

## **Blacknest Data System (BDS)**

### **BdsManage Program – 2.0.10 – 2013-09-26**

## **1. Introduction**

The BdsManage program provides a simple command line control client for the BDS system. It allows certain overall management functions to be performed.

## **2. Usage**

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

-help	Help on command line parameters
-host <hostname>	The BDS Server host name
-user <user:password>	The BDS user id and password
<command> [argument1] [argument2]	The command

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

The following gives a summary of the commands available:

<b>master</b>	Sets the BdsServer as a Master server. This allows writes of data and metadata.
<b>slave</b>	Sets the BdsServer as a Slave server. This disallows writes of data and metadata.
<b>snapshotPause</b>	Holds any writes to the database and data files for external backup programs to complete a backup.
<b>snapshotUnPause</b>	Allows any held writes to the database and data files to continue.
<b>statistics</b>	Lists statistics
<b>logAppend</b>	Append an entry to the logging system
<b>clean</b>	Perform a clean of the system. This will delete previously “deleted” Sensor data files that are stored in the Deleted directories of the data stores that have been there for a year or more. It will also delete any entries in the Changes and Logs tables that are older than 1 year.
<b>databaseBackup</b>	Backs up the BDS database into the current data store

<b>databaseRestore</b> <filename> <type>	Restores a named backup from the current data store. The type can be:  all – Restores all tables, admin – Restores admin tables, metadata – Restores metadata tables, data – Restores sensor data tables.
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### 3. Database table groups

admin	Config, Users, Groups, AccessGroups, Logs, Changes, ChangeGroups
metadata	Networks, NetworkStations, Stations, ArrayChannels, StationLocations, Channels, Sources, SourcePrioritys, Calibrations, ChannelInstruments, Digitisers, Sensors, Responses
data	DataFiles, DataChannels, Notes

### 4. Example Usage

```
bdsManage -user testAdmin:beam00 databaseBackup
```

### 5. 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.

### 6. Further Information

For further information please look at the BDS system documentation at:  
<https://portal.beam.ltd.uk/support/blacknest>.