

PREMIS Metadata Tracking and Preservation Events

PREMIS events modeled using PREMIS 2.2 and serialized in RDF (<http://www.loc.gov/standards/premis/ontology/index.html>)

- [September 2016 IU WGBH Meeting Notes about PREMIS Events](#)
- [David Wilcox Email Notes 11-02-2016](#)

Preservation events to model within Phydo functionality

- [Ingestion](#) - The process of adding objects to a preservation repository.
- ~~[Fixity Check](#) (only recurring PREMIS event) - The process of verifying that an object has not been changed in a given period.~~
- [Deaccession](#) - The process of removing an object from the inventory of a repository.

Preservation events that happen outside of PHYDO and should be recorded

- [Message digest calculation](#) - The process by which a message digest ("hash") is created.
- [Validation](#) - The process of comparing an object with a standard and noting compliance or exceptions.
- [Creation](#) - The act of creating a new object.
- [Virus check](#) - The process of scanning a file for malicious programs. (not including for IU implementation)
- ~~[Capture](#) (need to discuss) - The process whereby a repository actively obtains an object.~~
- [Fixity Check](#) (run against asynchronous/tape storage on set of files and added into Phydo) - The process of verifying that an object has not been changed in a given period.

For PREMIS events that happen outside of PHYDO, the following properties included in the attached .n3 file examples will need to map to something from the SIP:

Event	premis: hasEventType	Property	Content Source	Example Data - for 40000000363772_20160606-150945/data /MDPI_40000000363772_01_pres.mkv	Example Data - for 40000000363772_20160606-150945/data /MDPI_40000000363772_01_mezz.mov	Example Data - for 40000000363772_2016 /data /MDPI_40000000363772.mp4
messageDigestCalculation	http://id.loc.gov/vocabulary/preservation/eventType/messageDigestCalculation	premis: hasEventOutcome	Brian's YAML file	6763320f999439f96961fa3209133b9b	885ed0fb6cf8e55cac6f5b548730f879	dfee112509b43f8731c2bf
messageDigestCalculation		premis: hasAgent	use store-admin@iu.edu to represent SDA	store-admin@iu.edu	store-admin@iu.edu	store-admin@iu.edu
messageDigestCalculation		premis: hasEventDetail	Not in SIP but known info to be hard-coded or configured. For IU, "Program used: HSI 5.2 P3"	Program used: HSI 5.2 P3	Program used: HSI 5.2 P3	Program used: HSI 5.2 P3
validation	http://id.loc.gov/vocabulary/preservation/eventType/validation	premis: hasEventDate	MDPI_[barcode]_[seq]_[type]_ffprobe.xml file date	2016-06-06T15:09:00Z	2016-06-06T15:09:00Z	2016-06-06T15:09:00Z
validation		premis: hasEventOutcome	would always be "PASS" if ffprobe/ffprobe file exists, otherwise maybe it would be "FAIL"?	PASS	PASS	PASS

validation		premis: hasEventDetail	if /node() = "ffprobe", then example columns output; if /node() = "fits" then "Program used: File Information Toolset (FITS), version [//identity /@toolversion]"	FFprobe multimedia streams analyzer from FFmpeg	FFprobe multimedia streams analyzer from FFmpeg	FFprobe multimedia streams from FFmpeg
creation	http://id.loc.gov/vocabulary/preservation/eventType/creation	premis: hasEventDate	MDPI_[barcode].xml: <Date> from /IU /Carrier[1] /Parts[1] /Part@Side=[seq] /Ingest[1] /Date[1]; could also use that same path for <Date> where /IU /Carrier /Parts/Part /Files/File /FileName = MDPI_[barcode]_[seq]_[type].[ext]	2016-05-26	2016-05-26	2016-05-26
virusCheck	http://id.loc.gov/vocabulary/preservation/eventType/virusCheck	premis: hasEventDate	not including for IU implementation			
virusCheck		premis: hasEventOutcome	not including for IU implementation			
virusCheck		premis: hasEventDetail	not including for IU implementation			
fixityCheck	http://id.loc.gov/vocabulary/preservation/eventType/fixityCheck	premis: hasEventDetail	from external file source (not part of SIP)			
fixityCheck		premis: hasEventDate	from external file source (not part of SIP)			
fixityCheck		premis: hasEventOutcome	from external file source (not part of SIP)			

PREMIS 3 ontology mapping changes things up for events and for the few properties we're using to define objects. See [Changes for PREMIS 3 Ontology](#)