

# JTStandProposal

## JTStand Proposal

Email: <<MailTo(support AT SPAMFREE jtstand DOT com)>>

A proposal to the Apache Software Foundation Incubator PMC by

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## 1. Abstract

JTStand is a free scripting environment for data collection, an open source software, written in Java.

It helps you to develop and execute Sequences and to analyze the Results.

Project home page: <http://www.jtstand.com/>

## 2. Proposal

This proposal seeks to create a top-level Apache Software Foundation project to continue the development and advancement of jtstand.

### Key Features & Goals

- Simple
  - It uses only four different file types for the configuration, where each file has a well defined syntax, defined and verifiable by a provided XML schema
    - Sequence
    - Step
    - Project
    - Library
- Revision Control
  - Revision control client is built into JTStand
- Programmable
  - Use all the features what an advanced object oriented language can give you (Groovy Scripts/Classes/Closures)
  - Or use the scripting language of your choice through interpreters
- Extensible. JTStand extensions can be created to
  - Automate the start/abort of Sequences (starters)
  - Interpret your favorite scripting language (interpreters)
  - Control of instruments or other hardware devices (drivers)
  - Communicate with the operator (user interface)
  - Present or process the results (processors)
- Multitasking
  - Multiple Sequences can be executed parallel
  - Sequences may have multiple threads, executing multiple Steps parallel
- Database
  - No database programming required the Results database is automatically generated
  - The Results of the Sequences which are backed up to a Database include the full context of every Sequence: Sources of Scripts and Classes used by the Steps of the Sequence and the Project configuration, not only the data what is acquired by executing the Sequence
  - No redundant data is stored
  - No database installation is required, because of the built in derby database engine
- Analysis
  - Tools are provided to query and process the Results
- Charts
  - JTStand can present the Results in different charts:
    - Trend
    - Distribution
    - Pareto
- Open source
  - You can improve
  - You can trust
  - You can build up on

## 3. Rationale

## 4. Need for a Community Effort

## 5. Known Risks

*Commitment to future development.* TBD

*Experience with open source.* TBD

*Diversity of developer community.* TBD

*Relationship to other Apache projects.* There are no Apache projects with similar goals.

## 7. Source

There is no seed code, JTStand is original.

Access to existing source code can be found here for those interested in looking at current project status: TBD

## 8. Required Resources

(a) Proposed Mailing lists:

- jtstand-developer (with moderated subscriptions)
- jtstand-news

(b) Subversion directory

- <http://svn.apache.org/repos/asf/incubator/jtstand>

(c) Issue tracking:

- jtstand will use JIRA for bug tracking.

## 9. Initial Committer

- Albert Kurucz <<MailTo(support AT SPAMFREE jtstand DOT com)>>

## 10. Sponsors

- *Champion:* WANTED!
- *Nominated mentors:*
  - WANTED!
  - WANTED!