

Blacknest Data System (BDS)

BdsDataManage Program – 1.2.12 - 2011-03-18

1. Introduction

The BdsDataManage program provides a simple command line control client for the BDS system. It allows sets of sensor data channels to have their source changed or the data files deleted.

2. Usage

The BdsDataManage program can be run only by admin users. For file deletions the user must also belong to the “dataDelete” group. It accepts the following command line options:

| | |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| -help | Help on command line parameters |
| -verbose | Be verbose with comments |
| -dryRun | Just display the files and perhaps channels that would be modified or deleted. This is the default. |
| -noDryRun | This needs to be defined to actually perform the change or deletion. |
| -host <hostname> | The BDS Server host name |
| -user <user:password> | The BDS user id and password |
| -startTime <time> | The StartTime |
| -endTime <time> | The EndTime |
| -select <network:station:channel:source> | Select a data set. Can have multiple -select's |
| -description <description> | When using the changeSource command this will add a description to the “source” description stored in the BDS system. |
| <command> [argument] | The command (list, changeSource, delete) |

The BdsControl program will read the BDS_HOST environment variable at start-up. This variable, if set, defines the default BdsServer host name to contact. The default is “localhost” if this is not set. The program will also require all of the “-select” fields to be set. The wild card “*” can be used as well as regular expressions.

The program will carry out the operation as defined in the single “command” argument.

The following gives a summary of the commands available:

list: This will list on stdout all of the BDS data files that match the selection criteria given. If the -verbose flag is given then the list of data channels will also be listed.

changeSource: This command will change the source of all of the selected data channels to the name given as an argument to the command. If this source is not in the BDS source list it will be added with a

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blank description and no specificity associated MetaData source.

delete: This will delete all of the data files selected. Note that all of the files Data Channel information associated with the data files will be deleted as well as the actual data files.

3. Example Usage

To move a set of data files to a new source name the following command could be used:

```
bdsDataManage -host bds -user testAdmin:beam00 -startTime 2008-01-01 -endTime 2009-01-01 -select BN.*.*:TapeDigitiser list
```

This will list all the files that will be selected.

```
bdsDataManage -host bds -user testAdmin:beam00 -startTime 2008-01-01 -endTime 2009-01-01 -select BN.*.*:TapeDigitiser -description "Move TapeDigitiser files" changeSource TapeDigitiser1 -noDryRun
```

This will change the source all channels for all data files from the TapeDigitiser source over the year 2008.

```
bdsDataManage -host bds -user testAdmin:beam00 -startTime 2008-01-01 -endTime 2009-01-01 -select BN.*.*:TapeDigitiser1 delete -noDryRun
```

This will delete all those files with the source TapeDigitiser1, probably all those moved with the previous command.

4. Return Value

The program will return a status value of 0 if all was Ok. It will return a non zero value, the BDS error number, on error together with a message output on stderr.

5. Further Information

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

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