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# PandaSchedConfig

# Introduction

The schedconfig table is filled with information from a variety of sources. It is filled by autopilot/pilotController.py which will overwrite most manual changes to the Db. It is used by the Panda server, AutoPilot and the pilot itself from the WN. Each row represents a queue to which pilots can be submitted. There is 1 or more queues per site.

## Modifying schedconfig

For information on modifying schedconfig see the 'Managing the AutoPilot databases' section of the AutoPilot twiki [↗](#).

## Sources

Sources of information are:

- Top-level EGEE BDII: site info, releases, GOC name
- TiersOfATLAS: ddm site, SRM endpoint fo SE host and path
- pilotController.py: cloud structure, local overrides, e.g. stage-in tool dccp
- SAM Db: site availability, maintenace info - Not yet implemented

The ddm site to GOC site mapping is currently done manually in pilotController.p but can be done from ToA 'alternateName'.

## Table fields

schedconfig is a table in the PandaMetaDB Db. I try to split the 57 fields into groups.

## Identifiers

- siteid - Randomly assigned human name for a site, migrating to GOC name for EGEE sites.
- nickname - constructed from the GOC name, the short CE hostname, queue and jobmanager type, e.g. RAL-LCG2-lcgce02-grid700M-lcgpbs
- cloud

## Data Handling

- ddm - ddm site name as in TiersOfATLAS(ToA)
- lfchost - LFC\_HOST hostname, usually the at T1 of the cloud. Taken from ToA.
- se - a comma seperated list of the SE(s) local to the site srm://heplnx204.pp.rl.ac.uk
- seproddpath - Output files are stored in this physical directory. Default is base atlas path on SE plus /dq2. Can vary for local disk pool reasons.
- lfcpddpath - The long lfn starts with /grid/atlas/dq2
- sepath - as above but for analysis, base plus /users/pathena
- lfcpath - /grid/atlas/users/pathena
- copytool -
- copytoolin -
- copyprefix -
- copyprefixin -

## Pilot Submission

- gatekeeper - the hostname
- jobmanager - the part after jobmanager-, e.g. lcgpbs,pbs,sgc,lcgcondor
- queue - concatenation of above, e.g. lcgce02.gridpp.rl.ac.uk/jobmanager-lcgpbs ( WHY BOTH?)
- localqueue - the queue name, often "atlas"
- nqueue - the number of pilots to keep queued

## Pilot modifiers

- status [onlineloffline|draining] - the value seen by the pilot is an OR of site status from schedconfig and cloud status from the cloud table.
    - ◆ draining - pilots ask for jobs, server gives jobs, no new jobs assigned to the site
    - ◆ offline - pilots do not ask for jobs, server does not give job(?), no new jobs assigned to the site. The pilot sees offline if the schedconfig.status='offline' OR the cloud status from the cloud table is offline.
  - recoverdir
  - retry
  - envsetup
  - envsetupin
- 

### Major updates:

-- RodWalker - 26 Nov 2007

**Responsible:** RodWalker

**Never reviewed**

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