Title: Version 0.1 Release Review	***Authors***: Treacy, Kern	7/19/2022
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Telescope Time Allocation Tools

Version 0.1 Release Review Plan

Project 688

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Change Record

VERSION	DATE	REASON
0.1	7/19/2022	Initial Draft

1. Applicable Documents

- [AD1] 688-TTAT-020-MGMT TTA Tools: TTA Release Review Plan

2. Reference Documents

3. Purpose

This document provides specific details for the Release Review for Version 0.1 of the Telescope Time Allocation Tools. This review will be held in accordance with [AD1].

4. Review Scope

The TTA Tools Concept [RD1] and System Description [RD2] introduce multiple new concepts and requirements to the NRAO Proposal and Review process. Version 0.1 is the initial implementation of these concepts in a framework that permits users to experience these concepts and evaluate both the efficacy of the concepts and the implementation.

Features and limitations of the current implementation are listed in the following sections.

4.1 Solicitation Configuration

Features:

- Configuration of multiple Solicitations that may exist simultaneously with heterogeneous Facility and Capability specifications.
    - For this review there are two solicitations configured. One contains both the VLA and GBT and is configured for the full range of frequencies. The second is a solicitation for low frequency observations on the GBT.

Limitations:

- User configuration of Solicitation is not yet ready for validation and testing.
- Only two facilities are currently supported (VLA and GBT).

4.2 Proposal Creation

4.2.1 Proposal Information

Features:

- Basic Information (authors, title, abstract).
- Import of scientific justification PDF with view/delete functionality.
- Creation of one or more Allocation Requests.

Limitations:

- The Author specification is not fully implemented.
- The uploaded scientific justification is not validated to ensure compliance with proposal requirements (or even that it is a valid PDF).
- Proposal validation and submission is not yet implemented.

4.2.2 Capability Requests

Features:

- Manual input/file import of Field Sources.
- Manual input/file import of Spectral Specifications.

- Manual input of Performance metrics.
- Manual input of Calibration Parameters.
- Target overrides.

Limitations:

- The entry widgets for values have not yet been optimized for formatting or validation.
- The hardware capability model has not yet been developed, a simple placeholder is currently used to provide approximate functionality for the purposes of concept validation.

4.2.3 Observation Specification Creation

Features:

- Summary of Observing Targets.
- Scan List (which can be edited).

Limitations:

- The algorithms underlying the generation of an Observing Specification from the Capability Requests in an Allocation Request are preliminary.
- Observing times, strategies, and calibrators are intended to demonstrate the workflow of the system and are not scientifically valid.

4.3 Other Limitations:

- Identity Management (login) has been stubbed out although authorization and authentication protocols are in place. Panel Members may select an identity via the interface.
- Entry of Technical Justifications in support of Allocation Requests has not yet been implemented.

5. Review Charge

The project solicits the panels feedback on the following topics:

- Are the concepts of Proposal, Allocation Request, Capability and Observing Specification clearly implemented?
- Is the user interface intuitive and navigable?
- Do the concepts of Capability and Observing Specification support both novice users and expert users?