

## Core - Feature # 60221

<b>Status:</b>	New	<b>Priority:</b>	Could have
<b>Author:</b>	Bernhard Kraft	<b>Category:</b>	File Abstraction Layer (FAL)
<b>Created:</b>	2014-07-10	<b>Assigned To:</b>	
<b>Updated:</b>	2015-06-15	<b>Due date:</b>	
<b>PHP Version:</b>			
<b>Complexity:</b>			
<b>Sprint Focus:</b>			
<b>Subject:</b>	Read FAL resources in chunks		
<b>Description</b>			
<p>Usually file layers like the Linux file system support a basic common set of IO operations.</p> <p>If you ever have to implement a file system in linux or you are going to implement a java class implementing the file interface you will notice that you will have to implement the following methods:</p> <pre>open() close() read() seek() tell() write()</pre> <p>... of course there are a few others like "size()" and for handling access control.</p> <p>currently FAL only supports open/close as making an instance of the "File" object could get seen as a call to open().</p> <p>This issue suggests to add additional methods to File() which allows those basic operations.</p> <p>For the LocalDriver a fopen()/filehandle in the constructor and wrappers for fread/fwrite/fseek/ftell would be sufficient.</p> <p>Driver for S3 Amazon could for example manage internal position pointers and use the "Range" header to retrieve requested chunks from the storage (<a href="http://docs.aws.amazon.com/AmazonS3/latest/API/RESTObjectGET.html">http://docs.aws.amazon.com/AmazonS3/latest/API/RESTObjectGET.html</a>)</p>			

### History

#1 - 2014-07-10 01:37 - Markus Klein

Does this method from the File class fulfill your needs?

```
/**
 * Returns a path to a local version of this file to process it locally (e.g. with some system tool).
 * If the file is normally located on a remote storages, this creates a local copy.
 * If the file is already on the local system, this only makes a new copy if $writable is set to TRUE.
 *
 * @param boolean $writable Set this to FALSE if you only want to do read operations on the file.
 *
 * @throws \RuntimeException
 * @return string
 */
public function getForLocalProcessing($writable = TRUE) {
    if ($this->deleted) {
```

```
        throw new \RuntimeException('File has been deleted.', 1329821486);  
    }  
    return $this->getStorage()->getFileForLocalProcessing($this, $writable);  
}
```

If you set \$writable = FALSE you will get the absolute path to the file (if the LocalDriver is used).  
You can do with this path whatever you like.

## **#2 - 2014-07-10 13:52 - Bernhard Kraft**

This issue is marked as feature and could have. So its rather an idea/suggestion than a pressing requirement!

I don't like to handle FileObjects using different drivers specifically. Usually I try to write code which works on any driver.

The reason for this issue is just a proposal. For example when working with large files (CSV, etc.) this could be useful.

## **#3 - 2014-12-23 19:42 - Mathias Schreiber**

- *Target version changed from 7.0 to 7.1 (Cleanup)*

## **#4 - 2015-06-15 17:08 - Benjamin Mack**

- *Target version changed from 7.1 (Cleanup) to 7.4 (Backend)*