

Example EML Error Messages

Example EML error messages here are gathered from a **Metacat harvest report** and three diagnostic tools

- oXygen XML editor
- KNB emlParser
- pasta quality checks in evaluation mode

Here are a batch of eml docs which are all identical except for one intentional mistake in each. Two are base cases, completely valid and correct (#1 for eml 2.1.0 and #11 for eml 2.0.1.) In some cases I made the same intentional mistake in the older and newer versions of eml to demonstrate how some mistakes were allowed in the older version.

See the accompanying .zip archive for the eml docs, harvest list, and harvest report used for these examples. The example eml docs are named by their docId, as in the left column of the table. View them in oXygen, not in a browser. When these eml docs are viewed in the [oXygen](#) eml editor, the mistakes are marked with a **red squiggle** as well as a message at the bottom of the editor pane.

The KNB parser [Validation service for EML](#) will validate that your EML file conforms to the rules in the EML spec. It also runs a SAX validation parse to check if your document is schema valid according to the EML schemas. The KNB parser tool gives instant feedback.

Sometimes error messages contain eml tags and when rendered in a browser those tags dissappear (because they're not html). I tried to escape them but in some cases you will see end tag "" instead of end tag "</title>".

Harvest log reports may contain errors in four categories:

- (1) xml not well-formed
- (2) xml not matching eml schema (eml not schema-valid)
- (3) parser errors with references (missing id, or missing customUnit, or duplicate id).
- (4) harvest issues (duplicate revision, ie a docId already submitted, or the url to the eml file is not-found)

The KNB emlParser will find any errors in categories 1, 2 or 3. An xml editor alone will not alert you to category 3 errors but once you have the error message from the parser you can then locate the problem id. The category of the error will determine your approach. So it is useful to recognise which category of error has happened.

example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
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knb-test-fls.1.1	eml 2.1.0	This one validates and parses ok.	no error	EML specific tests: Passed. The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed. XML specific tests: Passed. Document is XML-schema valid. There were no XML errors found in your document.	success	Value of the packageId attribute must conform with LTER best practices. <i>The fake scope knb-test-fls is in all examples here so I wont repeat this message.</i>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.2.1	eml 2.1.0	This one is mal-formed XML, with double-quoted root element. Missing </title> Category (1) xml not well-formed	The element type "title" must be terminated by the matching end-tag "</title>".	EML specific tests: Failed. The following errors were found: Error running xpath expression: //dateTimeDomain //nonNumericDomain //numericDomain //access //attributeList //constraint //coverage //temporalCoverage //geographicCoverage //taxonomicCoverage /dataset/eml/dataset /eml/dataset//dataSource //dataTable//otherEntity //citation//address //conferenceLocation//party //originator//creator//contact //publisher//editor//recipient //performer//institution	Error running xpath expression: //dateTimeDomain //nonNumericDomain //numericDomain //access//attributeList //constraint//coverage //temporalCoverage //geographicCoverage //taxonomicCoverage /dataset/eml/dataset //dataSource //dataTable //otherEntity//citation //address //conferenceLocation //party//originator //creator//contact //publisher//editor	Unable to parse packageId from document. The document may not be well-formed XML.

				//metadataProviderl //associatedParty//personnell //physicall //connectionDefinitionl //distribution//researchProjectl //project//relatedProjectl //software//spatialRasterl //spatialReferencel //spatialVectorl //storedProcedure//viewl //protocol//additionalMetadata : The element type "title" must be terminated by the matching end-tag "".	//recipient//performerl //institutionl //metadataProviderl //associatedParty //personnell//physicall //connectionDefinitionl //distributionl //researchProjectl //projectl //relatedProjectl //softwarel //spatialRasterl //spatialReferencel //spatialVectorl //storedProcedurel //view//protocoll //additionalMetadata : The element type "title" must be terminated by the matching end-tag "</title>".	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knbn-test- fls.3.1	eml 2.1.0	This one is mal-formed XML, with single-quoted root element. Missing </title> Category (1) xml not well-formed	The element type "title" must be terminated by the matching end-tag "</title>".	EML specific tests: Failed. The following errors were found: Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //access//attributeListl //constraint//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel	Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //access//attributeListl //constraint//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel	Unable to parse packageId from document. The document may not be well-formed XML.

				//geographicCoverage //taxonomicCoverage dataset /eml/dataset//dataSource //dataTable//otherEntity //citation//address //conferenceLocation//party //originator//creator//contact //publisher//editor//recipient //performer//institution //metadataProvider //associatedParty//personnel //physical //connectionDefinition //distribution//researchProject //project//relatedProject //software//spatialRaster //spatialReference //spatialVector //storedProcedure//view //protocol//additionalMetadata : The element type "title" must be terminated by the matching end-tag "".	/dataset/eml/dataset //dataSource //dataTable //otherEntity//citation //address //conferenceLocation //party//originator //creator//contact //publisher//editor //recipient//performer //institution //metadataProvider //associatedParty //personnel//physical //connectionDefinition //distribution //researchProject //project //relatedProject //software //spatialRaster //spatialReference //spatialVector //storedProcedure //view//protocol //additionalMetadata : The element type "title" must be terminated by the matching end-tag "</title>".	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.4.1	eml 2.1.0	<p>This one is invalid EML, with double-quoted root element. Missing entityName</p> <p>Category (2) eml not schema-valid</p>	<p>E [Xerces] cvc-complex-type.2.4.a: Invalid content was found starting with element 'entityDescription'. One of '{alternateIdentifier, entityName, references}' is expected.</p>	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Failed</p> <p>The following errors were found: cvc-complex-type.2.4.a: Invalid content starting with element 'entityDescription'. The content must match '((((((((("":alternateIdentifier){0-UNBOUNDED}, ("":entityName)), ("":entityDescription){0-1}), ("":physical){0-UNBOUNDED}), ("":coverage){0-1}), ("":methods){0-1}), ("":additionalInfo){0-UNBOUNDED}), ("":attributeList)), ("":constraint){0-UNBOUNDED}), ("":caseSensitive){0-1}), ("":numberOfRecords){0-1}) ("":references))'.</p>	<p>cvc-complex-type.2.4.a: Invalid content was found starting with element 'entityDescription'. One of '{alternateIdentifier, entityName, references}' is expected.</p>	<p>String index out of range: 0</p>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.5.1	eml 2.1.0	<p>This one is invalid EML, with single-quoted root element. Missing entityName</p> <p>Category (2) eml not schema-valid</p>	<p>E [Xerces] cvc-complex-type.2.4.a: Invalid content was found starting with element 'entityDescription'. One of '{alternateIdentifier, entityName, references}' is expected.</p>	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Failed</p> <p>The following errors were found: cvc-complex-type.2.4.a: Invalid content starting with element 'entityDescription'. The content must match '((((((((("":alternateIdentifier){0-UNBOUNDED}, ("":entityName)), ("":entityDescription){0-1}), ("":physical){0-UNBOUNDED}), ("":coverage){0-1}), ("":methods){0-1}), ("":additionalInfo){0-UNBOUNDED}), ("":attributeList)), ("":constraint){0-UNBOUNDED}), ("":caseSensitive){0-1}), ("":numberOfRecords){0-1}) ("":references))'.</p>	<p>cvc-complex-type.2.4.a: Invalid content was found starting with element 'entityDescription'. One of '{alternateIdentifier, entityName, references}' is expected.</p>	<p>String index out of range: 0</p>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.6.1	eml 2.1.0	<p>This one fails the parser: duplicate ID.</p> <p>Category (3) parser errors with references</p>	<p>Error not detected because parser errors are not validation errors.</p>	<p>EML specific tests: Failed.</p> <p>The following errors were found: Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //accessl//attributeListl //constraintl//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel /dataset/eml/datasetl //dataSourcel //dataTable //otherEntity//citationl //addressl //conferenceLocationl //party//originatorl //creator//contactl //publisher//editorl //performer//institutionl //metadataProviderl //associatedParty//personnell //physicall //connectionDefinitionl //distribution//researchProjectl //projectl//relatedProjectl //software//spatialRasterl //spatialReferencel //spatialVectorl //storedProcedure//viewl //protocol//additionalMetadata : Error in xml document. This EML document is not valid because the id FLS occurs more than once. IDs must be unique.</p>	<p>Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //accessl//attributeListl //constraintl//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel /dataset/eml/datasetl //dataSourcel //dataTable //otherEntity//citationl //addressl //conferenceLocationl //party//originatorl //creator//contactl //publisher//editorl //performer//performerl //institutionl //metadataProviderl //associatedParty //personnell//physicall //connectionDefinitionl //distributionl //researchProjectl //projectl //relatedProjectl //softwarel //spatialRasterl //spatialReferencel //spatialVectorl //storedProcedurel //viewl//protocol //additionalMetadata :</p>	<p>Resolve issues with IDs and references.</p>
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				XML specific tests: Passed. Document is XML-schema valid. There were no XML errors found in your document.	Error in xml document. This EML document is not valid because the id FLS occurs more than once. IDs must be unique.	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.7.1	eml 2.1.0	This one fails the parser: missing ID. Category (3) parser errors with references	Error not detected because parser errors are not validation errors.	EML specific tests: Failed. The following errors were found: Error processing keyrefs: //references : Error in xml document. This EML instance is invalid because referenced id Fictitious_LTER_Site does not exist in the given keys. XML specific tests: Passed. Document is XML-schema valid. There were no XML errors found in your document.	Error processing keyrefs: //references : Error in xml document. This EML instance is invalid because referenced id Fictitious_LTER_Site does not exist in the given keys.	Resolve issues with IDs and references.
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.8.1	eml 2.1.0	This one is missing a customUnit. Category (3) parser errors with references	Error not detected because parser errors are not validation errors.	EML specific tests: Failed. The following errors were found: Error processing	Error processing keyrefs: //unit /customUnit : Error in xml document. This EML instance is	Resolve issues with IDs and references.

				<p>keyrefs: //unit/customUnit : Error in xml document. This EML instance is invalid because referenced id thingBob does not exist in the given keys.</p> <p>XML specific tests: Passed.</p> <p>Document is XML-schema valid. There were no XML errors found in your document.</p>	<p>invalid because referenced id thingBob does not exist in the given keys.</p>	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.9.1	eml 2.1.0	<p>An empty field: creator/organizationName</p> <p>Category (2) eml not schema-valid</p>	<p>E [Xerces] cvc-type.3.1.3: The value " of element 'organizationName' is not valid.</p>	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Failed</p> <p>The following errors were found: cvc-type.3.1.3: The value " of element 'organizationName' is not valid.</p>	<p>cvc-pattern-valid: Value " is not facet-valid with respect to pattern '[\s]*[\S][\s\S]*' for type 'NonEmptyStringType'.</p>	<p>Make this doc valid.</p>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.10.1	eml 2.0.1	An empty field: creator/organizationName	(see note) Not detected in eml 2.0.1.	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Passed.</p> <p>Document is XML-schema valid. There were no XML errors found in your document.</p>	success (Not detected in eml 2.0.1)	(Just the pkgId and eml version messages) This is an example of why eml 2.1.0 is needed: to find empty fields
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.11.1	eml 2.0.1	This one validates and parses ok.	(see note) no error	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Passed.</p> <p>Document is XML-schema valid. There were no XML errors found in your document.</p>	success	Use an approved namespace. (<i>eml 2.0.1 is not approved for pasta</i>)
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.12.1	eml 2.0.1	Miss-formated dates	(see note) Not detected in eml 2.0.1.	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Passed.</p> <p>Document is XML-schema valid. There were no XML errors found in your document.</p>	success (Not detected in eml 2.0.1)	<i>(Just the pkgId and eml version messages) Date format not checked in eml 2.0.1</i>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.13.1	eml 2.1.0	Miss-formated dates	The date error is not detected. Shouldn't that be detected?	<p>EML specific tests: Passed.</p> <p>The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed.</p> <p>XML specific tests: Passed.</p> <p>Document is XML-schema valid. There were no XML errors found in your document.</p>	success	<i>(Just the pkgId and eml version messages) Date format not checked in eml 2.0.1</i>
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

knb-test-fls.14.1	eml 2.1.0	<p>This one is invalid xml because of an unencoded less-than sign in the methods.</p> <p>Category (1) xml not well-formed</p>	F [Xerces] The content of elements must consist of well-formed character data or markup. Oxygen points to line 229.	<p>EML specific tests: Failed.</p> <p>The following errors were found: Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //accessl//attributeListl //constraintl//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel /dataset/eml/datasetl //dataSource //dataTable //otherEntity//citationl //addressl //conferenceLocationl//partyl //originator//creator//contactl //publisher//editor//recipientl //performer//institutionl //metadataProviderl //associatedParty//personnell //physicall //connectionDefinitionl //distributionl//researchProjectl //projectl//relatedProjectl //softwarel//spatialRasterl //spatialReferencel //spatialVectorl //storedProcedurel//viewl //protocol//additionalMetadata : The content of elements must consist of well-formed character data or markup.</p> <p>XML specific tests: Failed</p>	<p>Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl //accessl//attributeListl //constraintl//coveragel //temporalCoveragel //geographicCoveragel //taxonomicCoveragel /dataset/eml/datasetl //dataSource //dataTable //otherEntity//citationl //addressl //conferenceLocationl //party//originatorl //creator//contactl //publisher//editorl //recipient//performerl //institutionl //metadataProviderl //associatedParty //personnell//physicall //connectionDefinitionl //distributionl //researchProjectl //projectl //relatedProjectl //softwarel //spatialRasterl //spatialReferencel //spatialVectorl //storedProcedurel //viewl//protocoll //additionalMetadata :</p>	Unable to parse packageId from document. The document may not be well-formed XML.
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				The following errors were found: The content of elements must consist of well-formed character data or markup.	The content of elements must consist of well-formed character data or markup.	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.15.1	eml 2.1.0	This one has an html tag in the abstract so it is invalid. Category (2) eml not schema-valid	E [Xerces] cvc-complex-type.2.4.a: Invalid content was found starting with element 'br'. One of '{itemizedlist, orderedlist, emphasis, subscript, superscript, literalLayout, ulink}' is expected. Oxygen points to line 70.	EML specific tests: Passed. The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed. XML specific tests: Failed The following errors were found: cvc-complex-type.2.4.a: Invalid content starting with element 'br'. The content must match '((((((((":itemizedlist) ("":orderedlist)) ("":emphasis)) ("":subscript)) ("":superscript)) ("":literalLayout)) ("":ulink){0-1}){0-UNBOUNDED}.'	cvc-complex-type.2.4.a: Invalid content was found starting with element 'br' . One of '{itemizedlist, orderedlist, emphasis, subscript, superscript, literalLayout, ulink}' is expected.	Make this doc valid.
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.16.1	eml 2.1.0	This one has a weird Microsoft Word encoding in the abstract.	F [Xerces] The content of elements must consist of well-formed character data or	EML specific tests: Failed. The following errors were	Error running xpath expression: //dateTimeDomain //nonNumericDomain	Make this doc valid.

		Category (2) eml not schema-valid	markup. Oxygen points to line 70.	<p>found: Error running xpath expression: //dateTimeDomainl //nonNumericDomainl //numericDomainl//accessl //attributeListl//constraintl //coverage//temporalCoverage //geographicCoverage //taxonomicCoverage/datasetl /eml/dataset//dataSource //dataTable//otherEntityl //citation//addressl //conferenceLocation//party //originator//creator//contactl //publisher//editor//recipientl //performer//institutionl //metadataProviderl //associatedParty//personnell //physical //connectionDefinitionl //distribution//researchProject //project//relatedProject //software//spatialRasterl //spatialReferencel //spatialVectorl //storedProcedure//viewl //protocol//additionalMetadata : The content of elements must consist of well-formed character data or markup.</p> <p>XML specific tests: Failed</p> <p>The following errors were found: The content of elements must consist of well-formed character data or markup.</p>	<p>//numericDomainl //access//attributeListl //constraint//coverage //temporalCoverage //geographicCoverage //taxonomicCoverage /dataset/eml/datasetl //dataSource //dataTable //otherEntity//citationl //addressl //conferenceLocationl //party//originatorl //creator//contactl //publisher//editorl //recipient//performerl //institutionl //metadataProviderl //associatedParty //personnell//physical //connectionDefinitionl //distribution //researchProject //project //relatedProject //software //spatialRasterl //spatialReferencel //spatialVectorl //storedProcedurel //view//protocol //additionalMetadata :</p> <p>The content of elements must consist of well-formed character data or</p>	
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					markup.	
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test- fls.17.1	eml 2.1.0	title is just a space Category (2) eml not schema-valid	E [Xerces] cvc-pattern- valid: Value '' is not facet-valid with respect to pattern '[\s]* [\S][\s\S]*' for type 'NonEmptyStringType'. Oxygen points to line 18.	EML specific tests: Passed. The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed. XML specific tests: Failed The following errors were found: cvc-type.3.1.3: The value '' of element 'title' is not valid.	cvc-pattern-valid: Value '' is not facet-valid with respect to pattern '[\s]* [\S][\s\S]*' for type 'NonEmptyStringType'.	Make this doc valid.
example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test- fls.18.1	eml 2.0.1	title is just a space	(see note) Not detected in eml 2.0.1.	EML specific tests: Passed. The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed. XML specific tests: Passed. Document is XML-schema valid. There were no XML errors found in your document.	success (Not detected in eml 2.0.1)	<i>(Just the pkgId and eml version messages) Title with just a space not checked in eml 2.0.1</i>

example EML doc	docType	Intentional error & Category	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.19.1	eml 2.1.0	This one has an abstract/section with no para. Category (2) eml not schema-valid	E [Xerces] cvc-complex-type.2.4.b: The content of element 'section' is not complete. One of '{title, para, section}' is expected. Oxygen points to line 70.	EML specific tests: Passed. The tests which are specific to EML, including validation that IDs are present and properly referenced, have passed. XML specific tests: Failed The following errors were found: cvc-complex-type.2.3: Element 'section' must have no character [children], because the types content type is element-only.	cvc-complex-type.2.3: Element 'section' cannot have character [children], because the type's content type is element-only.	Make this doc valid.
example EML doc	docType	Intentional error	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion

Example Metacat Harvest Error Messages

These errors are related to the harvest process, not to eml itself.

example EML doc	docType	Intentional error	oXygen red squiggles	KNB emlparser	Metacat 2.0.0 errorMessage	qualityChecker suggestion
knb-test-fls.20.1	eml 2.1.0	harvest list specifies docType eml 2.0.1 but eml is 2.1.0	no error	na	na	na

		Category (4) harvest issues				
knb-test-fls.21.1	eml 2.0.1	harvest list specifies docType eml 2.1.0 but eml is 2.0.1 Category (4) harvest issues	no error	na	na	na
knb-test-fls.22.1	eml 2.1.0	Non-existent eml file: expect File Not Found error. Category (4) harvest issues	na	<i>Cant run a non-existent file thru the knb parser, so no message.</i>	Error getting EML document from site	URL: http://mcr-dev.lternet.edu/~gastilbuhl/metacat/FLS/eml/knb-test-fls.22.1.xml ; IOException : http://mcr-dev.lternet.edu/~gastilbuhl/metacat/FLS/eml/knb-test-fls.22.1.xml
knb-test-fls.1.1	eml 2.1.0	Duplicate harvest: trying to re-insert same revsion. Category (4) harvest issues	no error	na	Attempting to update knb-test-fls.1 to revision 1. Metacat has document revision 1. Metacat already has this EML document	<i>no error in evaluation mode</i>

Special notes on eml 2.0.1

The eml 2.0.1 schema itself has a problem. There is a [patched version](#) of that schema which fixes the problem by wrapping the contents of additionalMetadata in a metadata tag. If the .xsd in the root element points to the official version of eml 2.0.1, not the patched version, then oXygen cannot validate the eml doc. Instead, it will give the below message:

E [Xerces] cos-nonambig: describes and WC[##any] (or elements from their substitution group) violate "Unique Particle Attribution". During validation against this schema, ambiguity would be created for those two particles.

Examples determine Error Messages, not vice versa

There can be more than one cause for the same error message. A given error message, can be caused more than one way. For example, in #4, that same message could be the result of the entityDescription appearing above the entityName rather than the entityName actually being missing. This is another reason why looking at validation with an xml editor is going to provide more specific information. It may be the same message but the red squiggle will happen on a different line.

Another way of saying this is that a given error in the eml will always produce the same message but a given message may be caused by more than one error in the eml.

Details

These tests were run on June 8-10, 2012 using Metacat 2.0.0 interactively on a dataone development server and via harvest on an LNO development server. **Pleae try to avoid submitting test docs or eml with known errors to a production metacat.**