

## Module Preparation

The following steps only need to be done once, when the modules are received at the station. If the modules have been previously initialized, grouped and labeled this section can be skipped.

### Module initialization

**IMPORTANT: This step will erase all data on the disks! Never initialize after data has been recorded!**

1. Mount the modules into the recorder(s). Connect the cables matching the color codes on the recorder.
2. Turn the keys on the recorder. **Be patient:** wait until one module finishes startup (three green LED above the module are on) before turning the next key.
3. log into the recorder as user oper
4. start `da-client` and execute:

```
mod_init=1:8:{VSN1}:sg:new
```

Replace `{VSN1}` by the VSN of the module loaded in slot 1 (find VSN on the front sticker on the module). The initialization can take a while (a few minutes). During the process check that the LEDs on the module light up one by one. Repeat the steps for slots 2, 3 and 4:

```
mod_init=2:8:{VSN2}:sg:new
mod_init=3:8:{VSN3}:sg:new
mod_init=4:8:{VSN4}:sg:new
```

5. check the results. In `da-client` execute:

```
mstat?all
```

This should print something like:

```
!mstat?0:0:-:1:{VSN1}/48008/4/
8:8:8:-:48008:initialized:null:sg:-:2:{VSN2}/48008/4/
8:8:8:-:48008:initialized:null:sg:-:3:{VSN3}/48008/4/
8:8:8:-:48008:initialized:null:sg:-:4:{VSN4}/48008/4/
8:8:8:-:48008:initialized:null:sg;
```

Make sure the VSNs are correct (match the front side stickers) and that the module state is "initialized".

Go on to the next step ("module grouping")

### Module grouping

Prior to recording modules have to be grouped.

IMPORTANT: After modules have been grouped they are bound together and have to be always inserted together in a recorder. If modules that belong to different groups are mixed recording will not work.

- following the module initialization execute (in `da-client`) :

```
group=new:1234      (for EHT sessions)
or
group=new:1        (for GMVA sessions)
```

- check the results (in `da-client`) :

```
mstat?1
mstat?2
mstat?3
mstat?4
```

This should list something like:

```
!mstat?0:0:1234:1:MPIH%008/48008/4/
8:8:8:0:48008:closed:unprotected:sg;
!mstat?0:0:1234:2:MPIH%005/48008/4/
8:8:8:0:48008:closed:unprotected:sg;
!mstat?0:0:1234:3:MPIH%007/48008/4/
8:8:8:0:48008:closed:unprotected:sg;
!mstat?0:0:1234:4:MPIH%006/48008/4/
8:8:8:0:48008:closed:unprotected:sg;
```

Make sure the 3rd column contains the newly formed group 1234 (for EHT) or 1 (for GMVA)

Go on with the next step ("Module labeling")

### Module labeling

In order to not mix modules from different groups the moduls should be labeled immediately after grouping them.

For EHT sessions you can use this label template:

- [EHT Modulelabels.odt](#)

Fill in the *Session* field with the year of the observation run (e.g. 2022).

If more than one set of modules will be used adapt the *Set field*.

You are done.