SAMWeb

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See FTS project doc from NOvA

# Introduction

Existing SAM client packaging is too large and too hard to set up at remote sites (e.g. too many packages, requires ups/upd, requires firewall openings). Also hard to keep up to date. Hard to transfer this all to the grid.

Goals:

We want users to only use SAMWeb for normal operations.

Give users a simple, compact, platform independent interface connected to a hosted client here at Fermilab.

Allows the SAM developers to work on the backend client without directly affecting users.

DØ and CDF users are excluded here.

# Tasks

## Previous work completed

SAMWeb is already working and deployed. Chose “CherryPy” web platform. Have a GPCF VM that hosts SAMWeb for NOvA and Minerva. The API is spec’ed out and an implementation is working. Also includes prototypes dataset definition editor for NOvA and Minerva.

## Determine the SAMWeb URL discovery system

How will clients determine the correct SAMWeb URL? Right now they have to ask Robert. People: Marc, Robert, Adam. Duration: Two weeks. Start: May 31.

## Determine a fallback system for SAMWeb

Determine the level of redundancy and implement a failover system (e.g. like what Igor does). People: Marc, Robert, Igor. Duration: Two weeks. Start: mid May

## Complete Dataset Definition editor implementations

Do a real requirements gathering with each experiment and refine the implementation. People: Marc, Andrew. Duration: Two weeks. Start: By end of May.

## Refactor the Dataset Definition Editors

Right now there are two DDE’s – one for NOvA and one for Minerva. Need to refactor to pull out shared code and include. People: Marc. Duration: 1 day. Start in next few weeks.

## Investigate how SAMWeb would be useful for Data Preservation

Work with Mike to determine how this would be useful for DP.

## Test SAMWeb

Already have a test suite for SAMWeb. Testing for DDE is manual. Write some automated tests. People: Marc. Duration: a week. Start in June

## Retire the old unsupported SOAP based web service at MINOS

Check if it is still in use. If it is still in use, consider replacing it with SAMWeb and making a MINOS instance. Make sure needed functionality is present. People: Art. Duration: a week. Start in May

# Milestones

Basic SAMWeb is implemented according to spec and tested by REX. Done by May 31.

DDEs implemented according to spec. Done by May 31

DDEs tested and reviewed by the experiments. Done by June 30.

Disposition of MINOS SOAP web service determined. Replaced if necessary. Tested and reviewed by MINOS. Done by May 31

# Risk

## DDE coupling to dimensions language

The DDE work is coupled to the dimensions language project.

## Need additional functionality in the SAMWeb implementation

An experiment might find a use case that is not covered by SAMWeb. But adding new methods is quite easy.