

# ATLAS Distributed Computing

## Communication and documentation

Technical Interchange Meeting  
*2025-01-23*

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- 2024 saw the start of the ATLAS Documentation Weeks
  - Decision by ATLAS management via the OAB, first one in April '24
  - Focus a full work week on the following tasks
    - Closing old tickets
    - Updating permissions on issue trackers
    - Checking / closing / cleaning up old TWikis
    - Updating broken links on TWikis
    - Moving pages from webafs to webeos
    - Cleaning up / closing old egroups
    - Adding comments to code, doxygen files, READMEs, and so on to repositories
- In ADC, we did a [documentation report](#)
  - Tying to document the documentation
- Also lots of effort from the various teams
  - [PanDA](#) and [Rucio](#) run their own documentation setups
- Considerable updates to the [ADC TWiki](#)
  - Mostly due the reorganisation that happened in October '23
  - But still... continuous valid complaints about “where can I find out about X”
  - And the ongoing problem with multiple people editing the same page

- Documentation service now hosted by CERN IT based on mkdocs-material
  - First trials to see if it can be a viable alternative to TWiki
    - <https://atlas-computing.docs.cern.ch/>
    - <https://gitlab.cern.ch/atlas/computing-docs/atlas-computing-docs>
  - Personal opinion: It's amazing
    - It forces us to organise our content properly -> no more random unconnected snippets
    - Content is written in Markdown -> no more TWiki idiosyncrasies / syntax
    - Backed by version control -> no more lost content due to multiple edits
    - Search works properly
    - It's fast!
    - We can install our own [mkdocs plugins](#) if we want
- Objective for 2025
  - Migrate all (semi-)static documentation from TWiki to the hosted documentation service
  - Started with a straightforward organisation reflecting operational procedures
  - Everyone can submit merge requests to the documentation
    - Markdown enabled WYSIWYG WebIDE built-in
    - For now, selected few can accept and merge
    - We can easily hand out access to people who want to contribute more
  - We should agree on a marker for the migrated TWiki pages ("Go here for new version")

- Current information flow from the *coordination* point of view
- We have several organised meetings a week

## Meetings (CERN time)

Day	Time	Period	Meeting	Indico	Zoom	Documents	Participants	Comments
Mon-Fri	09:00	Daily	ADC Morning Meeting	<a href="#">Indico</a>	<a href="#">Zoom</a>	<a href="#">Minutes</a>	CRC, DDM Operations, DPA	
Monday	10:00	Biweekly	ATLAS - IT Storage Operations	<a href="#">Indico</a>	<a href="#">Zoom</a>		DDM Coordinators, DDM Operations	
Monday	10:30	Weekly	ATLAS Offline Activity Board	<a href="#">Indico</a>	<a href="#">Zoom</a>		ADC Coordinators	
Monday	14:00	Monthly	IT-ATLAS Coordination	<a href="#">Indico</a>	<a href="#">Zoom</a>		ADC Coordinators	
Monday	14:00	Quarterly	IT Technical Users Meeting	<a href="#">Indico</a>			ADC Coordinators	
Monday	15:00	Weekly	WLCG Operations	<a href="#">Indico</a>	<a href="#">Zoom</a>	<a href="#">Minutes</a>	CRC	
Monday	15:00	Weekly	Analysis Shifts	<a href="#">Indico</a>			Shift Coordination, Shifters	
Tuesday	09:15	Weekly	DDM Dev Ops	-	<a href="#">Zoom</a>	<a href="#">Minutes</a>	DDM Coordinators, DDM Development, DDM Operations	
Tuesday	10:00	Irregular	WLCG pre-GDB	<a href="#">Indico</a>			As required by topics	
Tuesday	10:30	Weekly	ATLAS S&C Management	-	-	-	ADC Coordinators	Closed meeting
Tuesday	11:00	Weekly	CRC Coordination	<a href="#">Indico</a>			CRC Coordination, CRC	
Tuesday	12:00	Biweekly	CREM	<a href="#">Indico</a>	<a href="#">Zoom</a>		ADC Coordination	
Tuesday	14:00	Weekly	PanDA Meeting	-	<a href="#">Zoom</a>	-	PanDA developers	Round table meeting
Tuesday	15:30	Weekly	ADC Weekly	<a href="#">Indico</a>	<a href="#">Zoom</a>		ADC	
Tuesday	16:30	Weekly	ADC Collaboration Board	-	-	-	ADC Coordinators, ADC Area Coordinators	Closed meeting
Tuesday	17:00	Weekly	Data Management	<a href="#">Indico</a>	<a href="#">Zoom</a>		DDM Coordinators, DDM Development, DDM Operations	
Tuesday	17:00	Weekly	ADCoS Shifts	<a href="#">Indico</a>			Shift Coordination, Shifters	
Wednesday	09:15	Weekly	Tier-0 Operations	-	<a href="#">Zoom</a>	<a href="#">Minutes</a>	DDM Operations, DPA, Tier-0	
Wednesday	10:00	Monthly	WLCG GDB	<a href="#">Indico</a>			As required by topics	
Wednesday	16:00	Monthly	WLCG DOMA General	<a href="#">Indico</a>			ADC Coordination, DDM Coordination	Last Wednesday of the month
Wednesday	16:30	Biweekly	WLCG DOMA BDT	<a href="#">Indico</a>			DDM Development, DDM Operations	
Thursday	09:15	Weekly	Central Services	-	<a href="#">Zoom</a>	<a href="#">Minutes</a>	ADC Coordination, DDM Operations, DPA	
Thursday	10:00	Weekly	DPA	<a href="#">Indico</a>	<a href="#">Zoom</a>	<a href="#">Minutes</a>	DPA	
Thursday	10:15	Weekly	ADC and S&C Management	-	-	-	ADC Coordinators	Closed meeting
Thursday	15:00	Weekly	Rucio Development	<a href="#">Indico</a>			DDM Development, DDM Operations	
Thursday	15:30	Weekly	Workload & Workflow Management	<a href="#">Indico</a>	<a href="#">Zoom</a>		WFMS Coordinators, WFMS Development, WFMS Operations, DPA	
Thursday	15:30	Monthly	WLCG Operations Coordination	<a href="#">Indico</a>	<a href="#">Zoom</a>	<a href="#">ADC Notes</a>	ADC Coordinators	First Thursday of the month
Friday	09:30	Weekly	PanDA Meeting	-	<a href="#">Zoom</a>	-	PanDA developers	Round table meeting
Friday	16:00	Biweekly	ADC Monitoring Working Group	<a href="#">Indico</a>	<a href="#">Zoom</a>	<a href="#">Twiki</a>	ADC Coordination	

- Current information flow from the *coordination* point of view
- We have several organised meetings a week
  
- The central point of communication dissemination is the Operations Morning Meeting, 09:00 CERN time daily
  - Chaired by Ivan
  - Content is brought by everyone via the [pre-filled minutes](#) and is typically about ongoing issues
  - CRC and DPA usually bear the brunt of writing the notes but everyone is welcome
  - The discussions and eventual decisions are then sent to [ELISA](#) shortly after the meeting with the title “News of the day”
    - You can subscribe there to have it pushed into you mailbox
  - If you have a topic that you want us to discuss, but can’t make it to the meeting, don’t worry
    - Add the topic to the minutes, be descriptive
    - We will discuss it and get back to you
  
- This gives us usual cycle times of topics <24h
  - We understand that might not be ideal for all cases

- Current information flow from the *coordination* point of view
- We have several organised meetings a week
  
- The second important meeting is the ADC Weekly
  - Chaired by ADC Coordination
  - This is to give quick reports by the various areas relevant to ADC
    - Physics Validation, Data reprocessing, Derivations, MC Production
    - Rotating reports by the ADC areas: Analysis, Production, Data Management, Workflow Management
    - CRC weekly summary of the most important daily morning meeting topics
    - Round table
  
  - This meeting is the prime place to learn about upcoming campaigns/workloads
    - This includes long-planned reprocessing, big derivations, etc...
    - Several of the associated areas meet at the OAB early Monday
    - If it's not presented here, it's very unlikely that we ADC Coordinators know anything more
  
- These two meetings are our prime communication flow (daily/weekly)

# What about the flurry of other meetings?

- ADC Coordination tries to attend as much as possible all other meetings
  - Learn about ongoing topics in the teams
  - Unblock/inform if something is unclear
- However, we are rarely experts in most of the meetings we attend
  - We trust you to make your own plans and decisions
  - Sometimes we might gently nudge you in a particular direction

- ADC has one public chat room with **best effort support**

<https://mattermost.web.cern.ch/adcvcr>

## ADC Virtual Control Room

- In particular, the channel

<https://mattermost.web.cern.ch/adcvcr/channels/adc-operations>

- Caveat emptor  
**Just because you drop a message there,  
doesn't mean you'll get a realtime answer!**



- Email is still the preferred method of communication if delays are expected
  - Timezones, holiday periods, investigation time needed, archive/record keeping, ...
- Clearly established mailing lists
- ATLAS users who need general support
  - Already hosted by Discourse, new email address
- Specific help with data management
  - [hn-atlas-dist-analysis-help@cern.ch](mailto:hn-atlas-dist-analysis-help@cern.ch)  
[atlas-comp-dist-analysis-help@cern.ch](mailto:atlas-comp-dist-analysis-help@cern.ch)
- Specific help with workflow management
  - [atlas-adc-ddm-support@cern.ch](mailto:atlas-adc-ddm-support@cern.ch)
- If you don't know who to contact
  - [atlas-adc-dpa@cern.ch](mailto:atlas-adc-dpa@cern.ch)
  - [atlas-adc-expert@cern.ch](mailto:atlas-adc-expert@cern.ch)
- The experts on these mailing lists will advise on making tickets for the various systems
- If you filed a ticket directly, please still consider sending an email too

- We have ADC area coordinators who are experts in their field
- Do not hesitate to contact them directly
- There is no need to go straight to ADC Coordination for everything :-)

PHYSICS
<b>Production Coordination</b> <i>M. Borodin</i>
<b>Analysis Coordination</b> <i>A. Forti</i>
<b>Centralised Production</b> Monte Carlo Production Group Production Data Reprocessing Physics Validation HLT Reprocessing
<b>Physics Analysis</b> User Analysis Tools Analysis Model Group DAST

FABRICS
<b>Coordination</b> <i>I. Glushkov</i>
<b>Infrastructure</b> Tier-0 Grid HPC Cloud BOINC Analysis Facilities
<b>Operations</b> Computing Run Coordination DA Operations DPA Operations Central Services CRIC HammerCloud Monitoring ADCoS

DATA MANAGEMENT
<b>Coordination</b> <i>S. McKee, P. Vokac</i>
<b>System</b> Rucio
<b>Operations</b> System Deployment DDM Central Operations Monitoring
<b>Research</b> Networks Caches Storage Cloud

WORKFLOW MANAGEMENT
<b>Coordination</b> <i>R. Walker, F. Barreiro Megino</i>
<b>System</b> Workflow Definition Workload Management Workload Execution
<b>Operations</b> System Deployment Monitoring
<b>Research</b> Data Analytics Analysis Facilities Cloud HPC

- This is handled at the experiment level
- Information disseminated on a need-to-know basis by experiment security liaison  
→ [Mario.Lassnig@cern.ch](mailto:Mario.Lassnig@cern.ch)
- Security incidents affecting ATLAS MUST be sent to [atlas-csirt@cern.ch](mailto:atlas-csirt@cern.ch) ONLY
  - “Cyber-Security Incident Response Team”
  - Experiment security liaison will follow-up on a need-to-know basis
  - Do not send to public mailing lists
  - Mention to CSIRT any threads/follow-ups with your internal cyber security programmes

# What about problems with non-ADC systems?

- There have been recent cases where third-party systems had issues
  - Used by ADC, maybe even deployed, but neither developed nor supported by ADC
- In these cases, please notify ADC Fabrics Coordinator who will advise
- This hinges on the dedication of individuals who take responsibility to fix things
- If ADC Fabrics Coordination knows about these efforts, there is the chance to streamline the communication with the third-party-systems
  - And if necessary, get ADC Coordination to intervene