Organization	Attendee
ALMA	Camila Martinez Tomas Staig Francisco Caro Jorge Avarias
APEX	
CTA	Vito Conforti Igor Oya Nariman Nakhjiri Joseph Schwarz Bernhard Lopez Kevin Munari
UTFSM	
ESO	Bogdan Jeram
LLAMA	Cesar Strauss
Others / Unknown	

Contact Information

- Doodle: https://doodle.com/meeting/organize/id/Ddw2NK8b
- Zoom Details:
  - Link: https://alma.zoom.us/j/89951868655?pwd=cmNxaHpZNUp4a3RXcjNCTDBiTXlBQT09
  - Pass: acs2022Q1

- Blog / Documentation
  - Completions
    - What is code generated from ACSERRDEF and what needs to be implemented by the developers?
    - Hands-on each programming language
      - Including the check of the completion's state
  - Alarm System documentation seems a bit stale
    - Is the latest documentation (~2014) still valid?
    - Could it be updated and moved to Confluence?
  - More simple examples for all programming languages
    - It seems Java has received more attention, but it would be nice to have examples in all programming languages

- 2021DEC + 2022FEB + 2022APR Releases
- ACS Changes

  - Obsolescence Management Roadmap

    - Script to analyze Python and Java dependencies
      - Compare information from Maven/Pip, installed packages and Python Dependencies and Java Dependencies pages
    - Java (15 changes)
      - Compatibility with Java 11 and Java 17 (LTS versions)
      - Cleanup of duplicated dependencies (Maven + Tarballs on repository)
    - Python (20 changes)
      - Python 3.8 as default (2022FEB+)
      - Python ACS Log updated for compatibility
    - ACE/TAO (7.0.6)
    - OmniORB/OmniORBpy (4.3.0)
    - ACS to offer C++17 if available
      - Minimum standard supported by the compiler is C++11 now
    - RHEL 8 compatible version of some Tools and libraries:
      - Tcl/Tk to be used from O.S. if 8.6.8+ available (Skips ACS installation)
        - Additional TCL scripts and libraries are still installed by the buildTcltk script
      - Swig to be used from O.S. if 3.0.12+ available (Skips ACS installation)
      - Boost to be used from O.S. if 1.66+ available (Skips ACS installation)
      - astyle to be used from O.S. if 3.1+ available (Skips ACS installation)
      - xerces-c to be used from O.S. if 3.2.2+ available (Skips ACS installation)
      - cppunit is already skipped if found on the O.S. Version changed to 1.14.0+
      - doxygen/graphviz are already skipped if found on the O.S. Version changed to 1.8.14+/2.40.1+
  - OpenDDS
    - Upgrade of OpenDDS
    - Integration of LLAMA's work for acsnc openDDS compatibility with new version
    - Integration of LLAMA's work on bulkDataNT with OpenDDS plus support for multicast
  - Several new Makefile improvements with first user (ALMA CONTROL Software)
  - EventGUI fix for disabled buttons

- Prevent Python container hang on activation of a wrongly deployed component (wrong code provided)
- Prevent PySimpleClient's at_exit disconnect call if it has already been done
- Prevent manager's stale connection (COMM_FAILURE) when communicating with a container that is trying to log in after hard reboot
- RTI DDS bulkDataNT throughput doubled+
  - Need to check whether the change is compatible with bulkDataNT on OpenDDS
- BulkDataNT Makefile improved to better handle parallel compilation
- BulkDataNT can now be used without ACS running (-g flag)
- New helper static method ORBHelper::checkObject(obj) allows to check an object's connection and refresh stale connections that can be reestablished
  - Useful before oneway method calls and callback method execution
- Scripts for basic component code generation (Python, C++ and Java)
- TAT module's tests stabilization for RHEL 8
- TAT log parser now detects skipped tests and add them to junit report
- Other news
  - ACS Operating System Support
    - CentOS 8 support has been dropped by RHEL and some repositories are no longer available
      - ACS official support is now CentOS 7 / RHEL 7 and CentOS Stream 8 / RHEL 8
    - Added lower support levels for CentOS Stream 9, Fedora 34, 35, Debian 10, 11, Ubuntu 20.04 and 22.04
    - Compatibility changes in ACS to work with several operating systems

- Re-design Notification Channels
  - ActiveMQ Prototype
- BulkData
  - ZeroMQ Prototype
  - OpenDDS Implementation
- Obsolescence Management
- C++ Modernization Project
  - Loki removal
    - Smart pointers replaced by std::shared_ptr: Smart Pointers
    - Loki singleton replaced by C++ static variables: Singleton Pattern
  - ACE TSS replaced by C++ thread_local: Thread Local Storage
  - Logging system study, improvements and redesign plans
  - ACS enables C++17
    - Will use C++11 features for now
    - Other projects can decide to take advantage of C++14 and C++17 features on their development

- Another alternative to RTIDDS/OpenDDS