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Migration plan for the muc..n

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Part 1: overview for IT and QC

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Operational accounts have to be migrated from muc0{1-7} to muc0{1-7}n. We describe here briefly the migration plan. After this first account migration, in a later step (~ two weeks later), the HOSTNAME will be renamed back from muc01n..07n to muc01..07. The HOSTNAME renaming procedure is not part of this guide.

We take this opportunity and consolidate the different symlinks, that each account points with the same naming convention to the appropriate data disk. The new symlinks are described under 'details for IT' and should be generated in advance of the migration.

Before the migration actually starts, a few points must be addressed. The preparatory steps for IT are described in Part 2, the preparatory steps for QC are described in Part 3.

After the preparatory steps are performed we will migrate per machine. We propose the following procedure:

on muc0{i}(n):

who when what

QC 14:00 stop cron jobs on muc0{i} and inform IT for handover
 IT 14:05 delta sync data disks and home disks from muc0{i} to muc0{i}n
 QC ~16:00 after handover, login on user account on muc0{i} (see Part 3)

Part 2 details for IT:

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2.1 preparatory steps before migration:

Whatever the physical name of the data disk on the muc..n is, we would like to use /dataqc/{instrument} as a symbolic link to the data disk of the corresponding user in order to homogenize and consolidate.

on muc01n

/dataqc/fors1
 /dataqc/fors2
 /dataqc/crides
 /dataqc/kmos

on muc02n

/dataqc/uves
 /dataqc/giraffe
 /dataqc/xshooter

on muc03n

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```

-----
/daqc/vimos
/daqc/visir
/daqc/isaac
/daqc/sphere

```

```

on muc04n
-----

```

```

/daqc/naco (for account name naco2)
/daqc/sinfoni
/daqc/hawki

```

```

on muc05n
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```

```

/daqc/amber
/daqc/preimg
/daqc/pionier
/daqc/pacman
/daqc/gravity
/daqc/midi (for account name midi2)

```

```

on muc06n
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```

```

/daqc/ocam

```

```

on muc07n
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```

```

/daqc/vircam

```

2.2

For reasons to support hard coded links in the local histoMonitor HTML files, the following links must be preserved, or generated in case not being available, and they must point to the corresponding data disks mentioned above:

```

muc01:
/diska/data25/fors1      -> /daqc/fors1
/diska/data26/fors2      -> /daqc/fors2
/fujisan3/data/kmos      -> /daqc/kmos
/diska/data32/crides     -> /daqc/crides
/fujisan3/data32/crides -> /daqc/crides

```

```

muc02:
/data23/giraffe         -> /daqc/giraffe
/fujisan3/data21/uves   -> /daqc/uves
/diska/data25/xshooter  -> /daqc/xshooter

```

```

muc03:
/fujisan3/data24/vimos  -> /daqc/vimos
/data24/vimos           -> /daqc/vimos
/diska/data24/vimos     -> /daqc/vimos
/data30/visir           -> /daqc/visir
/diska/data30/visir     -> /daqc/visir
/datavlt/sphere         -> /daqc/sphere
/data27/isaac           -> /daqc/isaac

```

```

muc04:
/diska/data22/naco2     -> /daqc/naco
/data22/naco2           -> /daqc/naco

```

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```
/diska/data21/hawki      -> /dataqc/hawki
/fastcache/qc/hawki     -> /dataqc/hawki
/fujisan3/qc/hawki      -> /dataqc/hawki
/diska/data29/sinfoni   -> /dataqc/sinfoni
/fujisan3/data29/sinfoni -> /dataqc/sinfoni
```

muc05:

```
/data28/gravity         -> /dataqc/gravity
/data28/midi2           -> /dataqc/midi
/diska/data28/midi2     -> /dataqc/midi
/diska/data31/amber     -> /dataqc/amber
/fujisan3/data/pacman_and_pionier -> /dataqc/pionier
```

muc06:

```
/diska/qc/ocam          -> /dataqc/ocam
/fujisan3/qc/ocam       -> /dataqc/ocam
```

muc07:

```
/diska/qc/vircam        -> /dataqc/vircam
```

2.3

We propose to sync the disks of the muc accounts a few days earlier in the background and perform only a delta sync on the day of account migration in order to minimize downtime.

We assume that the crontab files are synced as well and crontab weill be enabled shortly before handover back to QC

Part 3 details for QC

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```

3.0 information for QC :

qc_shift@muc02 and qc_shift@muc02n share the same home disk

as user qc_shift@muc02n use the alias

fors2 to login to fors2@muc01

fors2n to login to fors2@muc01n

There are corresponding aliases for all instruments: kmos and kmosn ...

3.1 after handover to QC:

```
on muc0{i}n: data disks are synced,
              home disk is cross-mounted !
              crontabs are active and
              new symbolic links to the data disk are provided by IT
```

login to your new account on muc..n

[] check functionality of firefox

[] check functionality of vnc

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```
[ ] the home disk is cross mounted fromr. For modifications described in
the following, please make a backup (e.g. cp .dfosrc .dfosrc_muc05)

[ ] in .dfosrc DFO_MACHINE has to be modified muc0{i} -> muc0{i}n

[ ] in .dfosrc # MACHINE should to be modified muc0{i} -> muc0{i}n

[ ] in .dfosrc keep links to /home/{instrument}

[ ] in .dfosrc DFO_RAW_DIR should be changed to the new
common symlink /dataqc/{instrument}/raw

[ ] in .dfosrc, change also the path names for other directories
on the data disk

[ ] cp $DFO_CONFIG_DIR/config.mucMonitor.muc0{i}.local
    $DFO_CONFIG_DIR/config.mucMonitor.muc0{i}n.local

[ ] the HIDE_DIR in config/OCA/config.filterRaw should be changed to
/dataqc/{instrument}/..

[ ] the DATA_DISK in config/config.dfoMonitor should be changed to
/dataqc/{instrument}/..

[ ] the BACKUP_DIR in config/config.dfosBackup should be changed to
/dataqc/{instrument}/...

[ ] the WORK_AREA in config/config.processAB should be changed to
/dataqc/{instrument}/...

[ ] in .pecs, generate symbolic links
ln -s misc-mucXX.env misc-muc02n.env
ln -s apps-mucXX.env apps-muc02n.env
(replace muc02n with your new machine name), that ESO-MIDAS finds its source
s

[ ] you might check
[ ] your pgi scripts under $DFO_BIN_DIR
[ ] .qcrc
[ ] .pecs/*
[ ] your QC scripts
for "muc" or absolute path names

[ ] after verification: run dfosBackup

[ ] login into your old account on the old muc (with the same home disk)
terminate older vnc session
[ ] vncserver -kill :3
[ ] crontab -e
and comment all crontab calls
[ ] ps -efl
and stop any pending process, e.g. firefox sessions
exit the session on the old muc account
```