

Bookkeeping Client documentation

The new Bookkeeping implemented inside DIRAC3. BKK client provide a following methods:

- **getProductionInformation:** Input: Production number
Output: number of jobs, number of files(sim,digi,dst..), ConfigName and version, eventypeid, processing pass (step0,step1...) Number of events.
- **getSizeOfFiles** Input:Production number
Output:Size of production *exists Input: lfn list
output:dictionary: keys lfns, value True or False
- **getFileMetadata** input: lfn list
output: dictionary: keys:lfn, value:metadata
- **getReverseAncestors** input: lfns,depth
output: dictionary: keys:lfn, value:ancestors
- **getLFNsByProduction** input:production number
output: lfns list
- **getProductions** input: configName, configVersion, eventTypeId
output: productions

New XML schemas:

Offline:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Job SYSTEM "book.dtd">
<Job ConfigName="MC" ConfigVersion="2008" Date="2008-07-29" Time="11:09">
  <TypedParameter Name="Production" Value="00000037" Type="Info"/>
  <TypedParameter Name="Name" Value="zoli" Type="Info"/>
  <TypedParameter Name="Location" Value="LCG.TCD.ie" Type="Info"/>
  <TypedParameter Name="WorkerNode" Value="wn047.grid.cs.tcd.ie" Type="Info"/>
  <TypedParameter Name="ProgramName" Value="Gauss" Type="Info"/>
  <TypedParameter Name="ProgramVersion" Value="v26r0" Type="Info"/>
  <TypedParameter Name="DiracVersion" Value="0 3 2" Type="Info"/>
  <TypedParameter Name="StatisticsRequested" Value="500" Type="Info"/>
  <TypedParameter Name="NumberOfEvents" Value="500" Type="Info"/>
  <TypedParameter Name="DiracJobId" Value="5243" Type="Info"/>
  <TypedParameter Name="EventInputStat" Value="34" Type="Info"/>
  <TypedParameter Name="ExecTime" Value="3.1" Type="Info"/>
  <TypedParameter Name="FirstEventNumber" Value="1" Type="Info"/>
  <TypedParameter Name="Generator" Value="generator program name" Type="Info"/>
  <TypedParameter Name="GeometryVersion" Value="v30r14" Type="Info"/>
  <TypedParameter Name="GridJobId" Value="string" Type="Info"/>
  <TypedParameter Name="JobStart" Value="2008-07-17 03:29" Type="Info"/>
  <TypedParameter Name="JobEnd" Value="2008-07-18 04:29" Type="Info"/>
  <TypedParameter Name="LocalJobId" Value="269133.ce0003.m45.ihep.su" Type="Info"/>
  <TypedParameter Name="WNCPUPower" Value="2660.887" Type="Info"/>
  <TypedParameter Name="WNCPUTime" Value="18373.57" Type="Info"/>
  <TypedParameter Name="WNCache" Value="4096KB" Type="Info"/>
  <TypedParameter Name="WNMemory" Value="901596KB" Type="Info"/>
  <TypedParameter Name="WNModel" Value="Intel (R) Xeon (R) CPU5150@2.66GHz" Type="Info"/>
  <Quality Group="Production Manager" Flag="Not Checked"/>
  <OutputFile Name="/lhcb/production/DC06/phys-v4-lumi2/00000037/SIM/0001/00000037_00014zoli_1.
    <Replica Name="http://lhcb-logs.cern.ch/storage/lhcb/production/DC06/LOG/00000037/0001/00014
  <Parameter Name="EventTypeId" Value="13144003"/>
  <Parameter Name="EventStat" Value="498"/>
  <Parameter Name="FileSize" Value="388052388"/>
  <Parameter Name="MD5Sum" Value="6182b27a8df3f9236d010e965c084320"/>
  <Parameter Name="Guid" Value="AA8BFD89-245D-DD11-95EF-0019B9F40F9C"/>
  <Parameter Name="CreationDate" Value="19-JUL-08 04.29"/>
  <Parameter Name="Adler32" Value="string"/>
```

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</OutputFile>
<OutputFile Name="/lhcb/production/DC06/phys-v4-lumi2/00000037/LOG/0001/Gauss_00000037_00014z
  <Replica Name="http://lhcb-logs.cern.ch/storage/lhcb/production/DC06/LOG/00000037/0001/00014z
  <Parameter Name="MD5Sum" Value="7f379602a5c9e91f0d65c91a0ae318fe"/>
  <Parameter Name="Guid" Value="7F379602-A5C9-E91F-0D65-C91A0AE318FE"/>
</OutputFile>
<SimulationCondition>
  <Parameter Name="SimDescription" Value="DC06 simulation 2 10**32"/>
</SimulationCondition>
</Job>
```

Online:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Job SYSTEM "book.dtd">
<Job ConfigName="LHCb" ConfigVersion="Test" Date="2008-07-29" Time="11:09">
  <TypedParameter Name="Production" Value="12" Type="Info"/>
  <TypedParameter Name="Name" Value="7678123" Type="Info"/>
  <TypedParameter Name="Location" Value="LHCb Online" Type="Info"/>
  <TypedParameter Name="ProgramName" Value="Moore" Type="Info"/>
  <TypedParameter Name="ProgramVersion" Value="v11r34" Type="Info"/>
  <TypedParameter Name="NumberOfEvents" Value="500321" Type="Info"/>
  <TypedParameter Name="ExecTime" Value="90000.0" Type="Info"/>
  <TypedParameter Name="JobStart" Value="2008-07-17 03:29" Type="Info"/>
  <TypedParameter Name="JobEnd" Value="2008-07-18 04:29" Type="Info"/>
  <TypedParameter Name="FirstEventNumber" Value="29" Type="Info"/>
  <TypedParameter Name="RunNumber" Value="7678123" Type="Info"/>
  <TypedParameter Name="FillNumber" Value="29" Type="Info"/>
  <TypedParameter Name="TotalLuminosity" Value="1212" Type="Info"/>
  <Quality Group="Production Manager" Flag="Not Checked"/>
  <OutputFile Name="/lhcb/data/CCRC08/RAW/LHCb/CCRC/29463/029463_0000069110_zoli7678123.raw" Type="
    <Parameter Name="MD5Sum" Value="24F71879BA006B91FB8ADC529ACB7CC6"/>
    <Parameter Name="EventTypeId" Value="30000000"/>
    <Parameter Name="EventStat" Value="429"/>
    <Parameter Name="FileSize" Value="1640316586"/>
    <Parameter Name="Guid" Value="3cc1b6fe-63c8-11dd-852f-00188b8565aa"/>
    <Parameter Name="FullStat" Value="300000"/>
    <Parameter Name="Luminosity" Value="1212"/>
    <Parameter Name="CreationDate" Value="2008-07-18 04:29"/>
  </OutputFile>
  <DataTakingConditions>
    <Parameter Name="Description" Value="first beam"/>
    <Parameter Name="BeamCond" Value="Collisions"/>
    <Parameter Name="BeamEnergy" Value="450.0"/>
    <Parameter Name="MagneticField" Value="Down"/>
    <Parameter Name="VELO" Value="INCLUDED"/>
    <Parameter Name="IT" Value="string"/>
    <Parameter Name="TT" Value="string"/>
    <Parameter Name="OT" Value=""/>
    <Parameter Name="RICH1" Value="string"/>
    <Parameter Name="RICH2" Value="string"/>
    <Parameter Name="SPD_PRS" Value="string"/>
    <Parameter Name="ECAL" Value="string"/>
    <Parameter Name="HCAL" Value="string"/>
    <Parameter Name="MUON" Value="string"/>
    <Parameter Name="L0" Value="string"/>
    <Parameter Name="HLT" Value="string"/>
    <Parameter Name="VeloPosition" Value="Open"/>
  </DataTakingConditions>
</Job>
```

-- ZoltanMathe - 28 Jul 2008

New XML schemas:

This topic: LHCb > BkkClient

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