

Original link (Requires Credentials): <https://ictwiki.alma.cl/twiki/bin/view/Main/EleventhAcsWorkshop>

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Sharing of information

The acs-discuss mailing list is the official way ACS communicates with its customers and we are going to use that for this workshop too. Make sure to be subscribed to the mailing or drop us an email.

There is also an email-based interface for users of your list; you can get info about using it by sending a message with just the word 'help' as subject or in the body, to: acs-discuss-request (at) eso.org

When

From November 4th to 6th, 2014. The ACS team will also be available for informal chats during Monday 3rd and Friday 7th.

Where

The workshop will be held at ESO premises in Garching, Germany. The list of meeting rooms will be updated as soon as confirmed.

Logistics info

We reserved 2 meeting rooms for the workshop in the ESO HQ premises in Garching; both the rooms are close to the main entrance and close to each other.

- old council room (formally HQ-Fornax) is the main meeting point for plenary sessions and the room where the basic course will be held.
- room 227 (formally HQ-Volans) is reserved for the advanced track

Water and cookies will be available in both the rooms but coffee will be available only in the council room. If you want an *espresso* or a chocolate then ESO cafeteria is very close and the ideal place for a short break.

Light lunches will be served every day at the council room at 12.30 (aprox).

The welcome reception will be held the first day Tuesday, at 17.30 in the in the HQ-E cafeteria (one floor below the new cafeteria). Everybody is invited to join and enjoy some drink and finger food.

Public wireless is available on the whole ESO premises: look at the signs one the walls to find the username and password to register.

There should be PC with a printer at the council room.

For the last day, our assistant, Iris, kindly offered to book few taxis to the airport leaving ESO at 17:00, 17:30 and 18:00. As it is not that easy to find a taxi in Garching, we suggest people to group to reach the airport with the same taxi. During the last day, there will be a paper to sign with your name for the final booking.

Boarding passes can be printed with the PC in the council room or sent to Iris by email.

Who

- [PicturesFromTheWorkshop](#)

Legenda of background colors:

-
- Instructors
- Advanced track
- Basic course

Name	Institute	Project	Basic Track	Advanced Track	C++	Java	Python
Andoni Arregi	GTD	ALMA		?			
Ana Babic	Rudjer Boskovic	CTA	?		?		?

Otger Ballester	IFAE	CTA					
Laura Barbas Calvo	CDT-IGN	ARIES21					
Marco Bartolini	INAF	SRT					
Florina Bufnea	ESO	ALMA					
Marco Buttu	INAF	SRT					
Alessandro Caproni	ESO	ALMA					
Marco Cefala'	Osservatorio Astronomico di Brera	ASTRI/CTA					
Vito Conforti	INAF IASF Bologna	CTA					
Pau Colomer	GTD	ALMA					
Francesco Dazzi	Max Planck Institut fur Physik	LST (CTA)					
Andrea Di Paola	INAF	ASTRI					
Anna O'Faolain de Bhroithe	DESY Zeuthen	CTA					
Armand Fiascon	LAPP	CTA					
Matthias Fuessling	DESY Zeuthen	CTA					
Gianluca Chiozzi	ESO						
Guillermo Gimenez de Castro	Mackenzie	LLAMA					
Jorge Ibsen	JAO (ESO)	ALMA					
Bogdan Jeram	ESO	ALMA					
Verma Khushbu	DESY Zeuthen	CTA					
Thierry Le flour	CNRS-LAPP	CTA					
Alisdair Manning	ESO	ALMA					
Miguel Man~as	GTD	ALMA					
Michael Mayer	HU Berlin	CTA					
David Melkumyan	DESY Zeuthen	CTA					
Christophe Moins	ESO	ALMA					
Koji Noda	Max-Planck-Institute for Physics	CTA					
Andrea Orlati	INAF	SRT					
Igor Oya	DESY Zeuthen	CTA					
Jean Luc Panazol	CNRS-LAPP	CTA					
Cristobal Pio Garcia	IFAE	CTA					
Sergio Poppi	INAF	SRT					
Alessio Porcelli	Geneva University	CTA					
Michael Ramolla	Universitaetsternwarte Bochum						
Jean-Christophe Roche	IRAM	ALMA					
Federico Russo	OATO	ASTRI/CTA					
Joseph Schwarz	Osservatorio Astronomico di Brera	CTA					
Tzu-Chiang Shen	JAO (AUI)	ALMA					

Patrick Sizun	CEA	CTA	z		z		
Heiko Sommer	ESO	ALMA			z	z	z
Vincenzo Testa	INAF	ASTRI/CTA		z	z	z	
Gino Tosti	University of Perugia/INAF	ASTRI/CTA		z	z	z	z
Scott Zang	NAOJ	ALMA	z				

Agenda

It is assumed that all participants are sufficiently knowledgeable about object oriented programming in C++, Java and/or python and familiar with CORBA. Links to relevant information can be found in the reference documentation (see below). The course is based on [previous experiences](#) that have been organized since 2004 and consists of a technical hands-on course using the ALMA Common Software (ACS) framework, alternated with short technical talks and discussions.

The advanced column is intentionally left open to decide items to discuss all together as the workshop evolves.

- Course project: [Observatory Software Toy Model](#)
- [Reference documentation](#)
- [Group Exercises](#)

November, 4th		
Time	Basic track activity	Advanced track activity
09:00-09:30	Erich's welcome and Introduction. Who is who	
09:30-10:30	Introduction to the ALMA Common Software Framework Jorge	Projects presentations (5min Laura+10mins Andrea+10min Mathias)
10:30-10:40	<i>Coffee break</i>	
10:40-11:00	Component/Container Model and Lifecycle Management Ale	Projects presentations (10mins Igor + 10min Joe or Gino + 10min Guillermo)
11:00-11:20	A walk through ACS functionality Pau	Porting ACS to other platforms and Linux distributions 1 (Guillermo, Joe, Andrea)
11:20-12:10	Group Exercise: Setting up the ACS working environment	Porting ACS to other platforms and Linux distributions 2
12:10-12:30	Project definition and group assignments Jorge	Documentations
12:30-13:30	<i>Lunch break</i>	
13:30-14:00	Project life-cycle and software engineering basics Jorge	The <i>Property Recorder</i> python tool (Igor)
14:00-14:20	Group exercise: Setting up a development environment	TBD
14:20-14:50	Software deployment: The configuration database Heiko	TBD
14:50-15:20	Demonstration: Setting up a test CDB with simulated components and a simple python component clien Ale	BulkData (Bogdan)
15:20-15:30	<i>Coffee break</i>	
15:30-16:00	Component implementation guidelines Ale and Bogdan	Generating state machines with ACS (Heiko)
16:00-17:15	Group exercise: Initial development	TBD
17:15-17:30	Group discussion: plans for next day.	GUIs
17:30	<i>Welcome reception</i>	

November, 5th		
Time	Basic track activity	Advanced track activity
09:00-09:30	Test driven development and automatic unit testing Jorge	TMCDB & tmcdb-explorer
09:30-10:00	Group exercise: First test and commit	TBD
10:00-10:15	Group exercise: First integration	TBD
10:15-10:45	Logging Systems Error Systems Miguel and Bogdan	TBD
10:45-11:00	<i>Coffee break</i>	
11:00-12:30	Group exercise: Component functionality development	OPC UA DevIO
12:30-13:30	<i>Lunch break</i>	
13:30-13:50	Characteristic components: BACI Properties and DevIOs Ale	TBD
13:50-15:30	Group exercise: Component functionality development (continued)	TBD
15:30-15:40	<i>Coffee break</i>	
15:40-17:00	Group exercise: Component functionality development (continued)	ACS Community Round Table
17:00-17:20	Group exercise: Last integration of the day	ACS Community Round Table (continuation)
17:20-17:30	Group discussion: plans for last day	TBD
17:30	<i>End of day</i>	
November, 6th		
Time	Basic track activity	Advanced track activity
09:00-09:30	Question and answers from previous day	ACS daemons (Ale)
09:30-11:00	Group exercise: Component functionality development (continued) : Logging and error handling additions	Complete BACI support in Java (Joe)
11:00-11:10	<i>Coffee break</i>	
11:10-12:10	Group exercise: Component functionality development (continued)	TBD
12:10-12:30	Discussion: Where do we stand, plans to finish the course project	TBD
12:30-13:30	<i>Lunch break</i>	
13:30-15:00	Group exercise: Finishing the component and test development	Status of Alma monitoring data handling (Heiko) reused slides
15:00-15:10	<i>Coffee break</i>	
15:10-17:00	Group exercise: Final project integration and testing	TBD
17:00-17:30	Round table: Final discussion and conclusions	TBD

Videoconference

Videoconference is available for the advanced and the basic course.

Basic course: sial in details for the meeting in Old council room:

- via video: "46101@[eso.org](mailto:46101@eso.org)" or alternatively "46101@134.171.42.27"
- via phone: 0049 89 307 6831

Advanced track: ial in details for the meeting in E227, Volans (ex DG room):

- via video: "46102@[eso.org](mailto:46102@eso.org)" or alternatively "46102@134.171.42.27"
- via phone: 0049 89 307 6832

List of topics for the advanced course



AdvancedTrackMinutes

Suggestions:

- **Joe Schwarz**
 - Deploying ACS on multiple hosts; use, configuration, management of ACS daemons with practical examples; setup on VM with both host & guest running ACS
 - Generating state machines with ACS
 - Code generation with XText -- version upgrade?
 - Porting to RHEL/CentOS/SL 7.x, Java 8
 - Query performance with TMCDB; progress on NoSQL solutions?
 - Complete BACI support in Java
 - I can also present a progress report on our refactoring of the TMCDB infrastructure, enhancements to the XText grammar, ...
- **Mattias Fuessling**
 - Documentation improvements
 - Integration with OPC UA servers via a generic DevIO / DataAccess library
- **Guillermo Gimenez**
 - Porting ACS to other platforms and Linux distributions
- **Jorge Ibsen**
 - [ACS Community](#). Follow up of the round table at SPIE 2014.
- **Andrea Orlati**
 - Porting from previous versions of ACS: known problems, experiences, migrate from 32 to 64 bits architectures
 - Bulk data transfer: which flavor of DDS?, Comparison with the old implementation based on CORBA A/V
- **Igor Oya**
 - If there is interest, we could explain our ACS Python tool named "Property Recorder" that we are using in one CTA prototype for storing monitoring data from properties in MongoDB. This tool is well suited for small setups.