EMI-1 WN middleware support in ATLAS

- **Local setup EMI-1/EMI-2 aware already in place in the sites since a few weeks**
    - WN tarball not yet supported, will need a testbed to include them

- **EMI-1 WN (SL5)**
    - Tested successfully in several sites
    - No particular problem found, but the local setup needed to be tweaked to reach the new library locations
    - DPM sites do not have libdpm.so compiled at 32 bits
        - No direct access to storage elements via rfio
        - The support was supposed to be there since last month but was not included, it was declared it will be available in EMI-2 only
          https://ggus.org/tech/ticket_show.php?ticket=81508
    - No 32-bit lfc support

EMI-2 WN middleware support in ATLAS

- **EMI-2 WN (SL5)**
  - Not so many differences between EMI-1 and EMI-2
  - Several nodes already in production in Roma and Frascati
  - No problem from the point of view of ATLAS
  - DPM sites still do not have libdpm.so compiled at 32 bits
    - Beta support for them, but no time estimate yet, will need to push again
  - No 32-bit lfc support yet, could come together with the dpm libs
    - Possible tweak to install the beta libs, but VERY tricky!
  - Some problems with the nagios tests
    - ATLAS test running the direct storage access tests with a 32 bit release
      - should have been fixed by Alessandro Di Girolamo
      - non-critical test
    - OPS tests not recognizing EMI-2
      - Wrong regexp, should be fixed

- **EMI-2 WN (SL6)**
  - SL6 not yet supported by ATLAS
  - Native SL6 build started but still experimental, no time estimate yet
  - We should have a compatibility (SL5 executables over SL6) available by the end of this year

EMI-2 DPM

- **The DPM version 1.8.2 in EMI-1 is not really useful for ATLAS**
  - **Some instabilities, incomplete xrootd support for federations, only the EMI-2 version now really supported**

- **The DPM version 1.8.3 in EMI-2 should be the one to be used**
  - **https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm**
  - **The current version needs several manual tweaks to be installed**
    - Globus threading model on the head node
      - echo 'export GLOBUS_THREAD_MODEL=pthread'>> /etc/sysconfig/dpm
      - echo 'export GLOBUS_THREAD_MODEL=pthread' >> /etc/sysconfig/dpnsdaemon
    - Manual xrootd installation, including a patched xrootd version from a private repository
      - https://svnweb.cern.ch/trac/lcgdm/wiki/Dpm/Xroot/Setup
  - **Not really tested, only early adopters**
  - **We'll probably need to extend the upgrade deadline (Oct 31) by 1 month**