



**The CINCH tool:  
Capture, INgest, CHecksum**

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**CINCH (Capture INgest CHecksum) is a tool that automates the transfer of online content to a repository, using ingest technologies appropriate for digital preservation.**

**More familiarly, CINCH**

- **grabs freely available online content,**
- **authenticates it,**
- **extracts metadata, and**
- **readies it for repository ingest.**



User logs in

User uploads file list

CINCH locates URLs in file list

Actions CINCH performs on remote files

- Duplicate check (previous download) X
- Allowable file extension?
- File size assessed X
- Checksum calculated X
- Modified name assigned

CINCH downloads files

Actions CINCH performs on local files

- Virus scan X
- Last modified date/time verified, reset
- Metadata extracted
- Checksum calculated
- Duplicate check (current download)

CINCH creates ZIP file(s)

CINCH emails user

User downloads ZIP file(s)



AUDIT TRAIL for all transactions

**Problem files**

**Metadata, audit trail**

**Files**

Name	Size	Type	Date Modified
problem_files		File Folder	6/19/2012 6:30 PM
event_list_2012_06_19.csv	31 KB	Microsoft Office Exc...	6/19/2012 6:30 PM
file_manifest_2012-06-19.csv	2 KB	Microsoft Office Exc...	6/19/2012 6:30 PM
PDF_Metadata_2012_06_19.csv	6 KB	Microsoft Office Exc...	6/19/2012 5:30 PM
statelibrary.ncdcr.gov_govdocs_classification_Classa.pdf	18 KB	Adobe Acrobat Doc...	5/27/2011 8:12 AM
statelibrary.ncdcr.gov_govdocs_classification_classb2.PDF	21 KB	Adobe Acrobat Doc...	3/27/2007 2:09 PM
statelibrary.ncdcr.gov_govdocs_classification_classb.PDF	14 KB	Adobe Acrobat Doc...	4/26/2012 11:25 AM
statelibrary.ncdcr.gov_govdocs_classification_classc.PDF	37 KB	Adobe Acrobat Doc...	4/7/2008 10:45 AM
statelibrary.ncdcr.gov_govdocs_classification_classd2.PDF	60 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classd.PDF	97 KB	Adobe Acrobat Doc...	3/18/2004 9:44 AM
statelibrary.ncdcr.gov_govdocs_classification_classf.pdf	16 KB	Adobe Acrobat Doc...	5/27/2011 8:12 AM
statelibrary.ncdcr.gov_govdocs_classification_classg2.PDF	22 KB	Adobe Acrobat Doc...	4/4/2006 11:12 AM
statelibrary.ncdcr.gov_govdocs_classification_classg3.pdf	107 KB	Adobe Acrobat Doc...	2/7/2012 1:40 PM
statelibrary.ncdcr.gov_govdocs_classification_classg4.PDF	110 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classg.PDF	109 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classh.PDF	55 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classi2.PDF	80 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classi3.PDF	83 KB	Adobe Acrobat Doc...	3/18/2004 9:30 AM
statelibrary.ncdcr.gov_govdocs_classification_classi4.PDF	11 KB	Adobe Acrobat Doc...	7/6/2006 9:17 AM
statelibrary.ncdcr.gov_govdocs_classification_classi.PDF	26 KB	Adobe Acrobat Doc...	4/26/2012 11:25 AM
statelibrary.ncdcr.gov_govdocs_classification_classIntro.pdf	159 KB	Adobe Acrobat Doc...	3/18/2004 9:29 AM

[cinch.nclive.org](http://cinch.nclive.org)

[slnc-dimp.github.com/Cinch/](https://slnc-dimp.github.com/Cinch/)

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