebts:Minutiae
- Added new type, PersonSexCodeType
- Changed ebts:PersonSexCode to ebts:PersonSexCodeType
- Replaced 2.064A FNU <j:PersonFBIIdentification> with UCN <ebts:PersonUCNIdentification> to reflect changes to the requirements
- Added <ansi-nist:FingerPostionCode> element to CAN 2.064
- Replaced type <ebts:MinutiaeFingerPatternType> with type <ebts:RidgeCoreDeltaType>
- Added new element <ebts:RidgeCoreDelta> to <ebts:FingerprintImageFingerType>
- Changed base type of ebts:MinutiaType to s:ComplexObjectType from itl:MinutiaType
- Removed unnecessary element ansi-nist:MinutiaeRidgeCountIndicator from ebts:FBIStandardMinutiaeType

NIEM conformance Changes

- Changed name of element ebts:MinutiaOctant to ebts:MinutiaOctantNumeric
- Changed name of element ebts:MinutiaOctantResidualValue to MinutiaOctantResidualNumeric
- Changed name of element ebts:CandidateListMatchScore to ebts:CandidateMatchScoreValue
- Changed name of element ebts:MinutiaeFingerCoreAttribute to ebts:MinutiaeFingerCoreAttributePosition
- Changed name of element ebts:MinutiaeFingerDeltaAttribute to ebts:MinutiaeFingerDeltaAttributePosition
- Changed name of element ebts:DomainDefinedDescriptiveText to ebts:DomainDefinedDescriptiveFields
- Changed name of element ebts:TransactionEstimatedCompletionTimeQuantity to ebts:TransactionEstimatedCompletionMinutesQuantity
- Changed name of element ebts:TransactionCancelFingerprintSearchNumber to ebts:TransactionCancelFingerprintSearchID
- Changed name of element ebts:AFISSegmentControlNumber to ebts:AFISSegmentControlID
- Changed type and name of element ebts:ContributorCaseIdentificationExtensionNumber (integer) to ebts:ContributorCaseExtensionIdentification (IdentificationType)

- Changed type and name of element ebts:FBILatentCaseExtensionNumber, integer, to ebts:FBILatentCaseNumberExtension nc:IdentificationType
- Changed type of element ebts:FBIFileNumber from integer to nc:IdentificationType
- Changed name of element ebts:RepositoryParameterPercentage to ebts:RepositoryParameterPercent
- Changed name of element ebts:TransactionPenetrationQueryResponsePercentage to ebts:TransactionPenetrationQueryResponsePercent
- Changed type of element ebts:ContributorAssignedIdentificationNumber from integer to nc:IdentificationType
- Changed name of element ebts:NCICFingerprintClassificationText to ebts:NCICFingerprintClassificationCode
- Changed name of element ebts:ImagesRequestedNumber to ebts:ImagesRequestedQuantity
- Changed name of element ebts:LatentImageCategoryCodeType to ebts:LatentImageCategoryCodeSimpleType
- Changed name of element ebts:METCodeType to ebts:METCodeSimpleType
- Created complex type ebts:LatentImageCategoryCodeType extending ebts:LatentImageCategoryCodeSimpleType
- Changed name of element ebts:ArrestDateSuffixText to ebts:ArrestDateSuffixCode

EBTS XML version beta 1.04 Changelog 11/12/2009

- Added niem-conformant syntax to schema
- Added necessary ANSI/NIST components to the subset schema
- Added cardinality constraints to the schemas
- Removed unnecessary components from the subset schema
- Added new element, <ebts:ChargeText> in a substitutionGroup for nc:ActivityDescriptionText, in order to more cohesively represent AOL 2.047B and COL 2.051B
- Added elements <ansi-nist:PositionVerticalCoordinateValue> and <ansi-nist:PositionHorizontalCoordinateValue/> to FBIMinutiaType. These are to represent the minutia coordinates.
- Changed <ebts:MinutiaClassifierQualityValue> to type "xsd:decimal" to allow for the correct values of 1.0000 to 99.9999.
- Added element <ansi-nist:TransactionUserIdentification> to EBTSRecordTransactionDataType, in order to represent EID 2.049
- Added new type, <ebts:PersonNameType> as an extension of and <nc:PersonName> in order to logically represent <ebts:PersonExtendedName> as part of a subject's proper name
- Added element <ebts:MinutiaOctant> to represent the octant a neighboring minutia occurs within
- Created new type, <ebts:MinutiaRidgeCountType> to represent Minutia Octant and MinutiaOctantResidualValue as part of MAT 9.023. This extends (and replaces the use of) <ansi-nist:MinutiaRidgeCountType>
- Changed <ebts:MinutiaPolygonalVerticesPositionsType><itl:PositionPolygonVertex> to maxOccurs="20"

- Changed ebts:CandidateListMatchScore to be contained within the ebts:Candidate structure for its candidate.

EBTS version 9.0 Changelog 11/06/2009

- Added i:ConformantIndicator element to indicate NIEM conformance.
- Added version attribute on xsd:schema.
- Created NIEM Subset
- Removed or replaced various types and elements:
 - Replaced ebts:CaseTitleText with nc:CaseTitleText
 - Removed ebts:ActivityOrganizationAssociationType
 - Removed ebts:PersonEmploymentAssociation
 - Removed ebts:PersonEmploymentAssociationType
 - Removed ebts:PersonResidenceAssociation
 - Removed ebts:PersonResidenceAssociationType
 - Replaced ebts:PATCodeSimpleType with fbi:FPCPatternCodeSimpleType
 - Removed ebts:PersonType as it was no longer necessary after subsetting. Modified ebts:RecordType to extend nc:PersonType directly instead.
 - Replaced <nc:ActivityDescriptionText> (AOL -- ARREST OFFENSE LITERAL - 2.047B) with <j:ChargeText>, moving the element inside of <j:ArrestCharge>
 - Replaced <j:ChargeUCRCrimeCategoryText> (COL – COURT OFFENSE LITERAL – 2.051B) with <j:ChargeText>.
 - Replaced <nc:ActivityDescriptionText> (ICO – IDENTIFICATION COMMENTS – 2.056) with <j:SubjectOffenderNoticeText>
 - Removed ebts:FPCCodeSimpleType
 - Removed ebts:FPCCodeType
 - Removed element ebts:MinutiaeFingerCorePosition, using ansi-nist:MinutiaeFingerCorePosition instead. This also effects ebts:MinutiaeType declaration.
 - Renamed element ebts:MinutiaeFingerDeltaPosition to ebts:MinutiaeFingerDeltaAttribute and changed its type to ebts:MinutiaPositionType,. This also effects ebts:MinutiaeType declaration.
- Created new elements:
 - Created <ebts:MinutiaPosition> to represent the ROV 9.018 element
 - Created type <ebts:MinutiaeFingerPatternType> and element <ebts:MinutiaeFingerPattern> to represent the APC 9.017 element.
 - Created <ebts:MinutiaeFingerPatternCode> to represent the APAT 9.017A element.
 - Added element <ebts:MinutiaeFingerPattern> to the type definition for <ebts:MinutiaeType>
 - Replaced complex element <j:PersonPalmprint> with new Boolean type element <ebts:PalmPrintAvailableIndicator> to represent the PPA 2.035 element.

- Added new type, PersonSexCodeSimpleType, and new substitution group element, <ebts:PersonSexCode>, for <nc:PersonSex> to represent EBTS codes, replacing the element <nc:PersonSexCode>.
- Added new substitution group element for nc:PersonHairColor, ebts:PersonHairColorCode, of type ansi-nist:SHCCodeType to represent EBTS codes, replacing the element <nc:PersonHairColorCode>.
- Created new nc:OrganizationType element, <ebts:RecordControllingAgency>, to model the CRI 2.073 element, replacing the Ebts:ActivityOrganizationAssociation
- Corrected EAD, EID, OCP and RES to reflect the new underlying XML structures.
- Created new ebts:LatentImageCategoryCodeType type to represent the allowed latent print image types in type 7 and type 13 records (IMT 2.062)
- Created new ebts:LatentImageCategoryCode element to contain the latent print image category in type 7 and type 13 records (IMT 2.062)
- Updated ebts:DomainDefinedDescriptiveTextType to include (IMT 2.062)
- ebts:LatentImageCategoryCode instead of ansi-nist: FingerprintImageImpressionCaptureCategoryCode
- Created new type, ebts:MinutiaeReadingSystemType to include allowed ebts:MinutiaeReadingSystem element
- Created new element, ebts:MinutiaeReadingSystem to represent MET 9.016C
- Added new element to FBIStandardMinutiaeType, replacing ansi-nist:MinutiaeReadingSystem
- Added new type METCodeType with allowed code values for ebts:ReadingSystemCodingMethodCode
- Created new element, ContributorAssignedIdentificationNumber to represent EBTS element CIDN 2.2022. Added new element to ebts:RecordActivityType
- Created new type, MinutiaPolygonalVerticesPositionsType to support ROV 9.018
- Created new element to support ROV: MinutiaPolygonalVerticesPositions
- Created new elements to support COF 9.019 :
 - OffsetUpperLeftCoordinates
 - OffsetCenterOfRotation
 - OffsetTranslatedCenterOfRotation
 - OffsetTranslatedUpperLeftCoordinates
 - MinutiaCoordinateOffsets
- Created new Type, MinutiaCoordinateOffsetsType, to support COF 9.019
- Added element MinutiaCoordinateOffsets to FBIStandardMinutiaeType, replacing MinutiaPosition, in order to support COF.
- Created new element, <ebts:ImageCaptureDetail> as a restriction of the ansi-nist:ImageCaptureDetail element representing IMA 2.067.
- Added new enumeration values to SRFCodeSimpleType to accommodate all possible values or the SRF field.
- Changed enumeration value for RPSR to RPISR in TOTCodeSimpleType.

- Added new element to ebts:MinutiaeType, ansi-nist:PositionUncertaintyValue
- to represent ORN 9.020
- Added TOTs NFUE, DOCE, EMUF, EQHR to TOTCodeSimpleType

➤ Corrected Documentation:

- Corrected Schema Definitions for PersonType and RecordSubjectType.
- Added additional information to Schema Definitions for FBIMinutiaeType and FBIStandardMinutiaeType to clarify them.
- Added NIEM NDR-conformant language to definitions where necessary.
- Fixed various typos.