

## Blacknest Data System (BDS)

### BdsImportGui User Guide—version 2.0.24

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## 1. Introduction

The **bdsImportGui** application is designed to view seismic data contained in BDRS and LAC\_BDRS formats.

## 2. Data Sources

### BDRS

The expected source data for the **bdsImportGui** program is created during the reading of data from a BDRS encoded digital tape. Blacknest have developed a procedure system for the capture of the data from such digital tapes. The capture of the data from a single tape is termed a Job. On the completion of a Job the data comprises a *job directory* containing one *jobInfo.tdi* file and a number of BDRS data files named with the extension **.bs** for example *data-000000.bs* and *,data-000001.bs*. The bdrs files are typically the result of reading the original data tape several times. Each **BDRS** file is termed a **session**.

The *jobInfo.tdi* file contains metadata pertaining to the original tape and data. The file is ASCII and contains data saved as simple <NAME>: <VALUE> pairs. The **bdsImportGui** program requires that the **tapeStartTime**: value in the jobinfo.tdi file be set appropriately.

### LAC\_BDRS

The program can read LAC\_BDRS (*.lac*) data files. The data files for a single digitised tape are expected to reside in a directory together with a ASCII metafile called jobInfo.tdi. The jobInfo.tdi file is a simple list of <NAME>:<VALUE> pairs. The following fields should be defined.

tapeStartTime:	1920-12-02T00:00:00
initComments:	Comments regarding the tape
tapeNumber:	The Blacknest tape number for the original tape

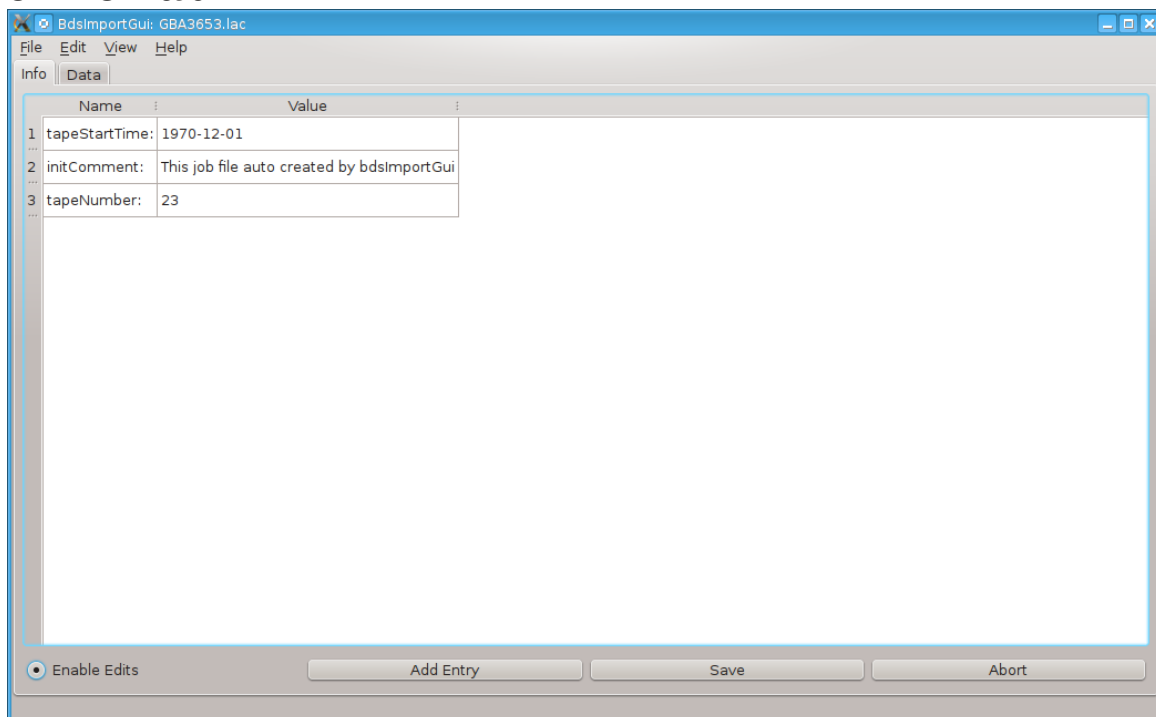
## 3. Starting The Application

The application can be started from the application->Bds menu

## 4. Using the Application

To open a Job use the **File->Open** menu and select the Job directory. The program will load the jobInfo.tdi file and the data from the first session file. The log file is displayed in the Info Tab and the waveform data display under the Data tab.

## 5. The Info Tab

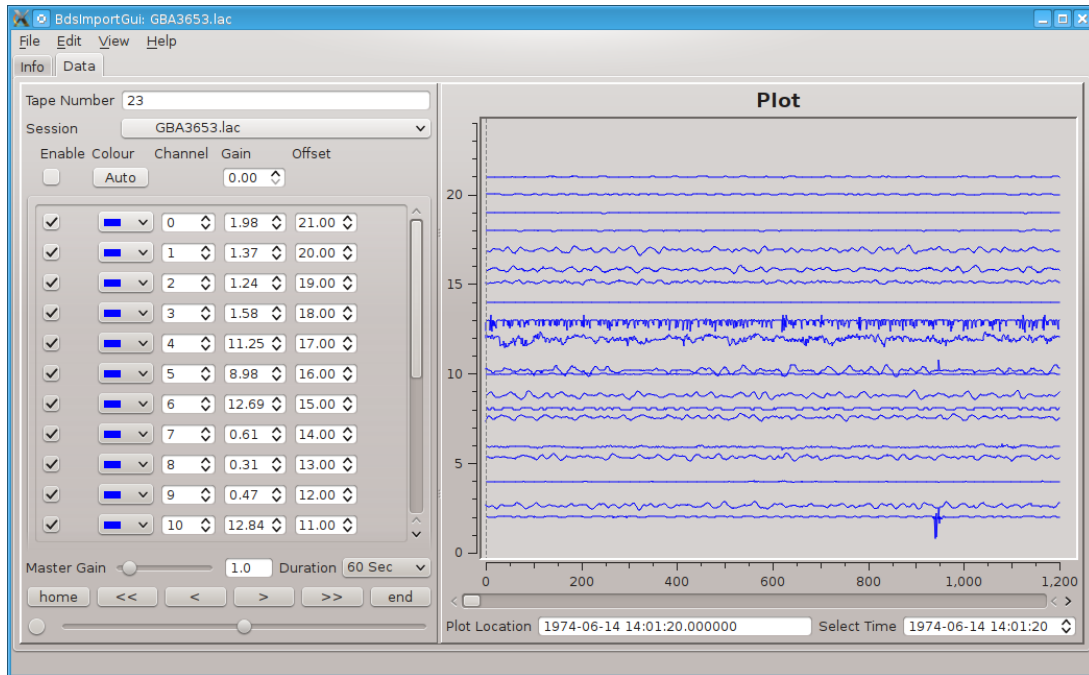


The program displays the contents of the *jobInfo.tdi* file in a tabular form. It is possible to edit the fields of this log file by enabling the “Enable Edits” checkbox. To save any changes click the save button. On each save a backup of the the previous log file will be saved in the job directory as jobInfo-<x>.log (Where x increments with each save). Saving will also cause a reload of the data file to reflect any changes made.

## 6. The Data Tab

The data tab display the waveform data channels of the bdrs session file. Controls are provided to navigate the data. The “Plot Location” time shown below the waveforms is the sample time of the leftmost sample currently displayed.

The session combobox enables the user to select additional bdrs session files within the current Job directory.



## 7. The File Menu

The file menu has a number of actions associated opening data files and the export of data.

### Open BDRS job

Opens a directory containing a BDRS job. This directory contains a jobInfo.tdi file and a number of session files where each session is an alternative digitisation of the original tape..

### Open LAC job

Opens a directory containing a LAC job. This directory should contain a jobInfo.tdi file and a number of session files where each session is an alternative digitisation of the original tape.. If there is no jobInfo.tdi file present in the directory then the program will give the user an option of creating this file.

### Export to ASCII

Exports a user selected portion of the data into an Ascii format file.

### Export to IMSI

Exports a user selected portion of the data into an IMSi format file.

## 8. The Edit Menu

The menu has a number of actions :-

### Clear export markers

Clears any currently defined data export markers.

### Auto scale Traces

Autoscale all the traces.

### Save Trace Settings

Saves the current trace settings to in a user specified file. These settings can then be loaded and used later for other Jobs. This can be useful if the user wishes to review jobs expected to contain similar data value ranges.

### Load Trace Settings

Load a saved trace settings file.

## **9. The View Menu**

### **List Errors**

When a session bdrs file is loaded a number of checks are performed on the data integrity. The List errors dialog simply lists these errors.

### **List Missing**

The list missing dialog displays a list of start to end times where data is missing in the bdrs file. This missing data is also shown in the wave form display as null data between two vertical red cursors.

## **10. Further Information**

For further information please look at the BDS system documentation at:

<https://portal.beam.ltd.uk/support/blacknest>.