

DataONE R Client - Feature #4170

R D1Object.getData() should allow access to binary data

2013-11-08 21:37 - Ben Leinfelder

Status:	Closed	Start date:	2013-11-08
Priority:	Normal	Due date:	2014-09-10
Assignee:	Matthew Jones	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	DataONE R Client 1.1.0	Story Points:	
Milestone:	None		

Description

Current implementation converts the byte[] to a UTF-8 String. This is only appropriate for text-based data, of course, but not for a ZIP file.

Worked up a work-around for Sarah Clark and the GulfWatch project by overriding the getData method as below (taken from https://repository.dataone.org/software/cicore/trunk/itk/d1_client_r/dataone/R/D1Object-methods.R).

```
setMethod("getData", signature("D1Object"), function(x, fileName=NA) {
  jD1Object = x@jD1o
  if(!is.jnull(jD1Object)) {
    databytes <- jD1Object$getData()
    if(is.null(databytes)) {
      print(paste("Didn't find data in:", id))
      return()
    }

    if (!is.na(fileName)) {
      ## Write data to file
      jFileOutputStream <- .jnew("java/io/FileOutputStream", fileName)
      jInputStream <- .jnew("java/io/ByteArrayInputStream", databytes)
      ioUtils <- .jnew("org/apache/commons/io/IOUtils")
      ioUtils$copy(jInputStream, jFileOutputStream)
      returnVal = fileName
    } else {
      ## return data as string
      jDataString <- .jnew("java/lang/String", databytes, "UTF-8")
      if (!is.null(e<-.jgetEx())) {
        print("Java exception was raised")
        print(e)
        print(.jcheck(silent=FALSE))
      }
      dataString <- jDataString$string()
      returnVal = dataString
    }

    return(returnVal)
  }
})
```

History

#1 - 2014-09-10 20:38 - Matthew Jones

- Due date changed from 2013-11-08 to 2014-09-10
- Status changed from New to Closed

Moved issue to github: <https://github.com/DataONEorg/rdataone/issues/34>