

- 2022/3/11/11 - 11:11 UT
- Attendees
 - Contact Information
- Action Items from previous meeting
- Updates since last Meeting:
 - Announcements
 - Release Notes
- Planning
- Other institutions plans and proposed topics
- Any other business?
- Conclusions/Action Items

Organization	Attendee
ALMA	Tomas Staig Rosita Hormann Jorge Avarias Camila Martinez
CTA	Igor Oya
All	Andrea Bulgarelli Arkadipta, Constantin Steppa, Dmitriy Kostunin, Dominik Neise , Federico Russo , Gianluca Ghiozzi, Hasmik Gasparyan, Isaías, Juang, Kevin Munari, Luca Castaldini , Nicolo Parmiggiani, Valerio Pastore , Vito Conforti , David Melkumyan , Thomas Murach

Contact Information

- Doodle: <https://doodle.com/meeting/participate/id/boOQPvkb>
- Zoom Details:
 - Link:
 - Pass:
- Starting from scratch

Announcements

- **Maintenance**
 - ACS Command center properly handling Python container output
 - C++ Logging performance improvements
 - TAT tests stability (655/660 tests passing – still few tests randomly failing)
 - Use official Python site-packages directory (lib/pythonX.Y/site-packages)
 - Symlink lib/python lib/pythonX.Y available for transition period
 - Characteristic Components in Python now properly inherit BACI properties from ancestors
 - CORBA::Exception now inherits from std::exception
 - Decouple ACS from some Eclipse dependencies using Tycho
 - Merge ExternalDependencies and JavaDependencies in a single directory (\$ALMASW_INSTDIR/acsdeps)
 - Added report mechanism of Maven and Pip dependencies licenses
 - Refactoring of NC Publisher in Java to better handle errors, including CORBA timeouts
 - EventConverter reliability
 - Python logging no longer hangs if ACS (manager) is not running
 - Manager pings clients and containers asynchronously
 - Fix to C++ NC consumer thread checking status
 - acsStartJava to support add-opens parameter
- **Obsolescence Management**
 - Removal of Loki library
 - Java 17
 - Maven (3.8.5)
 - Eclipse (4.23)
 - Python Dependencies (24)
 - Java Dependencies (25)
 - Jakarta EE / Hibernate 6 / Spring 6 / SpringBoot 3 / Tomcat 10
- **C++ Modernization and Best Practices**
 - Some C++11 features adopted
 - Fixed warnings during compilation (g++ 8.5.0)
- **Security**
 - Component Caller Proposal and Implementation
- **Projects**
 - Recovered coverage functionality for Python, Java and C++
 - CDB API REST
 - BACI Properties Configuration Tool
 - ACS Jar files and packages can be deployed with Maven and Twine through 'make deploy' target
 - C++ Logging replacement for ACE Log (study)
 - ALMA WSU: BulkData Benchmarking and tuning

Release Notes

COMMON-2022JUN

- Obsolescence management
 - Maven (3.8.5)
 - Eclipse (4.23)
 - Removal of loki library – Replacement with standard C++11 functionality
 - Python Dependencies (10)
 - Java Dependencies (11)
- C++ Logging
 - Performance study
 - New C++ logging macro allowing to reuse logger instance
 - Performance improvement in logger XML parsing
- C++ modernization and best practices
 - The "using" statement was removed from header files
 - ACE_TSS replaced by C++11 TLS (Thread Local Storage)
 - Loki singleton replaced by C++11 functionality
 - ACS exceptions passed by reference
- ACS Command Center to properly handle Python output
- Component Caller API security proposal
- BulkDataNTOpenDDS now aligned with several improvements from BulkDataNT (RTI DDS) implementation
- Modules' test stabilization (10+ additional tests now working properly)

COMMON-2022AUG:

- Maintenance
 - RHEL 8 bug-fixes
 - Prevent flooding of logs from Castor
 - Prevent errors parsing log4j configuration files
 - Clean up of warnings in ACS' codebase
 - Component Caller fix for current version of Tornado
- [Component Caller API - Security Proposal](#)
- Component generator is now installed with ACS
 - Added Characteristic Component and BACI Properties support
- Maven and PyPI deploy version now configurable with ACS_DEPLOY_VERSION variable
- ACS Exception stack trace in Python should now be easier to read

COMMON-2022OCT

- Maintenance
 - Avoid pyenv rehash on ACS installation directories when there are no permissions
 - EventConverter now logs events being handled and problems during handling
 - Use official Python site-packages directory (lib/pythonX.Y/site-packages)
 - Symlink lib/python lib/pythonX.Y available for transition period
 - MonitoringSyncTool base schema fallback fixed
 - Codegen MANIFEST.MF no longer appears as modified after building ACS
 - Component generator improvements for Java
- Python coverage support for 'make test' is enabled with ACS_COVERAGE variable
 - Intended to use with build system only
- Obsolescence Management
 - Java Dependencies (14)
 - ACS JMS deprecated selector (csselector) replaced by ActiveMQ's selector
 - Extjars now being tracked as part of ExtProds with Pip
 - Python Dependencies (14)
 - Plus tracking of 68 transitive dependencies
 - ARCHIVE/ICD ExternalDependencies module installs third party dependencies using Maven and Pip

COMMON-2022DEC

- Prevent exceptions in BDNF destructor
- New function available to delegate default handling (logging) of CORBA exceptions, std::exception and non-standard exceptions
- New flag in acsMakeCheckUnresolvedSymbols script which suggests candidate libraries for missing symbols

COMMON-2023APR

- Maintenance
 - Small fix in generic handling of anonymous exceptions
 - Lowered log priority for optional BACI property parameters
 - MonitoringSyncTool to jump dummy parents in schema hierarchy
 - buildPython script improvements in problems detection
 - Characteristic Components in Python now properly inherit BACI properties from ancestors
 - Rename of non-standard internal files and classes in C++ logging system
- Obsolescence
 - Java 17 compatibility
 - TMCDB Explorer to make use of JPA Criteria API
- ACE/TAO retrieved from GitHub
- CORBA::Exception now inherits from std::exception
- EventConverter supports custom metadata in events and configuration of redis channel prefix/suffix
- Support for test coverage reports in Python, C++ and Java

COMMON-2023JUN

- Decouple ACS from some Eclipse dependencies using Tycho
- CDB API REST available
- BACI Properties Configuration Tool available
- ACE/TAO patches are now applied to cloned repositories directory structure
- Optional Maven execution during installation of ACS JAR files using MAKE_NOMAVEN environment variable
- Merge ExternalDependencies and JavaDependencies in a single directory
- <artifact>-flattened-pom.xml files are not present after running make
- Maven GroupId can now be configured with ACS_DEPLOY_GROUP environment variable
- Fix cdbWrite not handling strings correctly in some cases
- ACS Makefile POM files should allow parameterized repository ID
- Implement ComponentCaller API access policies

COMMON-2023AUG

- CDB API REST service implemented
- BPCT
 - Extended functionality to work with CDB API REST
 - Script to generate YAML configuration files from a currently configured CDB
- acsStartRemoteTmcdm script now has two additional options
 - --no-services: should only start up the containers.
 - --no-containers: should only start up the services.
- Fixed bugs related to CDB script commands (cdbRead and cdbjClearCache).
- Added report mechanism of Maven and Pip dependencies licenses
- Reduced critical zone protection block in loggingService, resulting in cleaner code and slight performance improvement
- Refactoring of NC Publisher in Java to better handle errors, including CORBA timeouts

COMMON-2023OCT

- Upgrade Jakarta EE, Hibernate 6.x, Spring 6.x, SpringBoot 3.x and Tomcat 10.x[11.x
- EventConverter: Improved handling of connection error to Redis
- PySimpleClient and requests package import together causes to wait for ACS manager
- ACS Maven commands should be made in batch-mode
- Upgrade Tycho and Eclipse versions for COMMON
- Notification Channel problems in thread checking NC status
- Java: Replace deprecated "new Type" for primitive wrapper classes in ACS
- Manager should ping clients asynchronously
- acsStartJava to support add-opens parameter
- Correct some ACS Phase A tests
- Misc
 - ALMA WSU
 - RHEL 9 / 10
 - Java 21 / 25
- 2023DEC
 - Python (3.12)
 - PyEnv (2.3.28) + (virtualenv plugin support)
 - Python Dependencies (TBD)
 - Java Dependencies (TBD)
- 2024APR
 - ACE/TAO
 - OmniORBpy
- 2024JUN+
 - Python Dependencies (TBD)
 - Java Dependencies (TBD)
 - C++ Logging replacement for ACE Log
- ACS to use capabilities from C++14, C++17 or C++20 standard
 - For CTA, it will be good to upgrade to C++17 or C++20.
 - Tomas Staig will send an email to other institutions to understand if have concerns or something special to consider.
- The community wants to access the ACS documentation. The proposed idea is to have relevant information for the 2024FEB release.
- ACS Workshop
 - Overall, the idea of having a new workshop is good. However, we will email the ACS community with a poll about what topics should be presented in this workshop, and the community will choose.
 - It was requested that the video sessions of past workshop sessions be uploaded and the broken links in the confluence pages where these links are updated.
- Old Twiki links
 - Some information is saved in the old twiki; when necessary, the information in the twiki can be requested, and the information will be uploaded to confluence so that everyone can have access.

- ☐ Send emails to other institutions about C++ upgrade.
- ☐ ACS documentation for the 2023FEB release
- ☐ Send an email to ACS community with poll about ACS workshop topics
- ☐ Share the link about code coverage (in confluence) with the community.

