

User Guide  
DT2 Bdsafe Data Store

## Summary

This document describes the installation and operation of the Bdsafe Data Store.

## Contents

<b>0. DEFINITIONS AND ABBREVIATIONS.....</b>	<b>5</b>
<b>0.1 Definitions.....</b>	<b>5</b>
<b>0.2 Abbreviations.....</b>	<b>5</b>
<b>1. THE DT2 BDSAFE FREE SYSTEM.....</b>	<b>6</b>
<b>2. DT2 BDSAFE INSTALLATION.....</b>	<b>6</b>
<b>2.1 Install the package.....</b>	<b>6</b>
2.1.1 Automated installation.....	6
2.1.2 Manual installation.....	7
2.1.3 Run the installation test.....	7
<b>3. USING THE SYSTEM.....</b>	<b>8</b>
<b>3.1 Define record format.....</b>	<b>8</b>
3.1.1 The package supplied record definition.....	8
3.1.2 Field definition rules.....	9
3.1.3 Defining user record formats.....	10
<b>3.2 Loading data into the Bdsafe data store.....</b>	<b>11</b>
3.2.1 Loading system generated test data .....	11
3.2.2 Loading user data.....	12
<b>3.3 Requesting data from the Bdsafe data store.....</b>	<b>14</b>
3.3.1 Manual requests for records.....	14
3.3.2 File based requests for records and delivering results.....	15
3.3.3 File based requests for files and delivering results.....	15
3.3.4 Method to forward new data as it arrives.....	15
3.3.5 Other types of requests.....	16
<b>4. APPENDIX 1.....</b>	<b>17</b>
<b>5. APPENDIX 2.....</b>	<b>18</b>
<b>6. APPENDIX 3.....</b>	<b>22</b>
<b>7. APPENDIX 4.....</b>	<b>23</b>
<b>8. APPENDIX 5.....</b>	<b>24</b>

**9. APPENDIX 6.....27**

**10. APPENDIX 7.....31**

**11. APPENDIX 8.....33**

**12. APPENDIX 9.....35**

**13. APPENDIX 13.....38**

**14. APPENDIX 14.....42**

## **0. Definitions and Abbreviations**

### **0.1 Definitions**

### **0.2 Abbreviations**

## 1. The DT2 Bdsafe free system

The word 'free' has different meanings in the world of IT. In this context, it means a zero cost license, and a free choice regarding support fees.

You can use the system at no cost at all, or you can pay a low fee for support.

The reason for this approach is to give users ample opportunity to try the system and to decide if it serves a purpose in their situation.

## 2. DT2 Bdsafe Installation

### 2.1 Install the package

We recommend the Bdsafe system is installed into its own user. This document assumes the package is installed in its own user (in this case called dwuser1), on a dedicated server running the default operating system (RedHat REL5).

Installing the package file.

To do this,

1. cd to the user's home directory.
2. Copy the package file to this directory.
3. Unpack the package file with  
**tar -xzf bdsafe\_YYYYMMDD\_AA\_BBB.tgz**  
(where YYYYMMDD is the date part of the name,  
AA is the release number part of the name,  
BBB is the version number part of the name,  
eg bdsafe\_20120629\_20\_125.tgz)

At this point you have 2 options,

- An automated install (does installation and test from 1 script) See 2.1.1
- A manual install (installation and test are separate) See 2.1.2 and 2.1.3

#### 2.1.1 Automated installation

```
Call  
bash quick_install
```

A sample run of this can be seen in Appendix 14. This will simply do the steps described in 'Manual installation'. It will give you a working system very quickly.

## 2.1.2 Manual installation

Call

```
bash bdw_install dwuser1 DW01 NULL BDW1 2 1 192.168.1.100 192.168.1.101
```

The process **bdw\_install** has the following parameters,

1. Parameter 1  
The name of the Bdsafe user. Here we use 'dwuser1'.
2. Parameter 2  
The name of the Bdsafe system (can be thought of as a tablename). Here we use the name 'DW01'.
3. Parameter 3  
This field is not used by the system, a value of 'NULL' is used.
4. Parameter 4  
This parameter refers to a base configuration set. Use the value 'BDW1'.
5. Parameter 5  
This parameter specifies a node type. Always use the value '2'.
6. Parameter 6  
This parameter specifies a node id. Always use the value '1'.
7. Parameter 7  
This parameter is not used by the system, so any value is allowed. Note that a value must be supplied so we suggest using the one in the example.
8. Parameter 8  
This parameter is not used by the system, so any value is allowed. Note that a value must be supplied so we suggest using the one in the example.

See Appendix 1 for a sample output from an install run.

## 2.1.3 Run the installation test

1. cd to the user's home directory.
2. Call `bash bdw_installation_test dwuser1 /home/dwuser1 DW01`

The process **bdw\_installation\_test** has the following parameters,

1. Parameter 1  
The name of the Bdsafe user. Here we use 'dwuser1'.
2. Parameter 2  
The full path name of the home directory of the Bdsafe user.
3. Parameter 3  
The name of the Bdsafe system (can be thought of as a tablename). Here we use the name 'DW01'.

This will generate test files with records fitting a predefined record definition, load the files, and then run a query.

See Appendix 2 for a sample output from an install run.

At this point, you are ready to process your own files.

### 3. Using the system

Using the system requires 2 things,

1. A record definition.
2. Data files.

The first enables data to be loaded.

The second enables data requests to be actioned.

It is assumed that you have your own data files with records in CSV format and are ready to load the records.

It is possible to hold data files in original raw form, but this approach adds overheads and customization requirements, so we will assume ascii format CSV records.

#### 3.1 Define record format

Defining the record format is very similar to defining a simple table in an RDBMS database, but the purpose of the definition is primarily to specify which fields are to be indexed.

We have followed the general syntax of a table definition for defining record formats.

##### 3.1.1 The package supplied record definition

The record definition used by the installation test, is shown below.

cd to the `installation_dir` and cat the file `toolbox/recdef.sql`

The contents are,

```
DROP TABLE IF EXISTS `DW01`;  
  
CREATE TABLE `DW01` {  
  `calltype` char(6) index 1 ,  
  `Anumber` char(32) index 2 ,  
  `Bnumber` char(32) index 3 ,  
  `Startdate` char(6) index 4 ,  
  `Starttime` char(6) index 5 ,  
  `duration` char(6) ,  
  `imei` char(14) index 6 ,  
}
```





Shorter values are allowed in records.

Longer values found in new data are allowed, but the portion of the field value used for the index key will be truncated to the maximum length specified in the field definition.

3. Index number is an identifier used by the supporting index files. The numbers should be consecutive with no repeats and no gaps in the sequence.

### 3.1.3 Defining user record formats

#### Step 1.

Create a record definition file with a text editor using the test record definition file as a guide,

```
DROP TABLE IF EXISTS `DW01`;

CREATE TABLE `DW01` {
  `calltype` char(6) index 1 ,
  `Anumber` char(32) index 2 ,
  `Bnumber` char(32) index 3 ,
  `Startdate` char(6) index 4 ,
  `Starttime` char(6) index 5 ,
  `duration` char(6) ,
  `imei` char(14) index 6 ,
  `imsi` char(15) index 7 ,
  `cellid` char(18) index 8 ,
  `field10` char(10) ,
  `field11` char(20) index 9 ,
  `field12` char(10) ,
  `field13` char(10) ,
  `field14` char(10) ,
};
```

#### Step 2.

Install this new record definition. Assume it was called myrec1.def

```
bash define_record DW01 myrec1.def
```

Restart the Bdsafe system to pick up the new record definition.

```
showprocs DW01 stopall
```

The Bdsafe processes will be restarted within 1 minute by crontab entries. You can check to see if they are running with the command

```
showprocs DW01
```

#### Step 3.

At this point, you can do 2 things.

1. Let the system generate and load test data based on your record definition. (See sect 3.2.1)

2. Load your own data into the Bdsafe data store immediately. (See sect 3.2.2)

## 3.2 Loading data into the Bdsafe data store

### 3.2.1 Loading system generated test data

The system can self test using the script **bdw\_data\_test** which is driven by a parameter file.

( The script called **bdw\_installation\_test** in section 2.2 calls this and creates a parameter file called DW01/tmp/pfile which can be used as the basis for your own testing by copying it to a file called pfile)

We will call the parameter file 'pfile'.

Typical contents are,

```

action_1                =
action_2                =
action_3                =      1
action_4                =      1
ds_id                   =      DW01
testday                 =      20120610
rec_definition_file     =      /home/dwuser1/recdef.sql
datafile_prefix         =      fYYMMDDhhmmsscc
datafile_corename       =      datafile
datafile_start_number   =      1
datafile_end_number     =      8
datafile_record_count   =      50000
datafile_target_directory =      raw
testdata_loop_flag      =      0
testdata_reset_number   =      10000
query_statement         =      03(07=0000000000000050)
result_filename         =      myresults
search_date_start       =      20120610
search_date_end         =      20120610
test_data_file          =      tf1

```

Points to note about using this parameter file,

1. Usually the parameters 'action\_1' and 'action\_2' have no value. If values are supplied here, any existing data will be deleted.
2. The parameters 'datafile\_start\_number' and 'datafile\_end\_number' should be reset for each test run. Suggested values are 1,100 for the first test and maybe 101,500 for a second test, then maybe 501,2000 for a third test. The limit on files per day in the free system is 20,000.
3. If you choose to generate a large number of large files, it can take some time. This test script will create all the data files before starting to load them.

4. If using the parameter file DW01/tmp/pfile created by the installation test, it is recommended you change the dates ( `testday`, `search_date_start`, `search_date_end`) to a date a few days earlier.

Start a test run by calling **bdw\_data\_test pfile**

The installation test process (see section 2.2) calls this script and the parameter file shown above is an example from the installation test.

See Appendix 5 for more detail on the test script.

### 3.2.2 Loading user data

#### 3.2.2.1 Define the user record format

Assume an example user record is

```
SMSMO,440000004941,440000005544,120418,220109,00000,31000000
04941,480000000004941,510/11/1/244,0003125213,0000852389,000257
5409,0004091937,0000885463
```

In this case, the fields are,

			Indexed
1.	Calltype	max 6 chars	yes
2.	Anumber	max 32 chars	yes
3.	Bnumber	max 32 chars	yes
4.	Date	max 6 chars (YYMMDD)	no
5.	Time`	max 6 chars (hhmmss)	yes
6.	Duration	max 6 chars (seconds)	yes
7.	Imei	max 13 chars	yes
8.	Imsi	max 15 chars	yes
9.	CellID	max 19 chars (aaa/bbb/ccccc/ddddd)	yes
10.	other1		no
11.	other2	max 20 chars	yes
12.	other3		no
13.	other4		no
14.	other5		no

The actual lengths of fields 4,10,11,12,13,14 are irrelevant.  
Any lengths specified for these fields are ignored by the system in this version.

For the indexed fields, the maximum length of the fields must be given. If a value in one of these fields exceeds the defined maximum, the record will

still be indexed, but only on the number of characters specified in the index definition.

Create a record definition file for this record

```
DROP TABLE IF EXISTS `DW01`;

CREATE TABLE `DW01` {
  `calltype` char(6) index 1 ,
  `Anumber` char(32) index 2 ,
  `Bnumber` char(32) index 3 ,
  `Startdate` char(6) ,
  `Starttime` char(6) index 4 ,
  `duration` char(6) ,
  `imei` char(13) index 5 ,
  `imsi` char(15) index 6 ,
  `cellid` char(19) index 7 ,
  `other1` char(10) ,
  `other2` char(20) index 8 ,
  `other3` char(10) ,
  `other4` char(10) ,
  `other5` char(10) ,
};
```

call the definition file 'record.def'.

Call 'bash define\_record record.def'

To pick up the new record definition, restart the data store system processes by calling 'showprocs DW01 stopall'.

Crontab entries will restart the system processes within 1 minute, using the new record definition.

### 3.2.2.2 Deliver the user data files to the collection directory

In this example this directory is called DW01/raw.

File names must conform to a standard format for each installed system. For the free system, this format is  
fYYYYMMDDhhmmsscc\_YYYYMMDD\_**userfilename**.dat

The 1<sup>st</sup> part is the date-time when the file was received.

The 2<sup>nd</sup> part is the date when the file was created.

The 3<sup>rd</sup> part is the original use name for the file.

Always add the suffix ".dat".

Always create a flag file with name form

fYYYYMMDDhhmmsscc\_YYYYMMDD\_**userfilename**.dat.flg

This flag file is used to ensure any file in transit gets fully transferred before being processed. It can also hold a record count for validation purposes but this is optional.

This naming standard is not set in concrete but different naming standards will require some changes to some support scripts in the system. This is not supported in the free system to avoid customizations.

You simply copy the data files (plus flag files) to the collection directory DW01/raw, and the system does the rest.

### 3.3 Requesting data from the Bdsafe data store

There are several ways of retrieving data from a Bdsafe data store.

The main ones provided by the free system are,

1. Manually submitted data requests from a CLI to extract record sets that match predefined conditions.
2. File based requests to extract record sets that match predefined conditions and deliver them to specified locations.
3. File based requests to extract files and deliver them to specified locations.

Note. In the free system, indexed fields are referred to by index number. You will have to refer to your record definition to map the index field names to index field numbers.

#### 3.3.1 Manual requests for records.

This method of requesting data is done directly on the data store server from the command line.

To retrieve records that match the condition Calltype=000025 we use the condition (01=000025), the call from the command line is

```
bdw_query "( 01=000025)" DW01 myresult 20120605
```

This request is "retrieve the records for date 20120605 (YYYYMMDD) from the data store DW01 for condition (01=000025) and place the results in fileset DW01/myresult.\*"

Assuming records that meet this condition are met, this request will generate 2 files,  
DW01/myresult.csv  
DW01/myresult.cat

The data is in DW01/myresult.csv as csv records.  
The file DW01/myresult.cat contains details of the number of records found in each data file.

### 3.3.2 File based requests for records and delivering results

This method of requesting data is done using files containing commands, which enables multiple requests to be submitted together. It also enables more complete audit trail recording.

To retrieve records that match specified conditions and to deliver the results to a specific machine, user and directory we can supply this information in a file and then execute the file. An example file is shown in Appendix 3.

If this file was called `data_request_1`, we would call

```
bash data_request_1
```

### 3.3.3 File based requests for files and delivering results

This method of requesting data is done using files containing commands, which enables multiple requests to be submitted together. It also enables more complete audit trail recording.

To retrieve whole files and to deliver them to a specific machine, user and directory we can supply this information in a file and then execute the file. An example file is shown in Appendix 4.

If this file was called `data_request_2`, we would call

```
bash data_request_2
```

### 3.3.4 Method to forward new data as it arrives

This method of retrieving data provides one example of forwarding newly arrived data to an interested application.

The example was run on data generated for day 20120603.

Step 1.

Delete all existing data for the day.

```
Call bash rm_day DW01
```

See Appendix 6 for the output from this.

Step 2.

Start a script which runs for 24 hours and checks for new data every 2 minutes.

Call `bash toolbox/request_files_cont`

See Appendix 8 for the contents of this script.

Step 3.

Call `bash toolbox/generate_data_cont`

See Appendix 7 for the contents of this script.

Note that these two scripts should be running together in different terminals (this is for visibility, they can run as background jobs)

### 3.3.5 Other types of requests

There are many other types of requests for data which have not been detailed here.

The emphasis in the free system is on simplicity. We feel it is more important to keep things simple so that the scope of the system can be easily digested.

As background information, the full system supports custom request types such as,

1. Feeding data files as they arrive, to other applications,
2. Feeding selected record sets as they arrive, to other applications,
3. Allowing other applications to retrieve records from within running programs. Eg, an RDBMS application which has an occasional need to retrieve raw records, can do so directly. One way of doing this is to use the Bdsafe data store as a MySQL storage engine which also gives access to established interfaces for JDBC, ODBC APIs in addition to the embedded calls in various programming languages.



#### 4. Appendix 1

This is a sample output from a run of `bdw_install`.

```
-bash-3.2$ bash bdw_install dwuser2 DW01 NULL BDW1 2 1 192.168.1.100 192.168.1.101
Call: bdw_install dwuser2 DW01 NULL BDW1 2 1 192.168.1.100 192.168.1.101
Copying files.
Adjust files for instance BDW1
Using code_base /home/dwuser2
  user_ dwuser2
  ds_id DW01
  instance BDW1
  dbtype NULL
  node_type 2
  node_id 1
  mc_address 192.168.1.100
  ds_address 192.168.1.101
chk count 0
Added bdw_localpath.dat to .profile
chk count 0
Skip validate files
Switch to /home/dwuser2/bin/scr
Setting IP addresses
  MC is 192.168.1.100
  DS is 192.168.1.101
Call bash run_config /home/dwuser2 dwuser2 DW01
Call bash dosetup DW01
[dosetup_____] [2012/06/11_21:45:19.396] [9643] create /home/dwuser2/DW01/qcmd
[dosetup_____] [2012/06/11_21:45:19.438] [9643] create /home/dwuser2/.DS_DW01_registry
[dosetup_____] [2012/06/11_21:45:19.460] [9643] create /home/dwuser2/.DSMR
[dosetup_____] [2012/06/11_21:45:19.541] [9643] Check /home/dwuser2/DW01/work with prefix
[dosetup_____] [2012/06/11_21:45:19.657] [9643] Check /home/dwuser2/DW01/tmp with prefix
[dosetup_____] [2012/06/11_21:45:19.672] [9643] create /home/dwuser2/DW01/tmp
DB 00100 call showprocs DW01 stopall
End dosetup DW01

DT2 Bdsafe System installed successfully
```

## 5. Appendix 2

This is a sample output from an install run.

```
-bash-3.2$ bash bdw_installation_test dwuser2 /home/dwuser2 DW01
Validate Instance
Default date 20120610
Param count 1
run_mode run
p01 1
p02 1
p03 1
p04 1
p05 DW01
p06 20120610
p07 fYYMMDDhhmmsscc
p08 datafile
p09 /home/dwuser2/recdef.sql
p10 1
p11 8
p12 50000
p13 raw
p14 0
p15 10000
p16 03(07=0000000000000050)
p17 myresults
p18 20120610
p19 20120610
p20 tfl
(This section clears any data from a previous run of the installation test)
DW01/work/purge_20120610_names
DW01/work/20120610_tmp_2
DW01/work/20120610_tmp
DW01/work/20120610_new
DW01/work/purge_20120610
DW01/work/20120610_tmp_1
DW01/audit/20120610
DW01/audit/20120610/f2012061115312280_20120610_datafile000008.dat.flg
DW01/audit/20120610/f2012061115311440_20120610_datafile000002.dat.flg
DW01/audit/20120610/f2012061115311541_20120610_datafile000003.dat.flg
DW01/audit/20120610/f2012061115311853_20120610_datafile000006.dat.flg
DW01/audit/20120610/f2012061115312081_20120610_datafile000007.dat.flg
DW01/audit/20120610/f2012061115311745_20120610_datafile000005.dat.flg
DW01/audit/20120610/f2012061115311344_20120610_datafile000001.dat.flg
DW01/audit/20120610/f2012061115311640_20120610_datafile000004.dat.flg
DW01/index/20120610
DW01/admin/20120610
DW01/admin/20120610_new
```

```
DW01/admin/20120610_completed
DW01/admin/20120610_completed/f2012061115312081_20120610_datafile000007.dat.cnt
DW01/admin/20120610_completed/f2012061115312280_20120610_datafile000008.dat.cnt
DW01/admin/20120610_completed/f2012061115311344_20120610_datafile000001.dat.cnt
DW01/admin/20120610_completed/f2012061115311853_20120610_datafile000006.dat.cnt
DW01/admin/20120610_completed/f2012061115311745_20120610_datafile000005.dat.cnt
DW01/admin/20120610_completed/f2012061115311440_20120610_datafile000002.dat.cnt
DW01/admin/20120610_completed/f2012061115311541_20120610_datafile000003.dat.cnt
DW01/admin/20120610_completed/f2012061115311640_20120610_datafile000004.dat.cnt
DW01/data/globaladmin/20120610
DW01/data/20120610
DW01/data/20120610/f2012061115311640_20120610_datafile000004.dat
DW01/data/20120610/f2012061115311541_20120610_datafile000003.dat
DW01/data/20120610/f2012061115311440_20120610_datafile000002.dat
DW01/data/20120610/f2012061115312280_20120610_datafile000008.dat
DW01/data/20120610/f2012061115311853_20120610_datafile000006.dat
DW01/data/20120610/f2012061115311344_20120610_datafile000001.dat
DW01/data/20120610/f2012061115311745_20120610_datafile000005.dat
DW01/data/20120610/f2012061115312081_20120610_datafile000007.dat
DS_ID is DW01
(This section defines the record format to be used for the installation test)
Definiton file is /home/dwuser2/recdef.sql
New Record Definition:
runtype 2
Part 1
Index List:
[index_list]
# List of indexes
#field-name/index-num/key-num/field-num/field-length
calltype,1,1,0,6
Anumber,2,2,1,32
Bnumber,3,3,2,32
Startdate,4,4,3,6
Starttime,5,5,4,6
imei,6,6,6,14
imsi,7,7,7,15
cellid,8,8,8,18
[index_list_end]
Field Map:
[field_map]
# Mapping between user-fields and stored-fields
#user-field-name,user-field-num/stored-field-num
O_NUMBER ,03,01
I_NUMBER ,04,01
O_IMEI ,05,02
I_IMEI ,06,02
O_CELLID ,09,03
I_CELLID ,12,03
CALLTYPE ,21,04
O_IMSI ,07,05
```

```

I_IMSI      ,08,05
STARTDATE,15,96
STARTTIME,16,97
ENDDATE    ,17,98
ENDTIME    ,18,99
[field_map_end]
Part 2
-rw-rw-r-- 1 dwuser2 dwuser2 2241 Jun 11 21:45 /home/dwuser2/.DS_DW01_registry/metainf.dat_orig
-rw-rw-r-- 1 dwuser2 dwuser2 2387 Jun 11 21:45 /home/dwuser2/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser2 dwuser2 2606 Jun 11 21:48 /home/dwuser2/.DS_DW01_registry/metainf.dat.new
Save /home/dwuser2/.DS_DW01_registry/metainf.dat
Create new /home/dwuser2/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser2 dwuser2 2606 Jun 11 21:48 /home/dwuser2/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser2 dwuser2 2606 Jun 11 21:48 /home/dwuser2/.DS_DW01_registry/metainf.dat.new
-rw-rw-r-- 1 dwuser2 dwuser2 2387 Jun 11 21:45 /home/dwuser2/.DS_DW01_registry/metainf.dat.old
-rw-rw-r-- 1 dwuser2 dwuser2 2241 Jun 11 21:45 /home/dwuser2/.DS_DW01_registry/metainf.dat_orig
30081      1 /bin/bash /home/dwuser2/bin/scr/run_indexing_manager_v17_merger DW01
30088      1 /bin/bash /home/dwuser2/bin/scr/datastore_state DW01
30109      1 /bin/bash /home/dwuser2/bin/scr/run_process_new_ascii_files_v8 DW01
30118      1 /bin/bash /home/dwuser2/bin/scr/trashman DW01
30163      1 /bin/bash /home/dwuser2/bin/scr/run_indexing_manager_v17_indexer DW01
30959      1 /home/dwuser2/bin/exe/query_server_v17 -f1 -IDW01
31031      1 /home/dwuser2/bin/exe/iquery_server_v17 -f2 -IDW01
31040      1 /home/dwuser2/bin/exe/process_controller_v6 DW01
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
 4725      1 /bin/bash /home/dwuser2/bin/scr/datastore_state DW01
 4739      1 /bin/bash /home/dwuser2/bin/scr/run_indexing_manager_v17_merger DW01
 4760      1 /bin/bash /home/dwuser2/bin/scr/trashman DW01
 4811      1 /bin/bash /home/dwuser2/bin/scr/run_indexing_manager_v17_indexer DW01
 4817      1 /bin/bash /home/dwuser2/bin/scr/run_iquery_server_v17 DW01 2
 4861      1 /bin/bash /home/dwuser2/bin/scr/run_process_new_ascii_files_v8 DW01
 5338      1 /home/dwuser2/bin/exe/query_server_v17 -f1 -IDW01
 5397      1 /home/dwuser2/bin/exe/process_controller_v6 DW01
 5915 4817 /home/dwuser2/bin/exe/iquery_server_v17 -f2 -IDW01
(This section generates test data to be loaded by the installation test, and then waits for it to be loaded)
Generate data for 20120610
Generate data file 1
Generate data file 2
Generate data file 3
Generate data file 4
Generate data file 5
Generate data file 6
Generate data file 7
Generate data file 8
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart

```

```
Wait for processes to restart
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 7 of 8 found
Wait for files to be processed, 7 of 8 found
Wait for files to be processed, 7 of 8 found
(This section queries the data loaded by the installation test)
/home/dwuser2/DW01/data/20120610
Find hits
Retn hits
Returned 40 records in /home/dwuser2/DW01/myresults.csv
DT2 Dsafe System tested successfully
```

Note that 40 records found is the expected result. It is possible that the query is actioned before the loading is fully complete on a slow machine and returns less than 40 records. In this case a manual query following the test will return 40 records.

### 6. Appendix 3

This is a sample command file containing requests to retrieve record sets and deliver them to specified locations.

```
sday=20120603           # Specifies the start day for data extraction
eday=20120608         # Specifies the end day for data extraction (if applicable)
IPA1=192.168.1.79     # Specifies the address of the target machine
usern1=devuser        # Specifies the target user on the target machine
userp1=devuserpw      # Specifies the password of the target user on the target machine
IPA2=192.168.2.125    # Specifies the address of the target machine
usern2=liveuser       # Specifies the target user on the target machine
userp2=liveuserpw     # Specifies the password of the target user on the target machine
datasetname=devdata   # Specifies the filename to hold the requested data. (This will be prefixed by timestamps.)
datasetname=livedata # Specifies the filename to hold the requested data. (This will be prefixed by timestamps.)
filelist=wklist       # Specifies the name of a workfile to hold filenames

### STEP 1.
###          Extract data for specified query(s) for a given date range from the datastore
###-----
bdw_request_manager -R "(01=009999)" -t 1 -I ${DS_ID} -o ${datasetname} \
-s ${sday} -e ${eday} -D ${IPA1}:${usern1}:${userp1}:newdata
bdw_request_manager -R "((01=000001)OR(08=000000000000004992))" -t 1 -I ${DS_ID} -o ${datasetname} \
-s ${sday} -D ${IPA2}:${usern2}:${userp2}:newdata

### STEP 2.
###          Send data all data sets extracted to their specified destinations
###-----
bdw_request_manager -R null -t 2 -I ${DS_ID} -o null -s null -D null
```

### 7. Appendix 4

This is a sample command file containing requests to retrieve files and deliver them to specified locations.

```

sday=20120603          # Specifies the start day for data extraction
eday=20120608          # Specifies the end day for data extraction (if applicable)
IPA1=192.168.1.79      # Specifies the address of the target machine
usern1=devuser         # Specifies the target user on the target machine
userp1=devuserpw       # Specifies the password of the target user on the target machine
IPA2=192.168.2.125     # Specifies the address of the target machine
usern2=liveuser        # Specifies the target user on the target machine
userp2=liveuserpw      # Specifies the password of the target user on the target machine
datasetname=devdata    # Specifies the filename to hold the requested data. (This will be prefixed by timestamps.)
datasetname=livedata   # Specifies the filename to hold the requested data. (This will be prefixed by timestamps.)
filelist=wklist        # Specifies the name of a workfile to hold filenames

### STEP 1.
###          Get a list of filenames for a given day in the Datastore and store in a work file
###-----

          bdw_file_manager -t2 -a list -I ${DS_ID} -S ${sday} -s null -E null -e null -D null -f ${filelist}

### NOTE. This list will be a complete list of files for the specified day. You may wish to edit this list as it can
### be very long. This can be done by doing Step 1 in one run and Steps 2 and 3 in a second run.

### STEP 2.
###          Extract files named in file ${filelist} for a day from the Datastore
###          The list file can be edited or created manually
###-----

          bdw_file_manager -t2 -a extract -I ${DS_ID} -S ${sday} -s null -E null -e null \
          -D ${IPA}:${usern}:${userp}:newdata -f ${filelist}

### STEP 3.
###          Send files extracted to a specified destination
###-----

#          bdw_file_manager -t2 -a send -I ${DS_ID} -S null -s null -E null -e null -D null -f null

```

## 8. Appendix 5

The installation test script, **bdw\_data\_test**, can perform 4 actions.

### 8.1.1.1 Action 1 Delete existing test data

This action uses the following parameters

```
action_1          =      1
ds_id             =      DW01
testday          =      20120610
```

This action deletes all data for day 20120610 from data store DW01.

### 8.1.1.2 Action 2 Define record format

This action uses the following parameters

```
action_2          =      1
ds_id             =      DW01
rec_definition_file =      /home/dwuser1/record.def
```

This action defines a record format held in file **home/dwuser1/record.def** for data store DW01.

### 8.1.1.3 Action 3 Generate test data files

This action uses the following parameters

```
action_3          =      1
ds_id             =      DW01
testday          =      20120610
datafile_prefix   =      fYYMMDDhhmmsscc
datafile_corename =      datafile
datafile_start_number =      1
datafile_end_number =      8
datafile_record_count =      50000
datafile_target_directory =      raw
```



```

testdata_loop_flag           =          0
testdata_reset_number       =         10000
test_data_file               =          tf1

```

This action generates test data files.  
 It will generate files with the record format defined in action 2.  
 The files will have names of the form

fYYMMDDhhmmsscc\_20120610\_datafile000001.dat, an example being  
 f1012060110302587\_0120610\_datafile000001.dat

A flag file will also be generated with the name  
 f1012060110302587\_0120610\_datafile000001.dat.flg

These files will be stored in directory DW01/raw  
 The files will have 50,000 records  
 The fields in the first record will all have the value 1 with preceding zeros to make up the field length as defined in the record definition.  
 The fields in the second record will all have the value 2 with preceding zeros to make up the field length as defined in the record definition, and so on.  
 When the record number reaches 10000, it reverts back to 1.  
 The file tf1 can hold predefined records with user defined values to be inserted at specified record numbers, to vary this simple sequence.

#### 8.1.1.4 Action 4 Run test query against the test data

This action uses the following parameters

```

action_4                     =          1
ds_id                        =         DW01
rec_definition_file          =    /home/dwuser1/record.def
query_statement               =    (07=0000000000000050)
result_filename              =         myresults
search_date_start            =         20120610
search_date_end              =         20120610

```

This example will query the data store DW01 for data from the data 20120610 to the date 20120610.  
 The records retrieved will match the condition

'index field 07 = 00000000000050'

The results will be in the set of files

DW01/myresults.csv

DW01/myresults.cat

The file DW01/myresults.csv will hold the retrieved records.

The file DW01/myresults.cat will hold a report of how many records were retrieved from each data file.

### 9. Appendix 6

```
[dwuser1@localhost ~]$ bash rm_day DW01 20120603
DW01/work/purge_20120603_names
DW01/work/purge_20120603
DW01/work/20120603_tmp_1
DW01/work/20120603_tmp_2
DW01/work/20120603_tmp
DW01/work/20120603_new
DW01/duplicates/20120603
DW01/duplicates/20120603/f2012061506555098_20120603_datafile000002.dat_08:23:12
DW01/duplicates/20120603/f2012061506555098_20120603_datafile000003.dat_08:23:12
DW01/duplicates/20120603/f2012061506555098_20120603_datafile000001.dat_08:23:12
DW01/distflogs/tt_20120615084147_20120615084148_f2012061506555098_20120603_datafile000021.dat
DW01/distflogs/tt_20120615082316_20120615082321_f2012061506555098_20120603_datafile000007.dat
DW01/distflogs/tt_20120615154019_20120615154021_f2012061506555098_20120603_datafile000045.dat
DW01/distflogs/tt_20120615082316_20120615082318_f2012061506555098_20120603_datafile000004.dat
DW01/distflogs/tt_20120615082316_20120615082320_f2012061506555098_20120603_datafile000006.dat
DW01/distflogs/tt_20120615083337_20120615083338_f2012061506555098_20120603_datafile000017.dat
DW01/distflogs/tt_20120615082316_20120615082322_f2012061506555098_20120603_datafile000008.dat
DW01/distflogs/tt_20120615082316_20120615082317_f2012061506555098_20120603_datafile000002.dat
DW01/distflogs/tt_20120615135745_20120615135747_f2012061506555098_20120603_datafile000034.dat
DW01/distflogs/tt_20120615153611_20120615153612_f2012061506555098_20120603_datafile000037.dat
DW01/distflogs/tt_20120615091000_20120615091000_f2012061506555098_20120603_datafile000026.dat
DW01/distflogs/tt_20120615083133_20120615083133_f2012061506555098_20120603_datafile000014.dat
DW01/distflogs/tt_20120615091000_20120615091001_f2012061506555098_20120603_datafile000028.dat
DW01/distflogs/tt_20120615084349_20120615084350_f2012061506555098_20120603_datafile000023.dat
DW01/distflogs/tt_20120615082930_20120615082931_f2012061506555098_20120603_datafile000011.dat
DW01/distflogs/tt_20120615084349_20120615084351_f2012061506555098_20120603_datafile000025.dat
DW01/distflogs/tt_20120615091000_20120615091002_f2012061506555098_20120603_datafile000029.dat
DW01/distflogs/tt_20120615082316_20120615082316_f2012061506555098_20120603_datafile000001.dat
DW01/distflogs/tt_20120615154019_20120615154020_f2012061506555098_20120603_datafile000044.dat
DW01/distflogs/tt_20120615082316_20120615082319_f2012061506555098_20120603_datafile000005.dat
DW01/distflogs/tt_20120615153611_20120615153612_f2012061506555098_20120603_datafile000038.dat
DW01/distflogs/tt_20120615153815_20120615153816_f2012061506555098_20120603_datafile000040.dat
DW01/distflogs/tt_20120615083133_20120615083133_f2012061506555098_20120603_datafile000013.dat
DW01/distflogs/tt_20120615083544_20120615083544_f2012061506555098_20120603_datafile000019.dat
DW01/distflogs/tt_20120615091000_20120615091003_f2012061506555098_20120603_datafile000030.dat
DW01/distflogs/tt_20120615135745_20120615135746_f2012061506555098_20120603_datafile000032.dat
DW01/distflogs/tt_20120615135745_20120615135746_f2012061506555098_20120603_datafile000031.dat
DW01/distflogs/tt_20120615082930_20120615082931_f2012061506555098_20120603_datafile000012.dat
DW01/distflogs/tt_20120615083337_20120615083339_f2012061506555098_20120603_datafile000018.dat
DW01/distflogs/tt_20120615082316_20120615082322_f2012061506555098_20120603_datafile000009.dat
DW01/distflogs/tt_20120615154019_20120615154019_f2012061506555098_20120603_datafile000042.dat
DW01/distflogs/tt_20120615083337_20120615083338_f2012061506555098_20120603_datafile000015.dat
DW01/distflogs/tt_20120615091000_20120615091001_f2012061506555098_20120603_datafile000027.dat
DW01/distflogs/tt_20120615082316_20120615082323_f2012061506555098_20120603_datafile000010.dat
DW01/distflogs/tt_20120615135745_20120615135747_f2012061506555098_20120603_datafile000033.dat
DW01/distflogs/tt_20120615153611_20120615153611_f2012061506555098_20120603_datafile000036.dat
```

DW01/distflogs/tt\_20120615084349\_20120615084350\_f2012061506555098\_20120603\_datafile000022.dat  
DW01/distflogs/tt\_20120615084349\_20120615084350\_f2012061506555098\_20120603\_datafile000024.dat  
DW01/distflogs/tt\_20120615083337\_20120615083338\_f2012061506555098\_20120603\_datafile000016.dat  
DW01/distflogs/tt\_20120615083544\_20120615083544\_f2012061506555098\_20120603\_datafile000020.dat  
DW01/distflogs/tt\_20120615082316\_20120615082317\_f2012061506555098\_20120603\_datafile000003.dat  
DW01/distflogs/tt\_20120615153611\_20120615153613\_f2012061506555098\_20120603\_datafile000039.dat  
DW01/distflogs/tt\_20120615154019\_20120615154019\_f2012061506555098\_20120603\_datafile000041.dat  
DW01/distflogs/tt\_20120615135745\_20120615135747\_f2012061506555098\_20120603\_datafile000035.dat  
DW01/distflogs/tt\_20120615154019\_20120615154020\_f2012061506555098\_20120603\_datafile000043.dat  
DW01/tmp/flrfile\_master\_20120603  
DW01/audit/20120603  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000015.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000006.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000022.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000017.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000028.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000018.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000033.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000021.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000009.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000007.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000041.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000004.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000002.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000042.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000030.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000026.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000043.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000014.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000008.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000044.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000038.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000016.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000023.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000003.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000045.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000034.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000019.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000037.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000020.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000005.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000010.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000032.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000012.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000035.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000011.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000001.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000036.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000013.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000029.dat.flg  
DW01/audit/20120603/f2012061506555098\_20120603\_datafile000031.dat.flg



```
W01/admin/20120603_completed/f2012061506555098_20120603_datafile000036.dat.cnt
DW01/admin/20120603
DW01/admin/20120603_new
DW01/data/globaladmin/20120603
DW01/data/20120603
DW01/data/20120603/f2012061506555098_20120603_datafile000008.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000041.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000034.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000001.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000039.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000019.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000030.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000029.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000004.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000020.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000040.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000012.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000025.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000017.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000028.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000002.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000016.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000038.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000037.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000006.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000032.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000035.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000003.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000011.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000022.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000015.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000045.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000042.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000007.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000026.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000031.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000014.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000043.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000018.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000005.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000044.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000013.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000009.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000033.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000023.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000010.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000021.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000024.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000036.dat
DW01/data/20120603/f2012061506555098_20120603_datafile000027.dat
[dwuser1@localhost ~]$
```

### 10. Appendix 7

#### toolbox/generate\_data\_cont

```
generate_test_records_v4 DW01 f2012061506555098 datafile 01 01 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 02 02 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 03 03 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 04 04 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 05 05 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 06 06 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 07 07 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 08 08 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 09 09 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 10 10 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 11 11 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 12 12 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 13 13 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 14 14 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 15 15 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 16 16 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 17 17 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 18 18 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 19 19 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 20 20 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 21 21 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 22 22 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 23 23 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 24 24 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 25 25 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 26 26 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 27 27 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 28 28 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 29 29 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 30 30 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 31 31 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 32 32 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 33 33 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 34 34 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 35 35 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 36 36 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 37 37 50000 20120603 raw 0 10000 tf1
```

```
generate_test_records_v4 DW01 f2012061506555098 datafile 38 38 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 39 39 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 40 40 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 41 41 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 42 42 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 43 43 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 44 44 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 45 45 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 46 4` 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 47 47 50000 20120603 raw 0 10000 tf1
sleep 120
generate_test_records_v4 DW01 f2012061506555098 datafile 48 48 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 49 49 50000 20120603 raw 0 10000 tf1
generate_test_records_v4 DW01 f2012061506555098 datafile 50 50 50000 20120603 raw 0 10000 tf1
```



## 11. Appendix 8

### toolbox/request\_files\_cont

```

DS_ID=DW01                # Specifies the data store name
IPA=192.168.0.195        # Specifies the address of the target machine
sday=20120603            # Specifies the start day for data extraction
eday=20120608            # Specifies the End day for data extraction (if applicable)
usern=xluser10           # Specifies the target user on the target machine
userp=xluser10           # Specifies the password of the target user on the target machine
datasetname=testdata     # Specifies the filename to hold the requested data. (This will be prefixed
by timestamps.)
filelist=wklist          # Specifies the name of a workfile to hold filenames
sleepmin=2
((sleeptime=60*sleepmin))

#####
# Example of forwarding stored files from the data store.
#####

### STEP 1.
###           Get a list of filenames for a given day in the Datastore and store in a work file
###-----
((limit=1440/sleepmin))
loopcnt=1

    rm -f ${filelist}.last
    rm -f ${filelist}.wk1
    rm -f ${filelist}.wk2
    rm -f ${filelist}.wk3
    touch ${filelist}.last
    touch ${filelist}.wk1
    touch ${filelist}.wk2
    touch ${filelist}.wk3
    while ((loopcnt <= limit))
    do
        {
            echo "Pass ${loopcnt} of ${limit} `date`"
            rm -f ${filelist}
            touch ${filelist}
            bdw_file_manager -t2 -a list -I ${DS_ID} -S ${sday} -s null -E null -e null -D null -f ${filelist} 2>
/dev/null

            cat ${filelist} ${filelist}.last > ${filelist}.wk1
            sort < ${filelist}.wk1 > ${filelist}.wk2
            uniq -u ${filelist}.wk2 > ${filelist}.wk3
            mv ${filelist}.wk3 ${filelist}
        }
    done

### STEP 2.

```

```
###          Extract files named in file ${filelist} for a day from the Datastore
###          The list file can be edited or created manually
###-----
          if [ -s ${filelist} ]; then
              bdw_file_manager -t2 -a extract -I ${DS_ID} -S ${sday} -s null -E null -e null -D ${IPA}:${usern}:$
{userp}:newdata -f ${filelist}

###  STEP 3.
###          Send files extracted to a specified destination
###-----

          bdw_file_manager -t2 -a send -I ${DS_ID} -S null      -s null -E null -e null -D null -f null
          cat ${filelist} >> ${filelist}.last
          fi
          ((loopcnt++))
          sleep ${sleeptime}
          }
done
```

/

## 12. Appendix 9

### Start of generate\_data\_cont output

```
[dwuser1@localhost ~]$ bash toolbox/generate_data_cont
Param count 12
logfile </home/dwuser1/DW01/logs/generate_test_records_v4.log>
Index:CALLTYPE          _1_1_0_6
Index:ANUMBER           _2_2_0_32
Index:BNUMBER           _3_3_0_32
Index:STARTDATE         _4_4_0_6
Index:STARTTIME         _5_5_0_6
Index:DURATION           _6_0_0_6
Index:IMEI              _7_6_0_14
Index:IMSI              _8_7_0_15
Index:CELLID            _9_8_0_18
Index:FIELD10           _10_0_0_10
Index:FIELD11           _11_0_0_10
Index:FIELD12           _12_0_0_10
Index:FIELD13           _13_0_0_10
Index:FIELD14           _14_0_0_10
Index count 14
Index number 14
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000001.dat>
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000001.dat.flg>
Param count 12
logfile </home/dwuser1/DW01/logs/generate_test_records_v4.log>
Index:CALLTYPE          _1_1_0_6
Index:ANUMBER           _2_2_0_32
Index:BNUMBER           _3_3_0_32
Index:STARTDATE         _4_4_0_6
Index:STARTTIME         _5_5_0_6
Index:DURATION           _6_0_0_6
Index:IMEI              _7_6_0_14
Index:IMSI              _8_7_0_15
Index:CELLID            _9_8_0_18
Index:FIELD10           _10_0_0_10
Index:FIELD11           _11_0_0_10
Index:FIELD12           _12_0_0_10
Index:FIELD13           _13_0_0_10
Index:FIELD14           _14_0_0_10
Index count 14
Index number 14
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000002.dat>
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000002.dat.flg>
Param count 12
logfile </home/dwuser1/DW01/logs/generate_test_records_v4.log>
Index:CALLTYPE          _1_1_0_6
```

```
Index:ANUMBER      _2_2_0_32
Index:BNUMBER      _3_3_0_32
Index:STARTDATE    _4_4_0_6
Index:STARTTIME    _5_5_0_6
Index:DURATION     _6_0_0_6
Index:IMEI         _7_6_0_14
Index:IMSI         _8_7_0_15
Index:CELLID       _9_8_0_18
Index:FIELD10      _10_0_0_10
Index:FIELD11      _11_0_0_10
Index:FIELD12      _12_0_0_10
Index:FIELD13      _13_0_0_10
Index:FIELD14      _14_0_0_10
Index count 14
Index number 14
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000003.dat>
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000003.dat.flg>
Param count 12
logfile </home/dwuser1/DW01/logs/generate_test_records_v4.log>
Index:CALLTYPE     _1_1_0_6
Index:ANUMBER      _2_2_0_32
Index:BNUMBER      _3_3_0_32
Index:STARTDATE    _4_4_0_6
Index:STARTTIME    _5_5_0_6
Index:DURATION     _6_0_0_6
Index:IMEI         _7_6_0_14
Index:IMSI         _8_7_0_15
Index:CELLID       _9_8_0_18
Index:FIELD10      _10_0_0_10
Index:FIELD11      _11_0_0_10
Index:FIELD12      _12_0_0_10
Index:FIELD13      _13_0_0_10
Index:FIELD14      _14_0_0_10
Index count 14
Index number 14
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000004.dat>
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000004.dat.flg>
Param count 12
logfile </home/dwuser1/DW01/logs/generate_test_records_v4.log>
Index:CALLTYPE     _1_1_0_6
Index:ANUMBER      _2_2_0_32
Index:BNUMBER      _3_3_0_32
Index:STARTDATE    _4_4_0_6
Index:STARTTIME    _5_5_0_6
Index:DURATION     _6_0_0_6
Index:IMEI         _7_6_0_14
Index:IMSI         _8_7_0_15
Index:CELLID       _9_8_0_18
Index:FIELD10      _10_0_0_10
Index:FIELD11      _11_0_0_10
Index:FIELD12      _12_0_0_10
```

```
Index:FIELD13          _13_0_0_10
Index:FIELD14          _14_0_0_10
Index count 14
Index number 14
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000005.dat>
datafile </home/dwuser1/DW01/raw/f2012061506555098_20120603_datafile000005.dat.flg>
- - -
- - -
- - -
```

### 13. Appendix 13

#### Output for request\_data\_cont

```
[dwuser1@localhost ~]$ bash toolbox/request_files_cont
Pass 1 of 720 Fri Jun 15 20:00:48 WIT 2012
Pass 2 of 720 Fri Jun 15 20:02:48 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000001.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000002.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000003.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000004.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000005.dat extracted
Send tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000001.dat
Sent tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000001.dat
Send tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000002.dat
Sent tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000002.dat
Send tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000003.dat
Sent tt_20120615200248_20120615200249_f2012061506555098_20120603_datafile000003.dat
Send tt_20120615200248_20120615200250_f2012061506555098_20120603_datafile000004.dat
Sent tt_20120615200248_20120615200250_f2012061506555098_20120603_datafile000004.dat
Send tt_20120615200248_20120615200250_f2012061506555098_20120603_datafile000005.dat
Sent tt_20120615200248_20120615200250_f2012061506555098_20120603_datafile000005.dat
Pass 3 of 720 Fri Jun 15 20:04:52 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000006.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000007.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000008.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000009.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000010.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000011.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000012.dat extracted
Send tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000006.dat
Sent tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000006.dat
Send tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000007.dat
Sent tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000007.dat
Send tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000008.dat
Sent tt_20120615200452_20120615200453_f2012061506555098_20120603_datafile000008.dat
Send tt_20120615200452_20120615200454_f2012061506555098_20120603_datafile000009.dat
Sent tt_20120615200452_20120615200454_f2012061506555098_20120603_datafile000009.dat
Send tt_20120615200452_20120615200454_f2012061506555098_20120603_datafile000010.dat
Sent tt_20120615200452_20120615200454_f2012061506555098_20120603_datafile000010.dat
Send tt_20120615200452_20120615200455_f2012061506555098_20120603_datafile000011.dat
Sent tt_20120615200452_20120615200455_f2012061506555098_20120603_datafile000011.dat
Send tt_20120615200452_20120615200455_f2012061506555098_20120603_datafile000012.dat
Sent tt_20120615200452_20120615200455_f2012061506555098_20120603_datafile000012.dat
Pass 4 of 720 Fri Jun 15 20:06:59 WIT 2012
Do files in wklist
```

```
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000013.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000014.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000015.dat extracted
Send tt_20120615200659_20120615200659_f2012061506555098_20120603_datafile000013.dat
Sent tt_20120615200659_20120615200659_f2012061506555098_20120603_datafile000013.dat
Send tt_20120615200659_20120615200700_f2012061506555098_20120603_datafile000014.dat
Sent tt_20120615200659_20120615200700_f2012061506555098_20120603_datafile000014.dat
Send tt_20120615200659_20120615200700_f2012061506555098_20120603_datafile000015.dat
Sent tt_20120615200659_20120615200700_f2012061506555098_20120603_datafile000015.dat
Pass 5 of 720 Fri Jun 15 20:09:03 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000016.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000017.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000018.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000019.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000020.dat extracted
Send tt_20120615200904_20120615200905_f2012061506555098_20120603_datafile000016.dat
Sent tt_20120615200904_20120615200905_f2012061506555098_20120603_datafile000016.dat
Send tt_20120615200904_20120615200905_f2012061506555098_20120603_datafile000017.dat
Sent tt_20120615200904_20120615200905_f2012061506555098_20120603_datafile000017.dat
Send tt_20120615200904_20120615200906_f2012061506555098_20120603_datafile000018.dat
Sent tt_20120615200904_20120615200906_f2012061506555098_20120603_datafile000018.dat
Send tt_20120615200904_20120615200906_f2012061506555098_20120603_datafile000019.dat
Sent tt_20120615200904_20120615200906_f2012061506555098_20120603_datafile000019.dat
Pass 6 of 720 Fri Jun 15 20:11:09 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000021.dat extracted
Send tt_20120615201109_20120615201110_f2012061506555098_20120603_datafile000021.dat
Sent tt_20120615201109_20120615201110_f2012061506555098_20120603_datafile000021.dat
Pass 7 of 720 Fri Jun 15 20:13:10 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000022.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000023.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000024.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000025.dat extracted
Send tt_20120615201311_20120615201311_f2012061506555098_20120603_datafile000022.dat
Sent tt_20120615201311_20120615201311_f2012061506555098_20120603_datafile000022.dat
Send tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000023.dat
Sent tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000023.dat
Send tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000024.dat
Sent tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000024.dat
Send tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000025.dat
Sent tt_20120615201311_20120615201312_f2012061506555098_20120603_datafile000025.dat
Pass 8 of 720 Fri Jun 15 20:15:15 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000026.dat extracted
Send tt_20120615201519_20120615201523_f2012061506555098_20120603_datafile000026.dat
Sent tt_20120615201519_20120615201523_f2012061506555098_20120603_datafile000026.dat
Pass 9 of 720 Fri Jun 15 20:17:27 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000027.dat extracted
```





```
Sent tt_20120615201941_20120615201943_f2012061506555098_20120603_datafile000043.dat
Send tt_20120615201941_20120615201943_f2012061506555098_20120603_datafile000044.dat
Sent tt_20120615201941_20120615201943_f2012061506555098_20120603_datafile000044.dat
Send tt_20120615201941_20120615201943_f2012061506555098_20120603_datafile000045.dat
Sent tt_20120615201941_20120615201943_f2012061506555098_20120603_datafile000045.dat
Pass 11 of 720 Fri Jun 15 20:21:47 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000046.dat extracted
Send tt_20120615202147_20120615202147_f2012061506555098_20120603_datafile000046.dat
Sent tt_20120615202147_20120615202147_f2012061506555098_20120603_datafile000046.dat
Pass 12 of 720 Fri Jun 15 20:23:48 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000047.dat extracted
Send tt_20120615202348_20120615202349_f2012061506555098_20120603_datafile000047.dat
Sent tt_20120615202348_20120615202349_f2012061506555098_20120603_datafile000047.dat
Pass 13 of 720 Fri Jun 15 20:25:49 WIT 2012
Do files in wklist
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000048.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000049.dat extracted
/home/dwuser1/DW01/data/20120603/f2012061506555098_20120603_datafile000050.dat extracted
Send tt_20120615202550_20120615202550_f2012061506555098_20120603_datafile000048.dat
Sent tt_20120615202550_20120615202550_f2012061506555098_20120603_datafile000048.dat
Send tt_20120615202550_20120615202550_f2012061506555098_20120603_datafile000049.dat
Sent tt_20120615202550_20120615202550_f2012061506555098_20120603_datafile000049.dat
Send tt_20120615202550_20120615202551_f2012061506555098_20120603_datafile000050.dat
Sent tt_20120615202550_20120615202551_f2012061506555098_20120603_datafile000050.dat
Pass 14 of 720 Fri Jun 15 20:27:54 WIT 2012
Pass 15 of 720 Fri Jun 15 20:29:54 WIT 2012
Pass 16 of 720 Fri Jun 15 20:31:54 WIT 2012
Pass 17 of 720 Fri Jun 15 20:33:55 WIT 2012
Pass 18 of 720 Fri Jun 15 20:35:55 WIT 2012
Pass 19 of 720 Fri Jun 15 20:37:55 WIT 2012
Pass 20 of 720 Fri Jun 15 20:39:56 WIT 2012
Pass 21 of 720 Fri Jun 15 20:41:56 WIT 2012
Pass 22 of 720 Fri Jun 15 20:43:56 WIT 2012
```

**14. Appendix 14**

Output for quick\_install

```
-bash-3.2$ tar xvzf bdsafe_20120629_20_125.tgz
bdw_install
bdw_installation_test
bdw_localpath.dat
bdw_pack.tar.gz
bdw_setup
bdw_uninstall
quick_install
-bash-3.2$ bash quick_install
bdw_install
bdw_installation_test
bdw_localpath.dat
bdw_pack.tar.gz
bdw_setup
bdw_uninstall
quick_install
Call: bdw_install dwuser1 DW01 NULL BDW1 2 1 192.168.1.100 192.168.1.101
Copying files.
Adjust files for instance BDW1
Using code_base /home/dwuser1
    user      dwuser1
    ds_id     DW01
    instance  BDW1
    dbtype    NULL
    node_type 2
    node_id   1
    mc_address 192.168.1.100
    ds_address 192.168.1.101
mkfifo: cannot create fifo `/home/dwuser1/DW01/msg_pipe': File exists
chk count 0
Added bdw_localpath.dat to .profile
chk count 0
Skip validate files
Switch to /home/dwuser1/bin/scr
Setting IP addresses
    MC is 192.168.1.100
    DS is 192.168.1.101
Call bash run_config /home/dwuser1 dwuser1 DW01
Call bash dosetup DW01
[dosetup_____][2012/06/29_11:49:27.997][1156] Check /home/dwuser1/DW01/work with prefix
[dosetup_____][2012/06/29_11:49:27.048][1156] Check /home/dwuser1/DW01/tmp with prefix
DB 00100 call showprocs DW01 stopall
25233 1 /bin/bash /home/dwuser1/bin/scr/trashman DW01
End      dosetup DW01

DT2 Bdsafe System installed successfully
```

```
Validate Instance
Default date 20120628
Param count 1
run_mode run
p01 1
p02 1
p03 1
p04 1
p05 DW01
p06 20120628
p07 fYMMDDhhmmsscc
p08 datafile
p09 /home/dwuser1/recdef.sql
p10 1
p11 8
p12 50000
p13 raw
p14 0
p15 10000
p16 03(07=0000000000000050)
p17 myresults
p18 20120628
p19 20120628
p20 tfl
```

```
DW01/work/20120628_tmp
DW01/work/20120628_new
DW01/work/20120628_tmp_1
DW01/tmp/flrfile_master_20120628
DW01/audit/20120628
DW01/audit/20120628/f2012062911441016_20120628_datafile000002.dat.flg
DW01/audit/20120628/f2012062911441610_20120628_datafile000008.dat.flg
DW01/audit/20120628/f2012062911441309_20120628_datafile000005.dat.flg
DW01/audit/20120628/f2012062911441413_20120628_datafile000006.dat.flg
DW01/audit/20120628/f2012062911440917_20120628_datafile000001.dat.flg
DW01/audit/20120628/f2012062911441115_20120628_datafile000003.dat.flg
DW01/audit/20120628/f2012062911441212_20120628_datafile000004.dat.flg
DW01/audit/20120628/f2012062911441512_20120628_datafile000007.dat.flg
DW01/index/20120628
DW01/admin/20120628_completed
DW01/admin/20120628
DW01/admin/20120628_new
DW01/admin/20120628_new/f2012062911440917_20120628_datafile000001.dat.cnt
DW01/admin/20120628_new/f2012062911441115_20120628_datafile000003.dat.cnt
DW01/admin/20120628_new/f2012062911441512_20120628_datafile000007.dat.cnt
DW01/admin/20120628_new/f2012062911441309_20120628_datafile000005.dat.cnt
DW01/admin/20120628_new/f2012062911441610_20120628_datafile000008.dat.cnt
DW01/admin/20120628_new/f2012062911441413_20120628_datafile000006.dat.cnt
DW01/admin/20120628_new/f2012062911441016_20120628_datafile000002.dat.cnt
DW01/admin/20120628_new/f2012062911441212_20120628_datafile000004.dat.cnt
DW01/data/globaladmin/20120628
```

```

DW01/data/20120628
DW01/data/20120628/f2012062911441115_20120628_datafile000003.dat
DW01/data/20120628/f2012062911440917_20120628_datafile000001.dat
DW01/data/20120628/f2012062911441610_20120628_datafile000008.dat
DW01/data/20120628/f2012062911441309_20120628_datafile000005.dat
DW01/data/20120628/f2012062911441413_20120628_datafile000006.dat
DW01/data/20120628/f2012062911441016_20120628_datafile000002.dat
DW01/data/20120628/f2012062911441212_20120628_datafile000004.dat
DW01/data/20120628/f2012062911441512_20120628_datafile000007.dat
DS_ID is DW01
Definiton file is /home/dwuser1/recdef.sql
New Record Definition:
runtype 2
Part 1
Index List:
[index_list]
# List of indexes
#field-name/index-num/key-num/field-num/field-length
calltype,1,1,0,6
Anumber,2,2,1,32
Bnumber,3,3,2,32
Startdate,4,4,3,6
Starttime,5,5,4,6
imei,6,6,6,14
imsi,7,7,7,15
cellid,8,8,8,18
[index_list_end]
Field Map:
[field_map]
# Mapping between user-fields and stored-fields
#user-field-name,user-field-num/stored-field-num
O_NUMBER ,03,01
I_NUMBER ,04,01
O_IMEI ,05,02
I_IMEI ,06,02
O_CELLID ,09,03
I_CELLID ,12,03
CALLTYPE ,21,04
O_IMSI ,07,05
I_IMSI ,08,05
STARTDATE,15,96
STARTTIME,16,97
ENDDATE ,17,98
ENDTIME ,18,99
[field_map_end]
Part 2
-rw-rw-r-- 1 dwuser1 dwuser1 2406 Jun 29 11:43 /home/dwuser1/.DS_DW01_registry/metainf.dat.old
-rw-rw-r-- 1 dwuser1 dwuser1 2260 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat_orig
-rw-rw-r-- 1 dwuser1 dwuser1 2406 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser1 dwuser1 2625 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat.new
Save /home/dwuser1/.DS_DW01_registry/metainf.dat

```

```
Create new /home/dwuser1/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser1 dwuser1 2625 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat
-rw-rw-r-- 1 dwuser1 dwuser1 2625 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat.new
-rw-rw-r-- 1 dwuser1 dwuser1 2406 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat.old
-rw-rw-r-- 1 dwuser1 dwuser1 2260 Jun 29 11:49 /home/dwuser1/.DS_DW01_registry/metainf.dat_orig
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
13005      1 /bin/bash /home/dwuser1/bin/scr/run_indexing_manager_v17_merger DW01
13008      1 /bin/bash /home/dwuser1/bin/scr/run_indexing_manager_v17_indexer DW01
13011      1 /bin/bash /home/dwuser1/bin/scr/run_query_server_v17 DW01 1
13050      1 /bin/bash /home/dwuser1/bin/scr/datastore_state DW01
13058      1 /bin/bash /home/dwuser1/bin/scr/trashman DW01
13094      1 /bin/bash /home/dwuser1/bin/scr/run_process_new_ascii_files_v8 DW01
14514      1 /home/dwuser1/bin/exe/process_controller_v6 DW01
14528      1 /home/dwuser1/bin/exe/query_server_v17 -f1 -IDW01
14572      1 /home/dwuser1/bin/exe/iquery_server_v17 -f2 -IDW01
Generate data for 20120628
Generate data file 1
Generate data file 2
Generate data file 3
Generate data file 4
Generate data file 5
Generate data file 6
Generate data file 7
Generate data file 8
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
Wait for processes to restart
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 0 of 8 found
Wait for files to be processed, 7 of 8 found
Wait for files to be processed, 7 of 8 found
Wait for files to be processed, 7 of 8 found
Find hits
Retn hits
Returned 40 records in /home/dwuser1/DW01/myresults.csv
DT2 Bdsafe System tested successfully
```