Input and output arguments currently supported by GFAL Python API

Using the script to prestage (put link here!!) with the following options: -r 60 -l 600 the arguments passed by the client to the server for the srm BOL request:

request: srmBringOnlineRequest

```
arrayOfFileRequests
 requestArray
  sourceSURL
    srm://srm-lhcb.cern.ch/castor/cern.ch/grid/lhcb/production/DC06/phys-v2-lumi5/00001877/DST/00
  sourceSURL
 requestArray
arrayOfFileRequests

desiredFileStorageType PERMANENTdesiredFileStorageType

desiredLifeTime 600 desiredLifeTime

transferParameters  arrayOfTransferProtocols




arrayOfTransferProtocols transferParameters
```

Answer of the CASTOR server:

```
returnStatus
    statusCode SRM_REQUEST_QUEUED statusCode
    explanation explanation
returnStatus

requestToken 5275365 requestToken

arrayOfFileStatuses
  statusArray
     sourceSURL srm://srm-lhcb.cern.ch/castor/cern.ch/grid/lhcb/production/DC06/phys-v2-lumi5/000
sourceSURL
    status
       statusCode SRM_REQUEST_QUEUED statusCode
       explanation explanation
    status
    fileSize 246689603 fileSize
    estimatedWaitTime 5 estimatedWaitTime
    remainingPinTime 600 remainingPinTime
  statusArray
arrayOfFileStatuses
```

Answer of dCache server:

```
returnStatus xsi:type="ns1:TReturnStatus" statusCode xsi:type="ns1:TStatusCode"  SRM_REQUEST_QUEU
    explanation xsi:type="xsd:string"
        at Wed Feb 25 16:05:57 CET 2009 state Pending : created
    explanation
returnStatus

requestToken xsi:type="xsd:string" -2071654185 requestToken

arrayOfFileStatuses xsi:type="ns1:ArrayOfTBringOnlineRequestFileStatus"
    statusArray xsi:type="ns1:TBringOnlineRequestFileStatus"
```

```
        sourceSURL xsi:type="xsd:anyURI" srm://gridka-dCache.fzk.de/pnfs/gridka.de/lhcb/disk-only/
        status xsi:type="ns1:TReturnStatus"
            statusCode xsi:type="ns1:TStatusCode" SRM_REQUEST_QUEUED statusCode
            explanation xsi:type="xsd:string" TQueued explanation
        status
        fileSize xsi:type="xsd:unsignedLong" xsi:nil="true"
        estimatedWaitTime xsi:type="xsd:int" 4 estimatedWaitTime
        remainingPinTime xsi:type="xsd:int" xsi:nil="true"
    statusArray
arrayOfFileStatuses
```

In summary:

- estimatedWaitTime is returned by both dChace and CASTOR servers but is not returned by GFAL client. Opened Savannah bug 47489 . Remi said it will be implemented soon, in the next release (not the one which is already in certification, the next one)
- remainingPinTime is returned by CASTOR (not by dCache, this is a known issue: bug # 4154 in dCache RT) and is correctly returned by GFAL.bug already opened (fixed when?)
- fileSize is returned by CASTOR and not by dCache (when the request is queued). And GFAL doesn't return it. In the following polling, once the request is done, then also dCache returns the file size. doesn't seem to be important
- DesiredTotalRequestTime is not even passed by GFAL to the SRM server (it is implemented for prepareToGet in the current version of GFAL, but not for BringOnline. In the version in certification it is implemented also for BringOnline).Finally, after the 26 Feb meeting, it was decided that this parameter is optional
- TotalRemainingRequestTime: not set in dCache. This parameter is reported in the following srmBringOnlineResponse (the prestage_status calls), not in the first one (why?) but its value is not set. In CASTOR, this parameter is not even present in the trace file. in the last meeting, Feb 26th, it has been decided that it's not important

-- ElisaLanciotti - 25 May 2009

This topic: LCG > PrestagingTestsGfalApiArgs
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