Alliance Metadata Reference Guide

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1. Metadata Reference

Alliance extracts basic metadata from the resources ingested. Many file types contain additional file format-specific metadata attributes. A neutral Catalog Taxonomy enables transformation of metadata to other formats. See also a list of all formats supported for ingest.

1.1. Common Metadata Attributes

Alliance supports a wide variety of file types and data types for ingest. The Alliance's internal Input Transformers extract the necessary data into a generalized format. Alliance supports ingest of many datatypes and commonly used file formats, such as Microsoft office products: including Word documents, Excel spreadsheets, and PowerPoint presentations, as well as .pdf files, GeoJson, and others. See complete list. Many of these file types support additional file format-specific attributes from which additional metadata can be extracted.

NOTE	These attributes are available in all the specified file formats; however, values are only present if present in the original document/resource.

These attributes are supported by any file type ingested into Alliance:

Common Attributes in All Supported File Types

- metadata
- id
- modified (date)
- title (filename)
- metadata content type (mime type)
- effective (date)
- created (date)

These 'media' file types have support for additional attributes to be available when ingested into Alliance:

File Types Supporting Additional Attributes

- Video Types
  - WMV
  - AVI
  - MP4
  - MOV
  - h.264 MPEG2
- Image Types

    - JPEG-2000
- Document Types
    - .DOC, .DOCX, .DOTX, .DOCM
    - .PPT, .PPTX
    - .XLS, .XLSX
    - .PDF

These are the attributes common to any of the media file types which support additional attributes:

Additional Possible Attributes Common to 'Media' File Types

- `media.format-version`
- `media.format`
- `media.bit-rate`
- `media.bits-per-sample`
- `media.compression`
- `media.encoding`
- `media.frame-center`
- `media.frame-rate`
- `media.height-pixels`
- `media.number-of-bands`
- `media.scanning-mode`
- `media.type`
- `media.duration`
- `media.page-count`
- `datatype`
- `description`
- `contact.point-of-contact-name`
- `contact.contributor-name`
- `contact.creator-name`
- `contact.publisher-name`
- `contact.point-of-contact-phone`
- `topic.keyword`

1.2. File Format-specific Attributes

Many file formats support additional metadata attributes that Alliance is able to extract and make discoverable.

1.2.1. Mp4 Additional Attribute

Mp4 files have an additional attribute:

- `ext.mp4.audio-sample-rate`

1.2.2. All File Formats Supported

Supported File Types

Using the various input transformers, Alliance supports ingest of the following MIME types. While ingest is possible for these files, metadata is limited unless otherwise noted.

Table 1. Application File Types

activemessage	andrew-inset	applefile
applixware	atom+xml	atomcat+xml
atomicmail	atomsvc+xml	auth-policy+xml
batch-smtp	beep+xml	bizagi-modeler
cals-1840	cbor	ccxml+xml
cea-2018+xml	cellml+xml	cnrp+xml
commonground	conference-info+xml	cpl+xml
csta+xml	cstadata+xml	cu-seeme
cybercash	davmount+xml	dca-rft
dec-dx	dialog-info+xml	dicom
dif+xml	dita+xml	dita+xml
dita+xml	dita+xml	dita+xml
dita+xml	dns	dvcs
ecmascript	edi-consent	edi-x12
edifact	emma+xml	epp+xml
epub+zip	eshop	example
fastinfoset	fastsoap	fits
font-tdpfr	gzip	h224
http	hyperstudio	ibe-key-request+xml
ibe-pkg-reply+xml	ibe-pp-data	iges
illustrator	im-iscomposing+xml	index
index.cmd	index.obj	index.response
index.vnd	inf	iotp
ipp	isup	java-archive
java-serialized-object	java-vm	javascript
json	kate	kpml-request+xml
kpml-response+xml	lost+xml	mac-binhex40
mac-compactpro	macwriteii	marc

mathematica	mathml+xml	mbms-associated-procedure-description+xml
mbms-deregister+xml	mbms-envelope+xml	mbms-msk+xml
mbms-msk-response+xml	mbms-protection-description+xml	mbms-reception-report+xml
mbms-register+xml	mbms-register-response+xml	mbms-user-service-description+xml
mbox	media_control+xml	mediaservercontrol+xml
mikey	moss-keys	moss-signature
mosskey-data	mosskey-request	mp4
mpeg4-generic	mpeg4-iod	mpeg4-iod-xmt
msword	msword2	msword5
mxf	nasdata	news-checkgroups
news-groupinfo	news-transmission	nss
ocsp-request	ocsp-response	octet-stream
oda	oebps-package+xml	ogg
onenote	parityfec	patch-ops-error+xml
pdf	pgp-encrypted	pgp-keys
pgp-signature	pics-rules	pidf+xml
pidf-diff+xml	pkcs10	pkcs7-mime
pkcs7-signature	pkix-cert	pkix-crl
pkix-pkipath	pkixcmp	pls+xml
poc-settings+xml	postscript	prs.alvestrand.titrax-sheet
prs.cww	prs.nprend	prs.plucker
qsig	quicktime	rdf+xml
reginfo+xml	relax-ng-compact-syntax	remote-printing
resource-lists+xml	resource-lists-diff+xml	riscos
rlmi+xml	rls-services+xml	rsd+xml
rss+xml	rtf	rtx
samlassertion+xml	samlmetadata+xml	sbml+xml
scvp-cv-request	scvp-cv-response	scvp-vp-request
scvp-vp-response	sdp	sereal
sereal	sereal	sereal
set-payment	set-payment-initiation	set-registration
set-registration-initiation	sgml	sgml-open-catalog
shf+xml	sieve	simple-filter+xml
simple-message-summary	simplesymbolcontainer	slate
sldworks	smil+xml	soap+fastinfoset
soap+xml	sparql-query	sparql-results+xml

spirits-event+xml	srgs	srgs+xml
ssml+xml	timestamp-query	timestamp-reply
tve-trigger	ulpfec	vemmi
vividence.scriptfile	vnd.3gpp.bsf+xml	vnd.3gpp.pic-bw-large
vnd.3gpp.pic-bw-small	vnd.3gpp.pic-bw-var	vnd.3gpp.sms
vnd.3gpp2.bcmcsinfo+xml	vnd.3gpp2.sms	vnd.3gpp2.tcap
vnd.3m.post-it-notes	vnd.accpac.simply.aso	vnd.accpac.simply.imp
vnd.acucobol	vnd.acucorp	vnd.adobe.aftereffects.project
vnd.adobe.aftereffects.template	vnd.adobe.air-application-installer-package+zip	vnd.adobe.xdp+xml
vnd.adobe.xfdf	vnd.aether.imp	vnd.airzip.filesecure.azf
vnd.airzip.filesecure.azs	vnd.amazon.ebook	vnd.americandynamics.acc
vnd.amiga.ami	vnd.android.package-archive	vnd.anser-web-certificate-issue-initiation
vnd.anser-web-funds-transfer-initiation	vnd.antix.game-component	vnd.apple.installer+xml
vnd.apple.iwork	vnd.apple.keynote	vnd.apple.numbers
vnd.apple.pages	vnd.arastra.swi	vnd.audiograph
vnd.autopackage	vnd.avistar+xml	vnd.blueice.multipass
vnd.bluetooth.ep.oob	vnd.bmi	vnd.businessobjects
vnd.cab-jscript	vnd.canon-cpdl	vnd.canon-lips
vnd.cendio.thinlinc.clientconf	vnd.chemdraw+xml	vnd.chipnuts.karaoke-mmd
vnd.cinderella	vnd.cirpack.isdn-ext	vnd.claymore
vnd.clonk.c4group	vnd.commerce-battelle	vnd.commonspace
vnd.contact.cmsg	vnd.cosmocaller	vnd.crick.clicker
vnd.crick.clicker.keyboard	vnd.crick.clicker.palette	vnd.crick.clicker.template
vnd.crick.clicker.wordbank	vnd.criticaltools.wbs+xml	vnd.ctc-posml
vnd.ctct.ws+xml	vnd.cups-pdf	vnd.cups-postscript
vnd.cups-ppd	vnd.cups-raster	vnd.cups-raw
vnd.curl.car	vnd.curl.pcurl	vnd.cybank
vnd.data-vision.rdz	vnd.denovo.fcselayout-link	vnd.dir-bi.plate-dl-nosuffix
vnd.dna	vnd.dolby.mlp	vnd.dolby.mobile.1
vnd.dolby.mobile.2	vnd.dpgraph	vnd.dreamfactory
vnd.dvb.esgcontainer	vnd.dvb.ipdcdftnotifaccess	vnd.dvb.ipdcesgaccess
vnd.dvb.ipdcroaming	vnd.dvb.iptv.alfec-base	vnd.dvb.iptv.alfec-enhancement
vnd.dvb.notif-aggregate-root+xml	vnd.dvb.notif-container+xml	vnd.dvb.notif-generic+xml
vnd.dvb.notif-ia-msglist+xml	vnd.dvb.notif-ia-registration-request+xml	vnd.dvb.notif-ia-registration-response+xml

vnd.dvb.notif-init+xml	vnd.dxr	vnd.dynageo
vnd.ecdis-update	vnd.ecowin.chart	vnd.ecowin.filerequest
vnd.ecowin.fileupdate	vnd.ecowin.series	vnd.ecowin.seriesrequest
vnd.ecowin.seriesupdate	vnd.emclient.accessrequest+xml	vnd.enliven
vnd.epson.esf	vnd.epson.msf	vnd.epson.quickanime
vnd.epson.salt	vnd.epson.ssf	vnd.ericsson.quickcall
vnd.eszigno3+xml	vnd.etsi.aoc+xml	vnd.etsi.asic-e+zip
vnd.etsi.asic-s+zip	vnd.etsi.cug+xml	vnd.etsi.iptvcommand+xml
vnd.etsi.iptvdiscovery+xml	vnd.etsi.iptvprofile+xml	vnd.etsi.iptvsad-bc+xml
vnd.etsi.iptvsad-cod+xml	vnd.etsi.iptvsad-npvr+xml	vnd.etsi.iptvueprofile+xml
vnd.etsi.mcid+xml	vnd.etsi.sci+xml	vnd.etsi.simservs+xml
vnd.eudora.data	vnd.ezpix-album	vnd.ezpix-package
vnd.f-secure.mobile	vnd.fdf	vnd.fdsn.mseed
vnd.fdsn.seed	vnd.ffsns	vnd.fints
vnd.flographit	vnd.fluxtime.clip	vnd.font-fontforge-sfd
vnd.framemaker	vnd.frogans.fnc	vnd.frogans.ltf
vnd.fsc.weblaunch	vnd.fujitsu.oasys	vnd.fujitsu.oasys2
vnd.fujitsu.oasys3	vnd.fujitsu.oasysgp	vnd.fujitsu.oasysprs
vnd.fujixerox.art-ex	vnd.fujixerox.art4	vnd.fujixerox.ddd
vnd.fujixerox.docuworks	vnd.fujixerox.docuworks.binder	vnd.fujixerox.hbpl
vnd.fut-misnet	vnd.fuzzysheet	vnd.genomatix.tuxedo
vnd.geogebra.file	vnd.geogebra.tool	vnd.geometry-explorer
vnd.gmx	vnd.google-earth.kml+xml	vnd.google-earth.kmz
vnd.grafeq	vnd.gridmp	vnd.groove-account
vnd.groove-help	vnd.groove-identity-message	vnd.groove-injector
vnd.groove-tool-message	vnd.groove-tool-template	vnd.groove-vcard
vnd.handheld-entertainment+xml	vnd.hbci	vnd.hcl-bireports
vnd.hhe.lesson-player	vnd.hp-hpgl	vnd.hp-hpid
vnd.hp-hps	vnd.hp-jlyt	vnd.hp-pcl
vnd.hp-pclxl	vnd.httphone	vnd.hydrostatix.sof-data
vnd.hzn-3d-crossword	vnd.ibm.afplinedata	vnd.ibm.electronic-media
vnd.ibm.minipay	vnd.ibm.modcap	vnd.ibm.rights-management
vnd.ibm.secure-container	vnd.iccprofile	vnd.igloader
vnd.immervision-ivp	vnd.immervision-ivu	vnd.informedcontrol.rms+xml
vnd.informix-visionary	vnd.intercon.formnet	vnd.intertrust.digibox
vnd.intertrust.nncp	vnd.intu.qbo	vnd.intu.qfx
vnd.iptc.g2.conceptitem+xml	vnd.iptc.g2.knowledgeitem+xml	vnd.iptc.g2.newsitem+xml
vnd.iptc.g2.packageitem+xml	vnd.ipunplugged.rcprofile	vnd.irepository.package+xml

vnd.is-xpr	vnd.jam	vnd.japannet-directory-service
vnd.japannet-jpnstore-wakeup	vnd.japannet-payment-wakeup	vnd.japannet-registration
vnd.japannet-registration-wakeup	vnd.japannet-setstore-wakeup	vnd.japannet-verification
vnd.japannet-verification-wakeup	vnd.jcp.javame.midlet-rms	vnd.jisp
vnd.joost.joda-archive	vnd.kahootz	vnd.kde.karbon
vnd.kde.kchart	vnd.kde.kformula	vnd.kde.kivio
vnd.kde.kontour	vnd.kde.kpresenter	vnd.kde.kspread
vnd.kde.kword	vnd.kenameaapp	vnd.kidspiration
vnd.kinar	vnd.koan	vnd.kodak-descriptor
vnd.liberty-request+xml	vnd.llamagraphics.life-balance.desktop	vnd.llamagraphics.life-balance.exchange+xml
vnd.lotus-1-2-3	vnd.lotus-approach	vnd.lotus-freelance
vnd.lotus-notes	vnd.lotus-organizer	vnd.lotus-screencam
vnd.lotus-wordpro	vnd.macports.portpkg	vnd.marlin.drm.actiontoken+xml
vnd.marlin.drm.conftoken+xml	vnd.marlin.drm.license+xml	vnd.marlin.drm.mdcf
vnd.mcd	vnd.medcalcdata	vnd.mediastation.cdkey
vnd.meridian-slingshot	vnd.mfer	vnd.mfmp
vnd.micrografx.flo	vnd.micrografx.igx	vnd.mif
vnd.mindjet.mindmanager	vnd.minisoft-hp3000-save	vnd.mitsubishi.misty-guard.trustweb
vnd.mobius.daf	vnd.mobius.dis	vnd.mobius.mbk
vnd.mobius.mqy	vnd.mobius.msl	vnd.mobius.plc
vnd.mobius.txf	vnd.mophun.application	vnd.mophun.certificate
vnd.motorola.flexsuite	vnd.motorola.flexsuite.adsi	vnd.motorola.flexsuite.fis
vnd.motorola.flexsuite.gotap	vnd.motorola.flexsuite.kmr	vnd.motorola.flexsuite.ttc
vnd.motorola.flexsuite.wem	vnd.motorola.iprm	vnd.mozilla.xul+xml
vnd.ms-artgalry	vnd.ms-asf	vnd.ms-cab-compressed
vnd.ms-excel	vnd.ms-excel.addin.macroenabled.12	vnd.ms-excel.sheet.2
vnd.ms-excel.sheet.3	vnd.ms-excel.sheet.4	vnd.ms-excel.sheet.binary.macroenabled.12
vnd.ms-excel.sheet.macroenabled.12	vnd.ms-excel.template.macroenabled.12	vnd.ms-excel.workspace.3
vnd.ms-excel.workspace.4	vnd.ms-fontobject	vnd.ms-htmlhelp
vnd.ms-ims	vnd.ms-lrm	vnd.ms-outlook
vnd.ms-outlook-pst	vnd.ms-pki.seccat	vnd.ms-pki.stl

vnd.ms-playready.initiator+xml	vnd.ms-powerpoint	vnd.ms-powerpoint.addin.macroenabled.12
vnd.ms-powerpoint.presentation.macroenabled.12	vnd.ms-powerpoint.slide.macroenabled.12	vnd.ms-powerpoint.slideshow.macroenabled.12
vnd.ms-powerpoint.template.macroenabled.12	vnd.ms-project	vnd.ms-tnef
vnd.ms-visio.drawing	vnd.ms-visio.drawing.macroenabled.12	vnd.ms-visio.stencil
vnd.ms-visio.stencil.macroenabled.12	vnd.ms-visio.template	vnd.ms-visio.template.macroenabled.12
vnd.ms-visio.viewer	vnd.ms-wmdrm.lic-chlg-req	vnd.ms-wmdrm.lic-resp
vnd.ms-wmdrm.meter-chlg-req	vnd.ms-wmdrm.meter-resp	vnd.ms-word.document.macroenabled.12
vnd.ms-word.template.macroenabled.12	vnd.ms-works	vnd.ms-wpl
vnd.ms-xpsdocument	vnd.mseq	vnd.msign
vnd.multiad.creator	vnd.multiad.creator.cif	vnd.music-niff
vnd.musician	vnd.muvee.style	vnd.ncd.control
vnd.ncd.reference	vnd.nervana	vnd.netfpx
vnd.neurolanguage.nlu	vnd.noblenet-directory	vnd.noblenet-sealer
vnd.noblenet-web	vnd.nokia.catalogs	vnd.nokia.conml+wbxml
vnd.nokia.conml+xml	vnd.nokia.iptv.config+xml	vnd.nokia.isds-radio-presets
vnd.nokia.landmark+wbxml	vnd.nokia.landmark+xml	vnd.nokia.landmarkcollection+xml
vnd.nokia.n-gage.ac+xml	vnd.nokia.n-gage.data	vnd.nokia.n-gage.symbian.install
vnd.nokia.ncd	vnd.nokia.pcd+wbxml	vnd.nokia.pcd+xml
vnd.nokia.radio-preset	vnd.nokia.radio-presets	vnd.novadigm.edm
vnd.novadigm.edx	vnd.novadigm.ext	vnd.oasis.opendocument.chart
vnd.oasis.opendocument.chart-template	vnd.oasis.opendocument.database	vnd.oasis.opendocument.formula
vnd.oasis.opendocument.formula-template	vnd.oasis.opendocument.graphics	vnd.oasis.opendocument.graphics-template
vnd.oasis.opendocument.image	vnd.oasis.opendocument.image-template	vnd.oasis.opendocument.presentation
vnd.oasis.opendocument.presentation-template	vnd.oasis.opendocument.spreadsheet	vnd.oasis.opendocument.spreadsheet-template
vnd.oasis.opendocument.text	vnd.oasis.opendocument.text-master	vnd.oasis.opendocument.text-template
vnd.oasis.opendocument.text-web	vnd.obn	vnd.olpc-sugar

vnd.oma-scws-config	vnd.oma-scws-http-request	vnd.oma-scws-http-response
vnd.oma.bcast.associated-procedure-parameter+xml	vnd.oma.bcast.drm-trigger+xml	vnd.oma.bcast.imd+xml
vnd.oma.bcast.ltkm	vnd.oma.bcast.notification+xml	vnd.oma.bcast.provisioningtrigger
vnd.oma.bcast.sgboot	vnd.oma.bcast.sgdd+xml	vnd.oma.bcast.sgdu
vnd.oma.bcast.simple-symbol-container	vnd.oma.bcast.smartcard-trigger+xml	vnd.oma.bcast.sprov+xml
vnd.oma.bcast.stkm	vnd.oma.dcd	vnd.oma.dcdc
vnd.oma.dd2+xml	vnd.oma.drm.risd+xml	vnd.oma.group-usage-list+xml
vnd.oma.poc.detailed-progress-report+xml	vnd.oma.poc.final-report+xml	vnd.oma.poc.groups+xml
vnd.oma.poc.invocation-descriptor+xml	vnd.oma.poc.optimized-progress-report+xml	vnd.oma.xcap-directory+xml
vnd.omads-email+xml	vnd.omads-file+xml	vnd.omads-folder+xml
vnd.omaloc-supl-init	vnd.openofficeorg.extension	vnd.openxmlformats-officedocument.presentationml.presentation
vnd.openxmlformats-officedocument.presentationml.slide	vnd.openxmlformats-officedocument.presentationml.slideshow	vnd.openxmlformats-officedocument.presentationml.template
vnd.openxmlformats-officedocument.spreadsheetml.sheet	vnd.openxmlformats-officedocument.spreadsheetml.template	vnd.openxmlformats-officedocument.wordprocessingml.document
vnd.openxmlformats-officedocument.wordprocessingml.template	vnd.osa.netdeploy	vnd.osgi.bundle
vnd.osgi.dp	vnd.otps.ct-kip+xml	vnd.palm
vnd.paos.xml	vnd.pg.format	vnd.pg.osasli
vnd.piaccess.application-licence	vnd.picsel	vnd.poc.group-advertisement+xml
vnd.pocketlearn	vnd.powerbuilder6	vnd.powerbuilder6-s
vnd.powerbuilder7	vnd.powerbuilder7-s	vnd.powerbuilder75
vnd.powerbuilder75-s	vnd.preminet	vnd.previewsystems.box
vnd.proteus.magazine	vnd.publishare-delta-tree	vnd.pvi.ptid1
vnd.pwg-multiplexed	vnd.pwg-xhtml-print+xml	vnd.qualcomm.brew-app-res
vnd.quark.quarkxpress	vnd.rapid	vnd.recordare.musicxml
vnd.recordare.musicxml+xml	vnd.renlearn.rlprint	vnd.rim.cod
vnd.rn-realmedia	vnd.route66.link66+xml	vnd.ruckus.download
vnd.s3sms	vnd.sbm.cid	vnd.sbm.mid2
vnd.scribus	vnd.sealed.3df	vnd.sealed.csf
vnd.sealed.doc	vnd.sealed.eml	vnd.sealed.mht

vnd.sealed.net	vnd.sealed.ppt	vnd.sealed.tiff
vnd.sealed.xls	vnd.sealedmedia.softseal.html	vnd.sealedmedia.softseal.pdf
vnd.seemail	vnd.sema	vnd.semd
vnd.semf	vnd.shana.informed.formdata	vnd.shana.informed.formtemplate
vnd.shana.informed.interchange	vnd.shana.informed.package	vnd.simtech-mindmapper
vnd.smaf	vnd.smart.teacher	vnd.software602.filler.form+xml
vnd.software602.filler.form-xml-zip	vnd.solent.sdkm+xml	vnd.spotfire.dxp
vnd.spotfire.sfs	vnd.sss-cod	vnd.sss-dtf
vnd.sss-ntf	vnd.stardivision.calc	vnd.stardivision.draw
vnd.stardivision.impress	vnd.stardivision.math	vnd.stardivision.writer
vnd.stardivision.writer-global	vnd.street-stream	vnd.sun.wadl+xml
vnd.sun.xml.calc	vnd.sun.xml.calc.template	vnd.sun.xml.draw
vnd.sun.xml.draw.template	vnd.sun.xml.impress	vnd.sun.xml.impress.template
vnd.sun.xml.math	vnd.sun.xml.writer	vnd.sun.xml.writer.global
vnd.sun.xml.writer.template	vnd.sus-calendar	vnd.svd
vnd.swiftview-ics	vnd.symbian.install	vnd.syncml+xml
vnd.syncml.dm+wbxml	vnd.syncml.dm+xml	vnd.syncml.dm.notification
vnd.syncml.ds.notification	vnd.tao.intent-module-archive	vnd.tcpdump.pcap
vnd.tmobile-livetv	vnd.trid.tpt	vnd.triscape.mxs
vnd.trueapp	vnd.truedoc	vnd.ufdl
vnd.uiq.theme	vnd.umajin	vnd.unity
vnd.uoml+xml	vnd.uplanet.alert	vnd.uplanet.alert-wbxml
vnd.uplanet.bearer-choice	vnd.uplanet.bearer-choice-wbxml	vnd.uplanet.cacheop
vnd.uplanet.cacheop-wbxml	vnd.uplanet.channel	vnd.uplanet.channel-wbxml
vnd.uplanet.list	vnd.uplanet.list-wbxml	vnd.uplanet.listcmd
vnd.uplanet.listcmd-wbxml	vnd.uplanet.signal	vnd.vcx
vnd.vd-study	vnd.vectorworks	vnd.vidsoft.vidconference
vnd.visio	vnd.visionary	vnd.vividence.scriptfile
vnd.vsf	vnd.wap.sic	vnd.wap.slc
vnd.wap.wbxml	vnd.wap.wmlc	vnd.wap.wmlscriptc
vnd.webturbo	vnd.wfa.wsc	vnd.wmc
vnd.wmf.bootstrap	vnd.wordperfect	vnd.wqd
vnd.wrq-hp3000-labelled	vnd.wt.stf	vnd.wv.csp+wbxml
vnd.wv.csp+xml	vnd.wv.ssp+xml	vnd.xara
vnd.xfdl	vnd.xfdl.webform	vnd.xmi+xml

vnd.xmpie.cpkg	vnd.xmpie.dpkg	vnd.xmpie.plan
vnd.xmpie.ppkg	vnd.xmpie.xlim	vnd.yamaha.hv-dic
vnd.yamaha.hv-script	vnd.yamaha.hv-voice	vnd.yamaha.openscoreformat
vnd.yamaha.openscoreformat.osfpvg+xml	vnd.yamaha.smaf-audio	vnd.yamaha.smaf-phrase
vnd.yellowriver-custom-menu	vnd.zul	vnd.zzazz.deck+xml
voicexml+xml	watcherinfo+xml	whoispp-query
whoispp-response	winhlp	wita
wordperfect5.1	wsdl+xml	wspolicy+xml
x-123	x-7z-compressed	x-abiword
x-ace-compressed	x-adobe-indesign	x-adobe-indesign-interchange
x-apple-diskimage	x-appleworks	x-archive
x-arj	x-authorware-bin	x-authorware-map
x-authorware-seg	x-axcrypt	x-bcpio
x-berkeley-db	x-berkeley-db	x-berkeley-db
x-berkeley-db	x-berkeley-db	x-berkeley-db
x-berkeley-db	x-berkeley-db	x-berkeley-db
x-berkeley-db	x-berkeley-db	x-berkeley-db
x-bibtex-text-file	x-bittorrent	x-bplist
x-bzip	x-bzip2	x-cdlink
x-chat	x-chess-pgn	x-chrome-package
x-compress	x-coredump	x-corelpresentations
x-cpio	x-csh	x-debian-package
x-dex	x-director	x-doom
x-dosexec	x-dtbncx+xml	x-dtbook+xml
x-dtbresource+xml	x-dvi	x-elc
x-elf	x-emf	x-erdas-hfa
x-executable	x-fictionbook+xml	x-filemaker
x-font-adobe-metric	x-font-bdf	x-font-dos
x-font-framemaker	x-font-ghostscript	x-font-libgrx
x-font-linux-psf	x-font-otf	x-font-pcf
x-font-printer-metric	x-font-snf	x-font-speedo
x-font-sunos-news	x-font-ttf	x-font-type1
x-font-vfont	x-foxmail	x-futuresplash
x-gnucash	x-gnumeric	x-grib
x-gtar	x-hdf	x-hwp
x-hwp-v5	x-ibooks+zip	x-isatab
x-isatab-assay	x-isatab-investigation	x-iso9660-image

x-itunes-ipa	x-java-jnilib	x-java-jnlp-file
x-java-pack200	x-kdelnk	x-killustrator
x-latex	x-lha	x-lharc
x-matlab-data	x-matroska	x-mobipocket-ebook
x-ms-application	x-ms-installer	x-ms-wmd
x-ms-wmz	x-ms-xbap	x-msaccess
x-msbinder	x-mscardfile	x-msclip
x-msdownload	x-msdownload	x-msdownload
x-msdownload	x-msdownload	x-msdownload
x-msdownload	x-msmediaview	x-msmetafile
x-msmoney	x-mspublisher	x-msschedule
x-msterminal	x-mswrite	x-mysql-db
x-mysql-misam-compressed-index	x-mysql-misam-data	x-mysql-misam-index
x-mysql-table-definition	x-netcdf	x-object
x-pkcs12	x-pkcs7-certificates	x-pkcs7-certreqresp
x-project	x-prt	x-quattro-pro
x-rar-compressed	x-roxio-toast	x-rpm
x-sas	x-sas-access	x-sas-audit
x-sas-backup	x-sas-catalog	x-sas-data
x-sas-data-index	x-sas-dmdb	x-sas-fdb
x-sas-itemstor	x-sas-mddb	x-sas-program-data
x-sas-putility	x-sas-transport	x-sas-utility
x-sas-view	x-sc	x-sfdu
x-sh	x-shapefile	x-shar
x-sharedlib	x-shockwave-flash	x-silverlight-app
x-snappy-framed	x-sqlite3	x-staroffice-template
x-stuffit	x-stuffitx	x-sv4cpio
x-sv4crc	x-tar	x-tex
x-tex-tfm	x-texinfo	x-tika-iworks-protected
x-tika-java-enterprise-archive	x-tika-java-web-archive	x-tika-msoffice
x-tika-msoffice-embedded	x-tika-msoffice-embedded	x-tika-msoffice-embedded
x-tika-msworks-spreadsheet	x-tika-old-excel	x-tika-ooxml
x-tika-ooxml-protected	x-tika-staroffice	x-tika-unix-dump
x-tika-visio-ooxml	x-uc2-compressed	x-ustar
x-vhd	x-vmdk	x-wais-source
x-webarchive	x-x509-ca-cert	x-xfig
x-xmind	x-xpinstall	x-xz
x-zoo	x400-bp	xcap-att+xml

xcap-caps+xml	xcap-el+xml	xcap-error+xml
xcap-ns+xml	xcon-conference-info+xml	xcon-conference-info-diff+xml
xenc+xml	xhtml+xml	xhtml-voice+xml
xml	xml-dtd	xml-external-parsed-entity
xmpp+xml	xop+xml	xquery
xslfo+xml	xslt+xml	xspf+xml
xv+xml	zip	zlib

Table 2. Audio File Types

32kadpcm	3gpp	3gpp2
ac3	adpcm	amr
amr-wb	amr-wb+	asc
basic	bv16	bv32
clearmode	cn	dat12
dls	dsr-es201108	dsr-es202050
dsr-es202211	dsr-es202212	dvi4
eac3	evrc	evrc-qcp
evrc0	evrc1	evrcb
evrcb0	evrcb1	evrcwb
evrcwb0	evrcwb1	example
g719	g722	g7221
g723	g726-16	g726-24
g726-32	g726-40	g728
g729	g7291	g729d
g729e	gsm	gsm-efr
ilbc	l16	l20
l24	l8	lpc
midi	mobile-xmf	mp4
mp4a-latm	mpa	mpa-robust
mpeg	mpeg4-generic	ogg
opus	parityfec	pcma
pcma-wb	pcmu	pcmu-wb
prs.sid	qcelp	red
rtp-enc-aescm128	rtp-midi	rtx
smv	smv-qcp	smv0
sp-midi	speex	t140c
t38	telephone-event	tone
ulpfec	vdvi	vmr-wb

vnd.3gpp.iufp	vnd.4sb	vnd.adobe.soundbooth
vnd.audiokoz	vnd.celp	vnd.cisco.nse
vnd.cmles.radio-events	vnd.cns.anp1	vnd.cns.inf1
vnd.digital-winds	vnd.dlna.adts	vnd.dolby.heaac.1
vnd.dolby.heaac.2	vnd.dolby.mlp	vnd.dolby.mps
vnd.dolby.pl2	vnd.dolby.pl2x	vnd.dolby.pl2z
vnd.dts	vnd.dts.hd	vnd.everad.plj
vnd.hns.audio	vnd.lucent.voice	vnd.ms-playready.media.pya
vnd.nokia.mobile-xmf	vnd.nortel.vbk	vnd.nuera.ecelp4800
vnd.nuera.ecelp7470	vnd.nuera.ecelp9600	vnd.octel.sbc
vnd.qcelp	vnd.rhetorex.32kadpcm	vnd.sealedmedia.softseal.mpeg
vnd.vmx.cvsd	vorbis	vorbis-config
x-aac	x-adbcm	x-aiff
x-dec-adbcm	x-dec-basic	x-flac
x-matroska	x-mod	x-mpegurl
x-ms-wax	x-ms-wma	x-oggflac
x-oggpcm	x-pn-realaudio	x-pn-realaudio-plugin
x-wav		

Table 3. Chemical File Types

x-cdx	x-cif	x-cmdf
x-cml	x-csml	x-pdb
x-xyz		

Table 4. Image File Types

bmp	cgm	example
fits	g3fax	gif
icns	ief	jp2
jpeg	jpm	jpx
naplps	nitf	png
prs.btif	prs.pti	svg+xml
t38	tiff	tiff-fx
vnd.adobe.photoshop	vnd.adobe.premiere	vnd.cns.inf2
vnd.djvu	vnd.dwg	vnd.dxb
vnd.dxf	vnd.dxf	vnd.dxf
vnd.fastbidsheet	vnd.fpx	vnd.fst
vnd.fujixerox.edmics-mmr	vnd.fujixerox.edmics-rlc	vnd.globalgraphics.pgb
vnd.microsoft.icon	vnd.mix	vnd.ms-modi

vnd.net-fpx	vnd.radiance	vnd.sealed.png
vnd.sealedmedia.softseal.gif	vnd.sealedmedia.softseal.jpg	vnd.svf
vnd.wap.wbmp	vnd.xiff	webp
x-bpg	x-cmu-raster	x-cmx
x-freehand	x-jp2-codestream	x-jp2-container
x-ms-bmp	x-niff	x-pcx
x-pict	x-portable-anymap	x-portable-bitmap
x-portable-graymap	x-portable-pixmap	x-raw-adobe
x-raw-canon	x-raw-casio	x-raw-epson
x-raw-fuji	x-raw-hasselblad	x-raw-imacon
x-raw-kodak	x-raw-leaf	x-raw-logitech
x-raw-mamiya	x-raw-minolta	x-raw-nikon
x-raw-olympus	x-raw-panasonic	x-raw-pentax
x-raw-phaseone	x-raw-rawzor	x-raw-red
x-raw-sigma	x-raw-sony	x-rgb
x-xbitmap	x-xcf	x-xpixmap
x-xwindowdump		

Table 5. Message File Types

cpim	delivery-status	disposition-notification
example	external-body	global
global-delivery-status	global-disposition-notification	global-headers
http	imdn+xml	news
partial	rfc822	s-http
sip	sipfrag	tracking-status
vnd.si.simp	x-emlx	

Table 6. Model File Types

example	iges	mesh
vnd.dwf	vnd.dwf	vnd.dwf
vnd.dwf	vnd.dwfx+xps	vnd.flatland.3dml
vnd.gdl	vnd.gs-gdl	vnd.gs.gdl
vnd.gtw	vnd.moml+xml	vnd.mts
vnd.parasolid.transmit.binary	vnd.parasolid.transmit.text	vnd.vtu
vrml		

Table 7. Multipart File Types

alternative	appledouble	byteranges

digest	encrypted	example
form-data	header-set	mixed
parallel	related	report
signed	voice-message	

Table 8. Text File Types

asp	aspdotnet	calendar
css	csv	directory
dns	ecmascript	enriched
example	html	iso19139+xml
parityfec	plain	prs.fallenstein.rst
prs.lines.tag	red	rfc822-headers
richtext	rtp-enc-aescm128	rtx
sgml	t140	tab-separated-values
troff	ulpfec	uri-list
vnd.abc	vnd.curl	vnd.curl.dcurl
vnd.curl.mcurl	vnd.curl.scurl	vnd.dmclientscript
vnd.esmertec.theme-descriptor	vnd.fly	vnd.fmi.flexstor
vnd.graphviz	vnd.in3d.3dml	vnd.in3d.spot
vnd.iptc.anpa	vnd.iptc.newsml	vnd.iptc.nitf
vnd.latex-z	vnd.motorola.reflex	vnd.ms-mediapackage
vnd.net2phone.commcenter.command	vnd.si.uricatalogue	vnd.sun.j2me.app-descriptor
vnd.trolltech.linguist	vnd.wap.si	vnd.wap.sl
vnd.wap.wml	vnd.wap.wmlscript	vtt
x-actionscript	x-ada	x-applescript
x-asciidoc	x-aspectj	x-assembly
x-awk	x-basic	x-c++hdr
x-c++src	x-cgi	x-chdr
x-clojure	x-cobol	x-coffeescript
x-coldfusion	x-common-lisp	x-csharp
x-csrc	x-d	x-diff
x-eiffel	x-emacs-lisp	x-erlang
x-expect	x-forth	x-fortran
x-go	x-groovy	x-haml
x-haskell	x-haxe	x-idl
x-ini	x-java-properties	x-java-source
x-jsp	x-less	x-lex

x-log	x-lua	x-matlab
x-ml	x-modula	x-objcsrc
x-ocaml	x-pascal	x-perl
x-php	x-prolog	x-python
x-rexx	x-rsrc	x-rst
x-ruby	x-scala	x-scheme
x-sed	x-setext	x-sql
x-stsrc	x-tcl	x-tika-text-based-message
x-uuencode	x-vbasic	x-vbdotnet
x-vbscript	x-vcalendar	x-vcard
x-verilog	x-vhdl	x-web-markdown
x-yacc	x-yaml	

Table 9. Video File Types

3gpp	3gpp-tt	3gpp2
bmpeg	bt656	celb
daala	dv	example
h261	h263	h263-1998
h263-2000	h264	jpeg
jpeg2000	mj2	mp1s
mp2p	mp2t	mp4
mp4v-es	mpeg	mpeg4-generic
mpv	nv	ogg
parityfec	pointer	quicktime
raw	rtp-enc-aescm128	rtx
smpte292m	theora	ulpfec
vc1	vnd.cctv	vnd.dlna.mpeg-tts
vnd.fvt	vnd.hns.video	vnd.iptvforum.1dparityfec-1010
vnd.iptvforum.1dparityfec-2005	vnd.iptvforum.2dparityfec-1010	vnd.iptvforum.2dparityfec-2005
vnd.iptvforum.ttsavc	vnd.iptvforum.ttsmpeg2	vnd.motorola.video
vnd.motorola.videop	vnd.mpegurl	vnd.ms-playready.media.pyv
vnd.nokia.interleaved-multimedia	vnd.nokia.videovoip	vnd.objectvideo
vnd.sealed.mpeg1	vnd.sealed.mpeg4	vnd.sealed.swf
vnd.sealedmedia.softseal.mov	vnd.vivo	webm
x-dirac	x-f4v	x-flc
x-fli	x-flv	x-jng
x-m4v	x-matroska	x-mng

`x-ms-asf`	`x-ms-wm`	`x-ms-wmv`
`x-ms-wmx`	`x-ms-wvx`	`x-msvideo`
`x-oggrgb`	`x-ogguvs`	`x-oggyuv`
`x-ogm`	`x-sgi-movie`	

Table 10. x-conference File Types

`x-cooltalk`		

1.3. Catalog Taxonomy Definitions

To facilitate data sharing while maximizing the usefulness of metadata, the attributes on resources are normalized into a common taxonomy that maps to attributes in the desired output format.

NOTE The taxonomy is presented here for reference only.

1.3.1. Core Attributes

Table 11. Core Attributes. **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
title	A name for the resource. Dublin Core elements-title.	String	< 1024 characters	
source-id	ID of the source where the Metacard is cataloged. While this cannot be moved or renamed for legacy reasons, it should be treated as non-mappable, since this field is overwritten by the system when federated results are retrieved.	String	< 1024 characters	
metadata-content-type **[deprecated]** *see Media Attributes*	Content type of the resource.	String	< 1024 characters	
metadata-content-type-version **[deprecated]** *see Media Attributes*	Version of the metadata content type of the resource.	String	< 1024 characters	

Term	Definition	Datatype	Constraints	Example Value
metadata-target-namespace **[deprecated]** *see Media Attributes*	Target namespace of the metadata.	String	< 1024 characters	
metadata	Additional XML metadata describing the resource.	XML	A valid XML string per RFC 4825 (must be well-formed but not necessarily schema-compliant).	
location	The primary geospatial location of the resource.	Geometry	Valid Well Known Text (WKT) per http://www.opengeospatial.org/standards/wkt-crs *Coordinates must be in **lon-lat** coordinate order*	POINT(150 30)
expiration	The expiration date of the resource.	Date		
effective **[deprecated]**	The `effective` time of the event or resource represented by the metacard. Deprecated in favor of created and modified.	Date		
point-of-contact **[deprecated]**	The name of the point of contact for the resource. This is set internally to the user's subject and should be considered read-only to other DDF components.	String	< 1024 characters	
resource-uri	Catalog-specific location of the resource for the metacard. This URI is used for internal catalog requests.	String	Valid URI per RFC 2396	

Term	Definition	Datatype	Constraints	Example Value
resource-download-url	URL location of the resource for the metacard. This attributes provides a client-resolvable URL to the download location of the resource. Clients should use this URL for download requests.	String	Valid URL per RFC 2396	
resource-size	Size in bytes of resource.	String	Although this type cannot be changed for legacy reasons, its value should always be a parsable whole number.	
thumbnail	The thumbnail for the resource in JPEG format.	Base 64 encoded binary string per RFC 4648	⇐ 128 KB	
description	An account of the resource. Dublin Core elements-description.	String		
checksum	Checksum value for the primary resource for the metacard.	String	< 1024 characters	
checksum-algorithm	Algorithm used to calculate the checksum on the primary resource of the metacard.	String	< 1024 characters	
created	The creation date of the resource Dublin Core terms-created.	Date		
modified	The modification date of the resource Dublin Core terms-modified.	Date		
language	The languages of the resource. Dublin Core language.	List of Strings	Alpha-3 language codes per ISO_639-2	

Term	Definition	Datatype	Constraints	Example Value
resource.derived-uri	Catalog-specific Locations for accessing the resources derived from another source (for example, an overlay of a larger image). This URI is used for internal catalog requests.	List of Strings	Valid URI per RFC 2396	
resource.derived-download-url	Download URLs for accessing the resources derived from another source (for example, an overlay of a larger image). Clients should use this URL for download requests.	List of Strings	Valid URLs per RFC 2396	
datatype	The generic types of the resource including the Dublin Core terms-type. DCMI Type term labels are expected here as opposed to term names.	List of Strings	`Collection`, `Dataset`, `Event`, `Image`, `Interactive Resource`, `Moving Image`, `Physical Object`, `Service`, `Software`, `Sound`, `Still Image`, and/or `Text`	

1.3.2. Associations Attributes

Table 12. Associations (Attributes in this group represent associations between resources.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
metacard.associations.derived	ID of one or more metacards derived from this metacard.	List of Strings	A valid metacard ID (conventionally, a type 4 random UUID with hyphens removed).	70809f17782c42b8ba15747b86b50ebf

Term	Definition	Datatype	Constraints	Example Value
metacard.associations.related	ID of one or more metacards related to this metacard.	List of Strings	A valid metacard ID (conventionally, a type 4 random UUID with hyphens removed).	70809f17782c42b8ba15747b86b50ebf
associations.external	One or more URI's identifying external associated resources.	List of Strings	A valid URI.	https://infocorp.org/wikia/reference

1.3.3. Contact Attributes

Table 13. Contact (Attributes in this group reflect metadata about different kinds of people/groups/units/organizations that can be associated with a metacard.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
contact.creator-name	The names of this metacard's creators.	List of Strings	< 1024 characters per entry	
contact.creator-address	The physical addresses of this metacard's creators.	List of Strings	< 1024 characters per entry	
contact.creator-email	The email addresses of this metacard's creators.	List of Strings	A valid email address per RFC 5322.	
contact.creator-phone	The phone numbers of this metacard's creators.	List of Strings	< 1024 characters per entry	
contact.publisher-name	The names of this metacard's publishers.	List of Strings	< 1024 characters per entry	
contact.publisher-address	The physical addresses of this metacard's publishers.	List of Strings	< 1024 characters per entry	
contact.publisher-email	The email addresses of this metacard's publishers.	List of Strings	A valid email address per RFC 5322.	
contact.publisher-phone	The phone numbers of this metacard's publishers.	List of Strings	< 1024 characters per entry	

Term	Definition	Datatype	Constraints	Example Value
contact.contributor-name	The name of the contributors to this metacard.	List of Strings	< 1024 characters per entry	
contact.contributor-address	The physical addresses of the contributors to this metacard.	List of Strings	< 1024 characters per entry	
contact.contributor-email	The email addresses of the contributors to this metacard.	List of Strings	A valid email address per RFC 5322.	
contact.contributor-phone	The phone numbers of the contributors to this metacard.	List of Strings	< 1024 characters per entry	
contact.point-of-contact-name	The names of the points of contact for this metacard.	List of Strings	< 1024 characters per entry	
contact.point-of-contact-address	The physical addresses of the points of contact for this metacard.	List of Strings	< 1024 characters per entry	
contact.point-of-contact-email	The email addresses of the points of contact for this metacard.	List of Strings	A valid email address per RFC 5322.	
contact.point-of-contact-phone	The phone numbers of the points of contact for this metacard.	List of Strings	< 1024 characters per entry	

1.3.4. DateTime Attributes

Table 14. DateTime (Attributes in this group reflect temporal aspects about the resource.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
datetime.start	Start times for the resource.	List of Dates		
datetime.end	End times for the resource.	List of Dates		
datetime.name	A descriptive name for the corresponding temporal attributes. See datetime.start and datetime.end.	List of Strings	< 1024 characters per entry	

1.3.5. History Attributes

Table 15. History (Attributes in this group describe the history/versioning of the metacard.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
metacard.version.id	Internal attribute identifier for which metacard this version is representing	String	A valid metacard ID (conventionally, a type 4 random UUID with hyphens removed).	70809f17782c42b8ba15747b86b50ebf
metacard.version.edited-by	Internal attribute identifying the editor of a history metacard.	String	A valid email address per RFC 5322	
metacard.version.versioned-on	Internal attribute for the versioned date of a metacard version.	Date		
metacard.version.action	Internal attribute for the action associated with a history metacard.	String	One of `Deleted`, `Deleted-Content`, `Versioned`, `Versioned-Content`	
metacard.version.tags	Internal attribute for the tags that were on the original metacard.	String		
metacard.version.type	Internal attribute for the metacard type of the original metacard.	String		
metacard.version.type-binary	Internal attribute for the serialized metacard type of the original metacard.	Binary		
metacard.version.resource-uri	Internal attribute for the original resource uri.	URI		

1.3.6. Location Attributes

Table 16. Location (Attributes in this group reflect location aspects about the resource.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
location.altitude-meters	Altitude of the resource in meters.	List of Doubles	> 0	
location.country-code	One or more country codes associated with the resource.	List of Strings	ISO_3166-1 alpha-3 codes	
location.crs-code	Coordinate reference system code of the resource.	List of Strings	< 1024 characters per entry	EPSG:4326
location.crs-name	Coordinate reference system name of the resource.	List of Strings	< 1024 characters per entry	WGS 84

1.3.7. Media Attributes

Table 17. Media (Attributes in this group reflect metadata about media in general.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
media.format	The file format, physical medium, or dimensions of the resource. Dublin Core elements-format	String	< 1024 characters	txt, docx, xml - typically the extension or a more complete name for such, note that this is not the mime type
media.format-version	The file format version of the resource. Note that the syntax can vary widely from format to format.	String	< 1024 characters	POSIX, 2016, 1.0
media.bit-rate	The bit rate of the media, in bits per second.	Double		
media.frame-rate	The frame rate of the video, in frames per second.	Double		
media.frame-center	The center of the video frame.	Geometry	Valid Well Known Text (WKT)	
media.height-pixels	The height of the media resource in pixels.	Integer		
media.width-pixels	The width of the media resource in pixels.	Integer		

Term	Definition	Datatype	Constraints	Example Value
media.compression	The type of compression this media uses. EXIF STANAG 4559 NC, NM, C1, M1, I1, C3, M3, C4, M4, C5, M5, C8, M8	String	One of the values defined for EXIF Compression tag.	
media.bits-per-sample	The number of bits per image component.	Integer		
media.type (RFC 2046)	A two-part identifier for file formats and format content.	String	A valid mime-type per https://www.ietf.org/rfc/rfc2046.txt	application/json
media.encoding	The encoding format of the media.	List of Strings	< 1024 characters per entry	MPEG-2, RGB
media.number-of-bands	The number of spectral bands in the media.	Integer	The significance of this number is instrumentation-specific, but there are eight commonly recognized bands. https://en.wikipedia.org/wiki/Multispectral_image	
media.scanning-mode (MPEG2)	Indicate if progressive or interlaced scans are being applied.	String	PROGRESSIVE, INTERLACED	

1.3.8. Metacard Attributes

Table 18. Metacard (Attributes in this group describe the metacard itself.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
metacard.created	The creation date of the metacard.	Date		
metacard.modified	The modified date of the metacard.	Date		

Term	Definition	Datatype	Constraints	Example Value
metacard.owner	The email address of the metacard owner.	String	A valid email address per RFC 5322	
metacard-tags	Collections of data that go together, used for filtering. query results. NOTE: these are system tags. For descriptive tags, Topic Attributes.	List of Strings	< 1024 characters per entry	

1.3.9. Security Attributes

Table 19. Security (Attributes in this group relate to security of the resource and metadata.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
security.access-groups	Attribute name for storing groups to enforce access controls upon that enable a user to read and write a metacard.	List of Strings	< 1024 characters per entry	
security.access-individuals	Attribute name for storing the email addresses of users to enforce access controls upon that enable the ability to read and write a metacard.	List of Strings	A valid email address per RFC 5322.	
security.access-individuals-read	Attribute name for storing the email addresses of users to enforce access controls upon that can read, but not explicitly write to a metacard.	List of Strings	A valid email address per RFC 5322.	
security.access-groups-read	Attribute name for storing groups to enforce access controls upon that enable a user to read, but not necessarily write to a metacard.	List of Strings	< 1024 characters per entry	

Term	Definition	Datatype	Constraints	Example Value
security.access-administrators	Attribute name for explicitly stating who has the permissions to modify the access control values of a metacard. These values include changing the security.access-groups, security.access-individuals and the security.access-administrators values.	List of Strings	A valid email address per RFC 5322.	

1.3.10. Additional Security Attributes

Table 20. Additional Security Attributes (Attributes in this group relate to security of the resource and metadata.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
security.classification	The overall classification of the metadata and resource.	String		
security.releasability	Identifies the country, countries, or organizations to which classified information may be released.	String	ISO_3166-1 alpha-3 codes or country/organization tetragraphs per CAPCO Register Annex A.	
security.classification-system	This attribute indicates the national or multinational security system used to classify the resource and its metadata.	String	ISO_3166-1 alpha-3 codes	USA **(NOTE: this field implies corresponding constraints on all other security marking fields)**
security.owner-producer	Attribute identifying the national government or international organization owners and/or producers of the information.	String	ISO_3166-1 alpha-3 codes	

Term	Definition	Datatype	Constraints	Example Value
security.dissemination-controls	This attribute is used to identify the expansion or limitation on the distribution of the information.	String		
security.codewords	This attribute provide further restrictions to the information based on controlled markings.	String		
security.other-dissemination-controls	This attribute is used to identify the expansion or limitation on the distribution of the information outside of its organization or community.	String		

1.3.11. Topic Attributes

Table 21. Topic (Attributes in this group describe the topic of the resource.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
topic.category	A category code from a given vocabulary.	List of Strings	A valid entry from the corresponding controlled vocabulary.	
topic.keyword	One or more keywords describing the subject matter of the metacard or resource.	List of Strings	< 1024 characters per entry	
topic.vocabulary	An identifier of a controlled vocabulary from which the topic category is derived.	List of Strings	Valid URI per RFC 2396.	

1.3.12. Validation Attributes

Table 22. Validation (Attributes in this group identify validation issues with the metacard and/or resource.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
validation-warnings	Textual description of validation warnings on the resource.	List of Strings	< 1024 characters per entry	

Term	Definition	Datatype	Constraints	Example Value
validation-errors	Textual description of validation errors on the resource.	List of Strings	< 1024 characters per entry	

1.3.13. ISR Attributes

Table 23. ISR (Attributes in this group relate to Intelligence, Surveillance, and Reconnaissance (ISR).)
Injected by default.

Term	Definition	Datatype	Constraints	Example Value
`isr.frequency-hertz`	A frequency observation, typically of radio waves.	Float	normalized to Hz	
`isr.target-id`	A target identifier.	String	< 1024 characters	
`isr.target-category-code`	Code representing the category of the main subject of the resource.	String	Allowed values TBD.	
`isr.platform-id`	A platform identifier.	String	< 1024 characters	
`isr.original-source`	This field contains a description of the source of the data. Refer to STANAG 4545 ISORCE.	String	ISORCE per STANAG 4545	*If the Source of the data is classified, then the description shall be preceded by the classification, including Codewords contained in Table C-1-4 and C-1-4(A). If the value of this field is all ECS Spaces (code 0x20), it shall imply that no Image Source data applies.*
`isr.organizational-unit`	The originating organization of the data.	String	< 1024 characters	

Term	Definition	Datatype	Constraints	Example Value
`isr.niirs`	The quality or detail level of an image. (National Imagery Interpretability Rating Scale)	Float	#.# where # is a value 0-9	
`isr.nato-reporting-code`	A reporting code as defined in STANAG 3596.	String	One or more of the values in STANAG 3596. Refer to http://ncap.org.uk/feature/nato-target-reporting-categories.	01, 02, ... 19
`isr.mission-id`	A mission identifier.	String	< 1024 characters	
`isr.sensor-type`	Identifies which type of sensor produced the data.	String	STANAG 4545 ACFTB TRE	
`isr.sensor-id`	Identifies which specific sensor produced the image.	String	STANAG 4545 ACFTB TRE	
`isr.cloud-cover`	Identifies the percentage of the image that is obscured by clouds.	Double	0.0-100.0	
`isr.category`	A STANAG 4559 image or video category.	String		
`isr.image-id`	An alphanumeric identifier for the image.	String		
`isr.comments`	A free text field for comments on the ISR data.	String		
`isr.jc3iedm-id`	A command and control interoperability identifier.	String		
`isr.platform-name`	The name of the platform associated with the resource.	String		
`isr.exploitation-level`	The degree of exploitation performed on the original data. A value of '0' means that the product is not exploited.	Integer	0..9	
`isr.exploitation-auto-generated`	A flag indicating if the exploitation was automatically generated	Boolean		

Term	Definition	Datatype	Constraints	Example Value
`isr.exploitation-subjective-quality-code`	A subjective ISR quality code.	String	EXCELLENT, FAIR, GOOD, POOR	
`isr.vmti-processed`	Whether or not the video has been processed for moving target indicators.	Boolean		
`isr.report-serial-number`	Based on the originators request serial number STANAG 3277	String	< 1024 characters	
`isr.report-type`	The type of the report.	String	IQREP, ISRSPOTREP, MIEXREP, MTIEXREP, RECCEXREP, WLEXREP, PENTAGRAM, INTREP, INTSUM, HUMINTREP	
`isr.report-info-rating`	The info rating of the report.	String	< 1024 characters	
`isr.report-priority`	The priority of the report.	String	ROUTINE, PRIORITY, IMMEDIATE, FLASH	
`isr.report-situation-type`	The intel situation type.	String	GENERAL, MILITARY, LAND, MARITIME, AIR, SPACE, CI/SECURITY, OTHER	
`isr.report-entity-type`	The type of the entity in the report.	String	PLACE, EVENT, BIOGRAPHICS, ORGANISATION, EQUIPMENT	
`isr.report-entity-name`	The name of the entity in the report.	String	< 1024 characters	
`isr.report-entity-alias`	The alias of the entity in the report.	String	< 1024 characters	

Term	Definition	Datatype	Constraints	Example Value
`isr.rfi-for-action`	A nation, command, agency, organization or unit requested to provide a response. (STANAG 4559, STANAG 2149 edition 6)	String	⇐ 50 characters	
`isr.rfi-for-information`	A multi-valued attribute identifying nations, commands, agencies, organizations and units which may have an interest in the response. (STANAG 4559, STANAG 2149 (edition 6))	String	⇐ 200 characters	
`isr.rfi-serial-number`	An attribute for a unique human readable string identifying the RFI instance.	String	⇐ 30 characters	
`isr.rfi-status`	An attribute identifying the status of the RFI.	String	APPROVED, INACTION, STOPPED, FULFILLED	
`isr.rfi-workflow-status`	An attribute identifying the workflow status of the RFI.	String	NEW, ACCEPTED, DENIED, CANCELLED, COMPLETED	
`isr.task-comments`	An attribute identifying comments related to the task.	String	⇐ 255 characters	
`isr.task-status`	An attribute identifying the status of the task.	String	PLANNED, ACKNOWLEDGED, ONGOING, ACCOMPLISHED, INTERRUPTED, INFEASIBLE, CANCELLED	
`isr.task-id`	An attribute for the task identifier.	String		
`isr.cbrn-operation-name`	The Chemical, Biological, Radiological & Nuclear (CBRN) Exercise Identification or Operation Code Word.	String	⇐ 56 characters	

Term	Definition	Datatype	Constraints	Example Value
`isr.cbrn-incident-number`	The Chemical, Biological, Radiological & Nuclear (CBRN) Incident Number typically based on the concatenation of ALFA1, ALFA2, ALFA3, and ALFA4. The concatenation format is : ALPHA1 + space + ALPHA2 + space + ALPHA3 + space + ALPHA4.	String	⇐ 26 characters	'CA 938JTF 231 C' where : ALPHA1='CA' ALPHA2='938JTF' ALPHA3='231' ALPHA4='C'
`isr.cbrn-type`	Type of Chemical, Biological, Radiological & Nuclear (CBRN) event enumeration description.	String	CHEMICAL, BIOLOGICAL, RADIOLOGICAL, NUCLEAR, NOT KNOWN	
`isr.cbrn-category`	The Chemical, Biological, Radiological & Nuclear (CBRN) report type or plot type.	String	⇐ 100 characters	
`isr.cbrn-substance`	Description of Chemical, Biological, Radiological & Nuclear (CBRN) substance.	String	⇐ 7 characters	
`isr.cbrn-alarm-classification`	Classification of a Chemical, Biological, Radiological & Nuclear (CBRN) sensor alarm	String	ABOVE THRESHOLD, BELOW THRESHOLD	
`isr.tdl-activity`	A number that together with the platform number defines the identity of a track.	Short	0 .. 127	
`isr.tdl-message-number`	The Link 16 J Series message number.	String	J2.2, J2.3, J2.5, J3.0, J3.2, J3.3, J3.5, J3.7, J7.0, J7.1, J7.2, J7.3, J14.0, J14.2	
`isr.tdl-track-number`	Link 16 J Series track number for the track found in the product. The track number shall be in the decoded 5-character format (for example, `EK627`).	String	⇐ 10 characters	

Term	Definition	Datatype	Constraints	Example Value
`isr.video-mism-level`	The "Motion Imagery Systems (Spatial and Temporal) Matrix" (MISM) defines an ENGINEERING GUIDELINE for the simple identification of broad categories of Motion Imagery Systems. The intent of the MISM is to give user communities an easy to use, common shorthand reference language to describe the fundamental technical capabilities of NATO motion imagery systems.	Integer	0 - 12	
`isr.dwell-location`	The geospatial location of the dwell area.	Geometry		
`isr.target-report-count`	The count of the target reports in the dwell.	Integer		
`isr.mti-job-id`	A platform assigned number identifying the specific request or task to which thee dwell pertains.	Long		
`isr.tdl-platform-number`	A number that together with the 'activity' number defines the identity of a track	Short	0 .. 63	
`isr.snow-cover`	The existence of snow. TRUE if snow is present, FALSE otherwise.	Boolean		
`isr.snow-depth-min-centimeters`	The minimum depth of snow measured in centimeters.	Integer		
`isr.snow-depth-max-centimeters`	The maximum depth of snow measured in centimeters.	Integer		

1.3.14. ISR Extended Attributes

Table 24. ISR Extended Attributes (Attributes in this group relate to intelligence, search, and reconnaissance.) **Injected by default.**

Term	Definition	Datatype	Constraints	Example Value
ext.metadata-originator-classification	Attribute name for accessing the metadata originator classification.	String		
ext.metadata-classification	Attribute name for accessing the metadata classification.	String		
ext.metadata-classification-system	Attribute name for accessing the security classification system for the metadata.	String		
ext.metadata-dissemination-controls	Attribute name for accessing the metadata dissemination controls.	String		
ext.metadata-releasability	Attribute name for accessing the metadata releasability.	String		
ext.resource-releasability	Attribute name for accessing the resource releasability.	String		
ext.resource-originator-classification	Attribute name for accessing the resource originator classification.	String		
ext.resource-dissemination-controls	Attribute name for accessing the resource dissemination controls.	String		
ext.resource-classification-system	Attribute name for accessing the security classification system for the resource.	String		
ext.resource-classification	Attribute name for accessing the resource classification.	String		

1.4. Catalog Taxonomy Attribute Mappings

These tables show the mappings between the Catalog Taxonomy and popular metadata standards.

1.4.1. NITF Attribute Mappings

Alliance uses default values for general attributes unless overridden.

Table 25. General NITF Attribute Mappings

Term	Value
media.type	image/nitf
metadata-content-type	image/nitf
datatype	Image

Term	Value
isr.comments	`ImageSegment.ICOM1 + ImageSegment.ICOM2 + ImageSegment.ICOM3`
effective	Earliest `ImageSegment.IDATIM` time found in the segments
datetime.start	Earliest `ImageSegment.IDATIM` time found in the segments
datetime.end	Latest `NitfHeader.FDT` time found in the segments
location	A multi polygon consisting of all of the `ImageSegment.ICORDS`

1.4.1.1. NITF Header Attribute Mappings

Table 26. NITF Header Attribute Mappings

NITF Field	Translation	Catalog Taxonomy Term	DataType	Multivalued

`NitfHeader.FHDR`	`NITF02.00 → NITF`
	`NITF02.10 → NITF`
	`NSIF01.00 → NSIF`
		media.format	String	false

`NitfHeader.FHDR`	`NITF02.00 → NITF`
	`NITF02.10 → NITF`
	`NSIF01.00 → NSIF`
		ext.nitf.file-profile-name	String	false

`NitfHeader.FVER`	`NITF02.00 → 2.0`
	`NITF02.10 → 2.1`
	`NSIF01.00 → 1.0`
		media.format-version	String	false

`NitfHeader.FVER`	`NITF02.00 → 2.0`
	`NITF02.10 → 2.1`
	`NSIF01.00 → 1.0`
		ext.nitf.file-version	String	false

`NitfHeader.OSTAID`	`none`	isr.organizational-unit	String	true
`NitfHeader.OSTAID`	`none`	ext.nitf.originating-station-id	String	true
`NitfHeader.FTITLE`	`none`	title	String	false
`NitfHeader.FTITLE`	`none`	ext.nitf.file-title	String	false
`NitfHeader.FDT`	`time → zoned time else current time`	created	Date	false
`NitfHeader.FDT`	`time → zoned time else current time`	ext.nitf.file-date-and-time	Date	false
`NitfHeader.FDT`	`time → zoned time else current time`	modified	Date	false
`NitfHeader.FDT`	`time → zoned time else current time`	effective	Date	false

NITF Field	Translation	Catalog Taxonomy Term	DataType	Multivalued
`NitfHeader.FSCLAS`	`FSCLAS → ISM classification`	security.classification	String	false
`NitfHeader.FSCLAS`	`none`	ext.nitf.file-security-classification	String	false
`NitfHeader.FSCLSY`	`Convert country code to ISO 3166 Alpha3.`	security.classification-system	String	false
`NitfHeader.FSCLSY`	`If FSCLSY is absent and the file is unclassified, set to "USA"`	security.owner-producer	String	false
`NitfHeader.FSCLSY`	`none`	ext.nitf.file-classification-security-system	String	false
`NitfHeader.FSCODE`	`none`	security.codewords	String	true
`NitfHeader.FSCODE`	`none`	ext.nitf.file-codewords	String	true
`NitfHeader.FSCTLH`	`none`	security.dissemination-controls	String	true
`NitfHeader.FSCTLH`	`none`	ext.nitf.file-control-and-handling	String	true
`NitfHeader.FSREL`	`Convert the list of country codes to the GENC code space. If "USA" is among the country codes, remove all values from security.releasability. Otherwise, set security.releasability to be list the of GENC country codes from FSREL.`	security.releasability	String	true

NITF Field	Translation	Catalog Taxonomy Term	DataType	Multivalued
`NitfHeader.FSREL`	`Convert the list of country codes to the GENC code space. If FSCLTX contains "CH_DISPLAYONLY", set ext.security.display-only-to to the list of GENC country codes.`	ext.security.display-only-to	String	true
`NitfHeader.FSREL`	`none`	ext.nitf.file-releasing-instructions	String	true
`NitfHeader.ONAME`	`none`	contact.creator-name	String	true
`NitfHeader.ONAME`	`none`	ext.nitf.originators-name	String	true
`NitfHeader.OPHONE`	`none`	contact.creator-phone	String	true
`NitfHeader.OPHONE`	`none`	ext.nitf.originators-phone-number	String	true
`NitfHeader.CLEVEL`	`none`	ext.nitf.complexity-level	Integer	true
`NitfHeader.STYPE`	`none`	ext.nitf.standard-type	String	true
`NitfHeader.FSDCXM`	`none`	ext.nitf.file-declassification-exemption	String	true
`NitfHeader.FSDCTP`	`none`	ext.nitf.file-declassification-type	String	true
`NitfHeader.FSDCDT`	`none`	ext.nitf.file-declassification-date	String	true
`NitfHeader.FSDG`	`none`	ext.nitf.file-downgrade	String	true
`NitfHeader.FSDGDT`	`none`	ext.nitf.file-downgrade-date	String	true
`NitfHeader.FSCLTX`	`none`	ext.nitf.file-classification-text	String	true

NITF Field	Translation	Catalog Taxonomy Term	DataType	Multivalued
`NitfHeader.FSCATP`	`none`	ext.nitf.file-classification-authority-type	String	true
`NitfHeader.FSCAUT`	`none`	ext.nitf.file-classification-authority	String	true
`NitfHeader.FSCRSN`	`none`	ext.nitf.file-classification-reason	String	true
`NitfHeader.FSSRDT`	`none`	ext.nitf.file-security-source-date	String	true
`NitfHeader.FSCTLN`	`none`	ext.nitf.file-security-control-number	String	true
`NitfHeader.FSCOP`	`none`	ext.nitf.file-copy-number	String	true
`NitfHeader.FSCPYS`	`none`	ext.nitf.file-number-of-copies	String	true
`NitfHeader.FBKGC`	`none`	ext.nitf.file-background-color	String	true

1.4.1.2. NITF Segment Attribute Mappings

Table 27. NITF Graphic Segment Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`GraphicSegment.SY`	Constant "SY"	`ext.nitf.graphic.file-part-type`	String	true
`GraphicSegment.SID`	none	`ext.nitf.graphic.graphic-identifier`	String	true
`GraphicSegment.SNAME`	none	`ext.nitf.graphic.graphic-name`	String	true
`GraphicSegment.SSCLAS`	none	`ext.nitf.graphic.graphic-security-classification`	String	true
`GraphicSegment.SSCLSY`	none	`ext.nitf.graphic.graphic-classification-security-system`	String	true
`GraphicSegment.SSCODE`	none	`ext.nitf.graphic.graphic-codewords`	String	true

NITF Field	Translation	Term	DataType	Multivalued
GraphicSegment.SSCTLH	none	ext.nitf.graphic.graphic-control-and-handling	String	true
GraphicSegment.SSREL	none	ext.nitf.graphic.graphic-releasing-instructions	String	true
GraphicSegment.SSDCTP	none	ext.nitf.graphic.graphic-declassification-type	String	true
GraphicSegment.SSDCDT	none	ext.nitf.graphic.graphic-declassification-date	String	true
GraphicSegment.SSDCXM	none	ext.nitf.graphic.graphic-declassification-exemption	String	true
GraphicSegment.SSDG	none	ext.nitf.graphic.graphic-downgrade	String	true
GraphicSegment.SSDGDT	none	ext.nitf.graphic.graphic-downgrade-date	String	true
GraphicSegment.SSCLTX	none	ext.nitf.graphic.graphic-classification-text	String	true
GraphicSegment.SSCATP	none	ext.nitf.graphic.graphic-classification-authority-type	String	true
GraphicSegment.SSCAUT	none	ext.nitf.graphic.graphic-classification-authority	String	true
GraphicSegment.SSCRSN	none	ext.nitf.graphic.graphic-classification-reason	String	true
GraphicSegment.SSSRDT	none	ext.nitf.graphic.graphic-security-source-date	String	true
GraphicSegment.SSCTLN	none	ext.nitf.graphic.graphic-security-control-number	String	true
GraphicSegment.SDLVL	none	ext.nitf.graphic.graphic-display-level	Integer	true

NITF Field	Translation	Term	DataType	Multivalued
`GraphicSegment.SALVL`	none	`ext.nitf.graphic.graphic-attachment-level`	Integer	true
`GraphicSegment.SLOC`	none	`ext.nitf.graphic.graphic-location`	String	true
`GraphicSegment.SCOLOR`	none	`ext.nitf.graphic.graphic-color`	String	true
`GraphicSegment.SXSHDL`	none	`ext.nitf.graphic.graphic-extended-subheader-data-length`	Integer	true

Table 28. NITF Image Segment Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.IID2`	none	isr.mission-id	String	true
`ImageSegment.IID2`	none	isr.image-id	String	false
`ImageSegment.IID2`	none	ext.nitf.image.image-identifier-2	String	false
`ImageSegment.ISORCE`	none	isr.original-source	String	false
`ImageSegment.ISORCE`	none	ext.nitf.image.image-source	String	false
`ImageSegment.NROWS`	none	media.height-pixels	Integer	false
`ImageSegment.NROWS`	none	ext.nitf.image.number-of-significant-rows-in-image	Integer	false
`ImageSegment.NCOLS`	none	media.width-pixels	Integer	false
`ImageSegment.NCOLS`	none	ext.nitf.image.number-of-significant-columns-in-image	Integer	false
`ImageSegment.IREP`	none	media.encoding	String	true
`ImageSegment.IREP`	none	ext.nitf.image.image-representation	String	true

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.ICAT`	none	isr.category	String	false
`ImageSegment.ICAT`	none	ext.nitf.image.image-category	String	false
`ImageSegment.IC`	none	media.compression	String	false
`ImageSegment.IC`	none	ext.nitf.image.image-compression	String	false
`ImageSegment.TGTID`	trimmed text value	isr.target-id	String	true
`ImageSegment.TGTID`	none	ext.nitf.image.target-identifier	String	true
`ImageSegment.TGTID`	The last 2 characters of `ImageSegment.TGTID` correspond to the country code. If these characters are not spaces then null. Else, 2char FIPS → 3char ISO3 If conversion fails, then null. NOTE: Other system plugins could populate the country code based on location.	location.country-code	String	true
`ImageSegment.IM`	Constant "IM"	ext.nitf.image.file-part-type	String	true
`ImageSegment.IDATIM`	time → zoned time else null	ext.nitf.image.image-date-and-time	Date	true
`ImageSegment.IID1`	none	ext.nitf.image.image-identifier-1	String	true

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.ISCLAS`	none	ext.nitf.image.image-security-classification	String	true
`ImageSegment.ISCLSY`	none	ext.nitf.image.image-classification-security-system	String	true
`ImageSegment.ISCODE`	none	ext.nitf.image.image-codewords	String	true
`ImageSegment.ISCTLH`	none	ext.nitf.image.image-control-and-handling	String	true
`ImageSegment.ISREL`	none	ext.nitf.image.image-releasing-instructions	String	true
`ImageSegment.ISDCTP`	none	ext.nitf.image.image-declassification-type	String	true
`ImageSegment.ISDCDT`	none	ext.nitf.image.image-declassification-date	String	true
`ImageSegment.ISDCXM`	none	ext.nitf.image.image-declassification-exemption	String	true
`ImageSegment.ISDG`	none	ext.nitf.image.image-downgrade	String	true
`ImageSegment.ISDGDT`	none	ext.nitf.image.image-downgrade-date	String	true
`ImageSegment.ISCLTX`	none	ext.nitf.image.image-classification-text	String	true

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.ISCATP`	none	ext.nitf.image.image-classification-authority-type	String	true
`ImageSegment.ISCAUT`	none	ext.nitf.image.image-classification-authority	String	true
`ImageSegment.ISCRSN`	none	ext.nitf.image.image-classification-reason	String	true
`ImageSegment.ISSRDT`	none	ext.nitf.image.image-security-source-date	String	true
`ImageSegment.ISCTLN`	none	ext.nitf.image.image-security-control-number	String	true
`ImageSegment.PVTYPE`	none	ext.nitf.image.pixel-value-type	String	true
`ImageSegment.ABPP`	none	ext.nitf.image.actual-bits-per-pixel-per-band	Integer	true
`ImageSegment.PJUST`	none	ext.nitf.image.pixel-justification	String	true
`ImageSegment.ICORDS`	none	ext.nitf.image.image-coordinate-representation	String	true
`ImageSegment.NICOM`	none	ext.nitf.image.number-of-image-comments	Integer	true
`ImageSegment.ICOM1`	none	ext.nitf.image.image-comment-1	String	true
`ImageSegment.ICOM2`	none	ext.nitf.image.image-comment-2	String	true

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.ICOM3`	none	ext.nitf.image.image-comment-3	String	true
`ImageSegment.ICOM4`	none	ext.nitf.image.image-comment-4	String	true
`ImageSegment.ICOM5`	none	ext.nitf.image.image-comment-5	String	true
`ImageSegment.ICOM6`	none	ext.nitf.image.image-comment-6	String	true
`ImageSegment.ICOM7`	none	ext.nitf.image.image-comment-7	String	true
`ImageSegment.ICOM8`	none	ext.nitf.image.image-comment-8	String	true
`ImageSegment.ICOM9`	none	ext.nitf.image.image-comment-9	String	true
`ImageSegment.NBANDS`	none	ext.nitf.image.number-of-bands	Integer	true
`ImageSegment.IMODE`	none	ext.nitf.image.image-mode	String	true
`ImageSegment.NBPR`	none	ext.nitf.image.number-of-blocks-per-row	Integer	true
`ImageSegment.NBPC`	none	ext.nitf.image.number-of-blocks-per-column	Integer	true
`ImageSegment.NPPBH`	none	ext.nitf.image.number-of-pixels-per-block-horizontal	Integer	true

NITF Field	Translation	Term	DataType	Multivalued
`ImageSegment.NPPBV`	none	ext.nitf.image.number-of-pixels-per-block-vertical	Integer	true
`ImageSegment.NBPP`	none	ext.nitf.image.number-of-bits-per-pixel	Integer	true
`ImageSegment.IDLVL`	none	ext.nitf.image.image-display-level	Integer	true
`ImageSegment.IALVL`	none	ext.nitf.image.image-attachment-level	Integer	true
`ImageSegment.ILOC`	none	ext.nitf.image.image-location	String	true
`ImageSegment.IMAG`	none	ext.nitf.image.image-magnification	Double	true

Table 29. NITF Label Segment Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`LabelSegment.LA`	`Constant "LA"`	`ext.nitf.label.file-part-type`	String	true
`LabelSegment.LID`	`none`	`ext.nitf.label.label-id`	String	true
`LabelSegment.LSCLAS`	`none`	`ext.nitf.label.label-security-classification`	String	true
`LabelSegment.LSCODE`	`none`	`ext.nitf.label.label-codewords`	String	true
`LabelSegment.LSCTLH`	`none`	`ext.nitf.label.label-control-and-handling`	String	true
`LabelSegment.LSREL`	`none`	`ext.nitf.label.label-releasing-instructions`	String	true
`LabelSegment.LSCAUT`	`none`	`ext.nitf.label.label-classification-authority`	String	true
`LabelSegment.LSCTLN`	`none`	`ext.nitf.label.label-security-control-number`	String	true

NITF Field	Translation	Term	DataType	Multivalued
LabelSegment.LSDWNG	none	ext.nitf.label.label-security-downgrade	String	true
LabelSegment.LSDEVT	none	ext.nitf.label.label-downgrading-event	String	true
LabelSegment.LCW	none	ext.nitf.label.label-cell-width	Integer	true
LabelSegment.LCH	none	ext.nitf.label.label-cell-height	Integer	true
LabelSegment.LDLVL	none	ext.nitf.label.label-display-level	Integer	true
LabelSegment.LALVL	none	ext.nitf.label.attachment-level	Integer	true
LabelSegment.LLOC	none	ext.nitf.label.label-location	String	true
LabelSegment.LTC	none	ext.nitf.label.label-text-color	String	true
LabelSegment.LBC	none	ext.nitf.label.label-background-color	String	true
LabelSegment.LXSHDL	none	ext.nitf.label.extended-subheader-data-length	Integer	true

Table 30. NITF Symbol Segment Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
SymbolSegment.SY	Constant "SY"	ext.nitf.symbol.file-part-type	String	true
SymbolSegment.SID	none	ext.nitf.symbol.symbol-id	String	true
SymbolSegment.SNAME	none	ext.nitf.symbol.symbol-name	String	true
SymbolSegment.SSCLAS	none	ext.nitf.symbol.symbol-security-classification	String	true
SymbolSegment.SSCODE	none	ext.nitf.symbol.symbol-codewords	String	true
SymbolSegment.SSCTLH	none	ext.nitf.symbol.symbol-control-and-handling	String	true
SymbolSegment.SSREL	none	ext.nitf.symbol.symbol-releasing-instructions	String	true

NITF Field	Translation	Term	DataType	Multivalued
SymbolSegment.SSCAUT	none	ext.nitf.symbol.symbol-classification-authority	String	true
SymbolSegment.SSCTLN	none	ext.nitf.symbol.symbol-security-control-number	String	true
SymbolSegment.SSDWNG	none	ext.nitf.symbol.symbol-security-downgrade	String	true
SymbolSegment.SSDEVT	none	ext.nitf.symbol.symbol-downgrading-event	String	true
SymbolSegment.STYPE	none	ext.nitf.symbol.symbol-type	String	true
SymbolSegment.NLIPS	none	ext.nitf.symbol.number-of-lines-per-symbol	Integer	true
SymbolSegment.NPIXPL	none	ext.nitf.symbol.number-of-pixels-per-line	Integer	true
SymbolSegment.NWDTH	none	ext.nitf.symbol.line-width	Integer	true
SymbolSegment.NBPP	none	ext.nitf.symbol.number-of-bits-per-pixel	Integer	true
SymbolSegment.SDLVL	none	ext.nitf.symbol.display-level	Integer	true
SymbolSegment.SALVL	none	ext.nitf.symbol.attachment-level	Integer	true
SymbolSegment.SLOC	none	ext.nitf.symbol.symbol-location	String	true
SymbolSegment.SLOC2	none	ext.nitf.symbol.second-symbol-location	String	true
SymbolSegment.SCOLOR	none	ext.nitf.symbol.symbol-color	String	true
SymbolSegment.SNUM	none	ext.nitf.symbol.symbol-number	String	true
SymbolSegment.SROT	none	ext.nitf.symbol.symbol-rotation	Integer	true
SymbolSegment.SXSHDL	none	ext.nitf.symbol.extended-subheader-data-length	Integer	true

Table 31. NITF Text Segment Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
TextSegment.TE	Constant "TE"	ext.nitf.text.file-part-type	String	true
TextSegment.TEXTID	none	ext.nitf.text.text-identifier	String	true
TextSegment.TXTALVL	none	ext.nitf.text.text-attachment-level	Integer	true
TextSegment.TXTDT	time → zoned time else null	ext.nitf.text.text-date-and-time	Date	true
TextSegment.TXTITL	none	ext.nitf.text.text-title	String	true
TextSegment.TSCLAS	none	ext.nitf.text.text-security-classification	String	true
TextSegment.TSCLSY	none	ext.nitf.text.text-classification-security-system	String	true
TextSegment.TSCODE	none	ext.nitf.text.text-codewords	String	true
TextSegment.TSCTLH	none	ext.nitf.text.text-control-and-handling	String	true
TextSegment.TSREL	none	ext.nitf.text.text-releasing-instructions	String	true
TextSegment.TSDCTP	none	ext.nitf.text.text-declassification-type	String	true
TextSegment.TSDCDT	none	ext.nitf.text.text-declassification-date	String	true
TextSegment.TSDCXM	none	ext.nitf.text.text-declassification-exemption	String	true
TextSegment.TSDG	none	ext.nitf.text.text-downgrade	String	true
TextSegment.TSDGDT	none	ext.nitf.text.text-downgrade-date	String	true
TextSegment.TSCLTX	none	ext.nitf.text.text-classification-text	String	true
TextSegment.TSCATP	none	ext.nitf.text.text-classification-authority-type	String	true
TextSegment.TSCAUT	none	ext.nitf.text.text-classification-authority	String	true

NITF Field	Translation	Term	DataType	Multivalued
TextSegment.TSCRSN	none	ext.nitf.text.text-classification-reason	String	true
TextSegment.TSSRDT	none	ext.nitf.text.text-security-source-date	String	true
TextSegment.TSCTLN	none	ext.nitf.text.text-security-control-number	String	true
TextSegment.TXTFMT	none	ext.nitf.text.text-format	String	true
TextSegment.TXSHDL	none	ext.nitf.text.text-extended-subheader-data-length	Integer	true

1.4.1.3. NITF TRE Attribute Mappings

Table 32. NITF Aircraft Information Extension (ACFTB) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.ACFTB.AC_MSN_ID	none	isr.mission-id	String	true
Tre.ACFTB.AC_MSN_ID	none	ext.nitf.acftb.aircraft-mission-id	String	true
Tre.ACFTB.AC_TAIL_NO	none	isr.platform-id	String	false
Tre.ACFTB.AC_TAIL_NO	none	ext.nitf.acftb.aircraft-tail-number	String	false
Tre.ACFTB.SENSOR_ID_TYPE	none	isr.sensor-type	String	false
Tre.ACFTB.SENSOR_ID_TYPE	none	ext.nitf.acftb.sensor-id-type	String	false
Tre.ACFTB.SENSOR_ID	none	isr.sensor-id	String	false
Tre.ACFTB.SENSOR_ID	none	ext.nitf.acftb.sensor-id	String	false
Tre.ACFTB.AC_TO	none	ext.nitf.acftb.aircraft-take-off	String	true
Tre.ACFTB.SCENE_SOURCE	none	ext.nitf.acftb.scene-source	String	true
Tre.ACFTB.SCNUM	none	ext.nitf.acftb.scene-number	String	true
Tre.ACFTB.PDATE	none	ext.nitf.acftb.processing-date	String	true

NITF Field	Translation	Term	DataType	Multivalued
`Tre.ACFTB.IMHOSTNO`	`none`	`ext.nitf.acftb.immediate-scene-host`	String	true
`Tre.ACFTB.IMREQID`	`none`	`ext.nitf.acftb.immediate-scene-request-id`	String	true
`Tre.ACFTB.MPLAN`	`none`	`ext.nitf.acftb.mission-plan-mode`	String	true

Table 33. NITF Airborne Image Identification (AIMIDB) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`Tre.AIMIDB.ACQUISITION_DATE`	`none`	`ext.nitf.aimidb.acquisition-date`	String	true
`Tre.AIMIDB.MISSION_NO`	`none`	`ext.nitf.aimidb.mission-number`	String	true
`Tre.AIMIDB.MISSION_IDENTIFICATION`	`none`	`ext.nitf.aimidb.mission-identification`	String	true
`Tre.AIMIDB.FLIGHT_NO`	`none`	`ext.nitf.aimidb.flight-number`	String	true
`Tre.AIMIDB.OP_NUM`	`none`	`ext.nitf.aimidb.image-operation-number`	Integer	true
`Tre.AIMIDB.CURRENT_SEGMENT`	`none`	`ext.nitf.aimidb.current-segment`	String	true
`Tre.AIMIDB.REPRO_NUM`	`none`	`ext.nitf.aimidb.reprocess-number`	Integer	true
`Tre.AIMIDB.REPLAY`	`none`	`ext.nitf.aimidb.replay`	String	true
`Tre.AIMIDB.START_TILE_COLUMN`	`none`	`ext.nitf.aimidb.start-tile-column`	Integer	true
`Tre.AIMIDB.START_TILE_ROW`	`none`	`ext.nitf.aimidb.start-tile-row`	Integer	true
`Tre.AIMIDB.END_SEGMENT`	`none`	`ext.nitf.aimidb.end-segment`	String	true
`Tre.AIMIDB.END_TILE_COLUMN`	`none`	`ext.nitf.aimidb.end-tile-column`	Integer	true
`Tre.AIMIDB.END_TILE_ROW`	`none`	`ext.nitf.aimidb.end-tile-row`	Integer	true
`Tre.AIMIDB.COUNTRY`	`none`	`ext.nitf.aimidb.country-code`	String	true
`Tre.AIMIDB.LOCATION`	`none`	`ext.nitf.aimidb.location`	String	true

Table 34. NITF Dataset Identification (CSDIDA) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.CSDIDA.PLATFORM_CODE_VEHICLE_ID	null if either platform code or vehicle id is empty	isr.platform-id	String	false
Tre.CSDIDA.PLATFORM_CODE_VEHICLE_ID	null if either platform code or vehicle id is empty	ext.nitf.csdida.platform-code-vehicle-id	String	false
Tre.CSDIDA.DAY	none	ext.nitf.csdida.day-dataset-collection	Integer	true
Tre.CSDIDA.MONTH	none	ext.nitf.csdida.month-dataset-collection	String	true
Tre.CSDIDA.YEAR	none	ext.nitf.csdida.year-dataset-collection	Integer	true
Tre.CSDIDA.PASS	none	ext.nitf.csdida.pass-num	Integer	true
Tre.CSDIDA.OPERATION	none	ext.nitf.csdida.operation-num	Integer	true
Tre.CSDIDA.SENSOR_ID	none	ext.nitf.csdida.sensor-id	String	true
Tre.CSDIDA.PRODUCT_ID	none	ext.nitf.csdida.product-id	String	true
Tre.CSDIDA.TIME	none	ext.nitf.csdida.image-start-time	Date	true
Tre.CSDIDA.PROCESS_TIME	none	ext.nitf.csdida.process-completion-time	Date	true
Tre.CSDIDA.SOFTWARE_VERSION_NUMBER	none	ext.nitf.csdida.software-version-num	String	true

Table 35. NITF Exploitation Reference Data (CSEXRA) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.CSEXRA.GRD_COVER	0 → false 1 → true else null	isr.snow-cover	Boolean	false
Tre.CSEXRA.GRD_COVER	0 → false 1 → true else null	ext.nitf.csexra.snow-cover	Boolean	false
Tre.CSEXRA.PREDICTED_NIIRS	parses double out of string else (or unable to parse) null	isr.niirs	Float	false

NITF Field	Translation	Term	DataType	Multivalued
Tre.CSEXRA.PREDICTED_NIIRS	parses double out of string else (or unable to parse) null	ext.nitf.csexra.predicted-niirs	Float	false
Tre.CSEXRA.SNOW_DEPTH_CAT	0 → 0 1 → 2.54 2 → 22.86 3 → 43.18 else null	isr.snow-depth-min-centimeters	Float	false
Tre.CSEXRA.SNOW_DEPTH_CAT	0 → 0 1 → 2.54 2 → 22.86 3 → 43.18 else null	ext.nitf.csexra.snow-depth-min	Float	false
Tre.CSEXRA.SNOW_DEPTH_CAT	0 → 2.54 1 → 22.86 2 → 43.18 3 → MAX FLOAT else null	isr.snow-depth-max-centimeters	Float	false
Tre.CSEXRA.SNOW_DEPTH_CAT	0 → 2.54 1 → 22.86 2 → 43.18 3 → MAX FLOAT else null	ext.nitf.csexra.snow-depth-max	Float	false
Tre.CSEXRA.SNOW_DEPTH_CAT	none	ext.nitf.csexra.snow-depth-category	Integer	true
Tre.CSEXRA.SENSOR	none	ext.nitf.csexra.sensor	String	true
Tre.CSEXRA.TIME_FIRST_LINE_IMAGE	none	ext.nitf.csexra.time-first-line-image	Float	true
Tre.CSEXRA.TIME_IMAGE_DURATION	none	ext.nitf.csexra.image-duration-time	Float	true
Tre.CSEXRA.MAX_GSD	none	ext.nitf.csexra.max-gsd	Float	true
Tre.CSEXRA.ALONG_SCAN_GSD	none	ext.nitf.csexra.along-scan-gsd	String	true
Tre.CSEXRA.CROSS_SCAN_GSD	none	ext.nitf.csexra.cross-scan-gsd	String	true
Tre.CSEXRA.GEO_MEAN_GSD	none	ext.nitf.csexra.geometric-mean-gsd	String	true
Tre.CSEXRA.A_S_VERT_GSD	none	ext.nitf.csexra.along-scan-vertical-gsd	String	true
Tre.CSEXRA.C_S_VERT_GSD	none	ext.nitf.csexra.cross-scan-vertical-gsd	String	true

NITF Field	Translation	Term	DataType	Multivalued
Tre.CSEXRA.GEO_MEAN_VERT_GSD	none	ext.nitf.csexra.geometric-mean-vertical-gsd	String	true
Tre.CSEXRA.GSD_BETA_ANGLE	none	ext.nitf.csexra.gsd-beta-angle	String	true
Tre.CSEXRA.DYNAMIC_RANGE	none	ext.nitf.csexra.pixel-dynamic-range	Integer	true
Tre.CSEXRA.NUM_LINES	none	ext.nitf.csexra.num-lines	Integer	true
Tre.CSEXRA.NUM_SAMPLES	none	ext.nitf.csexra.num-samples	Integer	true
Tre.CSEXRA.ANGLE_TO_NORTH	none	ext.nitf.csexra.angle-to-north	Float	true
Tre.CSEXRA.OBLIQUITY_ANGLE	none	ext.nitf.csexra.obliquity-angle	Float	true
Tre.CSEXRA.AZ_OF_OBLIQUITY	none	ext.nitf.csexra.azimuth-obliquity,ext.nitf.csexra.azimuth-obliquity	Float	true
Tre.CSEXRA.SUN_AZIMUTH	none	ext.nitf.csexra.sun-azimuth	Float	true
Tre.CSEXRA.SUN_ELEVATION	none	ext.nitf.csexra.sun-elevation	Float	true
Tre.CSEXRA.CIRCL_ERR	none	ext.nitf.csexra.circular-error	Integer	true
Tre.CSEXRA.LINEAR_ERR	none	ext.nitf.csexra.linear-error	Integer	true

Table 36. NITF Exploitation Related Information (EXPLTB) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.EXPLTB.ANGLE_TO_NORTH	none	ext.nitf.expltb.angle-to-north	Float	true
Tre.EXPLTB.ANGLE_TO_NORTH_ACCY	none	ext.nitf.expltb.angle-to-north-accuracy	Float	true
Tre.EXPLTB.SQUINT_ANGLE	none	ext.nitf.expltb.squint-angle	Float	true
Tre.EXPLTB.SQUINT_ANGLE_ACCY	none	ext.nitf.expltb.squint-angle-accuracy	Float	true
Tre.EXPLTB.MODE	none	ext.nitf.expltb.mode	String	true
Tre.EXPLTB.GRAZE_ANG	none	ext.nitf.expltb.graze-angle	Float	true

NITF Field	Translation	Term	DataType	Multivalued
`Tre.EXPLTB.GRAZE_ANG_ACCY`	`none`	`ext.nitf.expltb.graze-angle-accuracy`	Float	true
`Tre.EXPLTB.SLOPE_ANG`	`none`	`ext.nitf.expltb.slope-angle`	Float	true
`Tre.EXPLTB.POLAR`	`none`	`ext.nitf.expltb.polar`	String	true
`Tre.EXPLTB.NSAMP`	`none`	`ext.nitf.expltb.pixels-per-line`	Integer	true
`Tre.EXPLTB.SEQ_NUM`	`none`	`ext.nitf.expltb.sequence-number`	Integer	true
`Tre.EXPLTB.PRIME_ID`	`none`	`ext.nitf.expltb.prime-id`	String	true
`Tre.EXPLTB.PRIME_BE`	`none`	`ext.nitf.expltb.prime-basic-encyclopedia`	String	true
`Tre.EXPLTB.N_SEC`	`none`	`ext.nitf.expltb.number-of-secondary-targets`	Integer	true
`Tre.EXPLTB.IPR`	`none`	`ext.nitf.expltb.commanded-impulse-response`	Integer	true

Table 37. NITF Softcopy History (HISTOA) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`Tre.HISTOA.SYSTYPE`	`none`	`ext.nitf.histoa.system-type`	String	true
`Tre.HISTOA.PC`	`none`	`ext.nitf.histoa.prior-compression`	String	true
`Tre.HISTOA.PE`	`none`	`ext.nitf.histoa.prior-enhancements`	String	true
`Tre.HISTOA.REMAP_FLAG`	`none`	`ext.nitf.histoa.system-specific-remap`	String	true
`Tre.HISTOA.LUTID`	`none`	`ext.nitf.histoa.data-mapping-id`	Integer	true

Table 38. NITF Moving Target Indiciator Report (MTIRPB) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`Tre.MTIRPB.NO_VALID_TARGETS`	none	isr.target-report-count	Integer	false
`Tre.MTIRPB.NO_VALID_TARGETS`	none	ext.nitf.mtirpb.number-of-valid-targets	Integer	false

NITF Field	Translation	Term	DataType	Multivalued
`Tre.MTIRPB.ACFT_LOC`	none	ext.nitf.mtirpb.aircraft-location	String	true
`Tre.MTIRPB.ACFT_ALT`	none	ext.nitf.mtirpb.aircraft-altitude	String	true
`Tre.MTIRPB.ACFT_ALT_UNIT`	none	ext.nitf.mtirpb.aircraft-altitude-unit-of-measure	String	true
`Tre.MTIRPB.ACFT_HEADING`	none	ext.nitf.mtirpb.aircraft-heading	String	true
`Tre.MTIRPB.COSGRZ`	none	ext.nitf.mtirpb.cosine-of-graze-angle	String	true
`Tre.MTIRPB.MTI_DP`	none	ext.nitf.mtirpb.destination-point	String	true
`Tre.MTIRPB.MTI_LR`	none	ext.nitf.mtirpb.mti-left-or-right	String	true
`Tre.MTIRPB.PATCH_NO`	none	ext.nitf.mtirpb.patch-number	String	true
`Tre.MTIRPB.DATIME`	none	ext.nitf.mtirpb.scan-date-and-time	String	true
`Tre.MTIRPB.SQUINT_ANGLE`	none	ext.nitf.mtirpb.squint-angle	String	true
`Tre.MTIRPB.WAMTI_FRAME_NO`	none	ext.nitf.mtirpb.wide-area-mti-frame-number	String	true
`Tre.MTIRPB.WAMTI_BAR_NO`	none	ext.nitf.mtirpb.wide-area-mti-bar-number	String	true
`Tre.MTIRPB.TARGETS`	none	ext.nitf.mtirpb.targets	String	true
`TreGroup.MTIRPB.TGT_LOC`	none	location	Geometry	false
`TreGroup.MTIRPB.TGT_LOC`	none	ext.nitf.mtirpb.target-location	Geometry	false

NITF Field	Translation	Term	DataType	Multivalued
`TreGroup.MTIRPB.TGT_CAT`	undefined or null → "Unknown" else no translation	ext.nitf.mtirpb.target-classification-category	String	true
`TreGroup.MTIRPB.TGT_AMPLITUDE`	none	ext.nitf.mtirpb.target-amplitude	String	true
`TreGroup.MTIRPB.TGT_HEADING`	none	ext.nitf.mtirpb.target-heading	String	true
`TreGroup.MTIRPB.TGT_SPEED`	none	ext.nitf.mtirpb.target-ground-speed	String	true
`TreGroup.MTIRPB.TGT_VEL_R`	none	ext.nitf.mtirpb.target-radial-velocity	String	true
`TreGroup.MTIRPB.TGT_LOC_ACCY`	none	ext.nitf.mtirpb.target-location-accuracy	String	true

Table 39. NITF Profile For Imagery Access Image Support Extensions (PIAIMC) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`Tre.PIAIMC.CLOUDCVR`	`values 0-100 else null`	`isr.cloud-cover`	Double	false
`Tre.PIAIMC.CLOUDCVR`	`values 0-100 else null`	`ext.nitf.piaimc.cloud-cvr`	Integer	false
`Tre.PIAIMC.SRP`	`none`	`ext.nitf.piaimc.standard-radiometric-product`	Boolean	true
`Tre.PIAIMC.SENSMODE`	`none`	`ext.nitf.piaimc.sensor-mode`	String	true
`Tre.PIAIMC.SENSNAME`	`none`	`ext.nitf.piaimc.sensor-name`	String	true
`Tre.PIAIMC.SOURCE`	`none`	`ext.nitf.piaimc.source`	String	true
`Tre.PIAIMC.COMGEN`	`none`	`ext.nitf.piaimc.compression-generation`	Integer	true
`Tre.PIAIMC.SUBQUAL`	`none`	`ext.nitf.piaimc.subjective-quality`	String	true
`Tre.PIAIMC.PIAMSNNUM`	`none`	`ext.nitf.piaimc.pia-mission-num`	String	true

NITF Field	Translation	Term	DataType	Multivalued
Tre.PIAIMC.CAMSPECS	none	ext.nitf.piaimc.camera-specs	String	true
Tre.PIAIMC.PROJID	none	ext.nitf.piaimc.project-id-code	String	true
Tre.PIAIMC.GENERATION	none	ext.nitf.piaimc.generation	Integer	true
Tre.PIAIMC.ESD	none	ext.nitf.piaimc.exploitation-support-data	Boolean	true
Tre.PIAIMC.OTHERCOND	none	ext.nitf.piaimc.other-conditions	String	true
Tre.PIAIMC.MEANGSD	none	ext.nitf.piaimc.mean-gsd	Float	true
Tre.PIAIMC.IDATUM	none	ext.nitf.piaimc.image-datum	String	true
Tre.PIAIMC.IELLIP	none	ext.nitf.piaimc.image-ellipsoid	String	true
Tre.PIAIMC.PREPROC	none	ext.nitf.piaimc.image-processing-level	String	true
Tre.PIAIMC.IPROJ	none	ext.nitf.piaimc.image-projection-system	String	true
Tre.PIAIMC.SATTRACK_PATH	none	ext.nitf.piaimc.satellite-track-path	Integer	true
Tre.PIAIMC.SATTRACK_ROW	none	ext.nitf.piaimc.satellite-track-row	Integer	true

Table 40. NITF Profile For Imagery Access Product (PIAPRD) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.PIAPRD.ACCESSID	none	ext.nitf.piaprd.access-id	String	true
Tre.PIAPRD.FMCONTROL	none	ext.nitf.piaprd.fm-control-number	String	true
Tre.PIAPRD.SUBDET	none	ext.nitf.piaprd.subjective-detail	String	true
Tre.PIAPRD.PRODCODE	none	ext.nitf.piaprd.product-code	String	true
Tre.PIAPRD.PRODUCERSE	none	ext.nitf.piaprd.producer-supplement	String	true
Tre.PIAPRD.PRODIDNO	none	ext.nitf.piaprd.product-id-number	String	true
Tre.PIAPRD.PRODSNME	none	ext.nitf.piaprd.product-short-name	String	true

NITF Field	Translation	Term	DataType	Multivalued
`Tre.PIAPRD.PRODUCERCD`	`none`	`ext.nitf.piaprd.producer-code`	String	true
`Tre.PIAPRD.PRODCRTIME`	`none`	`ext.nitf.piaprd.producer-create-time`	String	true
`Tre.PIAPRD.MAPID`	`none`	`ext.nitf.piaprd.map-id`	String	true
`Tre.PIAPRD.KEYWORDREP`	`none`	`ext.nitf.piaprd.keyword-repetitions`	Integer	true
`Tre.PIAPRD.KEYWORD`	`none`	`ext.nitf.piaprd.keyword`	String	true
`TreGroup.PIAPRD.KEYWORD`	`none`	`ext.nitf.piaprd.keyword`	String	true

Table 41. NITF Profile For Imagery Access Target (PIATGB) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
`Tre.PIATGB.TGTUTM`	`none`	`ext.nitf.piatgb.target-utm`	String	true
`Tre.PIATGB.PIATGAID`	`none`	`ext.nitf.piatgb.target-identification`	String	true
`Tre.PIATGB.PIACTRY`	`none`	`ext.nitf.piatgb.country-code`	String	true
`Tre.PIATGB.PIACAT`	`none`	`ext.nitf.piatgb.category-code`	String	true
`Tre.PIATGB.TGTGEO`	`none`	`ext.nitf.piatgb.target-geographic-coordinates`	String	true
`Tre.PIATGB.DATUM`	`none`	`ext.nitf.piatgb.target-coordinate-datum`	String	true
`Tre.PIATGB.TGTNAME`	`none`	`ext.nitf.piatgb.target-name`	String	true
`Tre.PIATGB.PERCOVER`	`none`	`ext.nitf.piatgb.percentage-of-coverage`	Integer	true
`Tre.PIATGB.TGTLAT`	`none`	`ext.nitf.piatgb.target-latitude`	Float	true
`Tre.PIATGB.TGTLON`	`none`	`ext.nitf.piatgb.target-longitude`	Float	true

Table 42. NITF Standard ID (STDIDC) TRE Attribute Mappings

NITF Field	Translation	Term	DataType	Multivalued
Tre.STDIDC.COUNTRY	2char FIPS → 3char ISO3 If conversion fails, then null. NOTE: Other system plugins could populate the country code based on location.	location.country-code	String	true
Tre.STDIDC.ACQUISITION_DATE	none	ext.nitf.stdidc.acquisition-date	Date	true
Tre.STDIDC.COUNTRY	none	ext.nitf.stdidc.country	String	true
Tre.STDIDC.LOCATION	none	ext.nitf.stdidc.location	String	true
Tre.STDIDC.WAC	none	ext.nitf.stdidc.wac	String	true
Tre.STDIDC.MISSION	none	ext.nitf.stdidc.mission	String	true
Tre.STDIDC.OP_NUM	none	ext.nitf.stdidc.op-num	String	true
Tre.STDIDC.PASS	none	ext.nitf.stdidc.pass	String	true
Tre.STDIDC.REPLAY_REGEN	none	ext.nitf.stdidc.replay-regen	String	true
Tre.STDIDC.REPRO_NUM	none	ext.nitf.stdidc.repo-num	String	true
Tre.STDIDC.START_COLUMN	none	ext.nitf.stdidc.start-column	String	true
Tre.STDIDC.START_ROW	none	ext.nitf.stdidc.start-row	String	true
Tre.STDIDC.START_SEGMENT	none	ext.nitf.stdidc.start-segment	String	true
Tre.STDIDC.END_COLUMN	none	ext.nitf.stdidc.end-column	String	true
Tre.STDIDC.END_ROW	none	ext.nitf.stdidc.end-row	String	true
Tre.STDIDC.END_SEGMENT	none	ext.nitf.stdidc.end-segment	String	true

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