



# ADCoS, Comp@P1, DAST, AMOD, Cloud Squad: Roles

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# Outline

- ADC Operations Shift Teams – Roles
  - Comp@P1 [TWiki](#)
  - ADCoS [TWiki](#)
  - DAST [TWiki](#)
  - AMOD
  - Cloud Squad [TWiki](#)
- Manpower
- Automation Status & Plans
- Conclusion

# Comp@P1 Shift

- Monitor merge, reconstruction and transport of all raw and processed data at T0
- Monitor functionality and integrity of ATLAS IT services at CERN
- Monitor export of collision data (raw and processed) from T0 at CERN to T1s
- Monitor export of muon calibration data from Tier-0 to the calibration centers at selected T2s
- **Manual actions:** create GGUS tickets
- **Automation:** 1-click-away submission of T0 processing savannah tickets, 1-click-away task truncation
- Communicate with ADCoS, escalate to AMOD or T0 expert on call

# ADC Operations Shift (ADCoS)

- Monitor official data processing on ATLAS grid
  - Data reprocessing, Group production, MC simulation, Data transfers
- **Manual actions:**
  - Create GGUS tickets to sites, Savannah tickets
    - Dig into logs
  - Manipulate queues, clouds (set online/offline/test/brokeroff)
  - Submit test jobs
  - Exclude/Include T2 spacetokens in DDM when site fails heavily without downtime declared
  - Monitor ADC central services (when no Comp@P1 on duty)
- **Automation:** DDM spacetokens on downtime auto-excluded
- Communicate with sites/Cloud Squad, Comp@P1, AMOD

# Distributed Analysis Support Team (DAST)

- First-line ATLAS grid user support – site related issues
  - SW-related help provided in another e-group
- **Manual actions:**
  - Answer user's questions, help with issues, point to existing ATLAS documentation
    - **Missing one-way channel to announce news/issues to ATLAS grid users**
  - Escalation to ADC subsystem experts
  - Create GGUS tickets
  - *Update ATLAS grid user doc*
- **Automation:** ANALY queue tested&auto-excluded by HammerCloud
- Communicate with subsystem experts, ADCoS

# ADC Manager on Duty (AMOD)

- Oversee ADC activities
- Report at daily WLCG meetings on behalf of ATLAS, attend ATLAS daily run meetings
- **Manual actions:**
  - Stop/Start/Throttle central services
  - Create ALARM GGUS tickets to T0 and T1s sites
  - Exclude/Include T1 spacetokens in DDM when site fails heavily without downtime declared
- **Automation:** DDM spacetokens on downtime auto-excluded
- Communicate with ADC Shift Teams, CERN IT services, T1s, T0 on call, ATLAS Control Room

# Cloud Squad

- Team of ATLAS contacts from sites ensure that ATLAS sites perform well in ATLAS production and analysis activities
  - Mutual help with ATLAS-specific issues (SW installation, data transfers, ...)
- **Manual actions:**
  - Respond to GGUS tickets, Savannah tickets
  - Manipulate queues, or ask ADCoS to do so
  - Submit test jobs, or ask ADCoS to do so
- **Automation:** notification about service exclusion/inclusion
- Communicate among sites/Cloud Squad, with ADCoS or AMOD

# Manpower

- Comp@P1: well covered 1<sup>st</sup> half of the year, may need 5-10 new shifters during 2011
- ADCoS: well covered
  - ADCoS Senior shifters per timezone: AP ~15, EU ~20, US ~15
  - currently do not accept new Trainees
- DAST: 9 EU timezone and 7 US timezone shifters
  - Recent training activities in EU timezone: 1 person finished training, 2 being trained, and 4 will start training soon
  - **New colleagues in US timezone are warmly welcome!**
- AMOD: well covered, 4 new colleagues to be trained soon
- Cloud Squad



# Future plans

- Goal #1: automation
  - of site/service exclusion/inclusion
    - Complex issue: definition of exclusion metric, it's implementation, tuning, ...
    - AGIS, ATLAS SSB crucial role
  - of production test job submission
    - Plan for spring'11
- Continuously: improve ADC monitoring tools

# Conclusions

- ADC Operations run well with the current shift teams, but...
- Need more automatised site/service exclusion
  - + less load on ADC Shift Teams
- ADC Monitoring tools continuously improving
  - But we need better monitoring for frontier/squid, pilot factory, ...
- Need to improve one-way communication about news and grid issues with ATLAS grid users
- Thank you for your attention!
- Questions?