



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Telescope Time Allocation Tools

Conceptual Design Review Report

Project 688

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Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
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Change Record

VERSION	DATE	REASON
0.1	3/24/2020	Initial Draft
0.2	4/14/2020	Fixed typo
0.3	4/22/2020	Version for internal committee review
0.4	4/28/2020	Following internal review
0.5	4/28/2020	Added Appendices A & B
1.0	4/28/2020	Final version



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Table of Contents

1 Purpose	4
2 Executive Summary.....	4
2.1 <i>Summary of Findings.....</i>	<i>4</i>
2.2 <i>Review Outcome:.....</i>	<i>6</i>
3 Recommendations.....	6
Appendix A: Post Review Actions	8
Appendix B: RID Detail Report	10



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

I Purpose

This document reports the outcome of the Telescope Time Allocation Tools (TTA Tools) Conceptual Design Review described in the review plan (688-TTAT-005-MGMT Conceptual Design Review Plan).

The goal of the review is to provide validation to NRAO management as well as the NSF that the project has properly defined scope, an architecture and concept of operations that addresses that scope, and sufficient processes and organization in place to deliver the capabilities to the end user.

2 Executive Summary

2.1 Summary of Findings

The specific questions in the charge to the committee are:

1. Is the defined system (through the system technical description and captured requirements) suitable to support the proposal, review, and allocation processes?
2. Does the proposed architecture deliver the capabilities as specified in the concept, specification and requirements documents?
3. Is the project plan (includes the project management plan, estimated budget and schedule, risk analysis) appropriate for this stage of the project? Are the plans and estimates reasonable to achieve the planned scope?
4. Does the project team demonstrate overall readiness to proceed to detailed design and implementation phases?

Below we respond to each of these questions separately:

Is the defined system (through the system technical description and captured requirements) suitable to support the proposal, review, and allocation processes?

We feel that the system as presented in the documentation is to a large degree suitable to support the proposal solicitation, review and allocation phases, but with some specific reservations that we feel should be addressed, therefore we assess this area of the review as “conditional”.

Our reservations fall mainly into these three areas:

- The project needs to fully engage with the key stakeholders of the various proposal review processes to ensure completeness of the technical description and requirements (**R1**). We uncovered a specific review process that appeared to be missing (e.g., the RSRO review) and from the descriptions of the processes it seems that some details are not necessarily consistent with the reality (e.g. DDT review process).
- The current design has a technical justification – and technical review - for each allocation request. The committee feels that this may not be the best design and suggests in particular that a design of a technical justification and review per facility should be considered instead (**R2**). Certainly we feel that the stakeholders involved in this part of the process(es) should be consulted on the best approach.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

- The use of sub-arrays is really not considered in the technical description and the design. In the discussion we agreed that the concepts seem amenable to accommodating their use, however we recommend that a section describing how they would fit should be added to the technical description, also taking into account the probable future needs of the ngVLA (**R4**).

An item also in the area of project scope we noted the absence of any consideration of other forms of commensal observing. We understand that current forms of commensal projects are not really in scope for the TTAT project but would like to recommend that allowing commensal observing is not designed out as a possible user capability in the future (**R5**).

We noted a number of other suggestions to improve the descriptions, most of which will be addressed in the post-review actions. Though seemingly minor we recommend they are followed up on as they will enhance the clarity of the descriptions, which is very helpful for any potential new project team members.

Does the proposed architecture deliver the capabilities as specified in the concept, specification and requirements documents?

We find the proposed architecture to be satisfactory, capable of delivering the functionality described in the concept, specification and requirements and the technical description. There were a number of comments on the design, and questions raised; these were all addressed to our satisfaction, with follow up actions as required. A key comment though is that we recommend adding “Reliability” as a key quality attribute to be addressed as a non-functional requirement. This will then allow the design to cover the key aspects of ensuring a robust and reliable system when deployed to the end users, in particular the community during the proposal solicitation stage. In the next phase we recommend developing, in collaboration with key stakeholders, some Quality Attribute scenarios to explore the key QAs (**R6**).

Is the project plan (includes the project management plan, estimated budget and schedule, risk analysis) appropriate for this stage of the project? Are the plans and estimates reasonable to achieve the planned scope?

There is still some work to do in this area to reach a satisfactory level, therefore we assess this area of the review as “conditional”. There is a major omission of a test plan and related test specifications, which should be developed before closing out this stage (as per section 5.3 of the DMSD Work Management Plan). In discussion it is clear that the project team has been thinking about this, but it should be written down more clearly (**R7**). A key item that should be included is User testing of the tools and a plan to engage the user community in that testing (**R8**).

Overall the funding estimates seem reasonable for the CoDR stage, though we note that given this stage they will have large uncertainties and we urge the team to monitor them and update as needed.

We are concerned that the estimates for validation steps may be somewhat low. In the presented documentation they were combined with the logical design and thus hard to make a good assessment of. In the spreadsheet showing greater detail that was displayed during the meeting we could see some of the decomposed estimates. On a quick assessment of the few numbers seen in that spreadsheet we still felt that the estimates could be low and could be increased by a fact of 1.5 to 2. We understand that there is an intention to automate validation tests, which is good and will save effort over the project lifetime, but that also means that some significant effort will be required to create reliable and correct, scripted tests in the first place. For user tests there will also be significant effort required to organize and structure those. The proposal to monitor the first few validation steps and adjust as necessary is sound, but we feel the project should be aware of the potential for this under-estimate.

We identified some new risks during the review, some of which were technical. Where possible we recommend early detailing and prototyping of these identified risk areas to help mitigate the risks (**R3**).



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

We recognize the particular funding arrangements for the project and share the belief that such an arrangement can work, and indeed has some advantages (at least one committee member has experience of successful projects funded in this way). However, there is clearly an identified risk of possible loss of critical resources due to external events (e.g. unplanned high priority operational needs). Such events have the potential to derail a project like this and so we recommend that the project seek re-assurance of the provided resource and funding levels, and priority from NRAO senior management (**R9**). This will help to hold the proposed schedule.

We also note the lack of a transition plan and a statement of support plans for the tools after final delivery. We understand that this is outside the scope of our review, but we believe we should highlight this lack, and ask that they be developed as we believe them to be important for the overall success of the project (**R10**).

Does the project team demonstrate overall readiness to proceed to detailed design and implementation phases?

Though the committee has found a number of areas for improvement in the reviewed documents we are impressed with the project team's overall understanding of the system required, of the design and of the project implementation processes. Given progress on the key actions and recommendations from this review we are confident that the team is ready to proceed to the next phase.

2.2 Review Outcome:

The review committee is happy with the responses to our comments, both those made and agreed before the meeting, and those resolved during the meeting. As can be seen from the assessments in section 2.1 the committee considers there to be some actions to be taken before we can rate the overall readiness as "Satisfactory", and thus we must formally consider the review to have a "Conditional" pass. However, the committee believes the project is in a very good condition, and that assuming the agreed actions are completed in a timely manner, and that our recommendations are taken into due consideration we see no barriers to the team proceeding to the implementation phase.

The Review Committee would like to congratulate and thank the project team on a well-prepared set of review documents, delivered in good time, and a well-structured review process. We would also like to recognize the constructive, open and enthusiastic engagement of the team during the whole process.

3 Recommendations

- R1. We recommend meeting with the proposal review process stakeholders to ensure that no parts of the processes have been missed.
- R2. Re-assess how the technical justifications should be done, taking into account the various interested stakeholders, and develop some detailed use cases to exercise the design. Specifically consider one Tj and feasibility report per facility.
- R3. Where technical risk areas have been identified we recommend early detailing of the design, prototype implementations and testing to mitigate the risk.
- R4. Add some description of how sub-arrays fit into the design, at least at the conceptual level, paying a due level of attention to the future ngVLA needs.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

- R5. We recommend that the provision of commensal observing as a capability to be requested is not designed out.
- R6. Develop some Quality Attribute Scenarios to quantify key attributes of the systems, in particular reliability and performance, including scenarios covering the system loading in the last hours and minutes before the proposal deadline.
- R7. We recommend the development of a test plan suitable for the Conceptual Design Level, as prescribed in the DMSD Work Management Plan.
- R8. Engage with the key stakeholders for validation and User Interface testing – this should be detailed in the test plan.
- R9. We recommend that the project seeks the assurance of NRAO senior management to ensure the support of the project as a high priority supplied with the continuity of resources and funding it requires.
- R10. A plan for transition to the new tools and for continuing operational support (and development) after the end of this project should be developed.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Appendix A: Post Review Actions

Issue key	Summary	Due Date	Assignee
SRDP-542	"Vetting" in Table 2 is blank	4/30/2020	dbalser
SRDP-541	software to identify conflicts in dual anonymous peer review	4/30/2020	dbalser
SRDP-540	do allocation requests include computing resources?	4/30/2020	dbalser
SRDP-539	automatic checking of font size limitation?	4/30/2020	dbalser
SRDP-538	how will integration between proposing and observing systems be achieved?	4/30/2020	jkern
SRDP-537	how will switching to dual anonymous reviews affect workflow for conflicts?	4/30/2020	dbalser
SRDP-524	User Interface testing	4/30/2020	jkern
SRDP-523	Test plans	6/22/2020	jkern
SRDP-521	Resources vs. capabilities	4/30/2020	mwhitehe
SRDP-520	Relationship to project missing	4/30/2020	mwhitehe
SRDP-519	Clarify composition of Allocation Request	4/30/2020	dbalser
SRDP-518	typo in figure	4/30/2020	mwhitehe
SRDP-517	Author definition	4/30/2020	mwhitehe
SRDP-516	Quality Attributes	6/22/2020	mwhitehe
SRDP-515	Sub-arrays?	6/22/2020	dbalser
SRDP-514	Definition of "resource"	4/30/2020	dbalser
SRDP-513	System context slight confusion	4/30/2020	mwhitehe
SRDP-509	Automated data processing too?	4/30/2020	dbalser
SRDP-508	Composition relation wrong?	4/30/2020	jkern
SRDP-507	Automatic assignment of reviewers?	4/30/2020	dbalser
SRDP-503	Typo in figure 5	4/30/2020	jkern
SRDP-502	Non functional requirements?	4/30/2020	mwhitehe
SRDP-501	Concurrent solicitations	4/30/2020	dbalser
SRDP-497	Allocation award dropped?	4/30/2020	dbalser
SRDP-496	Diagrams could use keys and other improvements	4/30/2020	jkern
SRDP-494	Project creation: VLA	4/30/2020	jkern
SRDP-493	Project creation	4/30/2020	dbalser
SRDP-490	Stakeholder User Case: Sponsored proposals not handled withing tools	4/30/2020	dbalser
SRDP-489	Major problem with DDT use case	4/30/2020	dbalser
SRDP-488	Feasability Review Funtional Requirements	4/30/2020	dbalser
SRDP-487	Technical Reviews for each Allocation Request?	6/22/2020	jkern
SRDP-485	RSRO may not have pre-defined capabilities	4/30/2020	dbalser
SRDP-484	Facility attributes for triggered proposals	4/30/2020	dbalser



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

SRDP-483	Server load on submitted proposals	4/30/2020	dbalser
SRDP-482	Disposition Constraints	4/30/2020	dbalser
SRDP-480	The GBO/NRAO TAC can grant time for some HSA proposals and there is no Super-TAC for HSA proposals	4/30/2020	dbalser
SRDP-479	HSA DDT	4/30/2020	dbalser
SRDP-477	DDT may go into future semesters	4/30/2020	dbalser
SRDP-475	Figure 1, 6 and 9 not understandable	4/30/2020	jkern
SRDP-474	Better definition of triggered	4/30/2020	dbalser
SRDP-466	Phase durations - fixed or variable?	4/30/2020	jkern
SRDP-465	Table 1 is repeated	4/30/2020	jkern
SRDP-461	UI Look and feel - influence of ALMA	4/30/2020	jkern
SRDP-446	Error! Reference source not found.	4/30/2020	rtreacy
SRDP-443	Error: Reference source not found	4/30/2020	rtreacy
SRDP-442	Error: Reference source not found	4/30/2020	rtreacy
SRDP-440	Keeping track of semesters, joint time	4/30/2020	dbalser
SRDP-438	Modify Disposition during & after also?	4/30/2020	dbalser
SRDP-437	refer to the feasibility reviews?	4/30/2020	dbalser
SRDP-433	Check boxes for joint time, multiple semesters?	4/30/2020	dbalser
SRDP-430	Peak server load planning	4/30/2020	dbalser



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Appendix B: RID Detail Report

[SRDP-542] "<u>Vetting</u>" in Table 2 is blank Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	36
Suggested Solution:	In Table 2, remove the "Vetting" row.

Description

the "Vetting" row in Table 2 has blank entries; not sure whether this was on purpose, or an oversight.

Comments

Comment by [Dana Balser](#) [07/Apr/20]
 I think the process is the same for Vetting, so may be just remove this row.

Comment by [Robert Treacy](#) [16/Apr/20]
 per discussion in the CoDR Meeting:
 The proposed solution in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-54 I] software to identify conflicts in dual anonymous peer review Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	25
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Description

How will software to identify conflicts work under dual anonymous review?

Comments

Comment by [Dana Balser](#) [07/Apr/20]

There will be two places:

(1) Automatic conflicts. If a reviewer is an author on the proposal the reviewer will automatically be conflicted.

(2) Manual conflicts. The reviewer will see the Title and Abstract of each proposal under consideration and be able to manually specify a conflict. There may be cases were the reviewer knows about a particular project from a close colleague and would be able to figure this out from the title or abstract. We want to provide the reviewer a way to declare a conflict.

This is described in Functional Requirement 3 and 4 on page 27.

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion in CoDR Meeting, acceptable solution:

Current design supports guidelines for defining conflict. Guidelines are maintained on an NRAO Wiki page, please reference this source of guidelines in the document.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Similar to [SRDP-537](#)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-540] do allocation requests include computing resources? Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Issue Links:	Relates		
	relates to	SRDP-519	Clarify composition of Allocation Req... Post Review Action

Description

I thought I had read in another document (either the Project Charter or the SRDP Program Plan) that the definition of an allocation request was intended to be broader than an observing request (i.e. it could be used to refer to computing resources), but that is not mentioned in this document.

Comments

Comment by [Jeff Kern](#) [07/Apr/20]
I believe these are very similar issues.

Comment by [Dana Balser](#) [07/Apr/20]
We do mention this in several places (e.g., search the document for "computing cluster"), but maybe not in a prominent place. If there is a place in the document where you think it would be useful to note, please let us know and we can add it.

Comment by [Robert Treacy](#) [16/Apr/20]
per discussion in the CoDR meeting:
Clarify Standard and nonstandard processing in the Document as discussed in [SRDP-519](#). I believe once that ticket is satisfied, this one will be also.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-539] automatic checking of font size limitation? Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	20
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Description

Will the font size limitation in the .pdf documents be checked automatically?

Comments

Comment by [Dana Balser](#) [07/Apr/20]

If there is a way to check the font size automatically then we will do so.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:
The proposed solution in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-538] how will integration between proposing and observing systems be achieved? Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	7
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Description

The System Description notes that the TTA project does not include observing process, but a tight integration between proposing and observing is strongly preferred. How will this be achieved?

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

The architecture contains an anti-corruption layer to provide a robust interface between this suite of tools and the existing project databases. We will first make this connection in phase 3 of the development to ensure that the requirements are well understood and the connectivity is demonstrated. Each phase from that point forward will maintain the connection and add additional data to the generated projects, a final validation and any missing items will be added as part of phase 14.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:

Incorporate language in System Description to better describe the functional operation of the ACL



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-537] how will switching to dual anonymous reviews affect workflow for conflicts? Created: 07/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	14
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Description

Will users (proposers/reviewers) need to identify close collaborators so that those proposals can be flagged as conflicts? Will institutional overlap still be considered a conflict?

Comments

Comment by [Dana Balser](#) [07/Apr/20]

As noted in [SRDP-541](#) the flow will be:

(1) Automatic conflicts. If a reviewer is an author on the proposal the reviewer will automatically be conflicted.

(2) Manual conflicts. The reviewer will see the Title and Abstract of each proposal under consideration and be able to manually specify a conflict. There may be cases where the reviewer knows about a particular project from a close colleague and would be able to figure this out from the title or abstract. We want to provide the reviewer a way to declare a conflict.

The manual conflicts, or self-declared conflicts, will be left up to the individual to decide but we will have the same guidelines as we do now.

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion in CoDR Meeting, acceptable solution:

Current design supports guidelines for defining conflict. Guidelines are maintained on an NRAO Wiki page, please reference this source of guidelines in the document.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Consider combining this ticket with [SRDP-541](#)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-524] User Interface testing Created: 06/Apr/20 Updated: 16/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-010-MGMT: TTA Tools Execution Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	testing		

Suggested Solution:	Explicitly state the intention to do user interface testing as part of the following activities: <ul style="list-style-type: none"> - UX Development - Training - System Integration - Operational Readiness Testing.
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Description

Are there plans for any community user testing, particularly of the user interface?

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

Although not explicitly called out in the execution plan user interface testing is anticipated to happen as part of multiple activities in the project. Initial doing the agile development of the UX a scientific expert will be helping to guide the development and providing feedback. The system integration is a large process expected to be largely guided by the feedback from user testing, similar with the final operations readiness testing. The training packages will also be used to gather feedback from users and provide feedback on the interfaces to the development process.

Comment by [Alan Bridger](#) [08/Apr/20]

OK

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:

Suggested Action: Update the execution plan add the UX testing phases. Also highlight UX testing portions of these activities.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-523] Test plans Created: 06/Apr/20 Updated: 17/Apr/20 Due: 22/Jun/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-010-MGMT: TTA Tools Execution Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	testing		

Attachments:	2020-04-TTA-CoDR-Testing.pdf
Suggested Solution:	Modify the document to reflect actual plans

Description

The description of test plans is a little weak. Testing is mentioned a lot, and I recognize that the project is at the conceptual stage, but do the descriptions meet the level of the statement in the DMSD Work Management Plan, section 5.3: "As part of conceptual architecture development, the stakeholders, the Validation Lead, and the DMS Architect will define tests to validate the conceptual system model."?

Comments

Comment by [Alan Bridger](#) [06/Apr/20]
 The "Objectives" of each phase seem a good starting point for defining specific top level tests.

Comment by [Jeff Kern](#) [07/Apr/20]
 You are correct that this is inconsistent, and that we don't have a good document for the test plans. We would like to discuss testing at the meeting and then will amend the document to reflect the outcome of that discussion.

Comment by [Alan Bridger](#) [08/Apr/20]
 I agree a good topic for the meeting. I'd probably add in user testing for discussion even though I just closed [SRDP-524](#) as Post Review Action.

Comment by [Robert Treacy](#) [16/Apr/20]
 per discussion in the CoDR Meeting:
 Update document to incorporate planning in slide deck (attached)

Comment by [Jeff Kern](#) [17/Apr/20]
 Set Due date to be end of the first phase of implementation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-521] Resources vs. capabilities Created: 06/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Issue Links:	Relates			
	relates to	SRDP-514	Definition of "resource"	Post Review Action
Page Number:	19			

Description

In section 2.1.2.2 it is stated that the Allocation Request is requesting the use of observatory "resources" while the solicit section (2.1.2.1) states that the facility offers "Capabilities". While I believe I understand what you mean, this is an example of the lack of clarity that is at the heart of my comment in [SRDP-514](#). It sounds trivial but in my experience it can cause confusion.

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

Suggest we discuss this at the meeting

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion in the CoDR meeting:

Clarify the definition of capabilities and resources, how they are associated with each other and relate to Allocation Requests, recognizing which apply to proposal submission and which to scheduling.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-520] Relationship to project missing Created: 06/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Page Number:	19
Suggested Solution:	<p>Proposed solution from ARCHITECTURE Slide 6: We concede there is a gap between proposals and projects. Specifically, since all proposals with positive allocation dispositions will result in projects, the association is between the allocation disposition and project concepts. Since there is insufficient information to model the association now and it isn't clear what a 'weak association' implies, we prefer to clarify the linkage when we refine project creation in a subsequent phase. (Due: prior to Phase 14)</p> <p>per the CoDR Meeting Discussion: Add sentence near figure that proposals may link to many projects</p>

Description

In 2.1.2.2.1 the primary presentation does not show any linkage to the Observing Project (as is shown in the System Description document Figure 1). Though I understand that the different facilities have different project models I think showing a weak association to an abstract project (possibly facade) would be useful. There presumably will exist a link between projects and proposals/allocations in all cases.

Comments

Comment by [Mark Whitehead](#) [07/Apr/20]

There is a gap between proposals and projects. Since all proposals with positive allocation dispositions will result in projects, the linkage is between the allocation disposition and project concepts. We will clarify the linkage when we refine project creation in a subsequent phase.

Comment by [Alan Bridger](#) [08/Apr/20]

OK - I still think an indication of the relationship in 2.1.2.2.1 might be useful, but its clear that things are in hand, so I'm not going to push the point too much.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-519] Clarify composition of Allocation Request Created: 06/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description , TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Issue Links:	Relates			
	relates to	SRDP-540	do allocation requests include comput...	Post Review Action
Suggested Solution:	<p>There are two types of data processing:</p> <ol style="list-style-type: none"> 1. A "standard" data processing that goes along with observing time. That is, the standard data processing does not have to be requested. 2. A "non-standard" data processing that requires a separate request and need not be tied to any specific observation. This is something we envision for the future (e.g., ngVLA) and there is no process for this yet. This non-standard data processing is what we are talking about in the document. 			

Description

In reading the two documents cited I understand that an Allocation Request may comprise many Request Specifications, and that these specifications may be of different types (in particular Observing and Data Processing). However, I was expecting to see a way to link the Data Processing Specification to an Observing Specification, at least as one type of Allocation Request. Perhaps that is to be detailed, but though its clear that both observing and processing may be specified I couldn't find a clear description that one type of Allocation Request would involve specific observing to be followed by its related processing. Am I missing something?

Comments

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR meeting:

Clarify Standard and nonstandard processing in the Document as discussed in this ticket.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-518] typo in figure Created: 06/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	35
Suggested Solution:	Thanks, I will fix the typo. The CSV format is specified in the System Description.

Description

Looks like a typo in the primary presentation, section 2.1.2.6.1, "CVS" -> "CSV". I report it because its in a diagram (and therefore in a model).

Perhaps could also consider a less specific name than "CSV". Completely understand because of the utility of the format, but think about it.

Comments

Comment by [Alan Bridger](#) [08/Apr/20]

OK.

Still think the name could be re-thought, but happy to leave it entirely at the project's call.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-517] Author definition Created: 06/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	19
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Description

In table 2.1.2.2.2 "Author" is defined as "The person who creates a proposal". From my understanding and from the multiplicity in the primary presentation I think "Author" covers more than just the proposal creator.

Comments

Comment by Mark Whitehead [07/Apr/20]
We agree and we will change the definition in 2.1.2.2 to be more inclusive (i.e. define author as anyone on the proposal).
Comment by Alan Bridger [08/Apr/20]
OK



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-516] Quality Attributes Created: 05/Apr/20 Updated: 17/Apr/20 Due: 22/Jun/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Issue Links:	Blocks			
	blocks	SRDP-510	Modifiability?	Done
	blocks	SRDP-511	Availability?	Done
	blocks	SRDP-512	Testability?	Done
Page Number:	6			

Description

Quality Attributes: I think "Modifiability" applies too. Its related to what this section says about Sustainability and Maintainability, but probably should be explicitly drawn out. From the general statements made in section 1 I think you are thinking about it.

Comments

Comment by [Mark Whitehead](#) [05/Apr/20]

I have attempted to address all three quality attribute questions in one response. Here are the original comments:

Quality Attributes: I think "Modifiability" applies too. Its related to what this section says about Sustainability and Maintainability, but probably should be explicitly drawn out. From the general statements made in section 1 I think you are thinking about it.

Should "Testability" be added to the quality attributes? It can be difficult to test web-based systems unless the system is designed to support testing. Again, I think you are doing that, but it might be worth adding the quality.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Isn't "Availability" an important attribute to consider?

Comment by [Mark Whitehead](#) [05/Apr/20]

According to the ISO/IEC FCD 25010 product quality model, the maintainability characteristic includes modularity, reusability, analyzability, modifiability, and testability. The tactics associated with modifiability include reduce module size, increase cohesion, reduce coupling, and defer binding. Testability tactics include limit complexity and control and observe system state.

The conceptual architecture's limited structural complexity and the allocation of responsibilities enforced by the Layer, Domain Object, and hexagonal architecture patterns combine to support testability and modifiability which is expressed generally in the document as maintainability.

If needed, the conceptual structures lend themselves to supporting the control and observation of system state; whether this is needed or not can be examined during unit test development in the logical phase and during integration test development in the physical phase.

Therefore, based on the requirements and the current design, I do not see a reason to emphasize testability and modifiability as separate significant architectural drivers.

Sustainability is a significant architectural driver separate from maintainability because it is about more than the mechanics of maintaining a system - it is about maintaining the conceptual integrity of the core domain concepts over a long period of time. This driver was addressed by using Domain-Drive Design to create the TTAT Domain Model and is different from, but complementary to, the techniques and patterns used to promote reducing module size, reducing coupling, increasing cohesion, etc.

I agree that availability is an important attribute to consider. Since the user base is limited, there are clear performance requirements, and the current network and server infrastructure seem sufficient, I chose not to emphasize availability as a significant architectural driver in the conceptual model. However, I don't see anything in the current design that prevents us from deploying availability tactics (detect, recover from, or prevent faults) in the logical and physical phases.

Comment by [Alan Bridger](#) [08/Apr/20]

Happy with your responses on Modifiability and Testability. On Availability on further thoughts and seeing your comment I wonder if Reliability might be a wider attribute, encompassing that and others such as Recoverability, Fault Tolerance?

I do agree it's important to be selective and not have too many "important" QAs.

Comment by [Robert Treacy](#) [16/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

per the CoDR Meeting, the suggestion below, taken from the Architecture slide 3 is acceptable:

ADD starts with a QAW to identify, define, and prioritize QAs. Instead, I inferred the QAs and agree that Reliability should have been included for the logical and physical phases. We should add Reliability to the architecture document in the logical phase and define what it means for TTAT; we should determine how to measure reliability-related metrics in the logical phase and monitor those metrics throughout the physical and deployment phases. (Due: by end of logical phase)

Comment by [Jeff Kern](#) [17/Apr/20]

Set Due date to be end of the first phase of implementation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-515] Sub-arrays? Created: 05/Apr/20 Updated: 17/Apr/20 Due: 22/Jun/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Overview		

Description

Are sub-arrays under consideration at all?

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

Sub-arrays have been discussed and we think can be accommodated with the current design. Describing the sub-arrays will be done as part of the facility capabilities since what exactly we mean varies from facility to facility (for instance it has no meaning for GBT).

For the VLA which is the case I suspect you were thinking of at the proposal level we need to be able to identify what the actual sub-array sensitivity will be (for time estimates) and to record that multiple observation specifications will be executing concurrently. The ngVLA has a different concept of subarrays (more parallel to configurations for the VLA/ ALMA).

So we think we know where sub-arrays fit in the architecture and what information needs to be captured but the detailed design won't be addressed until we really dig into the capability specifications.

Comment by [Alan Bridger](#) [08/Apr/20]

I also later thought of other types of commensal observing - both sharing data products and sharing observing (but different products). Are they possible capabilities for any of the facilities (I thought so in some cases)?

Could we discuss a little at the meeting?

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion at CoDR Meeting, accepted solution:



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Add discussion of what needs to be captured to allocate subarrays to System Description under capabilities, perhaps also in Sec 2

- Also add discussion on the ability for observers to request commensal systems to be on/off, does PI get to request data from commensal system?

See also [SRDP-521](#), [SRDP-514](#) related to clarity on Capabilities and Resources

Comment by [Jeff Kern](#) [17/Apr/20]

Set Due date to be end of the first phase of implementation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-514] Definition of "resource" Created: 05/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description , TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Issue Links:	Relates			
	relates to	SRDP-521	Resources vs. capabilities	Post Review Action

Description

The word "resource" is used a lot in these documents, but I couldn't find a definition of it. Its an important concept - this statement in the System Description (p.17) seems to make that clear: "For each Capability the TTA Group will select the configurable list of resources and their constraint" It might be useful to think about this - my concern is that the definition boundary between "Capability" and "Resource" can be a bit fuzzy to some. The SKA has spent sometime trying to dis-entangle the two and come up with a reasonable definition.

That said - the issue might be less important for the TTA Tools, and more important for later phases when the scheduling systems are being considered.

Comments

Comment by [Alan Bridger](#) [06/Apr/20]

Just to note I have now found the definition in section 1.4, but since that doesn't add much then I think my comment still stands. See also [SRDP-521](#).

Comment by [Dana Balser](#) [06/Apr/20]

We spent a fair amount of time on trying to find the best words to describe these concepts and I thought the definitions in section 1.4 were clear. It might be more efficient to discuss this at the CoDR.

Comment by [Jeff Kern](#) [07/Apr/20]

Suggest we discuss this at the meeting.

Comment by [Robert Treacy](#) [15/Apr/20]

per discussion at the CoDR Meeting:
Clarify either in the Preface or Sec 2 the definition of capabilities and resources, how they are



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

associated with each other and relate to Allocation Requests, recognizing which apply to proposal submission and which to scheduling.
Consider merging this response with [SRDP-521](#)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-513] System context slight confusion Created: 05/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Page Number:	14
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Description

In figure 6 some of the elements on the left-hand side seem to be part of the TTA system under consideration, but they are drawn as external. This is explained in the text below, but I wonder if the status of those could be identified a bit more clearly in the diagram. Also some explanation of why the status is unclear would be useful. If it is because they might come from another system (like the notification system) then I can understand the choice. But if it is simply because the system architecture is uncertain then I'm less clear why. I'm thinking largely of the three "Generators", and perhaps Project Creation.

Comments

- Comment by [Mark Whitehead](#) [05/Apr/20]

Figure 6 includes the generators as external because I know I need them but I don't have sufficient information to decide how to refine them and where to allocate them in the model.

I don't like that 'external' has two different meanings in the figure but I accepted it because I know the generators will be refined in a subsequent phase and I thought it would be more efficient to have all the 'known unknowns' in one place.

I'm happy to change that based on group consensus.
- Comment by [Alan Bridger](#) [06/Apr/20]

Thanks, I guessed that was the reason. My concern is that this uncertainty makes the *apparent* project scope uncertain, whereas in reality I think the scope is fairly clear.
- Comment by [Alan Bridger](#) [08/Apr/20]

Should we briefly discuss at the meeting, to see if there's a consensus?
- Comment by [Robert Treacy](#) [15/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

per discussion in the CoDR Meeting:

clarify the placement of generators (internal vs. external) within the model



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-509] Automated data processing too? Created: 05/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	37
Suggested Solution:	Clarify and perhaps extend the requirement.

Description

Section 3.9.2, requirement 3 states:

For SRDP telescopes the generated Projects shall be executable without further intervention from the user. This implies that all observational details must be derived from the proposal.

If there is to be more or less automated observation scheduling and data processing then there may also be information to be captured at proposal time required for those phases too.

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

Agreed, we will expand the requirement in the System Description and evaluate the impact on the conceptual architecture (although I suspect it will be negligible as we have discussed this already).

Comment by [Alan Bridger](#) [08/Apr/20]

That's fine. Also agree the impact is likely to be small.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-508] Composition relation wrong? Created: 05/Apr/20 Updated: 16/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	24
Suggested Solution:	Correct Figure

Description

Figure 9 shows a compisition relation from Allocation Request to Proposal - isn't that the wrong way around?

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

Yes you are correct, that figure has the composition relation the wrong direction.

Comment by [Alan Bridger](#) [08/Apr/20]

OK



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-507] Automatic assignment of reviewers? Created: 05/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	22
Suggested Solution:	Just a clarification required.

Description

Section 3.4.2, functional requirement 3. Please clarify if this is meant to be an automatic assignment by the tools, or is a human involved. I was trying to understand this from the description above too, and it wasn't completely clear to me.

Comments

Comment by [Dana Balser](#) [07/Apr/20]

The process is manual; that is, there is no info in the database that is not stored manually. At this stage, however, we are not assigning reviewers to proposals. It might be useful to include this as a topic for discussion at the CoDR.

Comment by [Alan Bridger](#) [08/Apr/20]

OK, let's discuss. Mostly I was looking for a clarification to the requirement - which is your suggested solution. But if there is a little more to it then it might be worth a little discussion.

Comment by [Robert Treacy](#) [15/Apr/20]

Accepted solution, per discussion at CoDR Meeting:

Clarify the wording that the tool does not automatically assign reviewers



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-503] Typo in figure 5 Created: 03/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	15
Suggested Solution:	In Figure 5 make the following change: "Sumbission" -> "Submission"

Description
Don't normally bother about typos much, but this is in a diagram. Fig. 5 "Sumbission" -> "Submission"

Comments
Comment by Dana Balser [06/Apr/20]
Agreed.
Comment by Alan Bridger [08/Apr/20]
OK



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-502] Non functional requirements? Created: 03/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	14
Suggested Solution:	We will leave the existing requirements as is, but work with the DMS architect to clearly defined functional and non-functional requirements on the Architecture Guidelines page to be more clear in the future.

Description

Section 2.3, are NFRs 1 and 2 really *non*-Functional? They sound fairly functional to me.

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

I wouldn't spend too much energy refuting your assertion. When we wrote them I thought of them as requirements on the structure of the database, the types of queries it must support and a sense that the old and new databases must connect somehow (either through reference or migration). I think that the impact of changing them from non-function to functional is simply how they enter the testing, but either way the behavior must be supported.

Comment by [Alan Bridger](#) [08/Apr/20]

I don't mind that much - it also depends on what the user sees/needs to do/experiences, and perhaps who the user is. If its all completely without user knowledge then I'd make them non-functional. That wasn't clear to me and perhaps that clarification is mostly what is needed.

Either way I'd certainly agree its not worth wasting too much time on discussion, as long as the requirements are there.

Comment by [Alan Bridger](#) [14/Apr/20]

Happy with the outcome.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-501] Concurrent solicitations Created: 03/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	13
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Description

Section 2.2, functional requirement 1. Should this be refined to state that it should support multiple concurrent solicitations *with different capabilities*? In particular above it is stated that DDT solicitations shall use the capabilities of the current observing semester - which may be different to those of the future semester.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Inherent in a Solicitation is a set of capabilities that may be unique. So in principle DDT Solicitations could have different capabilities, but the way we currently advertise DDT proposals is that the capabilities that are available are those that were advertised for the current semester.

I think it would be good to discuss this further at the CoDR. Also, see [SRDP-477](#).

Comment by [Alan Bridger](#) [08/Apr/20]

Yes, let's discuss at the meeting, along with [SRDP-477](#).

Comment by [Robert Treacy](#) [16/Apr/20]

Per meeting discussion: Clarify document based on response in Jira ticket and meeting discussion.

From Slide in meeting discussion:

Issues: Should the software support concurrent Solicitations with different Capabilities?

Comments: Yes. During the semester Solicitation period a DDT Solicitation will exist and have



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

different Capabilities. The confusion is that the Capabilities of a DDT Solicitation will typically be the same as those of a previous semester's Solicitation. For example, the 20B semester Solicitation occurred from 2 January 2020-3 February 2020. The DDT Solicitation during this period would use the Capabilities in 19B semester Solicitation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-497] Allocation award dropped? Created: 03/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Suggested Solution:	<p>Add the following text in the Preface:</p> <p>'We changed the name "Allocation Award" to "Allocation Requestt" because sometimes the result is not an "award"; that is, time is not approved.'</p> <p>Also, there are two places in the document where "Allocation Award" should be changed to "Allocation Disposition".</p>
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Description

In moving from 688-TTAT-0002-MGMT to this document the concept of "allocation award" seems to have been dropped, correct? I couldn't find an explanation.

Is this because of the 1-1 relationship between allocation awards and projects? If so I approve - I would have made a comment to that effect.

Comments
Comment by Dana Balser [03/Apr/20]
No, we decided to change the name from "Allocation Award" to "Allocation Disposition". Sometimes the result is not an "award"; that is, time was not approved.
Comment by Dana Balser [03/Apr/20]
I should add that Projects are only created for positive Allocation Dispositions. That is, when some observing time is granted.
Comment by Alan Bridger [06/Apr/20]
Thanks for the clarification. I should have realised myself.
Comment by Alan Bridger [06/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Sorry, realised this should be a post review action. Happy with the suggestion.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-496] Diagrams could use keys and other improvements Created: 03/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	Overview		

Issue Links:	Relates		
	relates to	SRDP-475	Figure 1, 6 and 9 not understandable
Suggested Solution:	Add at least keys and where relevant multiplicity to diagrams.		
			Post Review Action

Description

The diagrams in this (and some other) documents would benefit from keys, show what each diagram element means. Sometimes this is explained in the text, sometimes it is not. Many are half-way to UML/SysML but if they are meant to be one or the other that is not made clear. The problem is that if a diagram is not clearly using a standard language then the meaning of the symbols becomes doubtful in the mind of the reader.

Some would also benefit from the multiplicity in relationships to be clear.

Element catalogs would also be helpful, though I might agree that in this level of document that level of adherence to SEI recommendations might be unnecessary.

I also saw this in 688-TTAT-0002-MGMT, but did not comment (it is a reference doc., and I understand that things have moved on).

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

I've linked this document to [SRDP-475](#) which is where I am gathering all of the discussion of the figures.

Comment by [Robert Treacy](#) [15/Apr/20]

The solution has been discussed in this ticket and in the CoDR meeting. Notes from CoDR:



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

clarify diagrams simplify the technical nature of notation, generalize the diagram, and add a legend where needed.

Assigning to Jeff since he is proficient with model edits.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-494] Project creation: VLA Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	37
Suggested Solution:	I guess I disagree that we need to wait for full implementation of SRDP modes in order to have something that automatically generates projects. All you need to generate projects is the Co-Is, the number of hours at different priorities, the source list and the resource list. The PBT does the Co-Is and the source list and that's it.

Description

"(a) Initial. The initial goal is to reproduce the current capabilities of the proposal to Project migration"

The current capabilities are there are none. This is done by hand and is cumbersome and prone to error, the initial goal should be to create projects automatically.

Comments

Comment by [Jeff Kern](#) [03/Apr/20]

Let me clarify our intent: Replicate the behavior of the PBT in the suite of tools. Generating the full project in a ready to schedule way is the objective of the SRDP phases after the MVP is delivered (but only for a subset of modes). The reason for setting the initial bar so low is to have a useable tool as soon as possible. Development of the SRDP modes will require significant effort from NM Ops (we need to agree on observing and calibration strategies).

Unless my clarification above convinced you I think we should probably plan to discuss this at the meeting.

Comment by [Jeff Kern](#) [07/Apr/20]

I think we're talking past each other a bit here, I think I agree with what you are saying but to me project generation includes much more than that. We should be specific. I propose we carry this to the meeting and discuss there.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:

Initial phase of project builder tool should (proposed to) include at minimum: Authors, Sources, Hours Allocation, Configuration and Priority. (For VLA). Do analysis of if this costs time or if we can include it.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-493] Project creation Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Overview		

Page Number:	37
Suggested Solution:	I guess the question is what this document is for. There are things that get a lot of description and others that are barely mentioned (e.g. prioritization of projects after review) or not mentioned at all (e.g. RSRO review panel).

Description

Note that DDT projects are created immediately while those from semester solicitations project create may be months later.

Also, one of the two semester solicitations will be for 2 VLA configurations, there must be a way to create projects for a single configuration, rather than a single semester.

Comments

Comment by Dana Balser [03/Apr/20]
Overall I agree, but I think these are details for later. Let us know if you disagree.
Comment by Amy Mioduszewski [07/Apr/20]
I guess the question is what is this document for. There are some things that get a lot of description and others that are barely mentioned at all (e.g., prioritization of the projects after review).
Comment by Dana Balser [07/Apr/20]
This document is primarily intended for the software architect. So the prioritization of the projects, while rather complex from our point of view, is relatively simple for the architect. So the level of detail was driven, in part, by the software architects needs. In contrast, the concept document was intended for users (scientists).
Comment by Amy Mioduszewski [07/Apr/20]
So the architect doesn't need to know that the concept of semesters is quite different for VLA than for the GBT and the VLBA? For instance there is no set date for the start of a VLA



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

semester, it is when the configuration is declared, which depends on the move, which by definition is squishy.

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion at CoDR Meeting:

clarify need for filtering and flexible project creation in System Description document, perhaps capture nature of observations at submission (DDT, RSRO, etc.)

May also need to define or accommodate input from RSRO Review Panel

Comment by [Robert Treacy](#) [15/Apr/20]

Also added to Risk Register as TTAT-11:

Title: Risk of missing steps in Project Creation Process (Re: CoDR [SRDP-522](#))

Description: Requirements & Design did not consider specific process input needed for DDT, RSRO, and perhaps other process steps may have been missed

Mitigation: Engage stakeholders and explore more detail in variants, may be a candidate for a Quality Attribute Scenario



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-490] Stakeholder User Case: Sponsored proposals not handled withing tools	
Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	34
Suggested Solution:	Change the wording to "could be done outside the TTAT software".

Description

Why would the technical reviews for sponsored be done outside the TTA Tools when the proposals are submitted ti the TTA Tools? The reason technical reviews for External TAC proposals are done outside the TTA Tools is there is no proposal unless it is approved by the outside TAC, for Sponsored proposals that are submitted to the TTAT, why not do the technical reviews inside the tools?

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Valid point. Since both External TAC and Sponsored proposals are not scientifically evaluated by the NRAO review process, it seemed to make sense to have the technical review be done offline. Too, some Sponsored proposals are not public (even to TTA Group members) and so some Technical Reviews would have to be done offline.

Comment by [Dana Balser](#) [07/Apr/20]

I think that is fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-489] Major problem with DDT use case Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	32
Suggested Solution:	<p>I agree that the director approves the time not the committee. What I am saying is that the director should not have to do anything in the TTAT to approve. Them stating via e-mail for example "I'm OK with 3 hours at B-priority", is the approval.</p> <p>Anyway, I agree this would be good to discuss during the meeting because others might have ideas.</p>

Description

This starts on page 32 but there are parts throughout the rest of the document.

In this document there are three steps to the DDT review that mirror the semester solicitation. 1) OSR give review and a binary score (i.e. yes or no); 2) the OSC meets and assigns priorities; and 3) the site director gives their approval.

This does not map at all to how things are actually done (for the VLA and VLBA) and is extremely cumbersome. The site director is on the DDT committee, when the committee reviews a proposal they send comments on the proposal and recommends a number of hours and priority via e-mail. There is more or less discussion over email depending on the dispersion of recommendations. Since the site director is part of this discussion there is no need for separate approval from them. The TTA group member who is facilitating the review then puts together comments and grants number of hours and assigns priority based on the discussion and sends the disposition letter.

If we wanted to have a better record of the process the reviews could be done through the TTA Tools but the score must be a suggested priority, not a binary yes/no. There will be no OSC meeting, trying to get people together for a meeting would be a huge bottleneck. An e-mail discussion could be the "meeting", but then why not just do the reviews over email as well. Lastly, the site director should not have to do anything in the tool to give their approval. We don't make the Director push a button approving every proposal after the



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Director's review. The Director gives their approval and the TTA group just takes care of it. The same thing should be true for the site director and DDTs.

I am not saying there are not things that could be improved with the current process just that what is described in this document is not an improvement.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

I think it would be good to include this as a topic for discussion at the CoDR.

I don't think there is anything in the current concept that prevents the process that you describe from happening. That is, the OSC meeting could be emails. TB made it pretty clear to us that "The Director" approves time not committees. For DDT's this is delegated and in principle can be delegated to the scheduler (Director-> AD-> Scheduler). That is, the AD need not use the Tools but can delegate.

We found it convenient to use a similar structure for DDT proposals as Regular proposals. I agree that there is not much improvement but it does allow two things: (1) to use a more formal structure if deemed necessary; and (2) to better capture what happened. The Scheduler could just cut/paste (with some minor editing) the email discussion into the Tool. Right now I have no way of knowing why a certain proposal was granted DDT time or not.

Comment by [Robert Treacy](#) [16/Apr/20]

Per discussion in the CoDR meeting:

Clarify in the document that for the DDT case, the description is an internal software view, but the "User View" will consist of a single screen for entry of information from all phases



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-488] Feasibility Review Functional Requirements Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	31
Suggested Solution:	In section 3.5.1 (Panel Proposal Review (PPR)) under Feasibility Review, add the following Functional Requirement: "TTA group members shall be able to monitor the status of the individual technical review process. Specifically to view the REVIEW STATE."

Description
Should be added to requirements: TTA group members shall be able to monitor the status of the individual technical review process. Specifically to REVIEW STATE.

Comments
Comment by Dana Balser [03/Apr/20]
Good point. See Suggested Solution based on your text.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-487] Technical Reviews for each Allocation Request? Created: 02/Apr/20 Updated: 17/Apr/20 Due: 22/Jun/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	31
Suggested Solution:	Since there is one technical justification per facility per proposal there should be one technical review per facility per proposal.

Description

Having to do separate technical reviews for each allocation request is something the scientific staff doing technical reviews will rebel against. The Allocation Requests in a proposal will be related so it is inefficient to have each of them reviewed separately. The technical reviews for a proposal should be tied to the facilities rather than the allocation request.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Allocation Requests were invented, in part, to allow for a single proposal to include multiple Facilities. So I think most of the time there will be a one-to-one mapping between an Allocation Request and a Facility. If there was a proposal that had multiple Allocation Requests for the same Facility, then I assume in most cases the TTA Group member would assign the same reviewer to both Allocation Request, unless there was a really good reason not to do so. Regardless, I think we want to keep the mapping between Technical Reviewer and Allocation Request.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

The concept document (688-TTAT-002-MGMT) says that "Each request will be for one telescope, and should constitute the necessary resources to produce a scientifically viable data set." So it is likely that a significant percentage of proposals will have multiple allocation



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

requests for the same telescope, in fact I think 99% of the triggered proposals will have multiple allocation requests for the same telescope.

Having a separate technical review for each allocation request requires: 1) that there be a technical justification for each allocation request, which is not stated in document 688-TTAT-004-MGMT, in fact it implies that there is one technical justification per facility; 2) the person doing the technical review assignments to do more work; and 3) the technical reviewer to do more work since multiple technical justifications will have to be examined and multiple technical review reports will have to be written for single proposals.

Comment by [Jeff Kern](#) [08/Apr/20]

Marking this one for the meeting, I don't think it has converged yet?

Comment by [Dana Balser](#) [08/Apr/20]

I agree, we should discuss this at the CoDR.

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion in CoDR Meeting:

Committee recommends that the project should consider changing the Technical Justification from being tied to an Allocation Request to instead be tied to a Facility. The project should perform an evaluation including stakeholders to evaluate the impact and necessity of this change.

Comment by [Jeff Kern](#) [17/Apr/20]

Set Due date to be end of the first phase of implementation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-485] RSRO may not have pre-defined capabilities Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	18
Suggested Solution:	<p>In section 3.1.1 (Stakeholder Use Cases) update Use Case 4 to read:</p> <p>"As new Capabilities are developed for each Facility they need to be tested. RSRO was developed as a way to allow the user community to help with this development. Because there is significant risk the Capabilities for RSRO are different. Therefore when defining the proposal Solicitation, RSRO must have their own Capabilities. But RSRO may not have pre-defined capabilities."</p> <p>Removed last two sentences of Dana's suggestion. The rest is fine.</p>

Description
<p>RSRO may not have pre-defined capabilities. There is usually a list of RSRO capabilities for the VLA and VLBA, but these are not exhaustive lists. Anyone could propose to come help NRAO commission anything. So RSRO capabilities need to be open-ended.</p>

Comments
<p>Comment by Dana Balser [03/Apr/20]</p> <p>See Suggested Solution.</p> <p>I don't think this requirement breaks any of the concepts but feel free to include this as a topic for discussion if you disagree. For example, I think in practice we will just list any new capabilities in the Solicitation and if the user wants to propose for something not in the list we need to provide a text box, for example, for them to describe the new capability. I think we usually highly recommend that they talk to the observatory before doing this to check if the new capability is feasible.</p>



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-484] Facility attributes for triggered proposals Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	17
Suggested Solution:	In section 3.1.1 (Stakeholder Use Cases) change the following (in two places): "If triggered observing is available and the list of triggered criteria." to "If triggered observing is available and the list of triggered criteria cues."

Description

This is just asking for clarification:

"Each Facility will have the following configurable attributes:
...
If triggered observing is available and the list of triggered criteria."

Whether trigger observing available a configurable attribute by the observatory, the list of triggering criteria is configurable by the proposer. Or do you mean a list of trigger criteria cues? If the later, just add cues at the end to clarify.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Yes, we meant Triggered criteria cues. See Suggested Solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-483] Server load on submitted proposals Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Issue Links:	Relates			
	relates to	SRDP-430	Peak server load planning	Post Review Action
Page Number:	14			

Description

(c) Server shall be able to handle 60 proposals submitted within a two hour period.

For 20B there were ~80 proposals submitted in the final hour before the deadline. Therefore this number should be more like the server should be able to handle 200 proposals submitted in 2 hours.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

We plan to discuss this at the CoDR. See [SRDP-430](#).

Comment by [Robert Treacy](#) [15/Apr/20]

acceptable solution, per the discussion at the CoDR Meeting:

These tickets [SRDP-430](#) & [SRDP-483](#) are also related to the addition of reliability as a Quality Attribute, Develop and conduct several user driven Quality Attribute Scenarios, adding the plan and strategy to the document; potential scenarios include use of tutorials and the STSCI videos are a tool to shed light on how users use S/W to submit. Deadline?



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-482] Disposition Constraints Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	14
Suggested Solution:	In section 2.2, add to the end of Functional Requirement 5: "Here we show very simple Disposition Constraints, but in practice they can often be fairly complicated."

Description

Disposition constraints are usually much longer than can be fit nicely into a table like structure shown in table 1.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Agreed. See Suggested Solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-480] The GBO/NRAO TAC can grant time for some HSA proposals and there is no Super-TAC for HSA proposals Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	10
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Description

For the subset of HSA proposals that just involve GBO and NRAO resources the TAC can grant time and assign priorities. Also there is no Super-TAC for HSA proposals. The proposals go to the other TACs (current practice this is only EB) and rated. Then the schedulers get together and decide which proposals are going to be done.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

I understand that in practice for HSA proposals the schedulers get together to decide and this only involves NRAO, GBO, and MPIFR (Arecibo does not participate). But in our concept the schedulers **are** the super-TAC. In the future this may become more formal and we felt it was useful to have this structure. At the very least we wanted a mechanism for the schedulers to record information into the database.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

OK, use the super-TAC concept. What about the fact that the TAC does grant time for HSA projects that include GBO/NRAO only resources. The wording should be changed.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

See my comment about HSA projects just asking for GBO/NRAO facilities.

Comment by [Dana Balser](#) [07/Apr/20]

In this case the Super TAC is effectively the TAC. It is just a rubber stamp. I just do not see any problem here but maybe I am missing something. Feel free to include this as a topic of discussion.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Comment by [Robert Treacy](#) [16/Apr/20]

Per discussion in the CoDR meeting:

Re-evaluate granularity of the assignment of proposals to super TAC process, Clarify the language and perhaps structure regarding reviews and approvals currently defined as Super TACs (especially as relates to HSA)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-479] HSA DDT Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	10
Suggested Solution:	Remove the following topic sentence in the second paragraph of section 2.1.4: "HSA proposal Allocation Requests may only be submitted for semester Solicitations."

Description
The HSA can be asked for in a DDT.

Comments
Comment by Dana Balser [02/Apr/20]
I did not know that. See Suggested Solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-477] DDT may go into future semesters Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Review		

Page Number:	10
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Description

Occasionally DDT dispositions go into future semesters, so this should not be disallowed. I.e., the Allocation Disposition can go into future semesters.

Comments

Comment by [Amy Mioduszewski](#) [02/Apr/20]

I should add that sometimes DDT even occur in future semesters, so there should be no "implicit assumption" that they are executed in the semester they are submitted (this "implicit assumption" is stated in page 17).

Comment by [Dana Balser](#) [02/Apr/20]

If they wanted or needed to observe in a future semester then why not use the Semester Solicitation, or submit a DDT in the future semester? Can you give an example? Feel free to include this as a topic for discussion at the CoDR. Might be easier to discuss then and/or better to have a broader discussion.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Because there is a gap between the proposal deadline and the start of a semester and things happen in that gap. We had one of these last year. We received a proposal in Aug 2019 (semester 19A) to observe in Nov-Dec 2019 (semester 19B) for coordinated observations with other telescopes. The deadline for semester 19B was Feb 2019. The coordinated observations were not known in Feb 2019.

Comment by [Dana Balser](#) [07/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Good point. I think it would be useful to include this as a topic of discussion to make sure there are no problem with the software design.

Comment by [Robert Treacy](#) [15/Apr/20]

acceptable solution, per discussion CoDR Meeting:

Change the wording to clarify that DDT proposals are not necessarily executed in the current semester



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-475] Figure 1, 6 and 9 not understandable Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	None		

Issue Links:	Duplicate			
	is duplicated by	SRDP-498	Confused by figure 1 arrows	Done
	Relates			
	relates to	SRDP-498	Confused by figure 1 arrows	Done
	relates to	SRDP-496	Diagrams could use keys and other imp...	Post Review Action
Page Number:	24			
Suggested Solution:	Provide explanatory text around the figures in the documents. Additionally clarify that the figures are intended for explanation only and that the Architecture document is the single point of truth for object definitions and multiplicity.			

Description

Either explain what all the different symbols and lines mean or do not use these types of diagrams. Figure 9 is particularly egregious.

Comments

Comment by [Jeff Kern](#) [03/Apr/20]

Sorry these diagrams evolved out of our discussions so have a bit of "we know what they mean" flavor. I'll talk an action item to revise the documents to make them more clear, but wonder if you want to go over them in the meeting? I'd be happy to walk through them there.

Comment by [Alan Bridger](#) [03/Apr/20]

I know how that happens.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

I think I know what you mean too, but it might be useful to go through this structure in the meeting. I would perhaps say it depends on if I find a clearer explanation in the conceptual architecture, but it still might be useful as an introduction.

Comment by [Alan Bridger](#) [03/Apr/20]

Just to highlight a particular item in figure 6: The 1..* multiplicity on "Capabilities" looks like it is on the generalization arrow to "Facilities", which is impossible. I suspect the generalization is meant to be composition?

Comment by [Amy Mioduszewski](#) [07/Apr/20]

I agree with the solution, but am not going label it incomplete until it is done.

Comment by [Dana Balser](#) [07/Apr/20]

That is fine, but I then I think you either want to "Hold for Meeting" if you want to further discuss this at the meeting, or "Post Review Action" as an action after the meeting.

Comment by [Robert Treacy](#) [15/Apr/20]

The solution has been discussed in this ticket and in the CoDR meeting. Notes from CoDR: clarify diagrams simplify the technical nature of notation, generalize the diagram, and add a legend where needed.

Assigning to Jeff since he is proficient with model edits.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-474] Better definition of triggered Created: 02/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	7
Suggested Solution:	Change the definition of Triggered to be: "Triggered: An observation that is observed at at an unknown time based on a precipitating event."

Description

"Triggered: An observation that is observed at a specified time based on some event." Triggered proposals aren't (usually) for a specified time. Below is more accurate.

Triggered: An observation that is observed at at an unknown time based on a precipitating event.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

Agreed.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-466] Phase durations - fixed or variable? Created: 01/Apr/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-010-MGMT: TTA Tools Execution Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	7
Suggested Solution:	Clarify that the time box for development is variable from phase to phase and that the duration is determined at the beginning of the phase when all requirements and design have been completed.

Description

In the Project Management Plan it seems to say that the phases in table 2 of the execution plan are timeboxed, and that partial delivery is allowed (to hold schedule). Does that make sense for all the phases here? E.g. there may not be 46 days worth of technical debt 1 to address.

If you gain time can you extend elsewhere to gain functionality? I would suggest that most options should be regularly considered by project management - holding schedule, completing scope, etc. Within reasoned judgement of course.

Comments

Comment by [Jeff Kern](#) [02/Apr/20]

The time boxed approach is a statement about the preferred management techniques (adjusting scope within a box to maintain schedule). There are several reasons we have selected this approach:

- We are coordinating effort contributions from many groups across the observatory, in order to ensure that resources are available when we need them we need to be deterministic about our schedule.
- With the large scope of this project I worry about going down "rabbit holes" of special cases in one area or another while not getting the basic functionality implemented across the entire suite. By time boxing each phase we force ourselves to be ruthless in prioritizing within each feature.
- By forcing frequent delivery and validation we ensure the system and the stakeholder wants do not diverge.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

That said the sizes of the boxes are intended to be refined at the beginning of each phase setting a detailed schedule for the phase, so the case you mention (insufficient technical debt) occurs, as we plan that phase the box will be smaller and the rest of the schedule will adjust.

I think that what was unclear is that we plan to refine the time box at the beginning of each phase, my solution would be to clarify that the tkmeboxes are variable size, and set on a phase by phase basis.

Comment by [Alan Bridger](#) [08/Apr/20]

Happy with that.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-465] Table I is repeated Created: 01/Apr/20 Updated: 16/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-010-MGMT: TTA Tools Execution Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	6
Suggested Solution:	Regenerate the pdf file.

Description

Table 1 appears to be repeated.

Comments

Comment by [Jeff Kern](#) [01/Apr/20]

As I said in the meeting the duplicated table is an artifact of the generation of PDF from the word document, apologies for not catching these prior to making the package available. After responding to the committee comments we will regenerate the entire package and ensure that these types of artifacts are not present.

Comment by [Alan Bridger](#) [06/Apr/20]

Should this move to "Make Action"? Though I'm sure the particular action would happen anyway.

Comment by [Jeff Kern](#) [06/Apr/20]

I've gone ahead and moved it to an action to be completed.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-461] UI Look and feel - influence of ALMA Created: 31/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Jeff Kern
Resolution:	Unresolved	Votes:	0
Labels:	Overview		

Issue Links:	Relates
	relates to SRDP-531 PST & ALMA-OT Done
Page Number:	8
Suggested Solution:	This has to be up to the project and stakeholders, but I would urge not to get too trapped into one way of thinking.

Description

It is noted that the "Look and feel of software should be ... as close to the ALMA interface as possible"

While I understand (and appreciate) this goal it should be noted that the comparable ALMA user interfaces that span the TTA toolset are somewhat varied, and of course that there is a plan to change the technology behind one of them (as is noted elsewhere). Also, of course, the ALMA tools are somewhat dated in terms of what is a rapidly moving technological area. That said I think I understand the intent in the statement. I would aim more at being influenced by the ALMA concepts (which I think will be retained, even as the tools evolve), and I think the project would be wise to track trends in good UX design. I certainly agree with the goal of commonality across the targetted facilities.

*

Comments

- Comment by [Robert Treacy](#) [31/Mar/20]
- Issue was opened under the SRAO PMP, should be under the TTAT PMP
- Comment by [Jeff Kern](#) [07/Apr/20]
- I'd like to talk about this one at the meeting, I've marked it as such.
- Comment by [Robert Treacy](#) [15/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Acceptable solution Per discussion in CoDR Meeting:

Clarify requirement, compile a quantified list of things people like about the ALMA OT and what they don't like about the PST. Mine Science Helpdesk tickets to identify what is tripping people up about the PST.

Comment by [Robert Treacy](#) [15/Apr/20]

Note additional suggested action from CoDR OVERVIEW Slide 18:

Modify requirement to reflect this understanding of the intent. (Due: April 30, 2020)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-446] Error! Reference source not found. Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	Software Development Process
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Robert Treacy
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	18
Suggested Solution:	Links were not converted properly from Word to PDF. They should read: "Section 5, Software Testing Verification and Validation" and "Section 6, Release Management"

Description
p. 18: two instances of "Error! Reference source not found."

Comments
Comment by Jeff Kern [16/Apr/20]
Assigning to Bob to make check that these do not recur when we regenerate the pdfs.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-443] Error: Reference source not found Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	Work Management Plan For SRDP
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Robert Treacy
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	11
Suggested Solution:	This looks like an artifact of converting the Word document to a PDF. The "reference" refers to Figure 2.

Description
p. 11: “Error: Reference source not found” in bold.

Comments
Comment by Jeff Kern [16/Apr/20]
Assigning to Bob to make check that these do not recur when we regenerate the pdfs.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-442] <u>Error: Reference source not found</u> Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	Work Management Plan For SRDP
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Robert Treacy
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	5
Suggested Solution:	The error is an artifact of conversion from Word to a PDF document. The "references" are to Sections 5.1 and 5.2.

Description
p. 5: “Error: Reference source not found” in bold.

Comments
Comment by Jeff Kern [16/Apr/20]
Assigning to Bob to make check that these do not recur when we regenerate the pdfs.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-440] Keeping track of semesters, joint time Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Workflow		

Page Number:	35
Suggested Solution:	<p>Modify Functional Requirement 1:</p> <p>"For each Facility a csv-formatted file shall be generated that lists: ALLOCATION REQUEST ID , PRINCIPAL INVESTIGATOR , NORMALIZED LINEAR -RANK SCORE , REQUESTED TIME , and APPROVED TIME (broken down by semester) for each SCHEDULING PRIORITY (A, B, C [filler], F [fixed], and N [rejected])."</p>

Description

p. 35, Functional Requirements, points 1 and 2;
 Shouldn't we need to maintain information on which semesters time is approved for? And joint time on other facilities.
 Some other RIDs I've put in mention these points—in general, these should be tracked carefully throughout the process.

Comments

Comment by [Dana Balser](#) [27/Mar/20]

Agreed. And we do track this information now but maybe not in the most efficient, transparent way. See suggested solution. Note that joint time on other facilities is included in Functional Requirement 2 since HST, for example, is considered a Facility.

Please let us know of any other points. Too, feel free to include this as an item to be discussed at the CoDR.

Comment by [Craig Heinke](#) [01/Apr/20]

Exactly which elements should be captured separately at the proposal stage is worth a quick discussion at the review.

Comment by [Robert Treacy](#) [16/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

per discussion in the CoDR Meeting:

Update System Description to reflect the requirement in the System Concept to capture to database approved *Allocation Requests* and *Allocation Dispositions* as well as the metrics to track these items.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-438] Modify Disposition during & after also? Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	33
Suggested Solution:	Modify the text as: "A TTA Group member shall be able to create and modify the Allocation Disposition before, during, and after the TAC meeting."

Description
p. 33, Functional Requirements, point 4; “..shall be able to create and modify the Allocation Disposition before the TAC meeting.” —Surely we want them to be able to also modify the Disposition during and after the TAC meeting?

Comments
Comment by Dana Balser [27/Mar/20]
Agreed. We were focused here on the ability of a TTA Group member to insert preliminary priorities before the TAC meeting. But of course they need to be able to edit the Allocation Disposition during and after the TAC meeting too. See suggested solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-437] refer to the feasibility reviews? Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	31
Suggested Solution:	<p>Suggest modifying the text:</p> <p>4. To facilitate the review process, in addition to the online display of proposals they shall be made available for Feasibility reviewers and the TTA Group as:</p> <ul style="list-style-type: none"> (a) Individual PDF files of each Proposal. (b) A tar file containing all of the individual Proposal PDF files. (c) A single PDF file containing all of the Proposals for the Feasibility reviewer.

Description

p. 31, Functional Requirements, element 4; “in addition to the online display of proposals they shall be made available for SRP members and the TTA Group as....”

—Should this refer to the feasibility reviews here, rather than the proposals?

Similarly for element 5?

Comments

Comment by [Dana Balser](#) [27/Mar/20]

I think we want to refer to "Proposals" which includes the Allocation Requests and contains the information that is being reviewed. That is, this functional requirement is how the Feasibility reviewer is assessing information from the "Proposal" to craft their review.

But we should replace SRP member with Feasibility reviewer (see suggested solution).



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-433] Check boxes for joint time, multiple semesters? Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	None		

Page Number:	20
Suggested Solution:	Add a Functional Requirement in section 3.2.2: "For Semester Solicitations the author shall be able to specify the semesters for which the proposed observations are expected to be executed for each Allocation Request."

Description

p. 20; this might be a good place to require clear check boxes for proposers to mark for:
 —Joint time with external facilities (choose from list).
 —Specify which semesters they request time on. (This isn't always clear in the current system, causing annoyance to SRPs.)
 This is not an exhaustive list.

Comments

Comment by [Dana Balser](#) [27/Mar/20]

> —Joint time with external facilities (choose from list).

Proposals that request time on an external facility through our joint programs will have separate Allocation Requests. For example, a proposal that request the VLA and HST will most likely have two Allocation Request: one for the VLA and one for the HST. So it will be very clear that this is part of a joint external program.

>—Specify which semesters they request time on. (This isn't always clear in the current system, causing annoyance to SRPs.)

Good point. We forgot to add this in the current document.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

> This is not an exhaustive list.

Please let us know if there is anything else. Feel free to include this as something to discuss at the meeting.

Comment by [Craig Heinke](#) [01/Apr/20]

link to [SRDP-440](#)



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-430] Peak server load planning Created: 26/Mar/20 Updated: 17/Apr/20 Due: 30/Apr/20	
Status:	Post Review Action
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Dana Balser
Resolution:	Unresolved	Votes:	0
Labels:	Architecture		

Issue Links:	Relates				
	relates to	SRDP-464	2.3 Non-Functional Requirements - num...	Done	
	relates to	SRDP-483	Server load on submitted proposals	Post Review Action	
Sub-Tasks:	Key	Summary	Type	Status	Assignee
	SRDP-447	Consider training videos as part of s...	Sub-Test	To Do	
Page Number:	14				

Description

p. 14, Non-functional requirements; The system shall have the following performance metrics which occur at peak times during the day of the proposal deadline. Here we quote values for the PST during the 20A semesters.
 e.g. “Server shall be able to handle 140 simultaneous users”
 —Surely we want to plan for substantial increase of the user base, as we make science-ready data products easily accessible to a larger fraction of astronomers?
 We may want to incorporate the capacity to show videos of how to do many elements of the proposal process, as Hubble has done, which may also increase the load (though this might be on another server).

Comments

Comment by [Dana Balser](#) [27/Mar/20]

Good point. Do you have a recommendation for this metric? If not, we can discuss this at the CoDR meeting.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Note that Jeff Kern has split the suggestion about training videos to a separate sub-ticket.

Comment by [Craig Heinke](#) [01/Apr/20]

I don't know what the appropriate solution is here, but might be worth a short discussion at the meeting.

Comment by [Robert Treacy](#) [15/Apr/20]

acceptable solution, per the discussion at the CoDR Meeting:

These tickets [SRDP-430](#) & [SRDP-483](#) are also related to the addition of reliability as a Quality Attribute, Develop and conduct several user driven Quality Attribute Scenarios, adding the plan and strategy to the document; potential scenarios include use of tutorials and the STSCI videos are a tool to shed light on how users use S/W to submit. Deadline?

[SRDP-536] what is the difference between a scheduling block and an execution block? Created: 07/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20			
Status:	Done		
Project:	Science Ready Data Products		
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept		
Fix Version/s:	TTA CoDR		
Type:	Review item Discrepancy	Priority:	Minor



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	13
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Description
The difference was not clear.

Comments
Comment by Jeff Kern [07/Apr/20]
A scheduling block is defined as: A scheduling block contains all the instructions needed by the observatory system to execute a continuous portion of the proposed science defined within a Project. Typically the “observatory system” is the telescope control system but it may also be a computing cluster. More than one Scheduling Block may be required to complete a Project.
The execution block is [rather tersely] defined as the result of the scheduling block.
I think of the scheduling block as the instructions for the observation and the execution block is the data that comes from that execution. For ALMA we often refer to this as the SDM.
Comment by Robert Treacy [16/Apr/20]
per discussion in the CoDR Meeting: The explanation given in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-535] author gender should have more than two options Created: 07/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	9
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Description

Gathering metrics on gender is an excellent step towards evaluating systematic effects. A person should be able to specify his/her/their preferred gender using more than just binary (i.e. M/F) options.

Comments

Comment by [Dana Balser](#) [07/Apr/20]

Agreed. Based on discussions with Lyndele von Schill, the Director of Diversity & Inclusion, she recommended the following:

"The user should be able to select from three options: male, female, self-identity. If self-identity is selected the user should be able to input a string which will be the value for their gender."

This is what we are currently implementing in the PST.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:
The explanation given in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-534] what is the global ID? Created: 07/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	9
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Description

This is mentioned on page 9 but not defined. I inferred that it is different than the proposal ID.

Comments

Comment by [Dana Balser](#) [07/Apr/20]

The Global ID is an ID connected with a person. This is necessary since people will change names, emails, etc. This is really part of the Account system and not specific to the TTA Tools.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:
The explanation given in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-533] what are projects that include SRDPs Created: 07/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	7
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Description

Text distinguishes VLA "projects that include SRDPs" but this is not described further.

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

SRDP = Science Ready Data Products.

We foresee two types of capabilities for the VLA at the end of the project. Some capabilities will be designed to work with the automated pipelines to produce science ready products, however to not limit the available modes there will be other capabilities that are more hardware focused and may not have associated pipelines (particularly imaging).

Proposal utilizing the science ready capabilities are what we mean by projects that include SRDPs. The GBT does not currently have plans to implement Science Ready Data Products so not all proposals will contain SRDPs.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:
The explanation given in this ticket is acceptable



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-532] updates to Users Committee should clarify scope & timescale of project. Created: 06/Apr/20 Updated: 15/Apr/20 Resolved: 15/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	Overview		

Page Number:	5
Suggested Solution:	Present updated estimates and schedule at NRAO User Committee meeting.

Description

This actually refers to document 688-TTAT-001-MGMT

There is a comment about how the Users Committee appears to misunderstand the scope and timescale for this effort. Updates to this committee should clarify these.

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

To be honest I think many of us (including myself) had misunderstood the scale of these tools. At last years meeting I tried to make an estimate of the scale, and I will certainly present the updated information at this years User's Committee Meeting.

Comment by [Rachel Osten](#) [07/Apr/20]

can we have a short section of the meeting devoted to communication?

Comment by [Robert Treacy](#) [15/Apr/20]

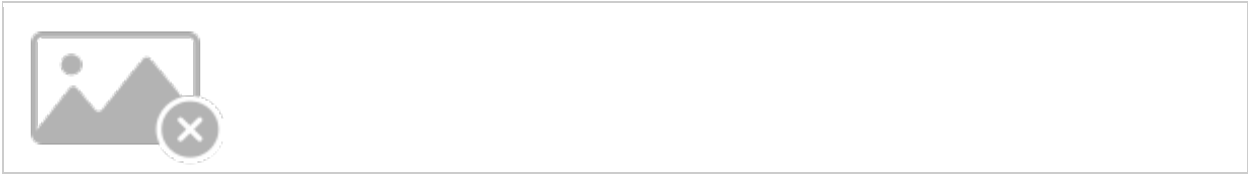
Suggested solution discussed and accepted in CoDR meeting:

This document is now approximately one year old. At the UC meeting last year I presented the slide to the right. (below)

This year we will be able to provide a more detailed assessment.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0





Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-531] PST & ALMA-OT Created: 06/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Duplicate	Votes:	0
Labels:	None		

Issue Links:	Relates			
	relates to	SRDP-461	UI Look and feel - influence of ALMA	Post Review Action
Page Number:	4			

Description

this actually refers to 688-TTAT-001-MGMT: Project Charter.

The goal is to make the new PST more ALMA-like, yet the ALMA-OT is undergoing a refresh. Seems like is somewhat of a moving target. Maybe set up a list of desiderata based on current and future anticipated ALMA-OT capabilities and look & feel?

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

I have linked this to [SRDP-461](#) which makes a similar point. I would propose to close this ticket and address both on that ticket. I have added you as a watcher on that ticket.

Comment by [Rachel Osten](#) [07/Apr/20]

listing this as "complete" since Jeff has merged it with another similar ticket.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-530] question about defined scope. Created: 06/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-044-MGMT: Program Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	13
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Description

this actually refers to document 530-[SRDP-044](#)-MGMT

Only the defined scope will be delivered – is the system designed to be flexible enough to incorporate incremental changes/add-ons later on?

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

We hope so! The statement in the program plan is a general prohibition against scope creep, but we have requirement for extensibility and reuse that are included in that baseline scope.

The design of the tool suite is both modular and configurable intended to be able to accommodate future capabilities without significant change. For instance although we currently have no requirement to allocate processing time through this suite of tools we have considered it as an alternative use case to build the correct flexibility into the system. We have also tried to be forward looking to the ngVLA, and ensuring that this suite of tools accommodates the developing concept of operations for that facility.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-529] how do the risk and issue owners interact with each other? Created: 06/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-044-MGMT: Program Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	11
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Description

this actually refers to the document 530-[SRDP-044](#)-MGMT.

The risk owner is not the same as the issue owner – how do these owners interact with each other?

Comments

Comment by [Robert Treacy](#) [08/Apr/20]

Rachel,

We schedule a review of the risk register at least quarterly in the weekly administration meeting. Risk owners are advised to review and update their risks on this cadence. Once a risk is triggered as an active issue (or if an issue arises from another source), the project manager is responsible to assign ownership to the issue and track it as a plan to address it develops. The project manager acts as liaison between the risk owner and issue owner until resources, a budget, and schedule are established; as well as any need for change control is determined. Depending on the severity and urgency of the issue, this could range from trivial to a major hit on the project. Once a solution is incorporated into the budget, schedule, and scope for the project; monitor and control of the work is the responsibility of the project manager, as with other normal project activities. Issues of critical urgency may have a fast tracked implementation, but the process is still followed up to assure no loose ends are left.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

-Bob

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:

The explanation given in this ticket is acceptable. Since the SRDP Program plan was provided for reference, no changes to the document are necessary



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-528] timescales for adjusting resource needs Created: 06/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-044-MGMT: Program Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	10
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Description

This actually refers to the document 530-[SRDP-044-MGMT](#); I didn't see this document in the pull-down menu.

There is a comment that resources are requested at an annual budget and resource summit – is there an opportunity for feedback and interaction on resource allocation on less than a yearly timescale? There appears to be monthly, quarterly and annual reporting, but I wasn't sure if those provided opportunities for changing resource allocations if need be.

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

Adjusting the resources needed by the project within existing resource limits can be done at virtually any time scale. What is considered at the year scale is the overall envelope of effort available. For instance if we found that we needed additional developers added to DMS to accomplish the project (as well as the other DMS commitments) the annual meeting is the correct process to get those prioritized in the observatory budget.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-527] question about how priority and resources are utilized Created: 06/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-044-MGMT: Program Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Rachel Osten	Assignee:	Rachel Osten
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	8
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Description

This is actually from the document 530-[SRDP-044](#) MGMT; I didn't see that in the pull-down menu.

on page 8, there is a comment that funding is through existing operations funds, and is priority and spend-rate limited. What sets the priority and is there an upper limit on resources utilized for this project?

Comments

Comment by [Jeff Kern](#) [06/Apr/20]

Overall priorities are set by the observatory through our annual Program Operating Plan, SRDP and the TTA Tools are large enough projects that they appear in the plan. Department priorities are set by the assistant directors for their department, close coordination between SSR and DMS in this case keeps us aligned, with escalation path to the Observatory director in case of disagreement (we have never needed to use this). Within the SRDP program the SRDP Director (me) is the final decision maker on priorities.

There is no defined upper limit on the resources however DMS has guidelines that they use (see the work management plan) to help balance the needs of the multiple stakeholders.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-526] Risk of further home working Created: 06/Apr/20 Updated: 08/Apr/20 Due: 30/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-006-MGMT: Risk Register
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Fixed	Votes:	0
Labels:	None		

Suggested Solution:	Add Social Distancing as a risk in the risk register.
----------------------------	---

Description

Should a risk be added relating to the impact of possible future "outbreaks" of home/remote working?

Sincerely hope this doesn't happen, but I think we have to realise that it might.

Comments

Comment by [Jeff Kern](#) [07/Apr/20]

I think all risk registers going forward will carry a pandemic (and those in Chile will carry a civil unrest risk for a while to come). However I am not convinced that it is really a significant risk for this project. We are already a distributed project (multi-site development and specification and validation) so we were going to be doing much of our discussion over video con anyway. I think our hybrid development process with explicit design steps actually lends itself well to a very distributed team. Having formal design stages and an efficient method of capturing that design (the SysML Model) should decrease the amount of "hallway design".

I think the biggest risk of continued WFH will be a overall decrease in efficiency, but I think that we are already starting to see people adjust and become more focused as we all develop strategies to manage the new normal. So adding it to the risk register I think makes sense, but I think is actually not one of the larger risks for the project.

Comment by [Robert Treacy](#) [07/Apr/20]

Added the following to the Risk Register:

Title: TTAT-8 Working in Isolation



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Description: Risk due to the entire team working from home and physical isolation of team members. (ex. COVID-19, but other disasters could have similar result)

Risk Strategy: Encourage team members to profile their tools and work environments for a seamless transition to work in isolation

Score: Low

Comment by [Alan Bridger](#) [08/Apr/20]

Happy with that.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-525] Resource loss risk Created: 06/Apr/20 Updated: 14/Apr/20 Resolved: 14/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	530-SRDP-006-MGMT: Risk Register
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Done	Votes:	0
Labels:	None		

Description

I realise the project is resource limited, but I thought that a risk pertaining to the loss of resources, especially critical ones, because of unanticipated operational needs should be present.

Comments

Comment by Robert Treacy [07/Apr/20]
Added the following to the Risk Register: Title: TTAT-9 Loss of Critical Resources Description: Risk to operations in the event critical support resources are lost, especially during a proposal call. Risk Strategy: Provide coverage on unanticipated operational needs by cross training DAs and Scientists in operations on all steps involved in proposal handling. Score: Low
Comment by Alan Bridger [08/Apr/20]
Bob - shouldn't the description refer more to the risk to the project, rather than risk to operations? That's what I had in mind - that resources are pulled from the project because of operational priorities. That said the strategy sounds fine.
Comment by Robert Treacy [08/Apr/20]
Sorry Alan, I misunderstood. We have defined this for particular cases in TTAT-1 and TTAT-2, so I edited this to be of a more general nature. I have reworded the description and strategy as follows:



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Description: Risk to progress on project in the event resources providing critical support are lost or pulled away for unanticipated operational needs.

Risk Strategy: Advise operations to provide broad coverage on all operations processes by cross training developers, DAs, and Scientists with the goal to minimize a need to depend exclusively on resources critical to the project.

Note: I know that DMS struggles with the trade off between small teams with focused skill sets vs. larger teams with broader skills, not sure how this is approached within the scientific staff, but becomes important for the project for things like validation.

Comment by [Alan Bridger](#) [14/Apr/20]

Sounds like this is done, so closing



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-522] Reviews - general comment Created: 06/Apr/20 Updated: 15/Apr/20 Resolved: 15/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description , TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Done	Votes:	0
Labels:	Overview, Review		

Suggested Solution:	We think it would be best to give a presentation on the review process at the CoDR first and then we can discuss how best to proceed.
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Description

A general comment on the design around handling the reviews. I was (am) having some trouble getting my head around the various reviews that (may) take place, so at least to an outsider it feels a complex area with a number of reports that need to be tied together. It may look more straightforward on the inside.

However, given my slight confusion I'd like to recommend this area is drafted in a bit more detail fairly early to aim to ensure that all the relationships can be put together without getting in a design knot. I'm not gainsaying the design I see, which looks ok, just I feel its an area where an early mis-step might cause difficulty later.

Comments

Comment by [Alan Bridger](#) [08/Apr/20]

I agree a short presentation at the meeting would be useful. Thanks.

Comment by [Robert Treacy](#) [15/Apr/20]

Per discussion in CoDR Meeting, added following to Risk Register TTAT-10-

Title: Uncertainty in Proposal Review variants

Description: Insufficient details with complexity in many proposal review variants at this time pose a risk to potential redesign if variants significantly impact design

Mitigation: Engage stakeholders and explore more detail in variants, may be a candidate for a Quality Attribute Scenario



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-512] Testability? Created: 05/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Done	Votes:	0
Labels:	None		

Issue Links:	Blocks			
	is blocked by	SRDP-516	Quality Attributes	Post Review Action
Page Number:	6			

Description

Should "Testability" be added to the quality attributes? It can be difficult to test web-based systems unless the system is designed to support testing. Again, I think you are doing that, but it might be worth adding the quality.

Comments

Comment by [Jeff Kern](#) [08/Apr/20]

This ticket has been subsumed by [SRDP-516](#) closing this one. Let me know if you disagree.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-511] Availability? Created: 05/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Done	Votes:	0
Labels:	None		

Issue Links:	Blocks			
	is blocked by	SRDP-516	Quality Attributes	Post Review Action
Page Number:	6			

Description

Isn't "Availability" an important attribute to consider?

Comments

Comment by [Jeff Kern](#) [08/Apr/20]

This ticket has been subsumed by [SRDP-516](#) closing this one. Let me know if you disagree.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-510] Modifiability? Created: 05/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Mark Whitehead
Resolution:	Done	Votes:	0
Labels:	None		

Issue Links:	Blocks			
	is blocked by	SRDP-516	Quality Attributes	Post Review Action
Page Number:	6			

Description

Quality Attributes: I think "Modifiability" applies too. Its related to what this section says about Sustainability and Maintainability, but probably should be explicitly drawn out. From the general statements made in section 1 I think you are thinking about it.

Comments

Comment by [Jeff Kern](#) [08/Apr/20]

This ticket has been subsumed by [SRDP-516](#) closing this one. Let me know if you disagree.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-506] Solicitation Boundaries Created: 03/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	21
Suggested Solution:	In section 3.3.2 (Functional Requirements), number 1, Add the following text: "The software shall not allow a proposal to be submitted at a date/time that is outside the Solicitation date/time boundaries."

Description
Functional Requirements 1 discusses solicitation dates. Although there is no mention, presumably the software would simply not accept proposals outside the solicitation dates (or grace period)?

Comments
Comment by Dana Balser [06/Apr/20]
Correct. See Suggested Solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-505] Resubmitted proposal should automatically conflict if original conflicted Created: 03/Apr/20 Updated: 15/Apr/20 Resolved: 15/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	Review		

Page Number:	27
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Description

Under Functional Requirements, 3a should be followed by a 3b: The proposal is a re-submission where the reviewer had a conflict with the original.

Some mention of this should occur at the top of the same page under "SRP Member: conflicts". It says "Care must be taken of any conflicts of interest...etc.". It seems to me that this process could be made automatic.

Comments

Comment by [Dana Balser](#) [06/Apr/20]

We need to be a little careful here. Since reviewers change with time, a current reviewer may not have been a reviewer for the previously submitted proposal in question. I suspect we could handle cases in which they were a reviewer automatically but we need a way to handle those cases for which they were not a reviewer.

Maybe we should add a separate Function Requirement to handle RE-SUBMISSIONS and RELATED PROPOSALS.?

Comment by [Jeff Kern](#) [08/Apr/20]

Holding this for the meeting. I am a bit concerned that this introduces a layer of complexity that while useful isn't really needed.

Comment by [Robert Treacy](#) [15/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Although automated solution seems simple on the surface, too many edge cases drive this to a manual review for conflict, therefore per CoDR meeting discussion: recommended solution accepted



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-504] Review Types are not clear Created: 03/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	Review		

Page Number:	28
Suggested Solution:	In section 1.4 (Definitions) change "Review Type: For individual science reviews this corresponds to the type of review that is assigned (e.g., primary, secondary, tertiary, or none). A review is performed for primary, secondary, and tertiary; no review is performed for none. The difference between primary, secondary, and tertiary is the level of responsibility during the consensus review meeting."

Description

The Review Type (item 11) was mentioned briefly on page 25, but "primary" was the only example. What are "none", "secondary" and "tertiary" other than not primary? Apologies if I've missed this somewhere.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Review Type is defined in section 1.4 (Definitions). We should probably flesh this out to be more clear. See Suggested Solution.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-500] Alignment of proposal cycles Created: 03/Apr/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	9
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Description

Are the proposal cycles/semesters of the NRAO telescopes aligned? If so can it be reasonably assumed they will stay that way?

I ask because there seems to be an assumption that they are aligned, and if that changes then the design could be stressed. (Note I haven't yet read the architecture document properly yet).

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Yes, the proposing semesters are aligned for all telescopes and we do not expect this to change.

Comment by [Alan Bridger](#) [06/Apr/20]

Thanks.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-499] No locking on proposal editing Created: 03/Apr/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	9
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Description

Section 2.1.1 says that there will be no locking for editing proposals, with the assumption that collaborators are communicating. That might be fine - understand the reasons - but what happens if the assumption is false? Is there a clear description of how that situation would be handled?

Comments

Comment by [Dana Balser](#) [03/Apr/20]

The current proposal submission tool behaves in this fashion. There have been maybe two instances where users complained of losing information because a collaborator modified the proposal. We politely told them that it was their responsibility to communicate.

Comment by [Alan Bridger](#) [06/Apr/20]

Thanks, if you're happy with that approach then that's fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-498] Confused by figure 1 arrows Created: 03/Apr/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Duplicate	Votes:	0
Labels:	None		

Issue Links:	Duplicate			
	duplicates	SRDP-475	Figure 1, 6 and 9 not understandable	Post Review Action
	Relates			
	relates to	SRDP-475	Figure 1, 6 and 9 not understandable	Post Review Action
Page Number:	8			
Suggested Solution:	Address issue on SRDP-475			

Description

In figure 1 the solid arrows are described as "an extension". I'm not clear on what that means, especially when I see that "Feasibility Reviews" extends "Allocation Request" (or is it vice-versa?). What does that mean? My UML is far from top class, but as far as I understand things "extensions" in UML refer to customizing UML itself.

Also, why does the figure show that an "Observing Project" extends "Proposal", and that "Proposal" extends "Observing Project"?

Comments

Comment by [Jeff Kern](#) [03/Apr/20]

This comment echos Amy's comment on [SRDP-475](#), I've added you as a watcher. I suggest closing this issue and having the discussion there.

Comment by [Alan Bridger](#) [03/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

That's fine. I'll move to this one to done.

Comment by [Alan Bridger](#) [03/Apr/20]

Essentially a duplicate. Discuss in [SRDP-475](#) instead.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-495] Project creation: User changes Created: 02/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Do	Votes:	0
Labels:	Workflow		

Page Number:	37
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Description

The non-functioning requirements say that user should not have to enter sources or resources again, however there should be a mechanism for the user to change the sources or resources. They will need permission if it is something significant like changes of source coordinate or frequency setups, but this should be easy to request and TTA group member to approve or decline. Cosmetic changes (e.g., changing the name of a source) should be allowed without permission.

Comments

Comment by [Jeff Kern](#) [03/Apr/20]

Making changes to the sources and fields of the project once created is the province of the OPT for the VLA, SCHED for the VLBA, and probably is not necessary for the GBT. Because this suite must support multiple facilities I think the detailed project modification needs to be done by the facility.

That said, I am hopeful that the resource and source editors developed for the TTA Tools will be able to be integrated into the OPT, and eventually a reworked OPT will make the difference of tools invisible to users. I suggest that we discuss this at the meeting and make clear where the boundaries are.

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting:

The particular items to be edited should be done in the OPT



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-492] Process Closeout: Functional Requirements Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	36
Suggested Solution:	In section 3.8.2 (Functional Requirements), change Function Requirement 2 to be: "There shall be a mechanism for a TTA Group member to make positive Allocation Dispositions public in the archive. Either for a given proposal or for all proposals within a semester Solicitation."

Description

Setting the proposals public should be automatic with the sending the disposition letters. Also only approved and filler proposals are made public.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

Folks in the TTA group disagree as to whether this should happen automatically or not. Some feel that we should wait a few days for any feedback before we pull the trigger. So it seems best to not make this automatic.

We have been using the word "positive Disposition" in the document to imply either approved or filler (see Suggested Solution).

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-491] Process Closeout: disposition letter wording Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	36
Suggested Solution:	<p>In section 3.8.1 (Stakeholder Use Cases) change:</p> <p>"The TTA Tools shall generate a template disposition letter for each proposal that can be reviewed and modified by a TTA Group member."</p> <p>to:</p> <p>"The TTA Tools shall generate a disposition letter from a template for each proposal that can be reviewed and modified by a TTA Group member. In most cases the disposition letter should be usable without modification."</p>

Description
<p>"The TTA Tools shall generate a template disposition letter for each proposal that can be reviewed and modified by a TTA Group member."</p> <p>should be:</p> <p>"The TTA Tools shall generate a disposition letter from a template for each proposal that can be reviewed and modified by a TTA Group member. In most cases the disposition letter should be usable without modification."</p>

Comments
Comment by Dana Balser [03/Apr/20]
Agreed.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-486] Why are conflicts for Technical Reviews handled outside the tools Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	31
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Description

First conflicts are not all that rare for technical reviewers. Second, the current tools handle the conflict status for technical reviews, why should the new tools not do so? This seems to place undue burden on the member of the TTA Group organizing this all.

Comments

Comment by [Dana Balser](#) [03/Apr/20]

This choice was made primarily based on feedback from Mark Claussen and Toney Minter. In practice we really need to relax the conflict criteria for technical reviews since they are performed by observatory staff who write a lot of proposals (e.g., many institutional conflicts). Moreover, the technical reviewer is not assigning a score. So we felt a better approach was to just use the automatic conflicts (technical reviewer is an author) and discuss any other conflicts offline. Mark and Toney felt this was less work for them.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-48 I] HSA and GMVA are all are fixed date Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-002-MGMT: TTA Tools Concept
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	10
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Description

The HSA and GMVA if they are approved are "F", or fixed date. However for the VLBA+VLA this might change so the idea of priorities other that F should not be designed out.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

Okay, but I do not think we have a requirement that says HSA and GMVA have to be set as "F" priority. We do say in section 2.1.5 (Global Millimeter VLBI Array (GMVA)):

"GMVA observations are scheduled during fixed periods during the Spring (April/May) and Fall (September/October)."

Which I think is currently accurate. Do you think we need to be explicit that this might change?

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-478] The site director should not never be a choke point for DDTs Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	10
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Description

This is just a simple not understanding and I realize this is just an e.g., but I don't know why an unavailable site director would be a choke point for DDTs, ever. I know further in the document there are descriptions of how this happens. I guess this is my first RID where I completely disagree with how the DDT review process is described in this document.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

Okay, we might want to leave this as a topic for discussion at the CoDR.

My understanding of the requirement is that committees provide recommendation, whereas the Director (e.g., TB) approves time. This is not the site director but "the" Director. But as you say, DDTs cannot wait, so we developed the concept of the Director's Delegate (see section 3.7.2 Director's Delegate).

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-476] Tools to copy source and resource lists from previous proposals should be provided Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	9
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Description

Under proposal response to semester solicitation. "They shall also be able to view and access previously submitted proposals." There should also be a mechanism to use source and resource list from previous proposals.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

We included this concept in Section 2.2 under Functional Requirement 4:

"It shall be possible, with best efforts, to create a new draft from a proposal in the WITHDRAWN or COMPLETED state."

My thinking is that this requirement is sufficient for now. We might come up with lots of ways to parse info from one proposal to another, but these details can be worked out later. Please let me know if you disagree.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-473] Request (amd other types) of specifications should be allowed to be changed by the TTA group Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	6
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Description

All the request specifications will need to be editable by the TTA group. It is not uncommon that the SRP/TAC will recommend part of the time or a single frequency be observed so it is necessary to split a request specification so that part if it can be allocated.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

I think this is specified in in section 3.6.1 (Time Allocation Committee (TAC) Meeting) under Functional Requirement 4:

"A TTA Group member shall be able to create and modify the Allocation Disposition before the TAC meeting."

Another RID suggested we change this to:

"A TTA Group member shall be able to create and modify the Allocation Disposition before, during, and after the TAC meeting."

The Allocation Dispositions have to drill down to the Observation Specification level (see Section 2.2, Function Requirement 5). So is this sufficient for your use case, which I agree is pretty common?

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-472] It's not weather... Created: 02/Apr/20 Updated: 02/Apr/20 Resolved: 02/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	6
Suggested Solution:	Change the definition of LST (or GST) Pressure Plot to: "A plot of the allocated hours as a function of LST (or GST) for a given Facility, broken down by scheduling priority and time available for different frequency ranges."

Description

Under LST (or GST) pressure plot, it states that the allocated hours are broken down by "weather", it would be more accurate to say they were broken down into time available for high and low frequency observing.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

Agreed. See Suggested Solution. I modified your language to be more general since the GBT has more complex frequency ranges.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-471] Can HSA be seperated into two facilities when phased VLA is used?	
Created: 02/Apr/20 Updated: 02/Apr/20 Resolved: 02/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	5
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Description

Under Facilities. There will be many cases where the PI might want the VLBA+VLA correlated together but also have a separate use for the VLA on it's own. This is particularly useful because the VLA uses a much wider bandwidth than the VLBI recording, and therefore would have much higher sensitivity.

Comments

Comment by [Dana Balser](#) [02/Apr/20]

We had a use case for this in the Concept document (section 7.3.2 HSA with Additional Resources). We said:

"One option is to have one allocation request where the multiple backends would be specified within a given observation specification."

So in this use case the Facility could be the HSA where multiple backends are specified. The VLA "Facility" is often run with multiple backends (e.g., realfast).



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-470] In the later stages of the project, the software suite WILL BE deployed for use by Observatory Operations. Created: 02/Apr/20 Updated: 07/Apr/20 Resolved: 07/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Won't Fix	Votes:	0
Labels:	None		

Page Number:	7
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Description

The document says:

"In the later stages of the project, the software suite may be deployed for use by Observatory Operations."

The "may be" should be changed to "will be", I cannot think of a case where it would not be the best thing for Observatory Operation to try to use the Tools as they come on line.

Comments

Comment by [Jeff Kern](#) [03/Apr/20]

Hi Amy,

I appreciate your confidence 😊. I agree with you that it will be deployed but the idea here was that the TTA team or SSA AD or someone gets to make the decision of when it is deployed, not the project. For instance if we end up delivering it right before a call NRAO might decide to wait one more cycle before putting it into service to allow time for training etc.

Comment by [Amy Mioduszewski](#) [07/Apr/20]

Fine.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-469] Validation needs to involve stakeholders Created: 02/Apr/20 Updated: 16/Apr/20 Resolved: 16/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Done	Votes:	0
Labels:	testing		

Attachments:	530 SRDP Responsibility Matrix.xlsx
Page Number:	7

Description

Document says that the Validation will be done by the Project Scientist. Validation should also include operations stakeholders. The Project Scientist is one person and is not familiar with all the aspects of the TTA Tools.

Comments

Comment by [Robert Treacy](#) [08/Apr/20]

Amy,

Agreed, this is certainly more than one person can handle. I have changed Item 7 on page 7 as follows, revised text is underlined:

7. Validation (Project Scientist): The Project Scientist of each phase of the software development, documenting any variance from the requirements for the phase and any defects to be addressed. This step is complete when the system has successfully completed an Operations Readiness Review (ORR).

The Proj. Sci. role is also defined on p 10 with emphasis in italics:

The Project Scientist assists the Project Director and AD of Science Support and Research in community engagement, and *organizes any staff or community training required for acceptance of the new tools.*



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

(acceptance is synonymous with validation in the above context)

Figure 2 , P 11 shows the organization of the scientific staff under the Proj. Sci. for this purpose in the org chart.

Once we enter the Project Implementation Stage we will further define roles in a RACI matrix, but this has not yet been developed for TTAT. I have attached as an example a similar chart developed for the SRDP project, in case it helps to see what that will look like.

-Bob

Comment by [Robert Treacy](#) [16/Apr/20]

per discussion in the CoDR Meeting, added underlined word to Proj. Sci role in validation:

Suggested Action: Update document to read “The Project Scientist is responsible for the formal validation and documentation of each phase of the software development, documenting any variance from the requirements for the phase and any defects to be addressed.”



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-468] Change Management plan needs more description Created: 02/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	12
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Description

Document says "documents with scientific content or implications" will be approved by the project scientist. How will this decision be made? I don't know if it will be obvious to everyone involved what has "scientific implications".

Comments

Comment by [Robert Treacy](#) [08/Apr/20]

Amy,

I agree the existing statement lacks clarity. Any document covered in this section is controlled (i.e. already been approved) so any changes are subject to change control. Revisions are usually circulated and iterated informally and when consensus is reached, an approval workflow is conducted in SharePoint (the document repository) and the previous revision is formally replaced with the revised version. I have revised the statement as follows; revised text is underlined:

documents shall also be approved by the Project Scientist.

-Bob

-Bob



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-467] Divestment stage needs more description. Created: 02/Apr/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Amy Mioduszewski	Assignee:	Amy Mioduszewski
Resolution:	Fixed	Votes:	0
Labels:	Overview		

Page Number:	8
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Description

Document says that post-divestment all support for the tools will through the usual process. This is OK if the people writing the code are the same as the maintainers, if they are not the same then there needs to be a substantial transition plan. Because things change I think this should be explicit in the documentation. I.e., just saying it will be the same group is not a solution, state that it should be the same group, and if things change and it is not a substantial transition plan will be developed.

Comments

Comment by [Robert Treacy](#) [08/Apr/20]

Amy,

I agree the Transition Plan needs more detail. We intend to execute a transition plan regardless whether we think the same developers and DAs are involved or not. The project must be responsible for a successful transition and this requires a detailed transition plan. I have edited two sections as follows, revisions to text are underlined.

Section 2.3 Divestment Stage, page 8

Project divestment for the TTA tool suite delivery of a validated product to the observatory operations teams. Post-delivery, the project team any further improvements or modifications will be Detailed plans for the delivery and transition to operations will be developed closer to the end of the project. support for GBO requirements in operations



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Section 17, page 15

17. PROJECT DIVESTMENT, AND CLOSEOUT

TTAT Project activities will eventually transition to the TTAT support team within SSR. This transition will begin after the 15th phase of functional development [RD03], when the tool has reached functional equivalency of the existing tools. At that time, increasing capabilities will be developed according to the project plan, but feedback from operations experience will influence the continued development roadmap. Once the baseline scope is complete the DMS will continue to be accountable for the software maintenance throughout the products' complete lifecycle. A project closeout report shall be submitted to the Project Sponsor and NRAO Director affirming that the TTA Tools Project has met all high-level deliverables. The report shall address the degree to which the project performed against its original plan, budget, schedule and technical parameters and also capture lessons learned.

-Bob



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-464] 2.3 Non-Functional Requirements - number of users seems small Created: 31/Mar/20 Updated: 08/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Issue Links:	Relates			
	relates to	SRDP-430	Peak server load planning	Post Review Action
Page Number:	14			

Description

The quoted numbers for server load, simultaneous users, proposal submissions/hour, etc. seem unnecessarily small. Do we expect numbers like these to really tax the system?

Also, is supporting "Edge" (or whatever MS is pushing these days) a bridge too far? I can understand not wanting to deal with it (I've done so), but I believe many people, although perhaps not so many in the scientific community, may use it.

Comments

- Comment by [Jeff Kern](#) [01/Apr/20]
I suspect these two RIDs are related.
- Comment by [Mark Whitehead](#) [01/Apr/20]
From the Attribute-Driven Design perspective, there are many tactics that support the performance quality attribute; edge computing appears to be related to the 'increase efficiency' tactic but adopting edge computing at this stage of the project seems premature. I think the current position is that we have prioritized the performance quality attribute for TTAT and we have about a dozen tactics at our disposal to achieve the requirements which can be incorporated into the design as it progresses.
- Comment by [John Spitzak](#) [01/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Apologies for the confusion - I meant the "Edge" browser (I think that's what Microsoft calls it). My understanding is that it is kind of buggy and a pain, but the UI doesn't look like it will be very complex so supporting it should not be that hard.

I had to look up "edge computing" - never heard of it!

Comment by [Mark Whitehead](#) [01/Apr/20]

No problem. I think Dana and Jeff will have to decide which browsers NRAO will support for TTAT.

Comment by [Dana Balser](#) [01/Apr/20]

I think we should support, within reason, the browsers that our community are using. Right now this appears to be Chrome, Firefox, and Safari, but we are working on getting more recent statistics. So if Edge becomes a popular browser then we may want to support it. Personally, I use Linux which is not supported by Edge.

Comment by [Dana Balser](#) [02/Apr/20]

Let us know if you have any further questions/comments.

Comment by [John Spitzak](#) [08/Apr/20]

It might be worth maintaining testing of more browsers from early on in the process - it is easier to fix any problems during development. I don't use Edge myself, but in any web development I try to test it because I *think* there are a large number of users.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-463] 2.2 Functional Requirements - some questions Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	13
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Description

Can the system support an arbitrary number of solicitations? The example has only two, and the specification is only "multiple".

What triggers the transition from "Submitted" state to "In Review" state? Does the PI have control over this, or is at least aware of when it will occur? The only difference between the two states is that in the latter modifications are no longer allowed, correct?

Why can't a PI withdraw a proposal? Or is that considered a "modification"?

Comments

Comment by [Dana Balser](#) [31/Mar/20]

> Can the system support an arbitrary number of solicitations? The example has only two, and the specification is only "multiple".

In principle yes. There is also a Demo solicitation.

> What triggers the transition from "Submitted" state to "In Review" state? Does the PI have control over this, or is at least aware of when it will occur? The only difference between the two states is that in the latter modifications are no longer allowed, correct?

After the proposal deadline a proposal can no longer be modified and at this point the proposal goes from the "Submitted State" to the "In Review" state. So the PI does not have control over this but is aware when it will occur. Yes to your last question.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

> Why can't a PI withdraw a proposal? Or is that considered a "modification"?

This was a choice. We felt this restriction was cleaner rather than have users submit/withdraw proposals. If users, for some reason, do not want the proposal to be further considered they can contact us and we will withdraw the proposal.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-462] Unresolved reference Created: 31/Mar/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	14
Suggested Solution:	I think it is meant to reference Appendix A.

Description

An "Error! Reference source not found."

Comments

Comment by [Robert Treacy](#) [31/Mar/20]

Issue was opened under the SRAO PMP, should be under the TTAT PMP

Comment by [Robert Treacy](#) [31/Mar/20]

I think this is the same as [SRDP-429](#). If so, it was a reference to Table 1 in App A and has been fixed.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-460] Remember to look beyond scope Created: 31/Mar/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	4
Suggested Solution:	If the comment is accepted I'd suggest adding some recognition of this alongside the more robust interface to the preparation tools.

Description

On p4 it is stated that blocks 4,5 and 6 are out of scope for this project. While I understand and generally agree with that the project should pay some attention to the requirements of the tools in those blocks. The section does draw attention to the need to define an interface to Block 4 (here and p8) but there may be "hidden" interfaces into block 5 (for scheduling) and probably also block 6 - i.e. data to be requested from the user at proposal time. To some extent this is recognised in the list of deliverables where DSS (which I think is from block 5) is specifically mentioned - making that section a little out of step with p4.

Comments

Comment by [Robert Treacy](#) [31/Mar/20]

Issue was opened under the SRAO PMP, should be under the TTAT PMP

Comment by [Jeff Kern](#) [01/Apr/20]

It is a good point Alan, we're trying to draw a reasonable line for where the scope of this project ends, but may have made it a bit too forceful. I think we have addressed this issue in the execution plan by make early contact with the generation of project (phase 3), and then continuing to add sophistication to the generated projects as we add features to the proposals. Notably in phases 8, 11b, 14 and then in 17 and 18 addressing the connection to the processing at the end of block 6.

I've changed the paragraph to:



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

"Functional blocks 1-3 must accommodate all supported instruments (described in section 3.1), where blocks 4-5 are instrument specific. Data delivery from the archive represented in functional block 6 is supported for all instruments although only some instruments support the science quality products of the Science Ready Archive and Operations (SRAO) project. The current TTA Tools design effort needs to accommodate more robust interfaces to Blocks 4-6 to support the SRAO use cases. Implicit requirements from the Observation Preparation, Observations, and Data Delivery blocks need to be recognized and included in the design of the new suite of tools. However, a full redesign of Observation Preparation will need to be performed on a per instrument basis. Therefore, blocks 4, 5, and 6 are formally out of scope for the TTA Tools Project."



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-459] <u>SCHED not defined</u> Created: 31/Mar/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	9
Suggested Solution:	Add to the Abbreviations and Acronyms list.

Description

In the list of deliverables I could not find a definition of the term "SCHED".

Comments

Comment by [Jeff Kern](#) [31/Mar/20]

Assigning to Bob to add to the list. SCHED is the VLBA (and VLBI) observation preparation package (phase 2 tool).

Comment by [Robert Treacy](#) [31/Mar/20]

Issue was opened under the SRAO PMP, should be under the TTAT PMP

Comment by [Robert Treacy](#) [31/Mar/20]

Added to acronym list as suggested, also added:

DSS - Dynamic Scheduling System

OPT - Observation Preparation Tool

VLBI - Very Long Baseline Interferometry



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-458] 2.1.2.1.1 Primary Presentation diagram - more classes Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	16
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Description

Should there be a Facility Class, analogous to the Proposal Class? Something that contained the abstract details that all facilities have in common?

Similarly, a Constraint Class?

Again, I may be expecting too much detail from these diagrams...

Comments

Comment by [Mark Whitehead](#) [31/Mar/20]

The Proposal Class isn't a class in the object oriented sense. I modeled Proposal Class, Facility, and Specification Constraint generically as SysML blocks and refined them slightly with the value object stereotype (a value object is an attribute that describes the state of something else; can be an assemblage of other objects or reference entities). The main goal was to clarify the concepts and relationships. The SSA team will refine this design further in a subsequent phase and are free to choose whichever data structure they think most appropriate.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-457] 2.1.2.1.1 Primary Presentation diagram - "other" proposal type? Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	16
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Description

Should the Proposal Class Type include a "novel" or "other" type? No idea what this might be, perhaps the other categories can handle anything new.

Comments

Comment by [Dana Balser](#) [01/Apr/20]

My thinking is that the Proposal Class is pretty well defined for each Solicitation. So I do not think that adding "Other" is appropriate. But feel free to include this as a topic for the CoDR if you want to broaden the discussion.

Comment by [John Spitzak](#) [03/Apr/20]

You are probably much more familiar with possible proposal types than I, so I defer. It's just instinctive to allow myself a "out" to any structure.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-456] 2.1.2.2.1 Primary Presentation - does Proposal Class come in here?	
Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	19
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Description

Does the Proposal Factory produce an instance of the Proposal Class (shown in 2.1.2.1.1)? Should the Proposal State be part of this class?

Comments

Comment by [Mark Whitehead](#) [31/Mar/20]

No. A Proposal Class is not an abstract data type intended to be an object oriented Proposal class. Proposal Process and Proposal Class are concepts related to solicitations, i.e. one configures a solicitation to support a proposal process and a proposal class. A Proposal Factory creates a Proposal for a configured solicitation.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-455] 2.2.4.5 Use Case Diagram - how does Monitor Review connect? Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	31
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Description

How does the SRP Chair "Monitor Review"? Is this through the Notification System? Should the two diagrams be linked in some way that indicates the communication between them?

Perhaps I'm expecting too much detail from these diagrams!

Comments

Comment by [Mark Whitehead](#) [31/Mar/20]

The conceptual design aims to express the minimum number of concepts, relationships, and multiplicities needed to satisfy the requirements. Dana et al. will work with a UX developer in a subsequent phase to design user interfaces for use cases like "Monitor Review". If the conceptual design is correct and complete then they should have everything they need to support the user interfaces.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-454] 2.1.2.4.3 - Boolean Scientific Merit Metrics Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	29
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Description

Are these really boolean? Isn't scientific merit generally a numeric score?

Perhaps I need a description of what this(these) parameter(s) mean(s). This is (I think) the first emergence of the term "Scientific Merit Metrics".

Comments

Comment by [Jeff Kern](#) [31/Mar/20]

Sorry for the edits, confused myself with how Jira works.

The boolean metric is the output of the Observatory Site review process. This is used for the DDT solicitations. Because there are no other proposals to review this one against a numeric score doesn't really make sense. What we want to record is if it is judged to be good enough to be awarded time, or not. Thus we record it as a boolean.

The concept of the merit metric is abstract in that it is different from different review processes, so far we have only the normalized linear rank score from the panel review and the boolean from the Observatory Site Review process but you could imagine other types of reviews producing other metrics.

Comment by [Jeff Kern](#) [01/Apr/20]

Is the concept more clear now? Is there something we should add to either the architecture or the system description to clarify?



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

Comment by [John Spitzak](#) [03/Apr/20]

Got it, thanks!



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-453] My name is wrong on Confluence web page Created: 31/Mar/20 Updated: 03/Apr/20 Resolved: 03/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	None
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	None		

Description

My last name is "Spitzig" on the "TTA Tools Conceptual Design Review" page. Should be "Spitzak".

Not mission-critical.

Comments

Comment by [Robert Treacy](#) [31/Mar/20]

Apologies John, not sure where this crept in. The Confluence page has been updated. The error propagated to another document (the report template), please point out other occurrences you find.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-452] 2.1.2.4.2: what does feasibility review produce? Created: 31/Mar/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	Review		

Page Number:	27
Suggested Solution:	Great question. I appear to have neglected to include the Scientific Merit Metric value type in the documentation; it is modeled after a C language union with a Consensus Review Metric member that is of type Float (for the score) and an Observatory Site Review Metric member of type Boolean (a TTA Group Member approves it or not).

Description

Sentence reads (paraphrasing): "...difference between consensus scientific review and the consensus feasibility review is science review involves BLAH, BLAH, BLAH."

Implied, but not included, is "...whereas, the feasibility review involves..." - what?

This gets to a larger question that I couldn't answer from the Conceptual Design - is the result of the Feasibility Review a simple yes or no? Or is a "conditional on these small changes" state possible? Is there a mechanism in the design for accepting proposals and awarding time conditional on small adjustments by the PI?

Comments

Comment by [Mark Whitehead](#) [31/Mar/20]

I think the feasibility comments and the boolean result support what you suggest (i.e. approved conditionally given certain changes to the proposal...), but I defer to Dana and Jeff on how that might work in practice with respect to the requirements.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-45 I] 2.1.2.2.3 Use Cases - needs more links?? Created: 31/Mar/20 Updated: 08/Apr/20 Resolved: 08/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	TTA Conceptual Design
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	John Spitzak	Assignee:	John Spitzak
Resolution:	Done	Votes:	0
Labels:	Review		

Page Number:	20
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Description

Are some additional connections required in the "Use Cases" diagram? Presumably a "Withdraw" would be performed by the Telescope User (link these two). Also a "withdraw" would be entered into the "Notification System" (another link).

Comments

Comment by [Mark Whitehead](#) [31/Mar/20]

Currently, only TTA Group Members may withdraw proposals.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-450] Requirements Report: order of issues in Level 1 Created: 27/Mar/20 Updated: 14/Apr/20 Resolved: 14/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-014-MGMT: Requirements Report
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	7
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Description

688-TTAT-014-MGMT.pdf Requirements Report

p. 7:
Why are these system requirements (at level 1) listed in completely random order?

The order makes reasonable sense for the requirements in level 0. Here the order makes it impossible to track what's going on effectively.

This is an unfortunate effect of using the system to model the requirements. Roughly the L1s are organized into Solicitation, Proposal,... but within each portion the order is somewhat arbitrary. Requirements were added to the model as they were understood, which means they are not really in a logical order.

Within the model the relationship is shown by a diagram, but those do not translate well to paper. I'm not sure how to address this.

Comments

Comment by [Craig Heinke](#) [01/Apr/20]

I don't have a good sense of whether this report is something that people will use, or if they will use the source documents only. If not, this isn't worth spending time on. If this will be a useful reference document, it might be worth seeing if the requirements can be re-ordered in the source documents to produce a coherent flow.

Comment by [Jeff Kern](#) [08/Apr/20]



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

I don't expect that this document will be used much for guiding development, the source documents and the model itself are what I think will mostly be used. As I said at the meeting we presented this mainly because if we didn't there would have been questions about where are your formal requirements.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-449] Requirements Report: p 6 Created: 27/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-014-MGMT: Requirements Report
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	6
Suggested Solution:	I have modified the TTA- SRDP-10 .2.2 to read: "The desired spectral resolution shall be specified as part of the observing proposal."

Description
688-TTAT-014-MGMT.pdf Requirements Report p. 6: "TTA- SRDP-10 .2.2 Spectral Resolution The desired spatial resolution shall be specified as part of the observing proposal." Should say spectral resolution on the right side.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-448] Requirements Report Created: 27/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-014-MGMT: Requirements Report
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	4
Suggested Solution:	I have changed TTA-L0-3.6 to read: This system shall supported the proposed ngVLA telescope.

Description
688-TTAT-014-MGMT.pdf Requirements Report p. 4: “TTA-L0-3.6 ngVLA The VLBA shall be supported by this system” Should say ngVLA on the right, not VLBA.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-445] unclear phrase Created: 26/Mar/20 Updated: 14/Apr/20 Resolved: 14/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	Software Development Process
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	14
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Description

p. 14, 10.1.1 #3; “localize the code to be repaired, and A”
—Was there supposed to be another phrase on this line?

Comments

Comment by [Morgan Griffith](#) [27/Mar/20]

The "A" is a typo, it should just read ",and" which then flows on to #4. Now fixed in the original document.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-444] Unclear sentence Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	Work Management Plan For SRDP
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	15
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Description

p. 15, “For the SSA that are most involved in SRDP delivery, SSA and CASA, this represents roughly 70% of their available project effort.”
—I don’t understand this sentence.

Comments

Comment by [Morgan Griffith](#) [27/Mar/20]

Apologies, this is a typo. It should read: "For the SSA group, who is the most involved in SRDP delivery, this represents roughly 70% of their available project effort."

This has been corrected in the original document



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-441] Template disposition letter Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	36
Suggested Solution:	<p>Modify Functional Requirement 1:</p> <p>"There shall be a mechanism to generate a template disposition, either for a specified proposal or for all proposals within a semester Solicitation. This template shall include the proposal review, consisting of the science and feasibility reviews, and the TAC comments. A TTA Group member shall be able to edit the disposition text. A TTA group member shall also be able to send the dispositions either in bulk (e.g., semester Solicitations) or one at a time (e.g., DDT Solicitations)."</p>

Description
<p>p. 36, 3.8.1, template disposition letter;</p> <p>It might make sense to state explicitly here that the template disposition letter shall include the complete technical review, and SRP comments to PI, as amended by the TAC.</p>

Comments
<p>Comment by Dana Balser [27/Mar/20]</p> <p>Agreed. See suggested solution.</p>



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-436] Allowing members to edit their SRP score during meeting Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	30
Suggested Solution:	It might be wise to set up the system such that SRP members input altered normalized scores during the SRP meeting only when prompted by the SRP chair (or TTA member).

Description

p. 30, Consensus Review meeting; this allows for the SRP chair (or TTA member) to directly edit the SRP score; and also for SRP members to modify their normalized score directly. We need to think about this. There's a case we don't want to happen; the SRP discusses a proposal, decides to adjust the score to X, one member prefers it to be Y and thus later adjusts their score to 0.1 (or 9.9) so as to shift the score enough to put it there. (Or edits their SRP score accidentally, messing up the decision the committee had taken...this is probably more likely, actually.)

Comments

Comment by [Dana Balser](#) [27/Mar/20]

Agreed. How about we add the following functional requirement.

"SRP members may only modify their NORMALIZED SCORE at the request of the SRP chair or a TTA Group member."



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-435] Assigning reviewer to more than one SRP Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Not a Bug	Votes:	0
Labels:	None		

Page Number:	22
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Description

3.4.2, item 4; see the use case just above; a reviewer might be temporarily assigned to another panel for the purpose of reviewing 1 proposal with them.

Maybe we won't handle it that way—but may be worth a quick discussion.

Comments

Comment by [Dana Balser](#) [27/Mar/20]

There is a concept on an Individual review where reviewers are connected to proposals. So if needed we have the ability to assign reviewers from one SRP to proposals in another SRP.

See comments in: <https://open-jira.nrao.edu/browse/SRDP-434>



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-434] SRP-proposal mapping Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	22
Suggested Solution:	Suggest enabling many-to-many mapping.

Description

p. 22, 3.4.2, item 2; normally I expect a proposal will only be mapped to one SRP. However, we may want Very Large Proposals to be reviewed by multiple SRPs; and we may have cases where a large proposal has so many collaborators that there are not sufficient members to review it on one SRP, so that some members of another SRP (or another entire SRP) are required to complete the scientific review. I've seen both several times in proposal review processes, for NRAO and other TACs.

Comments

Comment by [Dana Balser](#) [27/Mar/20]

We discussed these issues at length and decided on a model where the SRP or panel is connected to one science category; hence the many-to-one mapping. The restriction that a science reviewer can only be on one SRP follows from this model. But there is also the concept of an Individual review where a science reviewer is connected to a proposal.

To accommodate the use case of a very large proposal where additional reviewers are needed we can add more members to the SRP or add reviewers from another SRP to perform an Individual review.

To accommodate the use case of needing additional reviewers because of conflicts we can assign reviewers from other panels to perform an Individual review.



Title: Conceptual Design Review Report	Authors: Alan Bridger, <i>et al.</i>	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-432] Proposal ID definition Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Done	Votes:	0
Labels:	None		

Page Number:	19
Suggested Solution:	<p>Add a new Functional Requirement that says:</p> <p>"An ALLOCATION REQUEST ID shall be generated for all Allocation Requests within a proposal at submission. The ALLOCATION REQUEST ID shall be constituted from the PROPOSAL ID with a prefix that identifies the Facility (e.g., VLA/Sem19A-023 where the PROPOSAL ID is Sem19A-023)."</p>

Description
p. 19, 3.2.2, part 3; why not include the telescope, e.g. "VLA" within the proposal ID? I find it very helpful in the proposal process to have the principal telescope requested within the proposal ID.

Comments
Comment by Dana Balser [27/Mar/20]
The concept is that a proposal corresponds to a scientific idea or experiment that may require one or more telescopes. We invented the concept of an Allocation Request to accommodate a proposal that request multiple telescopes. For each Allocation Request there would be an Allocation Request ID and this could have the telescope name. See Function Requirement 14 in the same section.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-43 I] Platforms Created: 26/Mar/20 Updated: 15/Apr/20 Resolved: 15/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-004-MGMT: System Description
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Done	Votes:	0
Labels:	Architecture		

Page Number:	14
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Description

Supported platforms: Firefox, Chrome, Safari. —Does this meet the full needs of the user base?
 Maybe the answer is yes, we know what users are using—I just want to check we've thought this through.

Comments

Comment by [Dana Balser](#) [27/Mar/20]
 We occasionally check in the server logs which browsers are used on my.nrao.edu. This information is used to inform us which browsers are most commonly used and those that we really need to support well. We are working to formalize this process so that it becomes a routine metric.

Comment by [Craig Heinke](#) [01/Apr/20]
 Might be worth a quick discussion at the meeting, if there's time.

Comment by [Robert Treacy](#) [15/Apr/20]
 Discussion ensued, support for additional browsing platforms seemed to be understood as part of the framework layer, where Domain Driven Design at the conceptual level does not preclude support for any particular browser in the framework layer.

Per CoDR meeting recommendation, close w/o action.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-429] "Error! Reference not found" Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	14
Suggested Solution:	Find reference, replace

Description

page 14, section 14; "Error! Reference not found" in bold should be fixed.

Comments

Comment by [Robert Treacy](#) [30/Mar/20]

Fixed, Reference is to Table 1 which was previously moved to Appendix A and the link must have broke with the table move.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-428] typo "though"->through? Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-003-MGMT: Project Management Plan
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	6
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Description

page 6, point 2, end of 2nd parag; “(though joint development” -> “(through joint development” ?

Comments

Comment by [Robert Treacy](#) [30/Mar/20]

Accepted. Fixed as suggested.



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-427] Dana's name spelled wrong Created: 26/Mar/20 Updated: 01/Apr/20 Resolved: 01/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	None
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Craig Heinke	Assignee:	Craig Heinke
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	5
Suggested Solution:	Correct typos.

Description
688-TTAT-005-MGMT.pdf page 5, section 3.3 "Dana Basler (TATA Project Scientist)" -> Dana Balsler (TTAT Project Scientist)

Comments
Comment by Robert Treacy [30/Mar/20] Done, corrected to "Dana Balsler (TTAT Project Scientist)"



Title: Conceptual Design Review Report	Authors: Alan Bridger, et al.	04/28/2020
Document No. 688-TTAT-006-MGMT		Revision: 1.0

[SRDP-426] Cannot access the DMS Architecture Standards page Created: 26/Mar/20 Updated: 06/Apr/20 Resolved: 06/Apr/20	
Status:	Done
Project:	Science Ready Data Products
Component/s:	688-TTAT-014-MGMT: Requirements Report
Fix Version/s:	TTA CoDR

Type:	Review item Discrepancy	Priority:	Minor
Reporter:	Alan Bridger	Assignee:	Alan Bridger
Resolution:	Fixed	Votes:	0
Labels:	None		

Page Number:	3
Suggested Solution:	Changed permissions on architecture confluence page to allow access.

Description
Issue resolved as described in suggested solution.