

# Safari 5.1 Cookie.binarycookie File Format [DRAFT]

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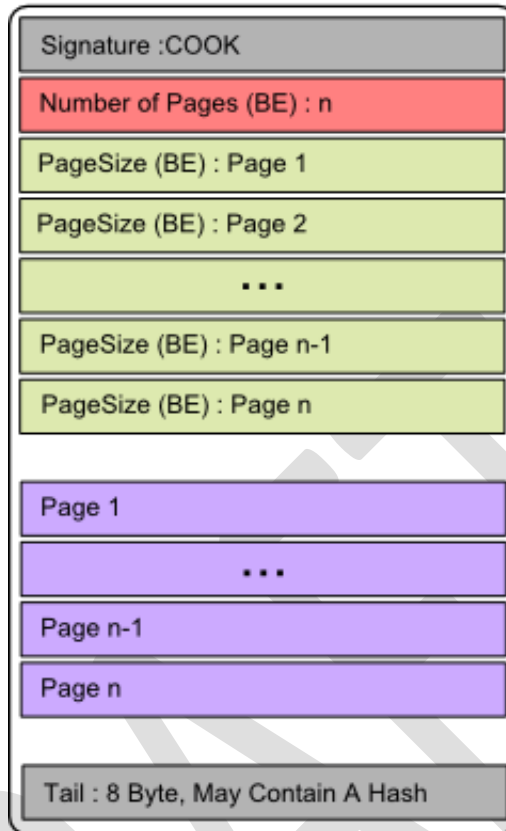
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ver. 0.2

**Description:** This document serves to fill in the gaps in the work posted by *AGG88* on stackoverflow : "<http://stackoverflow.com/questions/7545885/safari-5-1-cookie-format-specs>". There still in several gaps remaining, at least five fields in the cookie portion of the file remain unknown. There is also an 8 byte tail at the end of the Cookie file that remains unresolved, it's suggested that this may contain a checksum or hash of some sort to check the cookie file for corruption.

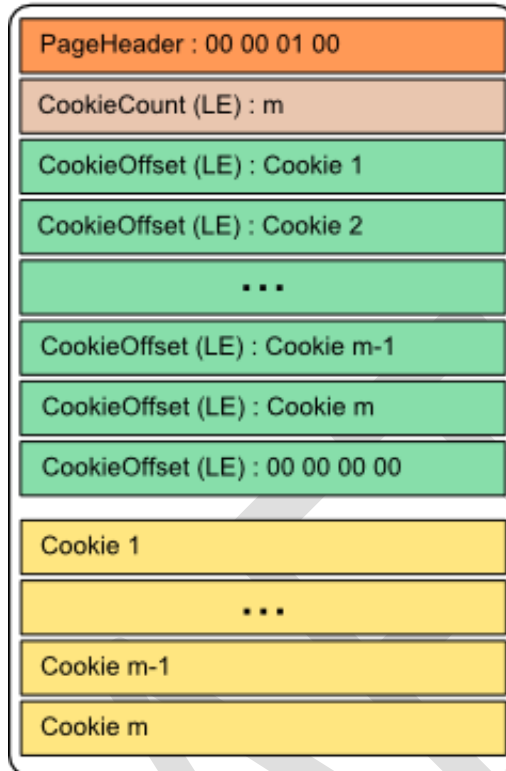
A Safari 5.1 "Cookie.binarycookie" file is composed of a header followed by one or more pages. Each page is composed of one or more cookies. At the end of the file is an 8 byte tail, it has been suggested that this tail contains a hash to check for corruption of the file.

# COOKIE FILE



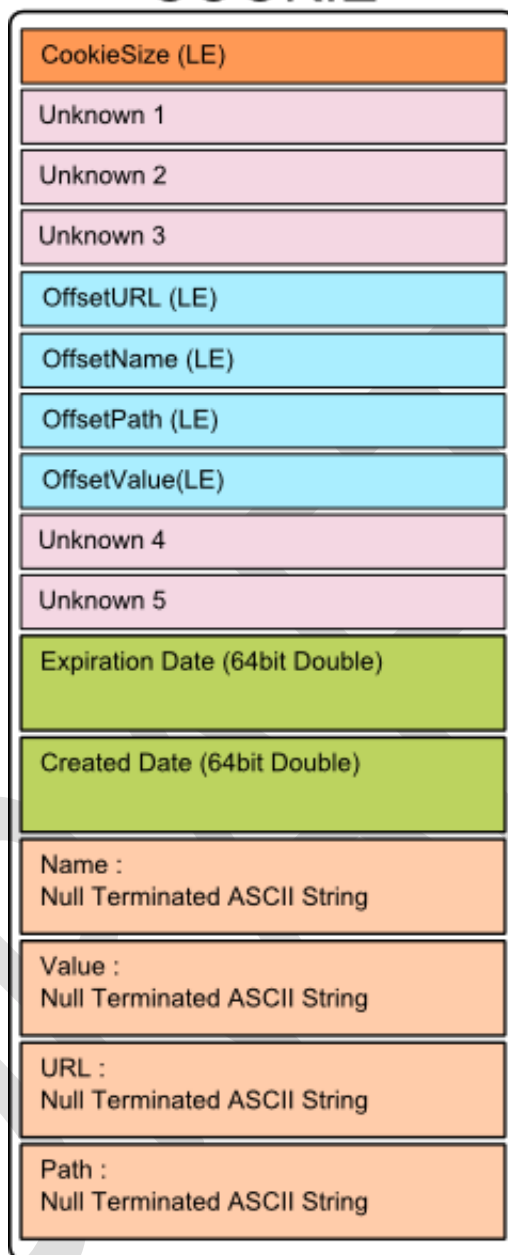
Field Name	Size	Description
<b>Signature</b>	4 bytes	"COOK" file header signature.
<b>Number of Pages</b>	4 bytes	Little Endian Integer
<b>Page Size</b>	4 bytes	Little Endian Integer. Offset from start of page to start of cookie. There are CookieCount+1 entries.
<b>Page</b>	X bytes	Variable size cookie data. There are CookieCount cookie entries.
<b>Tail</b>	8 bytes	

# PAGE



Field Name	Size	Description
<i>Page Header</i>	4 bytes	
<i>CookieCount</i>	4 bytes	Little Endian Integer
<i>CookieOffset</i>	4 bytes	Little Endian Integer. Offset from start of page to start of cookie. There are CookieCount+1 entries.
<i>Cookie</i>	X bytes	Variable size cookie data. There are CookieCount cookie entries.

# COOKIE



Field Name	Size	Description
<b>CookieSize</b>	4 bytes	Size of the cookie in bytes. LE
<b>Unknown 1</b>	4 bytes	
<b>Unknown 2</b>	4 bytes	
<b>Unknown 3</b>	4 bytes	
<b>OffsetURL</b>	4 bytes	Offset from start of cookie to URL string. LE
<b>OffsetName</b>	4 bytes	Offset from start of cookie to Name string. LE
<b>OffsetPath</b>	4 bytes	Offset from start of cookie to Path string. LE
<b>OffsetValue</b>	4 bytes	Offset from start of cookie to Value string. LE
<b>Unknown 4</b>	4 bytes	

<b>Unknown 5</b>	4 bytes	
<b>Expiration Date</b>	8 bytes	64bit Double Mac Absolute Time. GMT
<b>Created Date</b>	8 bytes	64 Bit Double Mac Absolute Time. GMT
<b>Name</b>	X bytes	Cookie name. A Null (0x00) terminated ASCII string.
<b>Value</b>	X bytes	Cookie value. A Null (0x00) terminated ASCII string.
<b>URL</b>	X bytes	Cookie URL. A Null (0x00) terminated ASCII string.
<b>Path</b>	X bytes	Cookie path. A Null (0x00) terminated ASCII string.

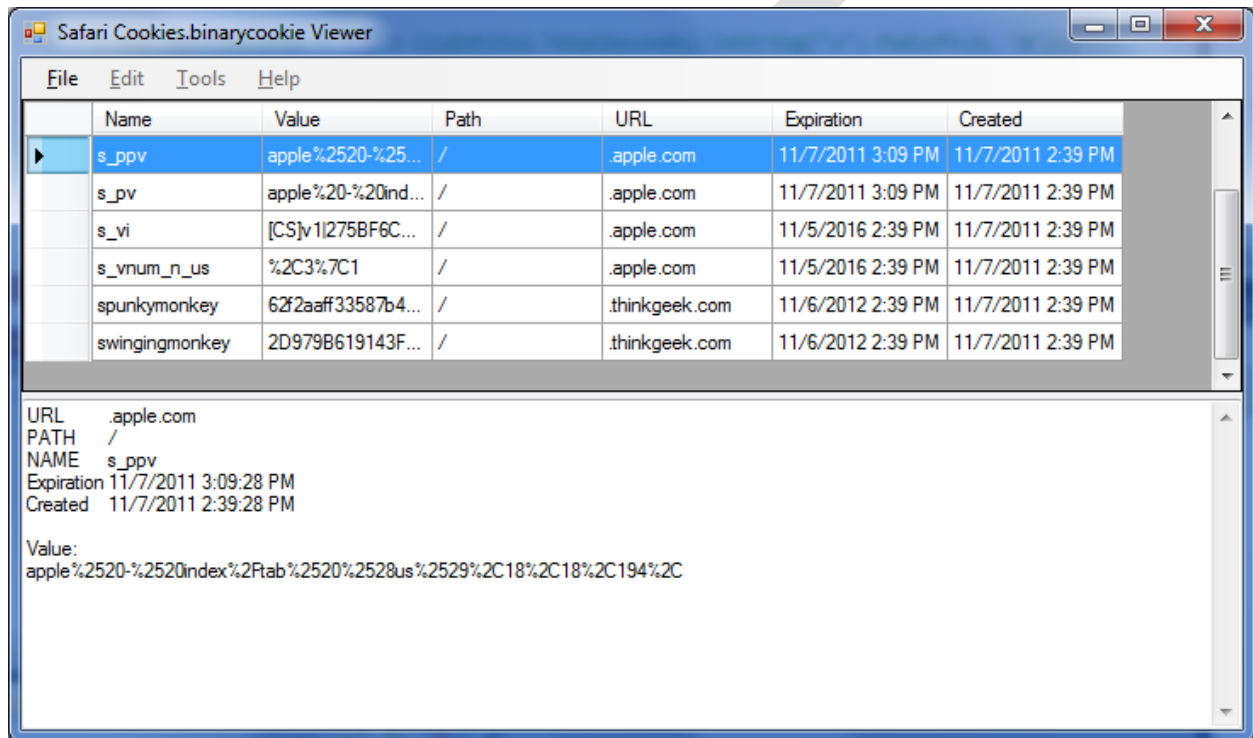


Figure 1 Safari Cookies.binarycookie Viewer Application