

# SSR in Phase 2

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# Outline

- Introduction
- Organization
- Schedule
- Issues

# Introduction / Scope

- Role of determining and maintaining the Science Requirements for ALMA Software.
- Most of work done in **Phase 1**:
  - [SSR] document (new version being reviewed);
  - [Offline] document (just reviewed).
  - Collaboration with Analysis and Design.
- Role in **Phase 2**:
  1. Maintain the requirements up-to-date
    - evolution of project scope (new partners)
    - progress in defining calibration procedures
    - problems in current requirements found by developers

**Changes must be agreed by SPR board (or even higher...)**
  2. Determine a prioritization if needed (descoping of features)
  3. Advice to other subsystem on more detailed science questions
  4. Science expertise whenever required (document reviews, PDR, CDRs, ...)
  5. Participate in testing

# Organization

- SSR is a Global Activity of ALMA Computing
- Total effort estimated to 8.0 FTE.years on 5 year period.
- SSR members' time not included in budget
- Coordinator R. Lucas (at 40%)
- NN1, NRAO (at 70%) and NN2, IRAM (at 50%).
- Travel cost included
- Head and deputy head, HLA subsystem responsible are *ex-officio* on SSR Committee
- One **Subsystem Scientist** associated to each Software Subsystem to achieve close relationship between SSR and that Subsystem, reply to developers on short time scale, explain, help refine requirements, participate in tests (expertise on testing procedures).
- The Coordinator attempts to coordinate the activities of the Subsystem Scientists (short monthly reports)
- Monthly phone meetings (when needed) , about yearly face to face meetings.
- Participate in reviews (no specific ones)
- Relationship with ASAC (Software Liaison)

# Software Subsystems

- Control (NRAO)
- Baseline Correlator (NRAO)
- Scheduling (NRAO)
- Pipeline (NRAO)
- Off-Line Analysis (NRAO)
- Proposal Preparation (UKATC)
- Telescope Calibration (IRAM)
- Archiving (ESO)
- Off-Line User Interfaces (IRAM)
- Executive (ESO)

# Schedule

- Subsystem Scientists should be nominated at T0 (June 02)
- Before PDR, Subsystem Scientists should be particularly available for consultation (analysis/design phase)
- Before each CDR, consultation about contents of next release
- At Readiness Review (June 06;later?) the SSR as a whole should start working on System Upgrade requirements
- In principle the Subsystem Scientists should be involved in the Software commissioning phases in Chile.