

Project Number: 906026

Project Start: Jan. 1, 2006

Project Duration (in years): 1

Please indicate what type of project is being proposed (**mark only one**).

☐

Feasibility/Scoping
[Less than 100 days effort]

☐

Development¹

☐

Research

☒

Infrastructure¹

☐

Education

☐

**Time
Series**

Project Manager/PI: Kevin Gomes

Asset Configuration and Tracking Consolidation

¹ Development and infrastructure projects must complete the risk matrix (see item #5 at the end of the proposal form).

1) ABSTRACT (new projects only)

The Shore Side Data System (SSDS) and its device database will become operational in the years 2005/2006, while the operations group has existing methods and data stores for managing instrument deployment and configuration information. In particular, there is a great deal of overlap in the instrument and device database that Paul Coenen is managing for operations, and the one maintained (by various people) for SSDS. Various other science projects (BOG for example) also have instrument information in at least one of these databases, and possibly in their own databases.

This duplication creates inconsistencies between the data stored in the different locations, and often creates more work for the operations group. This project consolidates the information that is duplicated in multiple locations, and removes unnecessary duplication of support time and software applications needed to edit and manage this information.

2) PROPOSAL

a) The problem addressed (new projects only)

Statement of the problem

Several parallel asset tracking methods have developed over the past years at MBARI and often times they do not contain consistent information. In addition, in order to keep up information about a single asset, it often has to be managed in more than one location. Obviously, this makes the process more difficult than it needs to be and error prone.

This project will coordinate and/or consolidate the duplicated information in these different systems to cut down on the amount of work to keep it up to date. It will build a smaller set of interfaces to add and update assets that are used in various projects. This will make the job of tracking and updating asset information more manageable.

Per management request, an evaluation was done on the impact of the Plug and Work for OASIS Moorings proposal (906020) on this proposal. We felt there was no significant impact from the 906020 project as this work must encompass both PUCK enabled and non-PUCK enabled instruments. That said, the instruments that have PUCKs will give more information to the operations staff to ensure that the tracking information kept in this application is more accurate.

b) Approach to the problem (new and continuing projects)

The first step in solving this issue is to locate and document the different systems that are currently handling asset tracking and information. These systems include: SSDS, Paul Coenen's Database, BOG, and LOBO. After identifying the different systems, the information that is contained in those projects must also be detailed. From these details duplicated information can be identified.

The next step is to then identify the different applications that are utilized to edit and maintain this information. The functionality of these interfaces will be documented to make sure that the coordinated solution meets all the needs of the individual applications and their users.

With these pieces in hand, a decision can be made on how to best handle the coordinated system and a design will be created for this purpose. The solution will be reviewed and then implemented.

c) Specific deliverables (new and continuing projects)

The final deliverable should be an application (or small set of applications) that can handle the asset tracking and configuration information so all users will go to one location to find out information about various instruments that MBARI maintains.

d) Project team (new and continuing projects)

Project Manager: Kevin Gomes
Lead Scientist: Francisco Chavez
Various developers in Support Engineering (TBD)
Paul Coenen

e) Project lab space (new and continuing projects)

None needed.

3) BUDGET JUSTIFICATION (new and continuing projects)

Could possibly need another server so would like to request \$5000 for this purpose (but may not be necessary).

2006 Proposal Process – Internal-Only Projects

Submission Deadlines: Phase I – August 25th, Phase II – October 5th

4) MILESTONES (new and continuing projects)

	Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5	Total Resources² for each resource category for all milestones listed here
Milestone Date	3/1/2006	6/1/2006	9/1/2006	12/1/2006		
Milestone Description	Survey and document existing data locations	Survey and document existing applications	Design solution to coordinate asset tracking	Deploy solution		
EE						
SE	10	10	15	15		50
ME						
Machine Shop						

² This number should be the same number you entered on the resource requests for this particular resource.

5) RISK MATRIX (development and infrastructure projects only)

Please carefully read Section 5.2.3 in the instructions for internal proposals for an explanation regarding the risk matrix. This table must be completed for **ALL** development and infrastructure proposals (new and continuing). The instructions can be found at http://mwww.mbari.org/resources/2006_Proposal_Process/Internal-only_Instructions_2006.htm.

	Technical Risk	Organizational Risk	Tech Transfer Risk	Labor Estimate Risk
High			X	
Medium				X
Low	X	X		