

Preservation File Formats at the Smithsonian Institution Archives

In accordance with best practices, the Smithsonian Institution Archives prefers to preserve transferred electronic records in the preserved formats described in the table below. This table lists the native format/s, the corresponding primary preservation format (preferred), and the secondary format. The secondary format will be used only when a record of sufficient quality cannot be created in the primary preservation format. If you are unable to provide records in the listed preservation formats, please contact the Archives Digital Services Division at sia-digitalservices@si.edu.

Original/Creating Application or Format	Primary Preservation Format	Secondary Preservation Format
Word processing/text applications		
(various) .txt	ASCII (keep original extension using Unicode character set)	
Corel WordPerfect .wpd, .wpx, .doc, .rtf, other	PDF/A or PDF	RTF (text)
Microsoft Word .doc, .docx, .dot, .rtf	PDF/A or PDF	RTF (text)
Spreadsheet applications		
Lotus 1-2-3 .wk	PDF/A (must capture entire workbook – macros disabled) or PDF	CSV
Microsoft Excel .xls, .xlsx	PDF/A (must capture entire workbook – macros disabled) or PDF	CSV
Presentation application		
Microsoft Powerpoint .ppt, .pptx	PDF/A (macros disabled) or PDF (must capture notes if present)	TIFF
Prezi .pez or online	Contact Smithsonian Institution Archives for options	
Graphics/image applications		
.bmp, .tif, .gif, .psd, .png, .eps, .fh, other	TIFF (uncompressed)	JPEG
.jpg	JPEG (format is stable enough to retain .jpg as is)	TIFF (if there is a problem with the .jpg and migration is possible)
.dng	DNG	TIFF (uncompressed)
Desktop Publishing Applications		
Adobe InDesign/Pagemaker .indd, .pm	TIFF (uncompressed)	PDF
Microsoft Publisher .pub	TIFF (uncompressed)	PDF
QuarkXpress .qxd	TIFF (uncompressed)	PDF
Video		
.avi, .vob, .m4v, .mov, .mp1, .mp2, .mp4, .qt, .wmv, other	Contact Smithsonian Institution Archives for options	

Original/Creating Application or Format	Primary Preservation Format	Secondary Preservation Format
Audio		
<i>.mp3, .mp4, .aif, .ra, .ram, .wma, .wav, other</i>	Broadcast Wave (WAV) with embedded metadata	WAV/AIFF
Database Management Systems (DBMS)		
<i>Dbase III+ .dbf, .dbt</i>	<i>Same as original</i>	CSV
<i>Lotus Notes (database)</i>	<i>Same as original</i>	CSV
<i>Microsoft Access (database) .mdb</i>	<i>Same as original</i>	CSV
<i>Microsoft SQL Server .bak</i>	<i>Export as .mdb. Current preservation tool uses XML</i>	CSV
<i>FileMaker .fp</i>	<i>Same as original</i>	CSV
Web		
<i>Social Media accounts Twitter, Facebook, YouTube, others</i>	WARC or screenshots (contact SI Archives for capture)	
<i>Websites</i>	WARC (contact SI Archives for capture)	
<i>.htm, .html, .shtml</i>	XHTML 1.0	PDF (Isolated, single webpage only)
<i>Active Server Page (various) .asp</i>	XHTML 1.0	ASP (depending on parameter complexity)
<i>Adobe Cold Fusion .cfm</i>	XHTML 1.0	
<i>Adobe Flash/Flash MX .swf</i>	SWF (No change at this time)	<i>Analyze carefully for embedded URLs or other file dependencies.</i>
Architectural Design/Engineering Graphics		
<i>AutoCAD .dwg, other</i>	PDF (with layer retention) PDF/A PDF/E	
<i>Microsoft Visio .vsd</i>	PDF (with layer retention) PDF/A PDF/E	
Email accounts		
<i>Outlook, Groupwise, Gmail, other</i>	Contact SI Archives for options	<i>MBOX</i>

If a format does not appear on this chart, please contact the Smithsonian Institution Archives Digital Services Division for guidance at sia-digitalservices@si.edu.

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