

Record/Field Full XML Mapping

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Type-1 Transaction Information Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageInformationRecord	itl:Transaction	1	1
1.005	DAT	itl:PackageInformationRecord/itl:Transaction	itl:TransactionDate	1	1
1.017	AMN	itl:PackageInformationRecord/itl:Transaction	itl:TransactionDestinationAgency	1	1
1.017-A	DAN	itl:PackageInformationRecord/itl:Transaction/itl:TransactionDestinationAgency	itl:AgencyName	0	1
1.007	DAI	itl:PackageInformationRecord/itl:Transaction/itl:TransactionDestinationAgency	nc:IdentificationID	1	1
		itl:PackageInformationRecord/itl:Transaction	itl:TransactionOriginatingAgency	1	1
1.017-B	OAN	itl:PackageInformationRecord/itl:Transaction/itl:TransactionOriginatingAgency	itl:AgencyName	0	1
1.008	ORI	itl:PackageInformationRecord/itl:Transaction/itl:TransactionOriginatingAgency	nc:IdentificationID	1	1
1.014	GMT	itl:PackageInformationRecord/itl:Transaction	itl:TransactionUTCDate	0	1
1.009	TCN	itl:PackageInformationRecord/itl:Transaction	itl:TransactionControlNumberID	1	1
1.010	TCR	itl:PackageInformationRecord/itl:Transaction	itl:TransactionControlReferenceNumberID	0	1
1.013	DOM	itl:PackageInformationRecord/itl:Transaction	itl:TransactionDomain	0	1
1.013-B	DVN	itl:PackageInformationRecord/itl:Transaction/itl:TransactionDomain	itl:DomainVersionNumberID	0	1
1.013-A	DNM	itl:PackageInformationRecord/itl:Transaction/itl:TransactionDomain	itl:TransactionDomainName	1	1
1.016	APS	itl:PackageInformationRecord/itl:Transaction	itl:TransactionApplicationProfile	0	99
1.016-A	APO	itl:PackageInformationRecord/itl:Transaction/itl:TransactionApplicationProfile	biom:ApplicationProfileOrganizationName	1	1
1.016-B	APN	itl:PackageInformationRecord/itl:Transaction/itl:TransactionApplicationProfile	biom:ApplicationProfileName	1	1
1.016-C	APV	itl:PackageInformationRecord/itl:Transaction/itl:TransactionApplicationProfile	itl:ApplicationProfileVersionNumberID	1	1
		itl:PackageInformationRecord/itl:Transaction	itl:TransactionImageResolutionDetails	1	1
1.011	NSR	itl:PackageInformationRecord/itl:Transaction/ itl:TransactionImageResolutionDetails	biom:NativeScanningResolutionValue	1	1
1.012	NTR	itl:PackageInformationRecord/itl:Transaction/ itl:TransactionImageResolutionDetails	biom:NominalTransmittingResolutionValue	1	1
1.002-A	VER	itl:PackageInformationRecord/itl:Transaction	itl:TransactionMajorVersionValue	1	1
1.002-B	VER	itl:PackageInformationRecord/itl:Transaction	itl:TransactionMinorVersionValue	1	1
1.006	PRY	itl:PackageInformationRecord/itl:Transaction	itl:TransactionPriorityValue	0	1
1.004	TOT	itl:PackageInformationRecord/itl:Transaction	itl:TransactionCategoryAbstract	1	1
1.003	CNT	itl:PackageInformationRecord/itl:Transaction	itl:TransactionContentSummary	1	1
1.003-B	CRC	itl:PackageInformationRecord/itl:Transaction/itl:TransactionContentSummary	itl:ContentRecordQuantity	1	1
1.003-C-D		itl:PackageInformationRecord/itl:Transaction/itl:TransactionContentSummary	itl:ContentRecordSummary	1	999

Type-1 Transaction Information Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
1.003-D	IDC	itl:PackageInformationRecord/itl:Transaction/itl:TransactionContentSummary/ itl:ContentRecordSummary	biom:ImageReferenceID	1	1
1.003-C	REC	itl:PackageInformationRecord/itl:Transaction/itl:TransactionContentSummary/ itl:ContentRecordSummary	itl:RecordCategoryCode	1	1
1.015	DCS	itl:PackageInformationRecord/itl:Transaction	itl:TransactionCharacterSetDirectory	0	1
1.015-B	CSN	itl:PackageInformationRecord/itl:Transaction/ itl:TransactionCharacterSetDirectory	itl:CharacterSetCommonNameCode	1	1
1.015-A	CSI	itl:PackageInformationRecord/itl:Transaction/ itl:TransactionCharacterSetDirectory	itl:CharacterSetIndexCode	1	1
1.015-C	CSV	itl:PackageInformationRecord/itl:Transaction/ itl:TransactionCharacterSetDirectory	itl:CharacterSetVersionID	0	1
1.018	GNS	itl:PackageInformationRecord/itl:Transaction	itl:TransactionGeographicNameSetCode	0	1

Type-2 User-Defined Descriptive Text Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
2.002	IDC	itl:PackageDescriptiveTextRecord	biom:ImageReferenceID	1	1
2.003+	UDF	itl:PackageDescriptiveTextRecord	itl:UserDefinedFields	0	*
		itl:PackageDescriptiveTextRecord/itl:UserDefinedDescriptiveDetail	itl:DomainDefinedDescriptiveDetail	1	1
		itl:PackageDescriptiveTextRecord/itl:UserDefinedDescriptiveDetail	itl:OtherDescriptiveDetail	0	*

Type-4 Grayscale Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
4.002	IDC	itl:PackageLegacyFingerprintImageRecord	biom:ImageReferenceID	1	1
4.009	IMG	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	nc:Base64BinaryObject	1	1
4.008	CGA	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	itl:LegacyImageCompressionAlgorithmCode	1	1
4.005	ISR	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	biom:ScanningResolutionCategoryCode	1	1
4.006	HLL	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	biom:ImageHorizontalLineLengthPixelQuantity	1	1
4.007	VLL	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	biom:ImageVerticalLineLengthPixelQuantity	1	1
4.004	FGP	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	biom:LegacyExemplarFingerPositionCode	1	6
4.003	IMP	itl:PackageLegacyFingerprintImageRecord/itl:FingerprintLegacyImageData	biom:FingerprintLegacyImageImpressionCaptureCategoryCode	1	1

Type-7 User-Defined Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
7.002	IDC	itl:PackageUserDefinedImageRecord	biom:ImageReferenceID	1	1
7.003+	UDF	itl:PackageUserDefinedImageRecord	itl:UserDefinedFields	0	*
7.999	UDF	itl:PackageUserDefinedImageRecord	biom:BiometricImageAbstract	0	1

Type-8 Signature Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
8.002	IDC	itl:PackageSignatureImageRecord	biom:ImageReferenceID	1	1
		itl:PackageSignatureImageRecord	itl:SignatureImage	1	1
8.006	HLL	itl:PackageSignatureImageRecord/itl:SignatureImage	biom:ImageHorizontalLineLengthPixelQuantity	1	1
8.007	VLL	itl:PackageSignatureImageRecord/itl:SignatureImage	biom:ImageVerticalLineLengthPixelQuantity	1	1
8.005	ISR	itl:PackageSignatureImageRecord/itl:SignatureImage	biom:ScanningResolutionCategoryCode	1	1
8.003	SIG	itl:PackageSignatureImageRecord/itl:SignatureImage	itl:SignatureCategoryCode	1	1
8.004	SRT	itl:PackageSignatureImageRecord/itl:SignatureImage	itl:SignatureRepresentationCode	1	1
8.008	DATA	itl:PackageSignatureImageRecord/itl:SignatureImage	nc:Base64BinaryObject	0	1
8.008	DATA	itl:PackageSignatureImageRecord/itl:SignatureImage	itl:SignatureImageVectorList	0	1
8.008-A-C	DATA	itl:PackageSignatureImageRecord/itl:SignatureImage/ itl:SignatureImageVectorList	itl:SignatureImageVector	2	*
8.008-C	VPEN	itl:PackageSignatureImageRecord/itl:SignatureImage/ itl:SignatureImageVectorList/itl:SignatureImageVector	itl:VectorPenPressureValue	1	1
8.008-B	VYC	itl:PackageSignatureImageRecord/itl:SignatureImage/ itl:SignatureImageVectorList/itl:SignatureImageVector	itl:VectorPositionVerticalCoordinateValue	1	1
8.008-A	VXC	itl:PackageSignatureImageRecord/itl:SignatureImage/ itl:SignatureImageVectorList/itl:SignatureImageVector	itl:VectorPositionHorizontalCoordinateValue	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.002	IDC	itl:PackageMinutiaeRecord	biom:ImageReferenceID	1	1
9.902	ANN	itl:PackageMinutiaeRecord	biom:ProcessAnnotation	0	*
9.902-A	GMT	itl:PackageMinutiaeRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:ZuluDateTime	1	1
9.902-B	NAV	itl:PackageMinutiaeRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
9.902-C	OWN	itl:PackageMinutiaeRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
9.902-D	PRO	itl:PackageMinutiaeRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
9.003	IMP	itl:PackageMinutiaeRecord	itl:FrictionRidgeImpressionCaptureCode	1	1
9.901	ULA	itl:PackageMinutiaeRecord	biom:MinutiaeUniversalLatentWorkstationAnnotationText	0	*
		itl:PackageMinutiaeRecord	biom:CaptureDevice	0	1
9.903	DUI	itl:PackageMinutiaeRecord/biom:CaptureDevice	biom:DeviceID	0	1
9.904-A	MAK	itl:PackageMinutiaeRecord/biom:CaptureDevice	biom:DeviceMakeText	1	1
9.904-B	MOD	itl:PackageMinutiaeRecord/biom:CaptureDevice	biom:DeviceModelText	1	1
9.904-C	SER	itl:PackageMinutiaeRecord/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
9.005 to 9.012		itl:PackageMinutiaeRecord	itl:Minutiae	1	*
		itl:PackageMinutiaeRecord/itl:Minutiae	itl:MinutiaeNISTStandard	1	1
9.012	MRC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard	itl:MinutiaDetail	1	*
9.012-By		itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:PositionHorizontalCoordinateValue	1	1
9.012-Bx		itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:PositionVerticalCoordinateValue	1	1
9.012-A	IDX	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:MinutiaID	1	1
9.012-Bz		itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:PositionThetaAngleMeasure	1	1
9.012-C	QMS	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	itl:MinutiaLegacyQualityValue	0	1
9.012-D	MTD	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:MinutiaCategoryCode	0	1
9.012-E	RCD	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/itl:MinutiaDetail	biom:MinutiaRidgeCount	0	*

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.012-Ea		itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/ itl:MinutiaDetail/biom:MinutiaRidgeCount	biom:RidgeCountReferenceID	0	1
9.012-Eb		itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/ itl:MinutiaDetail/biom:MinutiaRidgeCount	biom:RidgeCountValue	0	1
9.010	MIN	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard	biom:MinutiaeQuantity	1	1
9.005	OFR	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard	itl:MinutiaeReadingSystem	0	1
9.005-A	RSD	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/ itl:MinutiaeReadingSystem	itl:ReadingSystemCodingMethodCode	1	1
9.005-B	RSN	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/ itl:MinutiaeReadingSystem	itl:ReadingSystemName	1	1
9.005-C	SSI	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard/ itl:MinutiaeReadingSystem	itl:ReadingSystemSubsystemID	0	1
9.011	RDG	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeNISTStandard	itl:MinutiaeRidgeCountIndicator	1	1
9.008	CRP	itl:PackageMinutiaeRecord/itl:Minutiae	itl:FrictionRidgePatternCoreLocation	0	*
9.008-A	MXC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:FrictionRidgePatternCoreLocation	biom:PositionHorizontalCoordinateValue	1	1
9.008-B	MYC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:FrictionRidgePatternCoreLocation	biom:PositionVerticalCoordinateValue	1	1
9.009	DLT	itl:PackageMinutiaeRecord/itl:Minutiae	itl:FrictionRidgePatternDeltaLocation	0	*
9.009-A	MXC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:FrictionRidgePatternDeltaLocation	biom:PositionHorizontalCoordinateValue	1	1
9.009-B	MYC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:FrictionRidgePatternDeltaLocation	biom:PositionVerticalCoordinateValue	1	1
9.007	FPC	itl:PackageMinutiaeRecord/itl:Minutiae	itl:MinutiaeFingerPatternDetail	0	1
9.007-A	RSD	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeFingerPatternDetail	itl:FingerPatternCodeSourceCode	1	1
9.007-B	PCC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeFingerPatternDetail	itl:FingerPatternCode	0	*
9.007-B	PCC	itl:PackageMinutiaeRecord/itl:Minutiae/itl:MinutiaeFingerPatternDetail	itl:FingerPatternText	0	*
9.006	FGP	itl:PackageMinutiaeRecord/itl:Minutiae	biom:LatentFrictionRidgePositionCode	1	*
9.176 to 9.225		itl:PackageMinutiaeRecord	biom:OtherMinutiae	0	1
9.176	OOD	itl:PackageMinutiaeRecord/biom:OtherMinutiae	biom:MinutiaeAlgorithmOwnerText	1	1
9.177	PAG	itl:PackageMinutiaeRecord/biom:OtherMinutiae	biom:MinutiaeAlgorithm	1	1
9.177-A	PAN	itl:PackageMinutiaeRecord/biom:OtherMinutiae/biom:MinutiaeAlgorithm	biom:MinutiaeAlgorithmName	1	1
9.177-B	PAV	itl:PackageMinutiaeRecord/biom:OtherMinutiae/biom:MinutiaeAlgorithm	biom:MinutiaeAlgorithmVersionText	0	1
9.178	SOD	itl:PackageMinutiaeRecord/biom:OtherMinutiae	biom:CaptureDevice	0	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.178-A	OFN	itl:PackageMinutiaeRecord/biom:OtherMinutiae/biom:CaptureDevice	biom:DeviceName	1	1
9.178-B	OFV	itl:PackageMinutiaeRecord/biom:OtherMinutiae/biom:CaptureDevice	biom:DeviceVersionText	0	1
9.179	DTX	itl:PackageMinutiaeRecord/biom:OtherMinutiae	nc:ContactInformationDescriptionText	1	1
9.180 to 9.225	UDF	itl:PackageMinutiaeRecord/biom:OtherMinutiae	biom:MinutiaAbstract	0	1
9.126 to 9.150	INCITS	itl:PackageMinutiaeRecord	biom:INCITSMinutiae	0	*
9.126-C	CPI	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:CBEFFProductID	1	1
9.127-A	AFS	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:DeviceCertificationCode	1	1
9.127-B	CID	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:DeviceID	1	1
9.128	HLL	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:HorizontalLineLengthPixelQuantity	1	1
9.129	VLL	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:VerticalLineLengthPixelQuantity	1	1
9.130	SLC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:ImageScaleUnitsCode	1	1
9.131	THPS	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:ImageHorizontalPixelDensityValue	1	1
9.132	TVPS	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:ImageVerticalPixelDensityValue	1	1
9.133	FVW	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:FingerViewNumeric	1	1
9.134	FGP	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:FingerPositionCode	1	1
9.135	FQD	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:MinutiaeQuality	1	9
9.135-C	QAP	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:MinutiaeQuality	biom:QualityAlgorithmProductID	0	1
9.135-B	QAV	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:MinutiaeQuality	biom:QualityAlgorithmVendorID	0	1
9.135-A	QVU	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:MinutiaeQuality	biom:QualityValue	1	1
9.136	NOM	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:MinutiaeQuantity	1	1
9.137	FMD	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:INCITSMinutia	1	9999
9.137-A	MAN	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia	biom:MinutiaID	1	1
		itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia	biom:INCITSMinutiaLocation	1	1
		itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia/ biom:INCITSMinutiaLocation	biom:PositionPolygonVertex	1	1
9.137-B	MXC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia/ biom:INCITSMinutiaLocation/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.137-C	MYC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia/ biom:INCITSMinutiaLocation/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.137-D	MAV	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia/ biom:INCITSMinutiaLocation	biom:SmallThetaAngleMeasure	1	1
9.137-E	M1M	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia	biom:INCITSMinutiaCategoryCode	1	1
9.137-F	QOM	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/biom:INCITSMinutia	biom:MinutiaQualityValue	1	1
9.138	RCI	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:MinutiaeRidgeCountDetail	0	1
9.138-A	REM	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:MinutiaeRidgeCountDetail	biom:INCITSRidgeCountAlgorithmCode	1	1
9.138-D-F	MRI	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:MinutiaeRidgeCountDetail	biom:MinutiaeRidgeCountItem	1	*
9.138-D	CMI	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:MinutiaeRidgeCountDetail/biom:MinutiaeRidgeCountItem	biom:MinutiaID	1	1
9.138-E	NMN	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:MinutiaeRidgeCountDetail/biom:MinutiaeRidgeCountItem	biom:MinutiaReferenceID	1	1
9.138-F	NRC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:MinutiaeRidgeCountDetail/biom:MinutiaeRidgeCountItem	biom:RidgeCountValue	1	1
9.139	CIN	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:FingerprintPatternCoreLocation	0	9
		itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternCoreLocation	biom:PositionPolygonVertex	1	1
9.139-A	XCC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternCoreLocation/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.139-B	YCC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternCoreLocation/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.139-C	ANGC	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternCoreLocation	biom:SmallThetaAngleMeasure	1	1
9.140	DIN	itl:PackageMinutiaeRecord/biom:INCITSMinutiae	biom:FingerprintPatternDeltaLocation	0	9
		itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation	biom:ImageFeatureVertex	1	1
9.140-A	XCD	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.140-B	YCD	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.140-C	ANG1	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation	biom:SmallThetaAngleMeasure	1	1
9.141-A	ANG2	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation	biom:SmallThetaAngleMeasure	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.141-B	ANG3	itl:PackageMinutiaeRecord/biom:INCITSMinutiae/ biom:FingerprintPatternDeltaLocation	biom:SmallThetaAngleMeasure	1	1
9.300 to 9.399	EXT	itl:PackageMinutiaeRecord	biom:ExtendedFeatureSetMinutiae	0	*
9.303	FSP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:ExtendedFeatureSetProfileCode	0	9
9.300	ROI	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageRegionOfInterest	1	1
9.300-A	EWI	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest	biom:ImageSegmentWidthMeasure	1	1
9.300-B	EHl	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest	biom:ImageSegmentHeightMeasure	1	1
9.300-C	EHO	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest	biom:ImageSegmentHorizontalOffsetMeasure	0	1
9.300-D	EVO	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest	biom:ImageSegmentVerticalOffsetMeasure	0	1
9.300-E	ROP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest	biom:ImageSegmentPolygon	0	1
9.300-E	ROP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest/biom:ImageSegmentPolygon	biom:PositionPolygonVertex	3	99
9.300-Ea		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.300-Eb		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRegionOfInterest/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.301	ORT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FingerprintImageFingerprintOrientation	0	1
9.301-A	EOD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FingerprintImageFingerprintOrientation	biom:OrientationAngleValue	1	1
9.301-B	EUC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FingerprintImageFingerprintOrientation	biom:OrientationAngleUncertaintyValue	0	1
9.302	FPP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeFrictionRidgeLocation	1	20
9.302-A	FGP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation	biom:LatentFrictionRidgePositionCode	1	1
9.302-B	FSM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation	biom:SegmentLocationCode	0	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.302-C	OCF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation	biom:FingerprintOffCenterCode	0	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation	biom:ImageSegmentPolygon	0	1
9.302-D	SGP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation/biom:ImageSegmentPolygon	biom:PositionPolygonVertex	3	99
9.302-Da		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.302-Db		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFrictionRidgeLocation/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.307	PAT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FingerprintPatternClassification	0	7
9.307-A	GCF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FingerprintPatternClassification	biom:FingerprintPatternGeneralClassCode	1	1
9.307-B	SUB	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FingerprintPatternClassification	biom:FingerprintPatternSubClassCode	0	1
9.307-C	WDR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FingerprintPatternClassification	biom:FingerprintPatternWhorlDeltaRelationshipCode	0	1
9.309	RQF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeQualityMap	0	1
9.309-A	GSZ	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeQualityMap	biom:MinutiaeRidgeQualityMapCellSizeValue	1	1
9.309-B	RDF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeQualityMap	biom:MinutiaeRidgeQualityMapFormatCode	1	1
9.308	RQM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeQualityMap	biom:MinutiaeRidgeQualityMapRowText	0	*
9.311	RFF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeFlowMap	0	1
9.311-A	SFQ	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeFlowMap	biom:MinutiaeRidgeFlowMapSamplingFrequencyValue	1	1
9.311-B	RDF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeFlowMap	biom:MinutiaeRidgeFlowMapFormatCode	1	1
9.310	RFM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeFlowMap	biom:MinutiaeRidgeFlowMapRowText	0	*
9.313	RWF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeWavelengthMap	0	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.313-A	FWS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeWavelengthMap	biom:MinutiaeRidgeWavelengthMapSamplingFrequencyValue	1	1
9.313-B	FDF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeWavelengthMap	biom:MinutiaeRidgeWavelengthMapFormatCode	1	1
9.312	RWM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeWavelengthMap	biom:MinutiaeRidgeWavelengthMapRowText	0	*
9.314	TRV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageTonalReversalCode	0	1
9.315	PLR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageLateralReversalCode	0	1
9.316	FQM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:ImageQuality	0	9
9.316-C	QAP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
9.316-B	QAV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1
9.316-A	QVU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:ImageQuality	biom:QualityValue	1	1
9.317	PGS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeGrowthOrShrinkage	0	1
9.317-A	TGS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeGrowthOrShrinkage	biom:MinutiaeGrowthOrShrinkageCode	1	1
9.317-B	CGS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeGrowthOrShrinkage	biom:MinutiaeCommentText	0	1
9.325	NCOR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoCoresPresentIndicator	0	1
9.320	COR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeCore	0	*
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore	biom:ImageFeatureVertex	1	1
9.320-A	CXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.320-B	CYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.320-C	CDI	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore	biom:MinutiaeCoreDirectionMeasure	0	1
9.320-D	RPU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore	biom:ImageLocationUncertaintyRadiusMeasure	0	1
9.320-E	DUY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeCore	biom:MinutiaeCoreDirectionUncertaintyValue	0	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.326	NDEL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoDeltasPresentIndicator	0	1
9.321	DEL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeDelta	0	*
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:ImageFeatureVertex	1	1
9.321-A	DXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.321-B	DYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.321-C	DUP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionUpMeasure	0	1
9.321-D	DLF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionLeftMeasure	0	1
9.321-E	DRT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionRightMeasure	0	1
9.321-F	DTP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaCategoryCode	0	1
9.321-G	RPU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:ImageLocationUncertaintyRadiusMeasure	0	1
9.321-H	DUU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionUpUncertaintyValue	0	1
9.321-I	DUL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionLeftUncertaintyValue	0	1
9.321-J	DUR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDelta	biom:MinutiaeDeltaDirectionRightUncertaintyValue	0	1
9.322	CDR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeCountCoreToDelta	0	*
9.322-A	CIX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountCoreToDelta	biom:CoreID	1	1
9.322-B	DIX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountCoreToDelta	biom:DeltaID	1	1
9.322-C	MNRC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountCoreToDelta	biom:RidgeCountMinimumValue	1	1
9.322-D	MXRC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountCoreToDelta	biom:RidgeCountMaximumValue	0	1
9.323	CPR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageCenter	0	3

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.323-B	PXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageCenter	biom:ImageLocationHorizontalCoordinateMeasure	1	1
9.323-C	PYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageCenter	biom:ImageLocationVerticalCoordinateMeasure	1	1
9.323-A	CPM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageCenter	biom:FrictionRidgeImageCenterLocationMethodCode	1	1
9.323-D	CRU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageCenter	biom:ImageLocationUncertaintyRadiusMeasure	0	1
9.327	NDIS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoDistinctiveFeaturesPresentIndicator	0	1
9.324	DIS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeDistinctiveFeature	0	99
9.324-A	DIT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature	biom:MinutiaeDistinctiveFeatureCategoryCode	1	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature	biom:ImageSegmentPolygon	0	1
9.324-B	DFP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature/biom:ImageSegmentPolygon	biom:PositionPolygonVertex	3	99
9.324-Ba		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.324-Bb		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.324-C	DFC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDistinctiveFeature	biom:MinutiaeCommentText	0	1
9.334	NMIN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoMinutiaePresentIndicator	0	1
9.335	RCC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeCountConfidence	0	7992
9.335-A-D	PNT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountConfidence	biom:ImageFeatureVertex	2	2
9.335-A, 9.335-C	HCX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountConfidence/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.335-B, 9.335-D	VCY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountConfidence/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.335-E	MORC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountConfidence	biom:MinutiaeRidgeCountMethodCode	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.335-F	MCV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeCountConfidence	biom:MinutiaeRidgeCountConfidenceValue	1	1
9.346	NDOT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoDotsPresentIndicator	0	1
9.340	DOT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeDot	0	999
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDot	biom:ImageFeatureVertex	1	1
9.340-A	DOX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDot/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.340-B	DOY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDot/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.340-C	DOL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeDot	biom:MinutiaeDotLengthMeasure	0	1
9.347	NINR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoIncipientRidgesPresentIndicator	0	1
9.341	INR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeIncipientRidge	0	999
9.341-A-D	LP1	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeIncipientRidge	biom:ImageFeatureVertex	2	2
9.341-A, 9.341-C	HXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeIncipientRidge/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.341-B, 9.341-D	VYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeIncipientRidge/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.348	NCLD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoCreasesPresentIndicator	0	1
9.342	CLD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeFlexionCrease	0	999
9.342-A-D	LP1	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFlexionCrease	biom:ImageFeatureVertex	2	2
9.342-A, 9.342-C	HXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFlexionCrease/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.342-B, 9.342-D	VYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFlexionCrease/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.342-E	TPD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFlexionCrease	biom:MinutiaeFlexionCreaseCategoryCode	1	1
9.349	NREF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoRidgeEdgeFeaturesPresentIndicator	0	1
9.343	REF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeRidgeEdgeOrDiscontinuity	0	999
9.343-A-B	VTX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeEdgeOrDiscontinuity	biom:ImageFeatureVertex	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.343-A	CLX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeEdgeOrDiscontinuity/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.343-B	CLY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeEdgeOrDiscontinuity/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.343-C	CLT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeRidgeEdgeOrDiscontinuity	biom:MinutiaeRidgeEdgeOrDiscontinuityCategoryCode	1	1
9.344	NPOR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeNoPoresPresentIndicator	0	1
9.345	POR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaePore	0	9999
9.345-A	POX	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaePore	biom:PositionHorizontalCoordinateValue	1	1
9.345-B	POY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaePore	biom:PositionVerticalCoordinateValue	1	1
9.350	MFD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeFeatureDetection	0	99
9.350-A	FIE	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeFeatureDetectionFieldListText	1	1
9.350-B	FME	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeFeatureDetectionMethodCode	1	1
9.350-C	FAV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeAlgorithmVendorID	0	1
9.350-D	FAL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeAlgorithmID	0	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeExaminerName	0	1
9.350-F	EGN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection/biom:MinutiaeExaminerName	nc:PersonGivenName	0	1
9.350-E	ESN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection/biom:MinutiaeExaminerName	nc:PersonSurName	0	1
9.350-G	EAF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	nc:OrganizationName	0	1
9.350-H	EMT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeFeatureDetectionDateTime	0	1
9.350-I	NTS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureDetection	biom:MinutiaeCommentText	0	1
9.351	COM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeCommentText	0	1
9.352	LPM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:LatentProcessingCategoryCode	0	9

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.353	EAA	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeValueAssessment	0	1
9.353-A	AAV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	biom:MinutiaeValueAssessmentResultCode	1	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	biom:MinutiaeExaminerName	1	1
9.353-C	AFN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment/biom:MinutiaeExaminerName	nc:PersonGivenName	1	1
9.353-B	ALN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment/biom:MinutiaeExaminerName	nc:PersonSurName	1	1
9.353-D	AAF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	nc:OrganizationName	1	1
9.353-E	AMT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	biom:MinutiaeValueAssessmentDateTime	1	1
9.353-G	CXF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	biom:MinutiaeAnalysisComplexityCode	0	1
9.353-F	ACM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeValueAssessment	biom:MinutiaeCommentText	0	1
9.354	EOF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeFraudEvidence	0	4
9.354-A	FRA	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFraudEvidence	biom:MinutiaeFraudEvidenceCategoryCode	1	1
9.354-B	CFD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFraudEvidence	biom:MinutiaeCommentText	0	1
9.355	LSB	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeLatentSubstrate	0	3
9.355-A	CLS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLatentSubstrate	biom:MinutiaeLatentSubstrateCategoryCode	1	1
9.355-B	OSD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLatentSubstrate	biom:MinutiaeLatentSubstrateDescriptionText	0	1
9.356	LMT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeLatentMatrix	0	3
9.356-A	TOM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLatentMatrix	biom:MinutiaeLatentMatrixCategoryCode	1	1
9.356-B	CLA	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLatentMatrix	biom:MinutiaeCommentText	0	1
9.357	LQI	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeLocalQualityIssues	0	*
9.357-A	LQT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues	biom:MinutiaeLocalQualityIssuesCategoryCode	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues	biom:ImageSegmentPolygon	1	1
9.357-B	LQP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues/biom:ImageSegmentPolygon	biom:PositionPolygonVertex	3	99
9.357-Ba		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.357-Bb		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.357-C	LQC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeLocalQualityIssues	biom:MinutiaeCommentText	0	1
9.360	AOC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageAreaOfCorrespondence	0	*
9.360-A	CIR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence	biom:ImageReferenceID	1	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence	biom:ImageSegmentPolygon	1	1
9.360-B	AOP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence/biom:ImageSegmentPolygon	biom:PositionPolygonVertex	3	99
9.360-Ba		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
9.360-Bb		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence/biom:ImageSegmentPolygon/ biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
9.360-C	CAC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageAreaOfCorrespondence	biom:MinutiaeCommentText	0	1
9.361	CPF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeFeatureCorrespondence	0	*
9.361-A	COL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:FeatureLabelID	1	1
9.361-B	TOC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:MinutiaeFeatureCorrespondenceCategoryCode	1	1
9.361-C	CFN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:MinutiaeFeatureCategoryCode	0	1
9.361-D	FOC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:CorrespondingSubfieldID	0	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:ImageFeatureVertex	0	1
9.361-E	CXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.361-F	CYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.361-G	COC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeFeatureCorrespondence	biom:MinutiaeCommentText	0	1
9.362	ECD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeExaminerComparisonDetermination	0	*
9.362-A	EDC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:ImageReferenceID	1	1
9.362-B	EDE	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeExaminerComparisonDeterminationResultCode	1	1
9.362-C	WIP	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeExaminerProgressCode	1	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeExaminerName	1	1
9.362-E	EFN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination/ biom:MinutiaeExaminerName	nc:PersonGivenName	1	1
9.362-D	ELN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination/ biom:MinutiaeExaminerName	nc:PersonSurName	1	1
9.362-F	EAF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	nc:OrganizationName	1	1
9.362-G	DTG	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeExaminerComparisonDeterminationDateTime	1	1
9.362-I	CCF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeComparisonComplexityCode	0	1
9.362-H	CZZ	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeExaminerComparisonDetermination	biom:MinutiaeCommentText	0	1
9.363	RRC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeImageRelativeRotation	0	*
9.363-A	RIR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRelativeRotation	biom:ImageReferenceID	1	1
9.363-B	ROR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:FrictionRidgeImageRelativeRotation	biom:ImageRelativeOverallRotationValue	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.372	SIM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:FrictionRidgeSkeletonizedImageBinaryObject	0	1
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:MinutiaeImageRidgePath	0	1
9.373	RPS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeImageRidgePath	biom:MinutiaeRidgePathSegment	1	*
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeImageRidgePath/biom:MinutiaeRidgePathSegment	biom:ImageFeatureVertex	2	*
9.373-A	HPO	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeImageRidgePath/biom:MinutiaeRidgePathSegment/ biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.373-B	VPO	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:MinutiaeImageRidgePath/biom:MinutiaeRidgePathSegment/ biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.331	MIN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:EFSMinutia	0	999
		itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia	biom:ImageFeatureVertex	1	1
9.331-A	MXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.331-B	MYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.331-C	MTD	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia	biom:ImageLocationThetaAngleMeasure	1	1
9.331-D	MTY	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia	biom:MinutiaCategoryCode	1	1
9.331-E	MRU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia	biom:ImageLocationUncertaintyRadiusMeasure	0	1
9.331-F	MDU	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSMinutia	biom:MinutiaDirectionUncertaintyValue	0	1
9.332	MRA	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:EFSRidgeCountAlgorithmCode	0	1
9.333	MRC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:EFSRidgeCountItem	0	*
9.333-A	MIA	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSRidgeCountItem	biom:MinutiaID	1	1
9.333-B	MIB	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSRidgeCountItem	biom:MinutiaReferenceID	1	1
9.333-C	MIR	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSRidgeCountItem	biom:RidgeCountValue	1	1

Type-9 Fingerprint Minutiae Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
9.333-D	MRN	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSRidgeCountItem	biom:MinutiaeRidgeCountOctantNumeric	0	1
9.333-E	MRS	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSRidgeCountItem	biom:MinutiaeRidgeCountResidualCode	0	1
9.380	TPL	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:EFSTemporaryLine	0	999
9.380-A-D	ISV	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSTemporaryLine	biom:ImageFeatureVertex	2	2
9.380-A, 9.380-C	HXC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSTemporaryLine/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
9.380-B, 9.380-D	VYC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSTemporaryLine/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
9.380-E	TLC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSTemporaryLine	biom:FeatureLineColorValue	1	1
9.380-F	TLT	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSTemporaryLine	biom:FeatureLineThicknessValue	1	1
9.381	FCC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae	biom:EFSFeatureColor	0	999
9.381-A	FTF	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSFeatureColor	biom:FeatureColorFieldReferencedCode	1	1
9.381-B	FTO	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSFeatureColor	biom:FeatureColorFieldOccurrenceReferencedValue	1	1
9.381-C	FTC	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSFeatureColor	biom:FeatureColorHexidecimalValue	0	1
9.381-D	COM	itl:PackageMinutiaeRecord/biom:ExtendedFeatureSetMinutiae/ biom:EFSFeatureColor	biom:FeatureColorCommentText	0	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.002	IDC	itl:PackagePhotographicBodyPartImageRecord	biom:ImageReferenceID	1	1
10.992	T2C	itl:PackagePhotographicBodyPartImageRecord	biom:Type2CrossReferenceID	0	1
10.200 to 10.900	UDF	itl:PackagePhotographicBodyPartImageRecord	itl:UserDefinedFields	0	*
10.902	ANN	itl:PackagePhotographicBodyPartImageRecord	biom:ProcessAnnotation	0	*
10.902-A	GMT	itl:PackagePhotographicBodyPartImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:ZuluDateTime	1	1
10.902-B	NAV	itl:PackagePhotographicBodyPartImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
10.902-C	OWN	itl:PackagePhotographicBodyPartImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
10.902-D	PRO	itl:PackagePhotographicBodyPartImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
10.995	ASC	itl:PackagePhotographicBodyPartImageRecord	biom:AssociatedContext	0	255
10.995-A	ACN	itl:PackagePhotographicBodyPartImageRecord/biom:AssociatedContext	biom:ContextID	1	1
10.995-B	ASP	itl:PackagePhotographicBodyPartImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
10.996	HAS	itl:PackagePhotographicBodyPartImageRecord	biom:ImageHashValue	0	1
10.997	SOR	itl:PackagePhotographicBodyPartImageRecord	biom:SourceInformation	0	255
10.997-A	SRN	itl:PackagePhotographicBodyPartImageRecord/biom:SourceInformation	biom:SourceID	1	1
10.997-B	RSP	itl:PackagePhotographicBodyPartImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
	Face Image	itl:PackagePhotographicBodyPartImageRecord	biom:FacelImage	0	1
10.999	DATA	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	nc:Base64BinaryObject	0	1
	Image Capture Detail	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageCaptureDetail	0	1
10.998	GEO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
10.998-A	UTE	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
10.998-I	GDC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.998-B	LTD	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
10.998-C	LTM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
10.998-D	LTS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
10.998-E	LGD	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
10.998-F	LGM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
10.998-G	LGS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
10.998-H	ELE	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
10.998-J-L	UTM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
10.998-J-L	UTM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
10.998-O	OCV	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
10.998-N	OSI	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
10.998-M	GRT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
10.005	PHD	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
10.034	ICDR	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureDateEstimateRangeDuration	0	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1
10.903	DUI	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
10.904-A	MAK	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
10.904-B	MOD	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
10.904-C	SER	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
10.004	SRC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
10.993	SAN	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
10.047	CON	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
10.016	SHPS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
10.017	SVPS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
10.030	DMM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
10.012	CSP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageColorSpaceCode	1	1
10.038	COM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageCommentText	0	1
10.011	CGA	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageCompressionAlgorithmCode	1	1
10.006	HLL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:HorizontalLineLengthPixelQuantity	1	1
10.009	THPS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageHorizontalPixelDensityValue	1	1
10.024	SQS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageQuality	0	9
10.024-C	QAP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
10.024-B	QAV	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.024-A	QVU	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageQuality	biom:QualityValue	1	1
10.008	SLC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageScaleUnitsCode	1	1
10.003	IMT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageCategoryCode	1	1
10.007	VLL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:VerticalLineLengthPixelQuantity	1	1
10.010	TVPS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageVerticalPixelDensityValue	1	1
10.018	DIST	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageDistortion	0	1
10.018-A	IDK	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageDistortion	biom:ImageDistortionCategoryCode	1	1
10.018-B	IDM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageDistortion	biom:ImageDistortionMeasurementCode	1	1
10.018-C	DSC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:ImageDistortion	biom:ImageDistortionSeverityCode	1	1
10.994	EFR	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:SourceExternalFileReferenceText	0	1
10.025	SPA	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImage3DPoseAngle	0	1
10.025-B	PIT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PosePitchAngleMeasure	1	1
10.025-E	PITU	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PosePitchUncertaintyValue	0	1
10.025-C	ROL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PoseRollAngleMeasure	1	1
10.025-F	ROLU	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PoseRollUncertaintyValue	0	1
10.025-A	YAW	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PoseYawAngleMeasure	1	1
10.025-D	YAWU	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DPoseAngle	biom:PoseYawUncertaintyValue	0	1
10.013	SAP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageAcquisitionProfileCode	0	1
10.022	PXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageAttribute	0	9
10.022-A	PXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageAttribute	biom:FacelImageAttributeCode	1	1
10.022-B	PXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageAttribute	biom:FacelImageAttributeText	0	1
10.026	SXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageDescriptionCode	0	50

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.026	SXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageDescriptionText	0	50
10.026	SXS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:PhysicalFeatureNCICCode	0	50
10.020	POS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageSubjectPoseCode	0	1
10.014	FIP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageBoundingSquare	0	1
10.014-E	BBC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundingSquare	biom:FacelImageBoundingCategoryCode	0	1
10.014-D	BVC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundingSquare	biom:SegmentBottomVerticalCoordinateValue	1	1
10.014-A	LHC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundingSquare	biom:SegmentLeftHorizontalCoordinateValue	1	1
10.014-B	RHC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundingSquare	biom:SegmentRightHorizontalCoordinateValue	1	1
10.014-C	TVC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundingSquare	biom:SegmentTopVerticalCoordinateValue	1	1
10.015	FPFI	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageBoundary	0	1
10.015-A	BYC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundary	biom:FacelImageBoundaryShapeCode	1	1
10.015-B	NOP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundary	biom:PositionPolygonVertexQuantity	1	1
10.015-C-D	POL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundary	biom:PositionPolygonVertex	2	99
10.015-C	HPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundary/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
10.015-D	VPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageBoundary/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
10.019	LAF	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageLightingArtifactsCode	0	3
10.027	SEC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	j:PersonEyeColorCode	0	1
10.028	SHC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:HairColorCode	0	2
10.029	FFP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImage2DFeaturePoint	0	88
10.029-C	HCX	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointHorizontalCoordinateValue	1	1
10.029-B	FPC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointID	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.029-A	FPT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointCategoryCode	1	1
10.029-D	HCY	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointVerticalCoordinateValue	1	1
10.031	TMC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageFeaturePointTierCode	0	1
10.031	TMC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageFeaturePointTierNumeric	0	1
10.032	3DF	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImage3DFeaturePoint	0	88
10.032-C	HCX	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointHorizontalCoordinateValue	1	1
10.032-B	FPC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointID	1	1
10.032-A	FPT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointCategoryCode	1	1
10.032-D	HCY	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointVerticalCoordinateValue	1	1
10.032-E	HCZ	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointZCoordinateValue	1	1
10.033	FEC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageContour	0	12
10.033-A	FCC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageContour	biom:FacelImageContourCategoryCode	1	1
10.033-B	NOP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageContour	biom:PositionPolygonVertexQuantity	1	1
10.033-C-D	POL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageContour	biom:PositionPolygonVertex	3	99
10.033-C	HPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageContour/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
10.033-D	VPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageContour/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
10.045	OCC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageOcclusion	0	16
10.045-A	OCY	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion	biom:FacelImageOcclusionOpacityCode	1	1
10.045-B	OCT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion	biom:FacelImageOcclusionCategoryCode	1	1
10.045-C	NOP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion	biom:PositionPolygonVertexQuantity	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.045-D-E	POL	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion	biom:PositionPolygonVertex	3	99
10.045-D	HPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
10.045-E	VPO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageOcclusion/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
10.039	T10	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:Type10CrossReferenceID	0	1
10.048	PID	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:PatternedInjuryDetail	0	*
10.048-A	PARC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:PatternedInjuryDetail	biom:PatternedInjuryReferenceCodeText	0	1
10.048-B	PADT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:PatternedInjuryDetail	biom:PatternedInjuryDescriptiveText	0	1
10.041	SMS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:PhysicalFeatureSize	0	1
10.041-A	HGT	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:PhysicalFeatureSize	biom:PhysicalFeatureHeightMeasure	1	1
10.041-B	WID	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:PhysicalFeatureSize	biom:PhysicalFeatureWidthMeasure	1	1
10.051	RSP	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:RulerScalePresenceInformation	0	1
10.051-A	RSU	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:RulerScalePresenceInformation	biom:RulerScaleUnitCode	1	1
10.051-B	RSM	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:RulerScalePresenceInformation	biom:RulerScaleMakeText	0	1
10.051-C	RSO	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:RulerScalePresenceInformation	biom:RulerScaleModelText	0	1
10.021	POA	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImagePoseOffsetAngleMeasure	0	1
10.023	PAS	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:FacelImageAcquisitionSource	0	1
10.023-A	PAC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageAcquisitionSource	biom:FacelImageAcquisitionCode	1	1
10.023-B	VSD	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:FacelImageAcquisitionSource	biom:AcquisitionSourceDescriptionText	0	1
10.046	SUB	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:SubjectExistentialDetails	0	1
10.046-A	SSC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.046-B	SBSC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
10.046-C	SBCC	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1
10.044	ITX	itl:PackagePhotographicBodyPartImageRecord/biom:FacelImage	biom:ImageTransformationCode	0	18
		itl:PackagePhotographicBodyPartImageRecord	biom:PhysicalFeatureImage	0	1
10.999	DATA	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	nc:Base64BinaryObject	0	1
	Image Capture Detail	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageCaptureDetail	0	1
10.998	GEO	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
10.998-A	UTE	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
10.998-I	GDC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
10.998-B	LTD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
10.998-C	LTM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
10.998-D	LTS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
10.998-E	LGD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.998-F	LGM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
10.998-G	LGS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
10.998-H	ELE	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
10.998-J-L	UTM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
10.998-J-L	UTM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
10.998-O	OCV	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
10.998-N	OSI	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
10.998-M	GRT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
10.005	PHD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
10.034	ICDR	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureDateEstimateRangeDuration	0	1
		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1
10.903	DUI	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
10.904-A	MAK	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
10.904-B	MOD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
10.904-C	SER	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
10.004	SRC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.993	SAN	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
10.047	CON	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
10.016	SHPS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
10.017	SVPS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
10.030	DMM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
10.012	CSP	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageColorSpaceCode	1	1
10.038	COM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageCommentText	0	1
10.011	CGA	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageCompressionAlgorithmCode	1	1
10.006	HLL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:HorizontalLineLengthPixelQuantity	1	1
10.009	THPS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageHorizontalPixelDensityValue	1	1
10.024	SQS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageQuality	0	9
10.024-C	QAP	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
10.024-B	QAV	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1
10.024-A	QVU	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageQuality	biom:QualityValue	1	1
10.008	SLC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageScaleUnitsCode	1	1
10.003	IMT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageCategoryCode	1	1
10.007	VLL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:VerticalLineLengthPixelQuantity	1	1
10.010	TVPS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageVerticalPixelDensityValue	1	1
10.018	DIST	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageDistortion	0	1
10.018-A	IDK	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageDistortion	biom:ImageDistortionCategoryCode	1	1
10.018-B	IDM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageDistortion	biom:ImageDistortionMeasurementCode	1	1
10.018-C	DSC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:ImageDistortion	biom:ImageDistortionSeverityCode	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.994	EFR	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:SourceExternalFileReferenceText	0	1
10.041	SMS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:PhysicalFeatureSize	0	1
10.041-A	HGT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureSize	biom:PhysicalFeatureHeightMeasure	1	1
10.041-B	WID	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureSize	biom:PhysicalFeatureWidthMeasure	1	1
10.039	T10	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:Type10CrossReferenceID	0	1
10.044	ITX	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:ImageTransformationCode	0	18
10.046	SUB	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:SubjectExistentialDetails	0	1
10.046-A	SSC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
10.046-B	SBSC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
10.046-C	SBCC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1
10.049	CID	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:CheilosopicImageInformation	0	1
10.049-A	LPW	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintWidthValue	0	1
10.049-B	LPH	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintHeightValue	0	1
10.049-C	PHW	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:PhiltrumWidthValue	0	1
10.049-D	PHH	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:PhiltrumHeightValue	0	1
10.049-E	ULCL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:UpperLipCharacterizationCodeList	0	1
10.049-Ea		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation/biom:UpperLipCharacterizationCodeList	biom:LipCharacterizationCode	1	5
10.049-F	LLCL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LowerLipCharacterizationCodeList	0	1
10.049-Fa		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation/biom:LowerLipCharacterizationCodeList	biom:LipCharacterizationCode	1	5
10.049-G	LCLD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipContactLineDescriptorCode	0	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.049-H	LPCT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintCharacterizationText	0	1
10.049-I	LPPL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintPathologiesPeculiaritiesCodeList	0	1
10.049-Ia		itl:PackagePhotographicBodyPartImageRecord/ biom:PhysicalFeatureImage/biom:CheilosopicImageInformation/ biom:LipPrintPathologiesPeculiaritiesCodeList	biom:LipPrintPathologiesPeculiaritiesCode	1	13
10.049-J	LPPT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintPathologiesPeculiaritiesText	0	1
10.049-K	LPSL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintSurfaceCodeList	0	1
10.049-Ka		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation/biom:LipPrintSurfaceCodeList	biom:LipPrintSurfaceCode	1	3
10.049-L	LPST	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintSurfaceText	0	1
10.049-M	LPMC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintMediumCode	0	1
10.049-N	LPMT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintMediumText	0	1
10.049-O	FHDT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	nc:PersonFacialHairText	0	1
10.049-P	LPDT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPositionTensionDescriptiveText	0	1
10.049-Q	LPAT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintDescriptiveText	0	1
10.049-R	LPCT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:CheilosopicImageInformation	biom:LipPrintComparisonDescriptiveText	0	1
10.048	PID	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:PatternedInjuryDetail	0	*
10.048-A	PARC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PatternedInjuryDetail	biom:PatternedInjuryReferenceCodeText	0	1
10.048-B	PADT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PatternedInjuryDetail	biom:PatternedInjuryDescriptiveText	0	1
10.051	RSP	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:RulerScalePresenceInformation	0	1
10.051-A	RSU	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:RulerScalePresenceInformation	biom:RulerScaleUnitCode	1	1

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.051-B	RSM	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:RulerScalePresenceInformation	biom:RulerScaleMakeText	0	1
10.051-C	RSO	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:RulerScalePresenceInformation	biom:RulerScaleModelText	0	1
10.050	VID	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:DentalVisualImageDataInformation	0	1
10.050-A	VIVC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:DentalVisualImageDataInformation	biom:DentalVisualImageCode	1	1
10.050-B	VIDT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:DentalVisualImageDataInformation	biom:DentalVisualImageDescriptiveText	0	1
10.050-C	VICD	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:DentalVisualImageDataInformation	biom:DentalVisualImageComparisonDescriptiveText	0	1
10.040	SMT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:PhysicalFeatureNCICCode	0	3
		itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:PhysicalFeatureDescriptionDetail	0	9
10.043	COL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail	biom:PhysicalFeatureColorDetail	0	1
10.043-A	TC1	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail/biom:PhysicalFeatureColorDetail	biom:PhysicalFeaturePrimaryColorCode	1	1
10.043-B-F	TC2, TC3, TC4, TC5, TC6	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail/biom:PhysicalFeatureColorDetail	biom:PhysicalFeatureSecondaryColorCode	0	5
10.042-A	SMI	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail	biom:PhysicalFeatureCategoryCode	1	1
10.042-B	TAC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail	biom:PhysicalFeatureClassCode	0	1
10.042-C	TSC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail	biom:PhysicalFeatureSubClassCode	0	1
10.042-D	TDS	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:PhysicalFeatureDescriptionDetail	biom:PhysicalFeatureDescriptionText	0	1
10.033	FEC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:FaceImageContour	0	12
10.033-A	FCC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FaceImageContour	biom:FaceImageContourCategoryCode	1	1
10.033-B	NOP	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FaceImageContour	biom:PositionPolygonVertexQuantity	1	1
10.033-C-D	POL	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FaceImageContour	biom:PositionPolygonVertex	3	99

Type-10 Facial, Other Body Part & SMT Image record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
10.033-C	HPO	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImageContour/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
10.033-D	VPO	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImageContour/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
10.029	FFP	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:FacelImage2DFeaturePoint	0	88
10.029-C	HCX	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointHorizontalCoordinateValue	1	1
10.029-B	FPC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointID	1	1
10.029-A	FPT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointCategoryCode	1	1
10.029-D	HCY	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage2DFeaturePoint	biom:FeaturePointVerticalCoordinateValue	1	1
10.032	3DF	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage	biom:FacelImage3DFeaturePoint	0	88
10.032-C	HCX	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointHorizontalCoordinateValue	1	1
10.032-B	FPC	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointID	1	1
10.032-A	FPT	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointCategoryCode	1	1
10.032-D	HCY	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointVerticalCoordinateValue	1	1
10.032-E	HCZ	itl:PackagePhotographicBodyPartImageRecord/biom:PhysicalFeatureImage/ biom:FacelImage3DFeaturePoint	biom:FeaturePointZCoordinateValue	1	1

Type-11 Voice Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.002	IDC	itl:PackageVoiceDataRecord	biom:ImageReferenceID	1	1
11.100 to 11.900	UDF	itl:PackageVoiceDataRecord	itl:UserDefinedFields	0	*
11.902	ANN	itl:PackageVoiceDataRecord	biom:ProcessAnnotation	0	*
11.902-A	GMT	itl:PackageVoiceDataRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:ZuluDateTime	1	1
11.902-B	NAV	itl:PackageVoiceDataRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
11.902-C	OWN	itl:PackageVoiceDataRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
11.902-D	PRO	itl:PackageVoiceDataRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
11.995	ASC	itl:PackageVoiceDataRecord	biom:AssociatedContext	0	255
11.995-A	ACN	itl:PackageVoiceDataRecord/biom:AssociatedContext	biom:ContextID	1	1
11.995-B	ASP	itl:PackageVoiceDataRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
11.996	HAS	itl:PackageVoiceDataRecord	biom:DigitalAudioRecordHashValue	0	1
11.997	SOR	itl:PackageVoiceDataRecord	biom:SourceInformation	0	255
11.997-A	SRN	itl:PackageVoiceDataRecord/biom:SourceInformation	biom:SourceID	1	1
11.999	DATA	itl:PackageVoiceDataRecord	nc:Base64BinaryObject	0	1
11.994	EFR	itl:PackageVoiceDataRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageVoiceDataRecord	biom:ForensicInvestigatoryVoiceDetail	1	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:BiometricCapture	0	1
11.010	VRD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:BiometricCapture	biom:CaptureDate/nc:DateTime	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:BiometricCapture	biom:CaptureOrganization	1	1
11.004	SRC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
11.993	SAN	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationName	0	1
11.032	SGEO	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SegmentGeographicalLocation	0	600000
	3D GEO	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	nc:Location3DGeospatialCoordinate	0	1
11.032-J	GDC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1

Type-11 Voice Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
11.032-C	LTD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
11.032-D	LTM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
11.032-E	LTS	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
11.032-F	LGD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	0	1
11.032-G	LGM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
11.032-H	LGS	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate/ nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
11.032-I	ELE	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
11.032-K-M	UTM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	nc:LocationUTMCoordinateValue	0	1
11.032-K-M	UTM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	mo:MGRSCoordinateStringText	0	1
11.032-P	OCV	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	biom:GeographicLocationText	0	1
11.032-O	OSI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	biom:GeographicLocationSystemName	0	1
11.032-N	GRT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	nc:LocationDescriptionText	0	1
	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	biom:SegmentIDList	1	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.032-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation/biom:SegmentIDList	biom:SegmentID	1	600000
11.032-B	SCT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentGeographicalLocation	biom:CellPhoneTowerCodeText	0	1
11.003	AOD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:AudioObjectDescriptorCode	1	1
11.005	VRSO	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RecordingSettingDetail	0	1
11.005-A	STC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail	biom:RecordingSourceCategoryCode	1	1
11.005-B	SON	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail	biom:SourceOrganizationName	0	1
11.005-C	POC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail	nc:OrganizationPrimaryContactInformation/nc:ContactInformationDescriptionText	0	1
11.005-D	CSC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail	biom:RecordingSourceCountry	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:LocationCountryISO3166Alpha2Code	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:LocationCountryISO3166Alpha3Code	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:LocationSourceCountryISO3166NumericCode	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char2]	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char3]	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingSettingDetail/biom:RecordingSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=numeric]	0	1
11.006	VRX	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RecordingContentDescriptor	0	1
11.006-A	AVI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingContentDescriptor	biom:RecordingAssignedVoiceCategoryCode	1	1
11.006-B	SPC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingContentDescriptor	biom:SpeakerPluralityCode	0	1
11.006-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingContentDescriptor	biom:RecordingContentCommentText	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.007	AREC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:AudioSourceRecorder	0	1
11.007-A	RDD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:AudioSourceRecorder	biom:DeviceDescriptionText	0	1
11.007-B	MAK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:AudioSourceRecorder	biom:DeviceMakeText	0	1
11.007-C	MOD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:AudioSourceRecorder	biom:DeviceModelText	0	1
11.007-D	SER	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:AudioSourceRecorder	biom:DeviceSerialNumberText	0	1
11.008	AQS	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SourceAcquisition	0	1
11.008-A	AQC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SourceAcquisition	biom:AcquisitionSourceCode	1	1
11.008-B	A2D	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SourceAcquisition	biom:AcquisitionDigitalConversionDescriptionText	0	1
11.008-C	FDN	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SourceAcquisition	biom:AcquisitionRadioTransmissionFormatDescriptionText	0	1
11.008-D	AQSC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SourceAcquisition	biom:AcquisitionSpecialCharacteristicsText	0	1
11.009	RCD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RecordCreationDate/nc:DateTime	1	1
11.011	TRD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RecordingDurationDetail	0	1
11.011-A	TIM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingDurationDetail	biom:RecordingDuration	0	1
11.011-B	CBY	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingDurationDetail	biom:RecordingCompressedBytesQuantity	0	1
11.011-C	TSM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RecordingDurationDetail	biom:RecordingSampleQuantity	0	1
11.012	PMO	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:PhysicalMediaObject	0	1
11.012-A	MTD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:MediaCategoryText	1	1
11.012-B	RSP	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:RecordingSpeedRate	0	1
11.012-C	RSU	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:RecordingSpeedUnitText	0	1
11.012-D	EQD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:AudioEqualizationText	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.012-E	TRC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:AudioTrackQuantity	0	1
11.012-F	STK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:SpeakerTrackList	0	1
11.012-Fa		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject/biom:SpeakerTrackList	biom:TrackID	1	9999
11.012-G	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:PhysicalMediaObject	biom:MediaCommentText	0	1
11.013	CONT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:DigitalMediaContainer	0	1
11.013-A	CONC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DigitalMediaContainer	biom:DigitalMediaContainerFormatCode	1	1
11.013-B	ECON	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DigitalMediaContainer	biom:DigitalMediaContainerExternalReferenceCodeText	0	1
11.013-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DigitalMediaContainer	biom:AudioCommentText	0	1
11.014	CDC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:CodecDetails	0	1
11.014-A	CODC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:CodecCategoryCode	1	1
11.014-B	SRTN	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:SamplingRate	0	1
11.014-C	BITD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:RecordingBitDepthValue	0	1
11.014-D	ENDC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:RecordingEndianCode	0	1
11.014-E	NFMT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:NumericFormatText	0	1
11.014-F	CHC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:RecordingChannelsQuantity	0	1
11.014-G	ECOD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:CodecExternalReferenceCodeText	0	1
11.014-H	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:CodecDetails	biom:CodecCommentText	0	1
11.021	RED	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RedactionInformation	0	1
11.021-A	RDI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionInformation	biom:ProcessingIndicatorCode	1	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.021-B	RDA	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionInformation	biom:ProcessingAuthorityText	0	1
11.021-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionInformation	biom:ProcessingCommentText	0	1
11.022	RDD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:RedactionDiaryInformation	0	600000
11.022-A	SID	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation	biom:SegmentID	1	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation	biom:TrackChannelList	0	1
11.022-B	TRK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation/biom:TrackChannelList	biom:TrackID	1	9999
11.022-C	RST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation	biom:RelativeStartTimeInMSValue	1	1
11.022-D	RET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation	biom:RelativeEndTimeInMSValue	1	1
11.022-E	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:RedactionDiaryInformation	biom:DiaryCommentText	0	1
11.023	DIS	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:DiscontinuityInformation	0	1
11.023-A	DCI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityInformation	biom:ProcessingIndicatorCode	1	1
11.023-B	CTA	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityInformation	biom:ProcessingAuthorityText	0	1
11.023-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityInformation	biom:ProcessingCommentText	0	1
11.024	DSD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:DiscontinuityDiaryInformation	0	600000
11.024-A	SID	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation	biom:SegmentID	1	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation	biom:TrackChannelList	0	1
11.024-B	TRK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation/biom:TrackChannelList	biom:TrackID	1	9999
11.024-C	RST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation	biom:RelativeStartTimeInMSValue	1	1
11.024-D	RET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation	biom:RelativeEndTimeInMSValue	1	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.024-E	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:DiscontinuityDiaryInformation	biom:DiaryCommentText	0	1
11.025	VOC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:VocalContentInformation	0	1
11.025-A	DII	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentInformation	biom:DiarizationIndicatorCode	1	1
11.025-B	DAU	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentInformation	biom:ProcessingAuthorityText	0	1
11.025-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentInformation	biom:ProcessingCommentText	0	1
11.026	VCD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:VocalContentDiaryInformation	0	600000
11.026-A	SID	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:SegmentID	1	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:TrackChannelList	0	1
11.026-B	TRK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation/biom:TrackChannelList	biom:TrackID	1	9999
11.026-C	RST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:RelativeStartTimeInMSValue	1	1
11.026-D	RET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:RelativeEndTimeInMSValue	1	1
11.026-E	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:DiaryCommentText	0	1
11.026-F, 11.026-G	TDT, TST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:TagStartDate/nc:DateTime	0	1
11.026-H	TET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:TagEndDate/nc:DateTime	0	1
11.026-I	ORD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:OriginalRecordingDate/nc:Date	0	1
11.026-J	SRT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:SegmentRecordingStartDate/nc:DateTime	0	1
11.026-K	END	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:SegmentRecordingEndDate/nc:DateTime	0	1
11.026-L	TMD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:TimeSourceDescriptionText	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.026-M	TCOM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalContentDiaryInformation	biom:TimeCommentText	0	1
11.027	OCOM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:OtherContentInformation	0	1
11.027-A	DII	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentInformation	biom:DiarizationIndicatorCode	1	1
11.027-B	DAU	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentInformation	biom:ProcessingAuthorityText	0	1
11.027-C	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentInformation	biom:ProcessingCommentText	0	1
11.028	OCD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:OtherContentDiaryInformation	0	600000
11.028-A	SID	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:SegmentID	1	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:TrackChannelList	0	1
11.028-B	TRK	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation/biom:TrackChannelList	biom:TrackID	1	9999
11.028-C	RST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:RelativeStartTimeInMSValue	1	1
11.028-D	RET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:RelativeEndTimeInMSValue	1	1
11.028-E	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:DiaryCommentText	0	1
11.028-F, 11.028-G	TDT, TST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:TagStartDate/nc:DateTime	0	1
11.028-H	TET	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:TagEndDate/nc:DateTime	0	1
11.028-I	ORD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:OriginalRecordingDate/nc:Date	0	1
11.028-J	SRT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:SegmentRecordingStartDate/nc:DateTime	0	1
11.028-K	END	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:SegmentRecordingEndDate/nc:DateTime	0	1
11.028-L	TMD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:TimeSourceDescriptionText	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.028-M	TCOM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:OtherContentDiaryInformation	biom:TimeCommentText	0	1
11.033	SQV	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:VocalSegmentQualityValue	0	9
	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue	biom:SegmentIDList	1	1
11.033-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue/biom:SegmentIDList	biom:SegmentID	1	600000
11.033-C	QAV	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue	biom:QualityAlgorithmVendorID	1	1
11.033-D	QAP	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue	biom:QualityAlgorithmProductID	1	1
11.033-B	QVU	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue	biom:QualityValue	1	1
11.033-E	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalSegmentQualityValue	biom:VocalSegmentQualityCommentText	0	1
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:VocalCollisionIDList	0	1
11.034	VCI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:VocalCollisionIDList	biom:SegmentID	1	600000
11.035	PPY	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SegmentProcessingPriorityInformation	0	9
	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentProcessingPriorityInformation	biom:SegmentIDList	1	1
11.035-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentProcessingPriorityInformation/biom:SegmentIDList	biom:SegmentID	1	600000
11.035-B	PTY	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentProcessingPriorityInformation	biom:ProcessingPriorityValue	1	1
11.036	VSCD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SegmentContentInformation	0	600000
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentIDList	1	1
11.036-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation/biom:SegmentIDList	biom:SegmentID	1	600000
11.036-B	TRN	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentTranscriptText	0	1
11.036-C	LNG	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentTranscriptLanguageCode	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.036-D	PTT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentPhoneticTranscriptText	0	1
11.036-E	PTC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:PhoneticTranscriptConventionText	0	1
11.036-F	TLT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentTranslationText	0	1
11.036-G	TLG	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentTranslationLanguageCode	0	1
11.036-H	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:SegmentContentCommentText	0	1
11.036-I	TAC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentContentInformation	biom:TranscriptAuthorityCommentText	0	1
11.037	SCC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SegmentSpeakerCharacteristicsInformation	0	600000
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:SegmentIDList	1	1
11.037-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation/biom:SegmentIDList	biom:SegmentID	1	600000
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:SpeakerList	0	1
11.037-B	SPL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation/biom:SpeakerList	biom:SpeakerID	1	9999
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:Type2CrossReferenceList	0	1
11.037-C	T2C	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation/ biom:Type2CrossReferenceList	biom:Type2CrossReferenceID	1	98
11.037-D	IMP	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:ImpairmentValue	0	1
11.037-E	DSL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:DominantSpokenLanguageCode	0	1
11.037-F	LPS	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:LanguageProficiencyValue	0	1
11.037-G	STY	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:SpeechStyleCode	0	1
11.037-H	INT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:IntelligibilityValue	0	1

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Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.037-I	FDC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:FamiliarityValue	0	1
11.037-J	HCM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:HealthCommentText	0	1
11.037-K	EMC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:EmotionalStateCode	0	1
11.037-L	VES	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:VocalEffortValue	0	1
11.037-M	VSC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:VocalStyleCode	0	1
11.037-N	RAI	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:RecordingAwarenessCode	0	1
11.037-O	SCR	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:ScriptText	0	1
11.037-P	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentSpeakerCharacteristicsInformation	biom:SpeechCharacteristicsCommentText	0	1
11.038	SCH	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:SegmentChannelInformation	0	600000
		itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:SegmentIDList	1	1
11.038-A	SIL	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation/biom:SegmentIDList	biom:SegmentID	1	600000
11.038-B	ACD	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:AudioCaptureDeviceCode	0	1
11.038-C	MTC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:TransducerPrincipleCode	0	1
11.038-D	ENV	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:AudioCaptureEnvironmentText	0	1
11.038-E	DST	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:TransducerDistanceValue	0	1
11.038-F	AQC	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:AcquisitionSourceCode	0	1
11.038-G	VMT	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:TransductionAlterationDescriptionText	0	1
11.038-H	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail/ biom:SegmentChannelInformation	biom:ChannelCommentText	0	1

Type-11 Voice Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
11.051	COM	itl:PackageVoiceDataRecord/biom:ForensicInvestigatoryVoiceDetail	biom:AudioCommentText	0	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.002	IDC	itl:PackageForensicDentalDataRecord	biom:ImageReferenceID	1	1
12.992	T2C	itl:PackageForensicDentalDataRecord	biom:Type2CrossReferenceID	0	1
12.990	T10C	itl:PackageForensicDentalDataRecord	biom:Type10CrossReferenceID	0	99
12.991	T22C	itl:PackageForensicDentalDataRecord	biom:Type22CrossReferenceID	0	99
12.200 to 12.900	UDF	itl:PackageForensicDentalDataRecord	itl:UserDefinedFields	0	*
12.902	ANN	itl:PackageForensicDentalDataRecord	biom:ProcessAnnotation	0	*
12.902-A	GMT	itl:PackageForensicDentalDataRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
12.902-B	NAV	itl:PackageForensicDentalDataRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
12.902-C	OWN	itl:PackageForensicDentalDataRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
12.902-D	PRO	itl:PackageForensicDentalDataRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
12.995	ASC	itl:PackageForensicDentalDataRecord	biom:AssociatedContext	0	255
12.995-A	ACN	itl:PackageForensicDentalDataRecord/biom:AssociatedContext	biom:ContextID	1	1
12.995-B	ASP	itl:PackageForensicDentalDataRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
12.996	HAS	itl:PackageForensicDentalDataRecord	biom:ImageHashValue	0	1
12.999	DATA	itl:PackageForensicDentalDataRecord	nc:Base64BinaryObject	0	1
12.994	EFR	itl:PackageForensicDentalDataRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageForensicDentalDataRecord	biom:ForensicDentalOralDetail	1	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:BiometricCapture	1	1
12.998	GEO	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture	biom:GeographicSampleAcquisitionLocation	0	1
12.998-A	UTE	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
12.998-I	GDC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.998-B	LTD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
12.998-C	LTM	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
12.998-D	LTS	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
12.998-E	LGD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
12.998-F	LGM	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
12.998-G	LGS	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
12.998-H	ELE	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
12.998-J-L	UTM	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
12.998-J-L	UTM	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
12.998-O	OCV	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
12.998-N	OSI	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
12.998-M	GRT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture	biom:CaptureOrganization	1	1
12.004	SRC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.993	SAN	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationName	0	1
12.047	CON	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
12.003	FDS	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:ForensicDentalSetting	0	1
12.003-A	FACC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting	biom:ForensicAnalystCategoryCode	1	1
12.003-B	FOPC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting	nc:ContactInformationDescriptionText	0	1
12.003-C	FSCC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting	biom:ForensicSourceCountry	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:LocationCountryISO3166Alpha2Code	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:LocationCountryISO3166Alpha3Code	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:LocationSourceCountryISO3166NumericCode	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char2]	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char3]	0	1
		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ForensicDentalSetting/biom:ForensicSourceCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=numeric]	0	1
12.006	DSI	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:DentalSubjectInformation	1	1
12.006-A	DSC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectExistentialStatusCode	1	1
12.006-B	DLCD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectLastContactDate/nc:Date	0	1
12.006-C	DRLC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectLastContactDateEstimateRangeDuration	0	1
12.006-D	DPBD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	nc:PersonBirthDate/nc:Date	0	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.006-E	DRBD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectBirthDateEstimateRangeDuration	0	1
12.006-F	DPET	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	nc:PersonEthnicityText	0	1
12.006-G	DRAC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectDNARecordsAvailableCode	0	1
12.006-H	DCLD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectCollectionLocationDescriptionText	0	1
12.006-I	DEDD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectEstimatedDeathDate/nc:DateTime	0	1
12.006-J	DRDE	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectDeathDateRangeDuration	0	1
12.006-K	DTER	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectDeathTimeEstimateRationaleText	0	1
12.006-L	DEAT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalSubjectInformation	biom:SubjectDeathAgeEstimateText	0	1
12.007	ODES	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:OriginalDentalEncodingSystemInformation	0	1
12.007-A	OSNC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:OriginalDentalEncodingSystemInformation	biom:SystemNameCode	1	1
12.007-B	OSVT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:OriginalDentalEncodingSystemInformation	biom:SystemVersionText	0	1
12.007-C	OTPC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:OriginalDentalEncodingSystemInformation	biom:ToothPermanenceCategoryCode	1	1
12.007-D	ORDG	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:OriginalDentalEncodingSystemInformation	biom:RestorationDataGranularityCode	1	1
12.007-E	OMPN	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:OriginalDentalEncodingSystemInformation	biom:MorphologyPositionalNumberingCode	0	1
12.008	TDES	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:TransmittalDentalEncodingSystemInformation	0	1
12.008-A	TSNC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:TransmittalDentalEncodingSystemInformation	biom:SystemNameCode	1	1
12.008-B	TSVT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:TransmittalDentalEncodingSystemInformation	biom:SystemVersionText	0	1
12.008-C	TTPC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:TransmittalDentalEncodingSystemInformation	biom:ToothPermanenceCategoryCode	1	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.008-D	TRDG	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:TransmittalDentalEncodingSystemInformation	biom:RestorationDataGranularityCode	1	1
12.008-E	TMPN	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:TransmittalDentalEncodingSystemInformation	biom:MorphologyPositionalNumberingCode	0	1
12.009	HDD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:DentalHistoryDataDetail	0	*
12.009-A	HARC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalHistoryDataDetail	biom:DentalHistoryADAResponseCodeText	1	1
12.009-B	HADT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalHistoryDataDetail	biom:DentalHistoryAdditionalDescriptiveText	0	1
12.010	TDD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:ToothDataDetail	0	*
12.010-A	TDR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothDataRecordingDate/nc:Date	0	1
12.010-B	TDRR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothDataRecordingDateEstimateRangeDuration	0	1
12.010-C	TID	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothID	1	1
12.010-D	TOET	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:OriginalSystemEncodingText	0	1
12.010-E	TARC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothDataADAResponseCodeList	1	1
12.010-Ea		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail/biom:ToothDataADAResponseCodeList	biom:ADAResponseCodeText	1	*
12.010-F	TTET	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:TransmittedToothEncodingText	0	1
12.010-G	TICC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothIDCertaintyCode	0	1
12.010-H	TADT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:ToothDataDetail	biom:ToothDataAdditionalDescriptiveText	0	1
12.011	MDD	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:MouthDataDetail	0	*
12.011-A	MDR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:MouthDataDetail	biom:MouthDataRecordingDate/nc:Date	0	1
12.011-B	MDRR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:MouthDataDetail	biom:MouthDataRecordingDateEstimateRangeDuration	0	1
12.011-C	MARC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:MouthDataDetail	biom:MouthDataADAResponseCodeList	1	1

Type-12 Dental Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
12.011-Ca		itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:MouthDataDetail/biom:MouthDataADARReferenceCodeList	biom:ADARReferenceCodeText	1	*
12.011-D	MADT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:MouthDataDetail	biom:MouthDataAdditionalDescriptiveText	0	1
12.012	DSTI	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:DentalStudyToothImprintDetail	0	*
12.012-A	SDR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalStudyToothImprintDetail	biom:DentalStudyRecordingDate/nc:Date	0	1
12.012-B	SDRR	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalStudyToothImprintDetail	biom:DentalStudyRecordingDateEstimateRangeDuration	0	1
12.012-C	SRC	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalStudyToothImprintDetail	biom:DentalStudyReferenceCode	1	1
12.012-D	SADT	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail/ biom:DentalStudyToothImprintDetail	biom:DentalStudyAdditionalDescriptiveText	1	1
12.020	COM	itl:PackageForensicDentalDataRecord/biom:ForensicDentalOralDetail	biom:ForensicDentalCommentText	0	1

Type-13 Friction-Ridge Latent Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
13.002	IDC	itl:PackageLatentImageRecord	biom:ImageReferenceID	1	1
13.200 to 13.900	UDF	itl:PackageLatentImageRecord	itl:UserDefinedFields	0	*
13.902	ANN	itl:PackageLatentImageRecord	biom:ProcessAnnotation	0	*
13.902-A	GMT	itl:PackageLatentImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
13.902-B	NAV	itl:PackageLatentImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
13.902-C	OWN	itl:PackageLatentImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
13.902-D	PRO	itl:PackageLatentImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
13.995	ASC	itl:PackageLatentImageRecord	biom:AssociatedContext	0	255
13.995-A	ACN	itl:PackageLatentImageRecord/biom:AssociatedContext	biom:ContextID	1	1
13.995-B	ASP	itl:PackageLatentImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
13.996	HAS	itl:PackageLatentImageRecord	biom:ImageHashValue	0	1
13.997	SOR	itl:PackageLatentImageRecord	biom:SourceInformation	0	255
13.997-A	SRN	itl:PackageLatentImageRecord/biom:SourceInformation	biom:SourceID	1	1
13.997-B	RSP	itl:PackageLatentImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
13.999	DATA	itl:PackageLatentImageRecord	nc:Base64BinaryObject	0	1
13.994	EFR	itl:PackageLatentImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageLatentImageRecord	biom:FrictionRidgeDetail	1	1
13.012	BPX	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageBitsPerPixelQuantity	1	1
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageCaptureDetail	1	1
13.998	GEO	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
13.998-A	UTE	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
13.998-I	GDC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-13 Friction-Ridge Latent Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
13.998-B	LTD	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
13.998-C	LTM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
13.998-D	LTS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
13.998-E	LGD	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
13.998-F	LGM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
13.998-G	LGS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
13.998-H	ELE	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
13.998-J-L	UTM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
13.998-J-L	UTM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
13.998-O	OCV	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
13.998-N	OSI	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
13.998-M	GRT	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
13.005	LCD	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1

Type-13 Friction-Ridge Latent Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
13.903	DUI	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
13.904-A	MAK	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
13.904-B	MOD	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
13.904-C	SER	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
13.004	SRC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
13.993	SAN	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
13.047	CON	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
13.016	SHPS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
13.017	SVPS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
13.020	COM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageCommentText	0	1
13.011	CGA	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageCompressionAlgorithmCode	1	1
13.006	HLL	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:HorizontalLineLengthPixelQuantity	1	1
13.009	THPS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageHorizontalPixelDensityValue	1	1
13.008	SLC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageScaleUnitsCode	1	1
13.007	VLL	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:VerticalLineLengthPixelQuantity	1	1
13.010	TVPS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ImageVerticalPixelDensityValue	1	1
13.003	IMP	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	itl:FrictionRidgeImpressionCaptureCode	1	1
13.901	FCT	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:FrictionRidgeCaptureTechnologyCode	0	1
13.013	FGP	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:LatentFrictionRidgePositionCode	1	6
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:FingerprintImageMajorCasePrint	0	1
13.014-A	PDF	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint	biom:FingerPositionCode	1	9

Type-13 Friction-Ridge Latent Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
13.014-B	FIC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint	biom:MajorCasePrintCode	1	9
13.015	PPC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint	biom:MajorCasePrintSegmentOffset	0	12
		itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:FingerprintCoordinate	1	1
13.015-E	TVC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentTopVerticalCoordinateValue	1	1
13.015-C	LHC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentLeftHorizontalCoordinateValue	1	1
13.015-D	RHC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentRightHorizontalCoordinateValue	1	1
13.015-F	BVC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentBottomVerticalCoordinateValue	1	1
13.015-B	LOS	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:SegmentLocationCode	1	1
13.015-A	FVC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FingerprintImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:SegmentFingerViewCode	1	1
13.024	LQM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:FrictionRidgeImageQuality	0	9
13.024-A	FRMP	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FrictionRidgeImageQuality	biom:LatentFrictionRidgePositionCode	1	1
13.024-D	QAP	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FrictionRidgeImageQuality	biom:QualityAlgorithmProductID	1	1
13.024-C	QAV	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FrictionRidgeImageQuality	biom:QualityAlgorithmVendorID	1	1
13.024-B	QVU	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:FrictionRidgeImageQuality	biom:QualityValue	1	1
13.018	RSP	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:RulerScalePresenceInformation	0	1
13.018-A	RSU	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:RulerScalePresenceInformation	biom:RulerScaleUnitCode	0	1
13.018-B	RSM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:RulerScalePresenceInformation	biom:RulerScaleMakeText	0	1

Type-13 Friction-Ridge Latent Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
13.018-C	RSO	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:RulerScalePresenceInformation	biom:RulerScaleModelText	0	1
13.018-D	RSF	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:StandardFingerprintFormNumberText	0	1
13.019	REM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:ResolutionMethodInformation	0	1
13.019-A	MDR	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionMeansCode	1	1
13.019-B	KSL	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleLengthValue	0	1
13.019-C	KSU	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleUnitCode	0	1
13.019-D	SXA	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleXCoordinateAValue	0	1
13.019-E	SYA	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleYCoordinateAValue	0	1
13.019-F	SXB	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleXCoordinateBValue	0	1
13.019-G	SYB	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionScaleYCoordinateBValue	0	1
13.019-H	COM	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:ResolutionMethodInformation	biom:ResolutionCommentText	0	1
13.046	SUB	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail	biom:SubjectExistentialDetails	0	1
13.046-A	SSC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
13.046-B	SBSC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
13.046-C	SBCC	itl:PackageLatentImageRecord/biom:FrictionRidgeDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.002	IDC	itl:PackageFingerImpressionImageRecord	biom:ImageReferenceID	1	1
14.200 to 14.900	UDF	itl:PackageFingerImpressionImageRecord	itl:UserDefinedFields	0	*
14.902	ANN	itl:PackageFingerImpressionImageRecord	biom:ProcessAnnotation	0	*
14.902-A	GMT	itl:PackageFingerImpressionImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
14.902-B	NAV	itl:PackageFingerImpressionImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
14.902-C	OWN	itl:PackageFingerImpressionImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
14.902-D	PRO	itl:PackageFingerImpressionImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
14.995	ASC	itl:PackageFingerImpressionImageRecord	biom:AssociatedContext	0	255
14.995-A	ACN	itl:PackageFingerImpressionImageRecord/biom:AssociatedContext	biom:ContextID	1	1
14.995-B	ASP	itl:PackageFingerImpressionImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
14.996	HAS	itl:PackageFingerImpressionImageRecord	biom:ImageHashValue	0	1
14.997	SOR	itl:PackageFingerImpressionImageRecord	biom:SourceInformation	0	255
14.997-A	SRN	itl:PackageFingerImpressionImageRecord/biom:SourceInformation	biom:SourceID	1	1
14.997-B	RSP	itl:PackageFingerImpressionImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
14.999	DATA	itl:PackageFingerImpressionImageRecord	nc:Base64BinaryObject	0	1
14.994	EFR	itl:PackageFingerImpressionImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageFingerImpressionImageRecord	biom:FingerImpressionImageDetail	1	1
14.012	BPX	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageBitsPerPixelQuantity	0	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageCaptureDetail	1	1
14.998	GEO	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
14.998-A	UTE	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
14.998-I	GDC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.998-B	LTD	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
14.998-C	LTM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
14.998-D	LTS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
14.998-E	LGD	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
14.998-F	LGM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
14.998-G	LGS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
14.998-H	ELE	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
14.998-J-L	UTM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
14.998-J-L	UTM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
14.998-O	OCV	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
14.998-N	OSI	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
14.998-M	GRT	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
14.005	FCD	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.903	DUI	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
14.904-A	MAK	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
14.904-B	MOD	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
14.904-C	SER	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
14.004	SRC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
14.993	SAN	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
14.047	CON	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
14.016	SHPS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
14.017	SVPS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
14.030	DMM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
14.020	COM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageCommentText	0	1
14.011	CGA	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageCompressionAlgorithmCode	0	1
14.006	HLL	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:HorizontalLineLengthPixelQuantity	0	1
14.009	THPS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageHorizontalPixelDensityValue	0	1
14.008	SLC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageScaleUnitsCode	0	1
14.007	VLL	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:VerticalLineLengthPixelQuantity	0	1
14.010	TVPS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ImageVerticalPixelDensityValue	0	1
14.003	IMP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	itl:FrictionRidgeImpressionCaptureCode	1	1
14.901	FCT	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FrictionRidgeCaptureTechnologyCode	0	1
14.013	FGP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:ExemplarFingerPositionCode	1	1
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprintImageMajorCasePrint	0	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.014-A	DFP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint	biom:FingerPositionCode	1	9
14.014-B	FIC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint	biom:MajorCasePrintCode	1	9
14.015	PPC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint	biom:MajorCasePrintSegmentOffset	0	12
		itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:FingerprintCoordinate	1	1
14.015-E	TVC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentTopVerticalCoordinateValue	1	1
14.015-C	LHC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentLeftHorizontalCoordinateValue	1	1
14.015-D	RHC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentRightHorizontalCoordinateValue	1	1
14.015-F	BVC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset/ biom:FingerprintCoordinate	biom:SegmentBottomVerticalCoordinateValue	1	1
14.015-B	LOS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:SegmentLocationCode	1	1
14.015-A	FVC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageMajorCasePrint/biom:MajorCasePrintSegmentOffset	biom:SegmentFingerViewCode	1	1
14.018	AMP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageFingerMissing	0	5
14.018-A	FRAP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageFingerMissing	biom:FingerPositionCode	1	1
14.018-B	ABC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageFingerMissing	biom:FingerMissingCode	1	1
14.021	SEG	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageSegmentPositionSquare	0	5
14.021-A	FRSP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentPositionSquare	biom:FingerPositionCode	1	1
14.021-E	BVC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentPositionSquare	biom:SegmentBottomVerticalCoordinateValue	1	1
14.021-B	LHC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentPositionSquare	biom:SegmentLeftHorizontalCoordinateValue	1	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.021-C	RHC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentPositionSquare	biom:SegmentRightHorizontalCoordinateValue	1	1
14.021-D	TVC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentPositionSquare	biom:SegmentTopVerticalCoordinateValue	1	1
14.022	NQM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageNISTQuality	0	5
14.022-A	FRNP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageNISTQuality	biom:FingerPositionCode	1	1
14.022-B	IQS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageNISTQuality	biom:NISTQualityMeasure	1	1
14.024	FQM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageQuality	0	45
14.024-A	FRMP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageQuality	biom:FingerPositionCode	1	1
14.024-D	QAP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageQuality	biom:QualityAlgorithmProductID	1	1
14.024-C	QAV	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageQuality	biom:QualityAlgorithmVendorID	1	1
14.024-B	QVU	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageQuality	biom:QualityValue	1	1
14.023	SQM	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageSegmentationQuality	0	45
14.023-A	FRQP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentationQuality	biom:FingerPositionCode	1	1
14.023-D	QAP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentationQuality	biom:QualityAlgorithmProductID	1	1
14.023-C	QAV	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentationQuality	biom:QualityAlgorithmVendorID	1	1
14.023-B	QVU	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprntImageSegmentationQuality	biom:QualityValue	1	1
14.026	SCF	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntSimultaneousCaptureID	0	1
14.027	SIF	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprntImageStitchedIndicator	0	1
14.046	SUB	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:SubjectExistentialDetails	0	1
14.046-A	SSC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
14.046-B	SBSC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1

Type-14 Fingerprint Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
14.046-C	SBCC	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1
14.025	ASEG	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprintImageSegmentPositionPolygon	0	5
14.025-A	FRAS	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprintImageSegmentPositionPolygon	biom:FingerPositionCode	1	1
14.025-B	NOP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprintImageSegmentPositionPolygon	biom:PositionPolygonVertexQuantity	1	1
14.025-C-D	POL	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprintImageSegmentPositionPolygon	biom:PositionPolygonVertex	3	99
14.025-C	HPO	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprintImageSegmentPositionPolygon/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
14.025-D	VPO	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail/ biom:FingerprintImageSegmentPositionPolygon/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
14.031	FAP	itl:PackageFingerImpressionImageRecord/biom:FingerImpressionImageDetail	biom:FingerprintImageAcquisitionProfileCode	0	1

Type-15 Palm Print Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
15.002	IDC	itl:PackagePalmPrintImageRecord	biom:ImageReferenceID	1	1
15.200 to 15.900	UDF	itl:PackagePalmPrintImageRecord	itl:UserDefinedFields	0	*
15.902	ANN	itl:PackagePalmPrintImageRecord	biom:ProcessAnnotation	0	*
15.902-A	GMT	itl:PackagePalmPrintImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
15.902-B	NAV	itl:PackagePalmPrintImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
15.902-C	OWN	itl:PackagePalmPrintImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
15.902-D	PRO	itl:PackagePalmPrintImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
15.995	ASC	itl:PackagePalmPrintImageRecord	biom:AssociatedContext	0	255
15.995-A	ACN	itl:PackagePalmPrintImageRecord/biom:AssociatedContext	biom:ContextID	1	1
15.995-B	ASP	itl:PackagePalmPrintImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
15.996	HAS	itl:PackagePalmPrintImageRecord	biom:ImageHashValue	0	1
15.997	SOR	itl:PackagePalmPrintImageRecord	biom:SourceInformation	0	255
15.997-A	SRN	itl:PackagePalmPrintImageRecord/biom:SourceInformation	biom:SourceID	1	1
15.997-B	RSP	itl:PackagePalmPrintImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
15.999	DATA	itl:PackagePalmPrintImageRecord	nc:Base64BinaryObject	0	1
15.994	EFR	itl:PackagePalmPrintImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackagePalmPrintImageRecord	biom:PalmPrintImageDetail	1	1
15.012	BPX	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageBitsPerPixelQuantity	0	1
		itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageCaptureDetail	1	1
15.998	GEO	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
15.998-A	UTE	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
15.998-I	GDC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-15 Palm Print Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
15.998-B	LTD	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
15.998-C	LTM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
15.998-D	LTS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
15.998-E	LGD	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
15.998-F	LGM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
15.998-G	LGS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
15.998-H	ELE	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
15.998-J-L	UTM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
15.998-J-L	UTM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
15.998-O	OCV	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
15.998-N	OSI	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
15.998-M	GRT	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
15.005	PCD	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1

Type-15 Palm Print Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
15.903	DUI	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
15.904-A	MAK	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
15.904-B	MOD	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
15.904-C	SER	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
15.004	SRC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
15.993	SAN	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
15.047	CON	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
15.016	SHPS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
15.017	SVPS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
15.030	DMM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
15.020	COM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageCommentText	0	1
15.011	CGA	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageCompressionAlgorithmCode	0	1
15.006	HLL	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:HorizontalLineLengthPixelQuantity	0	1
15.009	THPS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageHorizontalPixelDensityValue	0	1
15.008	SLC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageScaleUnitsCode	0	1
15.007	VLL	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:VerticalLineLengthPixelQuantity	0	1
15.010	TVPS	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:ImageVerticalPixelDensityValue	0	1
15.003	IMP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	itl:FrictionRidgeImpressionCaptureCode	1	1
15.901	FCT	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:FrictionRidgeCaptureTechnologyCode	0	1
15.013	FGP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:PalmPositionCode	1	1
15.018	AMP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:PalmPrintImageMissingArea	0	9

Type-15 Palm Print Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
15.018-A	FRAP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageMissingArea	biom:PalmPositionCode	1	1
15.018-B	ABC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageMissingArea	biom:PalmMissingAreaReasonCode	1	1
15.024	PQM	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:PalmPrintImageQuality	0	9
15.024-A	FRMP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageQuality	biom:PalmPositionCode	1	1
15.024-D	QAP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageQuality	biom:QualityAlgorithmProductID	1	1
15.024-C	QAV	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageQuality	biom:QualityAlgorithmVendorID	1	1
15.024-B	QVU	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:PalmPrintImageQuality	biom:QualityValue	1	1
15.021	SEG	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:FrictionRidgeImageSegmentPositionSquare	0	17
15.021-A	FRSP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:PalmPositionCode	1	1
15.021-E	BVC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentBottomVerticalCoordinateValue	1	1
15.021-B	LHC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentLeftHorizontalCoordinateValue	1	1
15.021-C	RHC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentRightHorizontalCoordinateValue	1	1
15.021-D	TVC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentTopVerticalCoordinateValue	1	1
15.046	SUB	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:SubjectExistentialDetails	0	1
15.046-A	SSC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
15.046-B	SBSC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
15.046-C	SBCC	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1
15.031	PAP	itl:PackagePalmPrintImageRecord/biom:PalmPrintImageDetail	biom:PalmPrintImageAcquisitionProfileCode	0	1

Type-16 Test Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
16.002	IDC	itl:PackageUserDefinedTestingImageRecord	biom:ImageReferenceID	1	1
16.200 to 16.900	UDF	itl:PackageUserDefinedTestingImageRecord	itl:UserDefinedFields	0	*
16.902	ANN	itl:PackageUserDefinedTestingImageRecord	biom:ProcessAnnotation	0	*
16.902-A	GMT	itl:PackageUserDefinedTestingImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
16.902-B	NAV	itl:PackageUserDefinedTestingImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
16.902-C	OWN	itl:PackageUserDefinedTestingImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
16.902-D	PRO	itl:PackageUserDefinedTestingImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
16.995	ASC	itl:PackageUserDefinedTestingImageRecord	biom:AssociatedContext	0	255
16.995-A	ACN	itl:PackageUserDefinedTestingImageRecord/biom:AssociatedContext	biom:ContextID	1	1
16.995-B	ASP	itl:PackageUserDefinedTestingImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
16.996	HAS	itl:PackageUserDefinedTestingImageRecord	biom:ImageHashValue	0	1
16.997	SOR	itl:PackageUserDefinedTestingImageRecord	biom:SourceInformation	0	255
16.997-A	SRN	itl:PackageUserDefinedTestingImageRecord/biom:SourceInformation	biom:SourceID	1	1
16.997-B	RSP	itl:PackageUserDefinedTestingImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
16.999	DATA	itl:PackageUserDefinedTestingImageRecord	nc:Base64BinaryObject	0	1
16.994	EFR	itl:PackageUserDefinedTestingImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageUserDefinedTestingImageRecord	biom:TestImageDetail	1	1
16.003	UDI	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	nc:BinaryDescriptionText	1	1
16.012	BPX	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageBitsPerPixelQuantity	1	1
		itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageCaptureDetail	1	1
16.998	GEO	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
16.998-A	UTE	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
16.998-I	GDC	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1

Type-16 Test Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
16.998-B	LTD	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
16.998-C	LTM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
16.998-D	LTS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
16.998-E	LGD	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
16.998-F	LGM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
16.998-G	LGS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
16.998-H	ELE	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
16.998-J-L	UTM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
16.998-J-L	UTM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
16.998-O	OCV	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
16.998-N	OSI	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
16.998-M	GRT	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1

Type-16 Test Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
16.005	UTD	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1
16.903	DUI	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
16.904-A	MAK	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
16.904-B	MOD	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
16.904-C	SER	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
16.004	SRC	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
16.993	SAN	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
16.016	SHPS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
16.017	SVPS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
16.030	DMM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
16.013	CSP	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageColorSpaceCode	0	1
16.020	COM	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageCommentText	0	1
16.011	CGA	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageCompressionAlgorithmCode	1	1
16.006	HLL	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:HorizontalLineLengthPixelQuantity	1	1
16.009	THPS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageHorizontalPixelDensityValue	1	1
16.024	UQS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageQuality	0	9
16.024-C	QAP	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
16.024-B	QAV	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1

Type-16 Test Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
16.024-A	QVU	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail/ biom:ImageQuality	biom:QualityValue	1	1
16.008	SLC	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageScaleUnitsCode	1	1
16.007	VLL	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:VerticalLineLengthPixelQuantity	1	1
16.010	TVPS	itl:PackageUserDefinedTestingImageRecord/biom:TestImageDetail	biom:ImageVerticalPixelDensityValue	1	1

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.002	IDC	itl:PackageIrisImageRecord	biom:ImageReferenceID	1	1
17.200 to 17.900	UDF	itl:PackageIrisImageRecord	itl:UserDefinedFields	0	*
17.902	ANN	itl:PackageIrisImageRecord	biom:ProcessAnnotation	0	*
17.902-A	GMT	itl:PackageIrisImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
17.902-B	NAV	itl:PackageIrisImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
17.902-C	OWN	itl:PackageIrisImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
17.902-D	PRO	itl:PackageIrisImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
17.995	ASC	itl:PackageIrisImageRecord	biom:AssociatedContext	0	255
17.995-A	ACN	itl:PackageIrisImageRecord/biom:AssociatedContext	biom:ContextID	1	1
17.995-B	ASP	itl:PackageIrisImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
17.996	HAS	itl:PackageIrisImageRecord	biom:ImageHashValue	0	1
17.997	SOR	itl:PackageIrisImageRecord	biom:SourceInformation	0	255
17.997-A	SRN	itl:PackageIrisImageRecord/biom:SourceInformation	biom:SourceID	1	1
17.997-B	RSP	itl:PackageIrisImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
17.999	DATA	itl:PackageIrisImageRecord	nc:Base64BinaryObject	0	1
17.994	EFR	itl:PackageIrisImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageIrisImageRecord	biom:IrisImageDetail	1	1
17.012	BPX	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageBitsPerPixelQuantity	0	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageCaptureDetail	1	1
17.998	GEO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
17.998-A	UTE	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
17.998-I	GDC	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.998-B	LTD	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
17.998-C	LTM	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
17.998-D	LTS	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
17.998-E	LGD	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
17.998-F	LGM	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
17.998-G	LGS	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
17.998-H	ELE	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
17.998-J-L	UTM	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
17.998-J-L	UTM	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
17.998-O	OCV	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
17.998-N	OSI	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
17.998-M	GRT	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/ biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
17.005	ICD	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureDevice	0	1

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.017	DUI	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
17.019-A	MAK	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
17.019-B	MOD	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
17.019-C	SER	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
17.004	SRC	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
17.993	SAN	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
17.022	SHPS	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
17.023	SVPS	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
17.030	DMM	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
17.013	CSP	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageColorSpaceCode	0	1
17.021	COM	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageCommentText	0	1
17.011	CGA	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageCompressionAlgorithmCode	0	1
17.006	HLL	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:HorizontalLineLengthPixelQuantity	0	1
17.009	THPS	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageHorizontalPixelDensityValue	0	1
17.024	IQS	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageQuality	0	9
17.024-C	QAP	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
17.024-B	QAV	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1
17.024-A	QVU	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:ImageQuality	biom:QualityValue	1	1
17.008	SLC	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageScaleUnitsCode	0	1
17.007	VLL	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:VerticalLineLengthPixelQuantity	0	1
17.010	TVPS	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:ImageVerticalPixelDensityValue	0	1
17.003	ELR	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisEyePositionCode	1	1
17.028	DME	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageMissingReasonCode	0	1
17.014	RAE	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisEyeRotationAngleValue	0	1

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.015	RAU	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisEyeRotationUncertaintyValue	0	1
17.016	IPC	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageCapture	0	1
17.016-A	IHO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageCapture	biom:IrisImageHorizontalOrientationCode	1	1
17.016-C	IST	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageCapture	biom:IrisImageScanCategoryCode	1	1
17.016-B	IVO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageCapture	biom:IrisImageVerticalOrientationCode	1	1
17.020	ECL	itl:PackageIrisImageRecord/biom:IrisImageDetail	j:PersonEyeColorCode	0	1
		itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageAcquisitionLightingSpectrum	0	1
17.025	EAS	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageAcquisitionLightingSpectrum	biom:AcquisitionLightingSpectrumCode	1	1
17.027-A	LOW	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageAcquisitionLightingSpectrum	biom:AcquisitionLightingSpectrumLowerMeasure	0	1
17.027-B	HIG	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageAcquisitionLightingSpectrum	biom:AcquisitionLightingSpectrumUpperMeasure	0	1
17.026	IRD	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisDiameterPixelQuantity	0	1
17.031	IAP	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageAcquisitionProfileCode	0	1
17.032	ISF	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageStorageFormatCode	0	1
17.033	IPB	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageIrisPupilBoundary	0	1
17.033-A	BYC	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisPupilBoundary	biom:IrisBoundaryShapeCode	1	1
17.033-B	NOP	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisPupilBoundary	biom:ImageFeatureVertexQuantity	1	1
17.033-C-D	IFX	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisPupilBoundary	biom:ImageFeatureVertex	2	99
17.033-C	HPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisPupilBoundary/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
17.033-D	VPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisPupilBoundary/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
17.034	ISB	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageIrisScleraBoundary	0	1
17.034-A	BYC	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisScleraBoundary	biom:IrisBoundaryShapeCode	1	1
17.034-B	NOP	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisScleraBoundary	biom:ImageFeatureVertexQuantity	1	1

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.034-C-D	IFX	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisScleraBoundary	biom:ImageFeatureVertex	2	99
17.034-C	HPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisScleraBoundary/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
17.034-D	VPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisScleraBoundary/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
17.035	UEB	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageIrisUpperEyelidBoundary	0	1
17.035-A	BYC	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisUpperEyelidBoundary	biom:IrisBoundaryShapeCode	1	1
17.035-B	NOP	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisUpperEyelidBoundary	biom:ImageFeatureVertexQuantity	1	1
17.035-C-D	IFX	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisUpperEyelidBoundary	biom:ImageFeatureVertex	3	99
17.035-C	HPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisUpperEyelidBoundary/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
17.035-D	VPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisUpperEyelidBoundary/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
17.036	LEB	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageIrisLowerEyelidBoundary	0	1
17.036-A	BYC	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisLowerEyelidBoundary	biom:IrisBoundaryShapeCode	1	1
17.036-B	NOP	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisLowerEyelidBoundary	biom:ImageFeatureVertexQuantity	1	1
17.036-C-D	IFX	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisLowerEyelidBoundary	biom:ImageFeatureVertex	3	99
17.036-C	HPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisLowerEyelidBoundary/biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
17.036-D	VPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/ biom:IrisImageIrisLowerEyelidBoundary/biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
17.037	NEO	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageOcclusion	0	*
17.037-A	OCY	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion	biom:IrisImageOcclusionOpacityCode	1	1
17.037-B	OCT	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion	biom:IrisImageOcclusionCategoryCode	1	1
17.037-C	NOP	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion	biom:ImageFeatureVertexQuantity	1	1
17.037-D-E	IFX	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion	biom:ImageFeatureVertex	3	99

Type-17 Iris Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
17.037-D	HPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion/ biom:ImageFeatureVertex	biom:PositionHorizontalCoordinateValue	1	1
17.037-E	VPO	itl:PackageIrisImageRecord/biom:IrisImageDetail/biom:IrisImageOcclusion/ biom:ImageFeatureVertex	biom:PositionVerticalCoordinateValue	1	1
17.040	RAN	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageRangeMeasure	0	1
17.041	GAZ	itl:PackageIrisImageRecord/biom:IrisImageDetail	biom:IrisImageGazeAngleMeasure	0	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
18.002	IDC	itl:PackageDNARecord	biom:ImageReferenceID	1	1
18.992	T2C	itl:PackageDNARecord	biom:Type2CrossReferenceID	0	1
18.200 to 18.900	UDF	itl:PackageDNARecord	itl:UserDefinedFields	0	*
18.902	ANN	itl:PackageDNARecord	biom:ProcessAnnotation	0	*
18.902-A	GMT	itl:PackageDNARecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
18.902-B	NAV	itl:PackageDNARecord/biom:ProcessAnnotation	biom:ProcessName	1	1
18.902-C	OWN	itl:PackageDNARecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
18.902-D	PRO	itl:PackageDNARecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
18.995	ASC	itl:PackageDNARecord	biom:AssociatedContext	0	255
18.995-A	ACN	itl:PackageDNARecord/biom:AssociatedContext	biom:ContextID	1	1
18.995-B	ASP	itl:PackageDNARecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
		itl:PackageDNARecord	biom:DNASample	1	1
		itl:PackageDNARecord/biom:DNASample	biom:BiometricCapture	1	1
18.998	GEO	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture	biom:GeographicSampleAcquisitionLocation	0	1
18.998-A	UTE	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
18.998-I	GDC	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
18.998-B	LTD	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
18.998-C	LTM	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
18.998-D	LTS	itl:PackageDNARecord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
18.998-E	LGD	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
18.998-F	LGM	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
18.998-G	LGS	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
18.998-H	ELE	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
18.998-J-L	UTM	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
18.998-J-L	UTM	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
18.998-O	OCV	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
18.998-N	OSI	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
18.998-M	GRT	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
18.013	SCD	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture	biom:CaptureDate/nc:Date	1	1
		itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture	biom:CaptureOrganization	1	1
18.004	SRC	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
18.993	SAN	itl:PackageDNAREcord/biom:DNASample/biom:BiometricCapture/ biom:CaptureOrganization	nc:OrganizationName	0	1
18.003	DLS	itl:PackageDNAREcord/biom:DNASample	biom:DNALaboratory	1	1
18.003-D	NOO	itl:PackageDNAREcord/biom:DNASample/biom:DNALaboratory	nc:OrganizationName	0	1
18.003-E	POC	itl:PackageDNAREcord/biom:DNASample/biom:DNALaboratory	nc:OrganizationPrimaryContactInformation/nc:ContactInformationDescriptionText	0	1
18.003-A	UTY	itl:PackageDNAREcord/biom:DNASample/biom:DNALaboratory	biom:DNALaboratoryUnitCategoryCode	1	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
18.003-B	LTY	itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory	biom:DNALaboratoryCategoryCode	0	1
18.003-C	ACC	itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory	biom:DNALaboratoryAccreditation	0	6
18.003-Ca		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryAccreditation	biom:DNALaboratoryAccreditationLevelCode	1	1
18.003-Cb		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryAccreditation	biom:DNALaboratoryAccreditationScopeCode	0	4
18.003-F	CSC	itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory	biom:DNALaboratoryProcessingCountry	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:LocationCountryISO3166Alpha2Code	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:LocationCountryISO3166Alpha3Code	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:LocationSourceCountryISO3166NumericCode	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char2]	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=char3]	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory/ biom:DNALaboratoryProcessingCountry	nc:CountryCode[@xmlns:ns3=http://reference.niem.gov/niem/specification/code- lists/4.0/code-lists-instance/], [@ns3:codeListURI=http://api.nsgreg.nga.mil/geo- political/GENC/3/3-6], [@ns3:codeListColumnName=numeric]	0	1
18.003-G	ION	itl:PackageDNARecord/biom:DNASample/biom:DNALaboratory	biom:DNALaboratoryInternationalOrganizationName	0	1
18.005	NAL	itl:PackageDNARecord/biom:DNASample	biom:DNAAnalysisQuantityCode	1	1
18.006	SDI	itl:PackageDNARecord/biom:DNASample	biom:DNADonor	1	1
18.006-D	DOB	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	nc:PersonBirthDate/nc:Date	0	1
18.006-E	EGP	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	nc:PersonEthnicityText	0	1
18.006-B	GID	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	nc:PersonSexText	0	1
18.006-A	DSD	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	biom:DNADonorCategoryCode	1	1
18.006-C	DLC	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	biom:DNADonorLastContactDate/nc:Date	0	1
18.006-F	DRA	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	biom:DNADonorDentalRecordsAvailableCode	0	1
18.006-G	LLC	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	biom:DNADonorCollectionLocationDescriptionText	0	1
18.006-H	SDS	itl:PackageDNARecord/biom:DNASample/biom:DNADonor	biom:DNADonorStatusCode	0	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
18.007	COPR	itl:PackageDNARecord/biom:DNASample	biom:DNAClaimedRelationshipCode	0	1
18.008	VRS	itl:PackageDNARecord/biom:DNASample	biom:DNAValidatedRelationshipCode	0	1
18.009	PED	itl:PackageDNARecord/biom:DNASample	biom:DNAPedigree	0	1
18.009-A	PID	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeID	1	1
18.009-B	PMI	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeMemberIndexNumeric	1	1
18.009-C	PMS	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeMemberStatusCode	1	1
18.009-D	SID	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeSampleID	1	1
18.009-E	FID	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeFatherIndexNumeric	0	1
18.009-F	MID	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeMotherIndexNumeric	0	1
18.009-G	PCM	itl:PackageDNARecord/biom:DNASample/biom:DNAPedigree	biom:DNAPedigreeCommentText	0	1
18.010	STY	itl:PackageDNARecord/biom:DNASample	biom:DNASampleOrigin	1	1
18.010-A	SCT	itl:PackageDNARecord/biom:DNASample/biom:DNASampleOrigin	biom:DNACellularCategoryCode	1	1
18.010-B	SMO	itl:PackageDNARecord/biom:DNASample/biom:DNASampleOrigin	biom:DNASampleOriginCode	0	1
18.011	STI	itl:PackageDNARecord/biom:DNASample	biom:DNATypingTechnologyCategoryCode	1	5
18.012	SCM	itl:PackageDNARecord/biom:DNASample	biom:DNASampleCollectionMethodText	0	1
18.014	PSD	itl:PackageDNARecord/biom:DNASample	biom:DNAProfileStorageDate/nc:Date	1	1
18.015	DPD	itl:PackageDNARecord/biom:DNASample	biom:DNAProfile	1	1
18.015-A	PTP	itl:PackageDNARecord/biom:DNASample/biom:DNAProfile	biom:DNAProfileCategoryCode	1	1
18.015-B	RES	itl:PackageDNARecord/biom:DNASample/biom:DNAProfile	biom:DNAProfileResultCode	0	1
18.015-C	PRF	itl:PackageDNARecord/biom:DNASample/biom:DNAProfile	biom:DNAProfileID	1	1
18.015-D	SUP	itl:PackageDNARecord/biom:DNASample/biom:DNAProfile	biom:DNAProfileSupplementalText	0	1
18.015-E	DPC	itl:PackageDNARecord/biom:DNASample/biom:DNAProfile	biom:DNAProfileCommentText	0	1
18.016	STR	itl:PackageDNARecord/biom:DNASample	biom:DNASTRProfile	0	*
18.016-A	DST	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNASTRProfileCategoryCode	1	1
18.016-B	DLR	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNALocusReferenceID	1	1
18.016-C	ALL	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAAlleleIndicator	1	1
18.016-D	LAI	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNALocusAnalysisIndicator	1	1
18.016-E	PCDT	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAPreciseCallIndicator	1	1
18.016-F	AL1	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAAlleleCall1Text	0	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
18.016-G	AL2	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAAlleleCall2Text	0	1
18.016-H	AL3	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAAlleleCall3Text	0	1
18.016-I	BID	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNABatchID	0	1
18.016-J	ECR	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAElectropherogramID	0	1
18.016-K	LCR	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAElectropherogramLadderID	0	1
		itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile	biom:DNAKit	1	1
18.016-L	KID	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile/biom:DNAKit	biom:DNAKitReferenceID	1	1
18.016-M	KNM	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile/biom:DNAKit	biom:DNAKitName	0	1
18.016-N	KMF	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile/biom:DNAKit	biom:DNAKitManufacturerName	0	1
18.016-O	KDS	itl:PackageDNARecord/biom:DNASample/biom:DNASTRProfile/biom:DNAKit	biom:DNAKitDescriptionText	0	1
18.017	DMD	itl:PackageDNARecord/biom:DNASample	biom:DNAMitochondrialData	0	1
18.017-A	MT1	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoControlRegion1Text	1	1
18.017-B	MT2	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoControlRegion2Text	1	1
18.017-C	BSP	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseStartNumeric	1	1
18.017-D	BEP	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseEndNumeric	1	1
18.017-E	BCA	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseAdenineQuantity	1	1
18.017-F	BCG	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseGuanineQuantity	1	1
18.017-G	BCC	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseCytosineQuantity	1	1
18.017-H	BCT	itl:PackageDNARecord/biom:DNASample/biom:DNAMitochondrialData	biom:DNAMitoBaseThymineQuantity	1	1
18.018	UDP	itl:PackageDNARecord/biom:DNASample	biom:DNAUserDefinedProfileAbstract	0	*
18.019	EPD	itl:PackageDNARecord/biom:DNASample	biom:DNAElectropherogram	0	*
18.019-A	EIR	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogram	biom:DNAElectropherogramID	1	1
18.019-B	EST	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogram	biom:DNAElectropherogramFileStorageText	1	1
18.019-C	IDD	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogram	biom:DNAElectropherogramDataDescriptionText	1	1
18.019-D	ELPD	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogram	biom:DNAElectropherogramBinaryObject	1	1
18.019-E	EPS	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogram	biom:DNAElectropherogramScreenshotImage/nc:Base64BinaryObject	0	1
18.023	EPL	itl:PackageDNARecord/biom:DNASample	biom:DNAElectropherogramLadder	0	*
18.023-A	LIR	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogramLadder	biom:DNAElectropherogramID	1	1
18.023-B	LST	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogramLadder	biom:DNAElectropherogramFileStorageText	1	1

Type-18 DNA Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
18.023-C	LDD	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogramLadder	biom:DNAElectropherogramDataDescriptionText	1	1
18.023-D	LEPD	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogramLadder	biom:DNAElectropherogramBinaryObject	1	1
18.023-E	LES	itl:PackageDNARecord/biom:DNASample/biom:DNAElectropherogramLadder	biom:DNAElectropherogramScreenshotImage/nc:Base64BinaryObject	0	1
18.020	DGD	itl:PackageDNARecord/biom:DNASample	biom:DNAGenotypeDistributionCode	0	1
18.021	GAP	itl:PackageDNARecord/biom:DNASample	biom:DNAGenotypeAllelePair	0	*
18.021-A	GLR	itl:PackageDNARecord/biom:DNASample/biom:DNAGenotypeAllelePair	biom:DNALocusReferenceID	1	1
18.021-B	ALP	itl:PackageDNARecord/biom:DNASample/biom:DNAGenotypeAllelePair	biom:DNAGenotypeAllelePairText	1	1
18.021-C	GNW	itl:PackageDNARecord/biom:DNASample/biom:DNAGenotypeAllelePair	biom:DNALocusGenotypeProbabilityValue	1	1
18.022	COM	itl:PackageDNARecord/biom:DNASample	biom:DNACommentText	0	1

Type-19 Plantar Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
19.002	IDC	itl:PackagePlantarImageRecord	biom:ImageReferenceID	1	1
19.200 to 19.900	UDF	itl:PackagePlantarImageRecord	itl:UserDefinedFields	0	*
19.902	ANN	itl:PackagePlantarImageRecord	biom:ProcessAnnotation	0	*
19.902-A	GMT	itl:PackagePlantarImageRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
19.902-B	NAV	itl:PackagePlantarImageRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
19.902-C	OWN	itl:PackagePlantarImageRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
19.902-D	PRO	itl:PackagePlantarImageRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
19.995	ASC	itl:PackagePlantarImageRecord	biom:AssociatedContext	0	255
19.995-A	ACN	itl:PackagePlantarImageRecord/biom:AssociatedContext	biom:ContextID	1	1
19.995-B	ASP	itl:PackagePlantarImageRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
19.996	HAS	itl:PackagePlantarImageRecord	biom:ImageHashValue	0	1
19.997	SOR	itl:PackagePlantarImageRecord	biom:SourceInformation	0	255
19.997-A	SRN	itl:PackagePlantarImageRecord/biom:SourceInformation	biom:SourceID	1	1
19.997-B	RSP	itl:PackagePlantarImageRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
19.999	DATA	itl:PackagePlantarImageRecord	nc:Base64BinaryObject	0	1
19.994	EFR	itl:PackagePlantarImageRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackagePlantarImageRecord	biom:PlantarImageDetail	1	1
19.012	BPX	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageBitsPerPixelQuantity	0	1
		itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageCaptureDetail	1	1
19.998	GEO	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
19.998-A	UTE	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
19.998-I	GDC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1

Type-19 Plantar Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
19.998-B	LTD	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
19.998-C	LTM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
19.998-D	LTS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
19.998-E	LGD	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
19.998-F	LGM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
19.998-G	LGS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
19.998-H	ELE	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
19.998-J-L	UTM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
19.998-J-L	UTM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
19.998-O	OCV	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
19.998-N	OSI	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
19.998-M	GRT	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
19.005	PCD	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1

Type-19 Plantar Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
19.903	DUI	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
19.904-A	MAK	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
19.904-B	MOD	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
19.904-C	SER	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
19.004	SRC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
19.993	SAN	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
19.047	CON	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
19.016	SHPS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
19.017	SVPS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
19.030	DMM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:ImageCaptureDetail	biom:CaptureDeviceMonitoringModeCode	0	1
19.020	COM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageCommentText	0	1
19.011	CGA	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageCompressionAlgorithmCode	0	1
19.006	HLL	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:HorizontalLineLengthPixelQuantity	0	1
19.009	THPS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageHorizontalPixelDensityValue	0	1
19.008	SLC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageScaleUnitsCode	0	1
19.007	VLL	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:VerticalLineLengthPixelQuantity	0	1
19.010	TVPS	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:ImageVerticalPixelDensityValue	0	1
19.003	IMP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	itl:FrictionRidgeImpressionCaptureCode	1	1
19.901	FCT	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:FrictionRidgeCaptureTechnologyCode	0	1
19.013	FGP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:PlantarPositionCode	1	1
19.018	AMP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:PlantarImageMissingArea	0	8

Type-19 Plantar Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
19.018-A	FRAP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageMissingArea	biom:PlantarPositionCode	1	1
19.018-B	ABC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageMissingArea	biom:PlantarMissingAreaReasonCode	1	1
19.024	FQM	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:PlantarImageQuality	0	9
19.024-A	FRMP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageQuality	biom:PlantarPositionCode	1	1
19.024-D	QAP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageQuality	biom:QualityAlgorithmProductID	1	1
19.024-C	QAV	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageQuality	biom:QualityAlgorithmVendorID	1	1
19.024-B	QVU	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageQuality	biom:QualityValue	1	1
19.019	FSP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:PlantarImageSegmentToePositionPolygon	0	5
19.019-A	FRSP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageSegmentToePositionPolygon	biom:PlantarPositionCode	1	1
19.019-B	NOP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageSegmentToePositionPolygon	biom:PositionPolygonVertexQuantity	1	1
19.019-C-D	POL	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageSegmentToePositionPolygon	biom:PositionPolygonVertex	3	99
19.019-C	HPO	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageSegmentToePositionPolygon/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
19.019-D	VPO	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:PlantarImageSegmentToePositionPolygon/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
19.021	SEG	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:FrictionRidgeImageSegmentPositionSquare	0	17
19.021-A	FRSP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:PlantarPositionCode	1	1
19.021-E	BVC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentBottomVerticalCoordinateValue	1	1
19.021-B	LHC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentLeftHorizontalCoordinateValue	1	1
19.021-C	RHC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentRightHorizontalCoordinateValue	1	1
19.021-D	TVC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:FrictionRidgeImageSegmentPositionSquare	biom:SegmentTopVerticalCoordinateValue	1	1

Type-19 Plantar Image Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
19.031	TAP	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:PlantarImageAcquisitionProfileCode	0	1
19.046	SUB	itl:PackagePlantarImageRecord/biom:PlantarImageDetail	biom:SubjectExistentialDetails	0	1
19.046-A	SSC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
19.046-B	SBSC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
19.046-C	SBCC	itl:PackagePlantarImageRecord/biom:PlantarImageDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1

Type-20 Source Representation Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
20.002	IDC	itl:PackageSourceRepresentationRecord	biom:ImageReferenceID	1	1
20.100 to 20.900	UDF	itl:PackageSourceRepresentationRecord	itl:UserDefinedFields	0	*
20.902	ANN	itl:PackageSourceRepresentationRecord	biom:ProcessAnnotation	0	*
20.902-A	GMT	itl:PackageSourceRepresentationRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
20.902-B	NAV	itl:PackageSourceRepresentationRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
20.902-C	OWN	itl:PackageSourceRepresentationRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
20.902-D	PRO	itl:PackageSourceRepresentationRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
20.995	ASC	itl:PackageSourceRepresentationRecord	biom:AssociatedContext	0	255
20.995-A	ACN	itl:PackageSourceRepresentationRecord/biom:AssociatedContext	biom:ContextID	1	1
20.995-B	ASP	itl:PackageSourceRepresentationRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
20.996	HAS	itl:PackageSourceRepresentationRecord	biom:ImageHashValue	0	1
20.003	CAR	itl:PackageSourceRepresentationRecord	biom:SourceRecordCardinalityCode	1	1
20.014	AQS	itl:PackageSourceRepresentationRecord	biom:SourceAcquisition	1	9
20.014-A	AQT	itl:PackageSourceRepresentationRecord/biom:SourceAcquisition	biom:AcquisitionSourceCode	1	1
20.014-B	A2D	itl:PackageSourceRepresentationRecord/biom:SourceAcquisition	biom:AcquisitionDigitalConversionDescriptionText	0	1
20.014-C	FDN	itl:PackageSourceRepresentationRecord/biom:SourceAcquisition	biom:AcquisitionRadioTransmissionFormatDescriptionText	0	1
20.014-D	AQSC	itl:PackageSourceRepresentationRecord/biom:SourceAcquisition	biom:AcquisitionSpecialCharacteristicsText	0	1
20.015	SFT	itl:PackageSourceRepresentationRecord	biom:SourceFileFormat	1	1
20.015-A	FTY	itl:PackageSourceRepresentationRecord/biom:SourceFileFormat	biom:SourceFileCategoryText	1	1
20.015-B	DEI	itl:PackageSourceRepresentationRecord/biom:SourceFileFormat	biom:SourceFileDecodingInstructionsText	0	1
20.020	COM	itl:PackageSourceRepresentationRecord	biom:SourceCommentText	0	1
20.021	SRN	itl:PackageSourceRepresentationRecord	biom:SourceID	1	1
20.999	DATA	itl:PackageSourceRepresentationRecord	nc:Base64BinaryObject	0	1
20.994	EFR	itl:PackageSourceRepresentationRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageSourceRepresentationRecord	biom:SourceMediaDetail	1	1
20.012	BPX	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageBitsPerPixelQuantity	0	1
		itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageCaptureDetail	1	1
20.998	GEO	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1

Type-20 Source Representation Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
20.998-A	UTE	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
20.998-I	GDC	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
20.998-B	LTD	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
20.998-C	LTM	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
20.998-D	LTS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
20.998-E	LGD	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
20.998-F	LGM	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
20.998-G	LGS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
20.998-H	ELE	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
20.998-J-L	UTM	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
20.998-J-L	UTM	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1

Type-20 Source Representation Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
20.998-O	OCV	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
20.998-N	OSI	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
20.998-M	GRT	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
20.005	SRD	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	0	1
20.022	ICDR	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureDateEstimateRangeDuration	0	1
		itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1
20.903	DUI	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1
20.904-A	MAK	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
20.904-B	MOD	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
20.904-C	SER	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
20.004	SRC	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
20.993	SAN	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
20.017	SHPS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureHorizontalPixelDensityValue	0	1
20.018	SVPS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageCaptureDetail	biom:CaptureVerticalPixelDensityValue	0	1
20.013	CSP	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageColorSpaceCode	0	1
20.011	CGA	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageCompressionAlgorithmCode	0	1
20.006	HLL	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:HorizontalLineLengthPixelQuantity	0	1
20.009	THPS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageHorizontalPixelDensityValue	0	1
20.008	SLC	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageScaleUnitsCode	0	1

Type-20 Source Representation Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
20.007	VLL	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:VerticalLineLengthPixelQuantity	0	1
20.010	TVPS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageVerticalPixelDensityValue	0	1
20.016	SEG	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:ImageSegment	0	99
20.016-A	RSP	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment	biom:ImageSegmentID	1	1
20.016-B	IPT	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment	biom:ImageSegmentInternalFileLocationText	1	1
20.016-C	NOP	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment	biom:PositionPolygonVertexQuantity	0	1
20.016-D-E	POL	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment	biom:PositionPolygonVertex	0	99
20.016-D	HPO	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
20.016-E	VPO	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:ImageSegment/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
20.019	TIX	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail	biom:TimeSegment	0	99
20.019-A	TIS	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:TimeSegment	biom:TimeSegmentStartTime	1	1
20.019-B	TIE	itl:PackageSourceRepresentationRecord/biom:SourceMediaDetail/ biom:TimeSegment	biom:TimeSegmentEndTime	1	1

Type-21 Associated Context Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
21.002	IDC	itl:PackageAssociatedContextRecord	biom:ImageReferenceID	1	1
21.100 to 21.900	UDF	itl:PackageAssociatedContextRecord	itl:UserDefinedFields	0	*
21.902	ANN	itl:PackageAssociatedContextRecord	biom:ProcessAnnotation	0	*
21.902-A	GMT	itl:PackageAssociatedContextRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
21.902-B	NAV	itl:PackageAssociatedContextRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
21.902-C	OWN	itl:PackageAssociatedContextRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
21.902-D	PRO	itl:PackageAssociatedContextRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
21.996	HAS	itl:PackageAssociatedContextRecord	biom:ImageHashValue	0	1
21.015	AFT	itl:PackageAssociatedContextRecord	biom:ContextFileFormat	1	1
21.015-A	FTY	itl:PackageAssociatedContextRecord/biom:ContextFileFormat	biom:ContextFileCategoryText	1	1
21.015-B	DEI	itl:PackageAssociatedContextRecord/biom:ContextFileFormat	biom:ContextFileDecodingInstructionsText	0	1
21.020	COM	itl:PackageAssociatedContextRecord	biom:ContextCommentText	0	1
21.021	ACN	itl:PackageAssociatedContextRecord	biom:ContextID	1	1
21.994	EFR	itl:PackageAssociatedContextRecord	biom:SourceExternalFileReferenceText	0	1
21.999	DATA	itl:PackageAssociatedContextRecord	nc:Base64BinaryObject	0	1
		itl:PackageAssociatedContextRecord	biom:ContextMediaDetail	1	1
		itl:PackageAssociatedContextRecord/biom:ContextMediaDetail	biom:BiometricCapture	1	1
21.998	GEO	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture	biom:GeographicSampleAcquisitionLocation	0	1
21.998-A	UTE	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
21.998-I	GDC	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
21.998-B	LTD	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1

Type-21 Associated Context Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
21.998-C	LTM	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
21.998-D	LTS	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
21.998-E	LGD	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
21.998-F	LGM	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
21.998-G	LGS	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
21.998-H	ELE	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
21.998-J-L	UTM	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
21.998-J-L	UTM	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
21.998-O	OCV	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
21.998-N	OSI	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
21.998-M	GRT	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
21.005	ACD	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture	biom:CaptureDate/nc:Date	0	1
21.022	ICDR	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture	biom:CaptureDateEstimateRangeDuration	0	1
		itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture	biom:CaptureOrganization	1	1

Type-21 Associated Context Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
21.004	SRC	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
21.993	SAN	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationName	0	1
21.047	CON	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:BiometricCapture/biom:CaptureOrganization	nc:OrganizationUnitName	0	1
21.016	SEG	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail	biom:ImageSegment	0	99
21.016-A	ASP	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment	biom:ImageSegmentID	1	1
21.016-B	IPT	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment	biom:ImageSegmentInternalFileLocationText	1	1
21.016-C	NOP	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment	biom:PositionPolygonVertexQuantity	0	1
21.016-D-E	PPV	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment	biom:PositionPolygonVertex	0	99
21.016-D	HPO	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment/biom:PositionPolygonVertex	biom:PositionHorizontalCoordinateValue	1	1
21.016-E	VPO	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:ImageSegment/biom:PositionPolygonVertex	biom:PositionVerticalCoordinateValue	1	1
21.019	TIX	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail	biom:TimeSegment	0	99
21.019-A	TIS	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:TimeSegment	biom:TimeSegmentStartTime	1	1
21.019-B	TIE	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:TimeSegment	biom:TimeSegmentEndTime	1	1
21.006	MDI	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail	biom:MedicalDevice	0	*
21.006-A	TYP	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceCategoryText	0	1
21.006-B	MFG	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceManufacturerText	0	1
21.006-F	COM	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceDescriptionText	0	1
21.006-C	MAK	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceMakeText	0	1
21.006-D	MOD	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceModelText	0	1

Type-21 Associated Context Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
21.006-E	SER	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:MedicalDevice	biom:DeviceSerialNumberText	0	1
21.046	SUB	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail	biom:SubjectExistentialDetails	0	1
21.046-A	SSC	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
21.046-B	SBSC	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
21.046-C	SBCC	itl:PackageAssociatedContextRecord/biom:ContextMediaDetail/ biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1

Type-22 Non Photographic Imagery Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
22.002	IDC	itl:PackageNonPhotographicImageryRecord	biom:ImageReferenceID	1	1
22.992	T2C	itl:PackageNonPhotographicImageryRecord	biom:Type2CrossReferenceID	0	1
22.200 to 22.900	UDF	itl:PackageNonPhotographicImageryRecord	itl:UserDefinedFields	0	*
22.902	ANN	itl:PackageNonPhotographicImageryRecord	biom:ProcessAnnotation	0	*
22.902-A	GMT	itl:PackageNonPhotographicImageryRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
22.902-B	NAV	itl:PackageNonPhotographicImageryRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
22.902-C	OWN	itl:PackageNonPhotographicImageryRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
22.902-D	PRO	itl:PackageNonPhotographicImageryRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
22.995	ASC	itl:PackageNonPhotographicImageryRecord	biom:AssociatedContext	0	255
22.995-A	ACN	itl:PackageNonPhotographicImageryRecord/biom:AssociatedContext	biom:ContextID	1	1
22.995-B	ASP	itl:PackageNonPhotographicImageryRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
22.996	HAS	itl:PackageNonPhotographicImageryRecord	biom:ImageHashValue	0	1
22.997	SOR	itl:PackageNonPhotographicImageryRecord	biom:SourceInformation	0	255
22.997-A	SRN	itl:PackageNonPhotographicImageryRecord/biom:SourceInformation	biom:SourceID	1	1
22.997-B	RSP	itl:PackageNonPhotographicImageryRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
22.999	DATA	itl:PackageNonPhotographicImageryRecord	nc:Base64BinaryObject	0	1
22.994	EFR	itl:PackageNonPhotographicImageryRecord	biom:SourceExternalFileReferenceText	0	1
		itl:PackageNonPhotographicImageryRecord	biom:NonPhotographicImageryDetail	1	1
		itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:BiometricCapture	1	1
22.998	GEO	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture	biom:GeographicSampleAcquisitionLocation	0	1
22.998-A	UTE	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
22.998-I	GDC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1

Type-22 Non Photographic Imagery Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
		itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
22.998-B	LTD	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1
22.998-C	LTM	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
22.998-D	LTS	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
22.998-E	LGD	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
22.998-F	LGM	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
22.998-G	LGS	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
22.998-H	ELE	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
22.998-J-L	UTM	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1

Type-22 Non Photographic Imagery Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
22.998-J-L	UTM	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
22.998-O	OCV	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
22.998-N	OSI	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
22.998-M	GRT	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
22.003	ICD	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture	biom:CaptureDate/nc:Date	0	1
22.005	ICDR	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture	biom:CaptureDateEstimateRangeDuration	0	1
		itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture	biom:CaptureDevice	0	1
22.903	DUI	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureDevice	biom:DeviceID	0	1
22.904-A	MAK	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureDevice	biom:DeviceMakeText	1	1
22.904-B	MOD	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureDevice	biom:DeviceModelText	1	1
22.904-C	SER	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture	biom:CaptureOrganization	1	1
22.004	SRC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
22.993	SAN	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureOrganization	nc:OrganizationName	0	1

Type-22 Non Photographic Imagery Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
22.047	CON	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:BiometricCapture/ biom:CaptureOrganization	nc:OrganizationUnitName	0	1
22.006	BIC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:ImageCategoryCode	0	1
22.046	SUB	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:SubjectExistentialDetails	0	1
22.046-A	SSC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:SubjectExistentialDetails	biom:SubjectExistentialStatusCode	1	1
22.046-B	SBSC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:SubjectExistentialDetails	biom:SubjectBodyStatusCode	0	1
22.046-C	SBCC	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:SubjectExistentialDetails	biom:SubjectBodyClassCode	0	1
22.103	DRID	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:DentalRadiographImageInformation	0	1
22.103-A	RGS	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:DentalRadiographImageInformation	biom:RadiographSizeText	1	1
22.103-B	RIS	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:DentalRadiographImageInformation	biom:RadiographImageSeriesCodeText	1	1
22.103-C	RIIS	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:DentalRadiographImageInformation	biom:RadiographImageSeriesText	0	1
22.103-D	RIIT	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail/biom:DentalRadiographImageInformation	biom:RadiographImageInformationText	0	1
22.101	ITYP	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:NonPhotographicImageCategoryCode	1	1
22.102	IFMT	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:NonPhotographicImageFormatCode	1	1
22.020	COM	itl:PackageNonPhotographicImageryRecord/ biom:NonPhotographicImageryDetail	biom:NonPhotographicImageryCommentText	0	1

Type-98 Information Assurance Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
98.002	IDC	itl:PackageInformationAssuranceRecord	biom:ImageReferenceID	1	1
98.200 to 98.899	UDF	itl:PackageInformationAssuranceRecord	itl:UserDefinedFields	0	*
98.003	DFO	itl:PackageInformationAssuranceRecord	biom:AssuranceFormatOwnerID	1	1
		itl:PackageInformationAssuranceRecord	biom:AssuranceOrganization	1	1
98.004	SRC	itl:PackageInformationAssuranceRecord/biom:AssuranceOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
98.993	SAN	itl:PackageInformationAssuranceRecord/biom:AssuranceOrganization	nc:OrganizationName	0	1
98.005	DFT	itl:PackageInformationAssuranceRecord	biom:AssuranceFormatDescriptorText	1	1
98.006	DCD	itl:PackageInformationAssuranceRecord	biom:AssuranceUTCDateTime	1	1
98.900	ALF	itl:PackageInformationAssuranceRecord	biom:AssuranceLogEntry	0	*
98.900-A	EVT	itl:PackageInformationAssuranceRecord/biom:AssuranceLogEntry	biom:AssuranceLogEventCode	1	1
98.900-B	EVR	itl:PackageInformationAssuranceRecord/biom:AssuranceLogEntry	biom:AssuranceLogEventReasonText	0	1
98.900-C	IID	itl:PackageInformationAssuranceRecord/biom:AssuranceLogEntry	biom:AssuranceLogEventLocationText	1	1
98.900-D	AGT	itl:PackageInformationAssuranceRecord/biom:AssuranceLogEntry	biom:AssuranceLogAgentText	1	1
98.900-E	OLD	itl:PackageInformationAssuranceRecord/biom:AssuranceLogEntry	biom:AssuranceLogEventOriginalValueText	0	1
98.901	ARN	itl:PackageInformationAssuranceRecord	biom:AssuranceAuditRevisionID	0	1

Type-99 CDEFF Biometric Data Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
99.002	IDC	itl:PackageCBEFFBiometricDataRecord	biom:ImageReferenceID	1	1
99.200 to 99.900	UDF	itl:PackageCBEFFBiometricDataRecord	itl:UserDefinedFields	0	*
99.902	ANN	itl:PackageCBEFFBiometricDataRecord	biom:ProcessAnnotation	0	*
99.902-A	GMT	itl:PackageCBEFFBiometricDataRecord/biom:ProcessAnnotation	biom:ProcessUTCDate/nc:DateTime	1	1
99.902-B	NAV	itl:PackageCBEFFBiometricDataRecord/biom:ProcessAnnotation	biom:ProcessName	1	1
99.902-C	OWN	itl:PackageCBEFFBiometricDataRecord/biom:ProcessAnnotation	biom:ProcessOwnerText	1	1
99.902-D	PRO	itl:PackageCBEFFBiometricDataRecord/biom:ProcessAnnotation	biom:ProcessDescriptionText	1	1
99.995	ASC	itl:PackageCBEFFBiometricDataRecord	biom:AssociatedContext	0	255
99.995-A	ACN	itl:PackageCBEFFBiometricDataRecord/biom:AssociatedContext	biom:ContextID	1	1
99.995-B	ASP	itl:PackageCBEFFBiometricDataRecord/biom:AssociatedContext	biom:ImageSegmentID	0	1
99.996	HAS	itl:PackageCBEFFBiometricDataRecord	biom:ImageHashValue	0	1
99.997	SOR	itl:PackageCBEFFBiometricDataRecord	biom:SourceInformation	0	255
99.997-A	SRN	itl:PackageCBEFFBiometricDataRecord/biom:SourceInformation	biom:SourceID	1	1
99.997-B	RSP	itl:PackageCBEFFBiometricDataRecord/biom:SourceInformation	biom:ImageSegmentID	0	1
		itl:PackageCBEFFBiometricDataRecord	biom:CBEFFImage	1	1
99.999	DATA	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	nc:Base64BinaryObject	1	1
		itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:ImageCaptureDetail	1	1
99.998	GEO	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail	biom:GeographicSampleAcquisitionLocation	0	1
99.998-A	UTE	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:CaptureUTCDateTime	0	1
	3D GEO	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:Location3DGeospatialCoordinate	0	1
99.998-I	GDC	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	biom:GeodeticDatumCoordinateSystemCode	0	1
		itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLatitude	1	1
99.998-B	LTD	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeDegreeValue	1	1

Type-99 CDEFF Biometric Data Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
99.998-C	LTM	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeMinuteValue	0	1
99.998-D	LTS	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLatitude	nc:LatitudeSecondValue	0	1
		itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:GeographicCoordinateLongitude	1	1
99.998-E	LGD	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeDegreeValue	1	1
99.998-F	LGM	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeMinuteValue	0	1
99.998-G	LGS	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate/nc:GeographicCoordinateLongitude	nc:LongitudeSecondValue	0	1
99.998-H	ELE	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation/ nc:Location3DGeospatialCoordinate	nc:LocationElevation/nc:MeasureDecimalValue	0	1
99.998-J-L	UTM	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationUTMCoordinateValue	0	1
99.998-J-L	UTM	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	mo:MGRSCoordinateStringText	0	1
99.998-O	OCV	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationText	0	1
99.998-N	OSI	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	biom:GeographicLocationSystemName	0	1
99.998-M	GRT	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:GeographicSampleAcquisitionLocation	nc:LocationDescriptionText	0	1
99.005	BCD	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail	biom:CaptureDate/nc:Date	1	1
		itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail	biom:CaptureDevice	0	1
99.903	DUI	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceID	0	1

Type-99 CDEFF Biometric Data Record

Field ID	Field Name	XML Parent	NIEM Element	Min	Max
99.904-A	MAK	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceMakeText	1	1
99.904-B	MOD	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceModelText	1	1
99.904-C	SER	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureDevice	biom:DeviceSerialNumberText	1	1
		itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail	biom:CaptureOrganization	1	1
99.004	SRC	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationIdentification/nc:IdentificationID	1	1
99.993	SAN	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/ biom:ImageCaptureDetail/biom:CaptureOrganization	nc:OrganizationName	0	1
99.102	BDQ	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:ImageQuality	0	9
99.102-C	QAP	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/biom:ImageQuality	biom:QualityAlgorithmProductID	1	1
99.102-B	QAV	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/biom:ImageQuality	biom:QualityAlgorithmVendorID	1	1
99.102-A	QVU	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage/biom:ImageQuality	biom:QualityValue	1	1
99.103	BFO	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:CBEFFFormatOwnerID	1	1
99.104	BFT	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:CBEFFFormatCategoryID	1	1
99.100	HDV	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:CBEFFVersionID	1	1
99.101	BTY	itl:PackageCBEFFBiometricDataRecord/biom:CBEFFImage	biom:CBEFFCategoryCode	1	1