

# MINOS - Support #16006

## change vault dd to ftp

03/28/2017 10:51 AM - Arthur Kreymer

<b>Status:</b>	Closed	<b>Start date:</b>	03/28/2017
<b>Priority:</b>	Low	<b>Due date:</b>	04/14/2017
<b>Assignee:</b>	Arthur Kreymer	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	10.00 hours
<b>Target version:</b>			
<b>Description</b>			
Raw data files are copied monthly to /pnfs/minos/sfa/vault These copies have been partial starting with 2016-06.			
o Move the scripts from minosraw@minos-slf6 to minos-data o Change the copy method to ifdh cp o Repeal and replace the invalid files			

### History

#### #1 - 04/05/2017 09:15 AM - Arthur Kreymer

REMOVE THE EMPTY ARCHIVE FILES

```
find /pnfs/minos/sfa/vault/neardet_data/2016* -size 0 -exec ls -l {} \;
```

```
-rw-r--r-- 1 minosraw e875 0 Jul 3 2016 /pnfs/minos/sfa/vault/neardet_data/2016-06/N00064974_0009.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Aug 3 2016 /pnfs/minos/sfa/vault/neardet_data/2016-07/N00070017_0004.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Sep 3 2016 /pnfs/minos/sfa/vault/neardet_data/2016-08/N00070249_0012.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Oct 3 20:12 /pnfs/minos/sfa/vault/neardet_data/2016-09/N00070427_0014.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Nov 3 20:11 /pnfs/minos/sfa/vault/neardet_data/2016-10/N00070631_0000.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Dec 3 20:12 /pnfs/minos/sfa/vault/neardet_data/2016-11/N00070940_0002.mdaq.root
-rw-r--r-- 1 minosraw e875 0 Jan 3 20:12 /pnfs/minos/sfa/vault/neardet_data/2016-12/N00062920_0015.mdaq.root
```

```
find /pnfs/minos/sfa/vault/neardet_data/2016* -size 0 -exec echo "rm -I {}" \;
```

```
date
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-06/N00064974_0009.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-07/N00070017_0004.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-08/N00070249_0012.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-09/N00070427_0014.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-10/N00070631_0000.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-11/N00070940_0002.mdaq.root
rm -I /pnfs/minos/sfa/vault/neardet_data/2016-12/N00062920_0015.mdaq.root
date
```

cut/pasted these

```
Sat Apr 1 09:45:31 CDT 2017
```

```
Sat Apr 1 09:45:31 CDT 2017
```

```
find /pnfs/minos/sfa/vault/neardet_data/2017* -size 0 -exec ls -l {} \;
```

```
-rw-r--r-- 1 minosraw e875 0 Mar 3 21:01 /pnfs/minos/sfa/vault/neardet_data/2017-02/N00071670_0012.mdaq.root
```

```
find /pnfs/minos/sfa/vault/neardet_data/2017* -size 0 -exec echo "rm -I {}" \;
```

```
rm -I /pnfs/minos/sfa/vault/neardet_data/2017-02/N00071670_0012.mdaq.root
```

```
date
```

```
Sat Apr 1 09:47:38 CDT 2017
```

Removed the partial file found in the previous scan

```
ls -l /pnfs/minos/neardet_data/2017-01/N00071395_0005.mdaq.root \
/pnfs/minos/sfa/vault/neardet_data/2017-01/N00071395_0005.mdaq.root
```

```
-rw-rw-r-- 1 minosraw e875 58803266 Jan 1 07:37 /pnfs/minos/neardet_data/2017-01/N00071395_0005.mdaq.root
-rw-r--r-- 1 minosraw e875 10551296 Feb 3 20:11 /pnfs/minos/sfa/vault/neardet_data/2017-01/N00071395_0005.mdaq.root
```

```
rm -I /pnfs/minos/sfa/vault/neardet_data/2017-01/N00071395_0005.mdaq.root
date
Sat Apr 1 09:51:48 CDT 2017
```

```
REMOVE THE 2014-05 corrupted file
```

```
ls -l /pnfs/minos/neardet_data/2014-05/N00058872_0006.mdaq.root \
/pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.root
```

```
-rw-r--r-- 1 minosraw e875 133454372 May 17 2014 /pnfs/minos/neardet_data/2014-05/N00058872_0006.mdaq.root
-rw-r--r-- 1 minosraw e875 133454372 Nov 10 2014 /pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.ro
```

```
RAW > ./setups.sh
RAW > setup encp -q stken
```

```
BAS=/pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.root
BAD=/pnfs/minos/BAD/neardet_data/sfa_N00058872_0006.mdaq.root
```

```
date ; envm ${BAS} ${BAD}
Sat Apr 1 10:00:51 CDT 2017
```

```
ERROR: OS ERROR Unable to access file /pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.root: [Errno 13] Permission denied: '/pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.root'
```

```
shift it in place ?
```

```
BAS=/pnfs/minos/sfa/vault/neardet_data/2014-05/N00058872_0006.mdaq.root
BAD=/pnfs/minos/sfa/vault/neardet_data/2014-05/BAD_N00058872_0006.mdaq.root
```

```
date ; envm ${BAS} ${BAD}
Sat Apr 1 10:03:50 CDT 2017
```

```
TRY IN sfa/vault
```

```
mkdir /pnfs/minos/sfa/vault/BAD
```

```
BAS=/pnfs/minos/sfa/vault/neardet_data/2014-05/BAD_N00058872_0006.mdaq.root
BAD=/pnfs/minos/sfa/vault/BAD/N00058872_0006.mdaq.root
```

```
date ; envm ${BAS} ${BAD}
Sat Apr 1 10:10:52 CDT 2017
```

## #2 - 04/05/2017 09:18 AM - Arthur Kreymer

Will leave this activity in the minosraw account to allow direct mkdir.  
Got /opt/minosraw directories for keytabs created with RITM0546594 04/03 .

```
scp mindata@minos-nearline:/opt/mindata/kt /opt/minosraw/daqdcp-nd.keytab
```

## #3 - 04/06/2017 10:25 AM - Arthur Kreymer

Scan of missing vault files, done on March 26

```
for MONTH in ${MONTHS} ; do
    echo ${MONTH}
```

```
RAW=/pnfs/minos/${DET}/${MONTH}
SFA=/pnfs/minos/sfa/vault/${DET}/${MONTH}
```

```
for FILE in `ls ${SFA}` ; do
    RAD=`cat "${RAW}/. (get) (${FILE}) (checksum) "`
    SAD=`cat "${SFA}/. (get) (${FILE}) (checksum) "`
    [ "${RAD}" != "${SAD}" ] && printf "${FILE}\n${RAD} ${SAD}"
done
done
```

## FD scan

```
DET=fardet_data
MONTHS=`ls /pnfs/minos/sfa/vault/${DET}`
```

```
2014-04
2014-05
...
2016-06
```

```
F00064387_0000.mdaq.root
ADLER32:08004d0e
  ADLER32:00000001
F00064402_0006.mdaq.root
ADLER32:195ca6c0
  ADLER32:00000001
2016-07
2016-08
2016-09
2016-10
2016-11
2016-12
2017-01
2017-02
```

#### ND SCAN

```
DET=neardet_data
MONTHS=`ls /pnfs/minos/sfa/vault/${DET}`
```

```
2014-04
2014-05
N00058872_0006.mdaq.root
ADLER32:55e0bb27
  ADLER32:893256cb
2014-06
...
2016-05
2016-06
N00064974_0009.mdaq.root
ADLER32:29ab236e
  ADLER32:00000001
2016-07
N00070017_0004.mdaq.root
ADLER32:91f578ea
  ADLER32:00000001
2016-08
N00070249_0012.mdaq.root
ADLER32:936f6c53
  ADLER32:00000001
2016-09
N00070427_0014.mdaq.root
ADLER32:ae0da136
  ADLER32:00000001
2016-10
N00070631_0000.mdaq.root
ADLER32:c7543cb4
  ADLER32:00000001
2016-11
N00070940_0002.mdaq.root
ADLER32:42ac8159
  ADLER32:00000001
2016-12
N00062920_0015.mdaq.root
ADLER32:4380482e
  ADLER32:00000001
2017-01
N00071395_0005.mdaq.root
ADLER32:2a88fd3d
  ADLER32:d6dc5ef3
2017-02
N00071670_0012.mdaq.root
ADLER32:076dc6a2
  ADLER32:00000001
```

#### #4 - 04/10/2017 11:45 AM - Arthur Kreymer

- Due date changed from 04/04/2017 to 04/14/2017
- Status changed from New to Work in progress
- % Done changed from 10 to 80

vault\_monthly has been updated to vault\_monthly.20170401 - just run neardet\_data

vaultsfa has been updated to vaultsfa.20170408

- changed dd to kerberized ftp, using keytab in /opt/minosraw
- added debug option
- detailed file list and timing in .err
- moved logs from nusoft to minos/data/web/vault

The minosraw crontab entry has been enabled on minos-data, and committed to CVS ( contrib/admin/crontab )

All missing files have been vaulted

Missing files :

```
DET=fardet_data
MONTHS=`ls /pnfs/minos/sfa/vault/${DET}`

for MONTH in ${MONTHS} ; do
    RAW=/pnfs/minos/${DET}/${MONTH}
    SFA=/pnfs/minos/sfa/vault/${DET}/${MONTH}
    NR=`ls ${RAW} | wc -w`
    NS=`ls ${SFA} | wc -w`
    (( NEED = NR - NS ))
    [ "$NR" != "$NS" ] && printf "${MONTH} ${NEED}/${NR}\n"
done

2016-06 678/796
```

```
DET=neardet_data
MONTHS=`ls /pnfs/minos/sfa/vault/${DET}`
2016-08 2433/2575
2016-09 1994/2063
2016-10 2523/2523
2016-11 2473/2499
2016-12 2893/2965
2017-01 3054/3084
2017-02 2612/2682
```

#### DETAILS OF CATCHUP

```
./vaultsfa.20170408 fardet_data 2016-02 echo
./vaultsfa neardet_data 2014-07
./vaultsfa neardet_data 2014-11
./vaultsfa neardet_data 2015-07
./vaultsfa neardet_data 2016-02
./vaultsfa neardet_data 2016-03
```

```
DET=fardet_data
MOS='2016-06'
```

```
set nohup ; { for MO in ${MOS} ; do ./vaultsfa ${DET} ${MO} ; done ; } &
```

```
DET=neardet_data
MOS='
2016-08
2016-09
2016-10
2016-11
2016-12
2017-01
2017-02
2017-03'
```

```
date
set nohup ; { for MO in ${MOS} ; do ./vaultsfa ${DET} ${MO} ; done ; } &
```

**#5 - 05/04/2017 03:11 PM - Arthur Kreymer**

- % Done changed from 80 to 90

vault ran under minosraw@minos-data crontab 04/03, successfully

11 20 3 \*\* \${HOME}/vault\_monthly

See [http://minos.fnal.gov/vault/neardet\\_data/](http://minos.fnal.gov/vault/neardet_data/)

Will close this Issue when vault\_monthly and vault are committed to CVS.

**#6 - 05/04/2017 03:46 PM - Arthur Kreymer**

- *Status changed from Work in progress to Resolved*

- *% Done changed from 90 to 100*

Committed vault\_monthly and vaultsfa to CVS admin/archiver.

**#7 - 07/31/2017 12:01 PM - Arthur Kreymer**

- *Status changed from Resolved to Work in progress*

June and July cron jobs archiving May and June terminated with a failed ftp.  
Run OK by hand later.

Updated diagnostics. Will see how the Aug 3 run goes.

**#8 - 09/17/2020 05:06 PM - Arthur Kreymer**

- *Status changed from Work in progress to Closed*

The vault script ran properly in Aug 2017,  
and through the end of Minerva data taking in 2019.  
Marking this issue Closed.