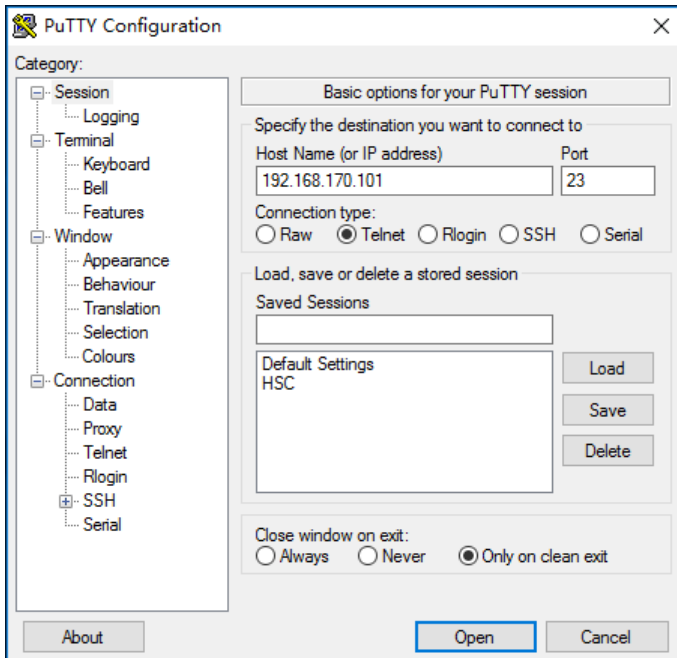
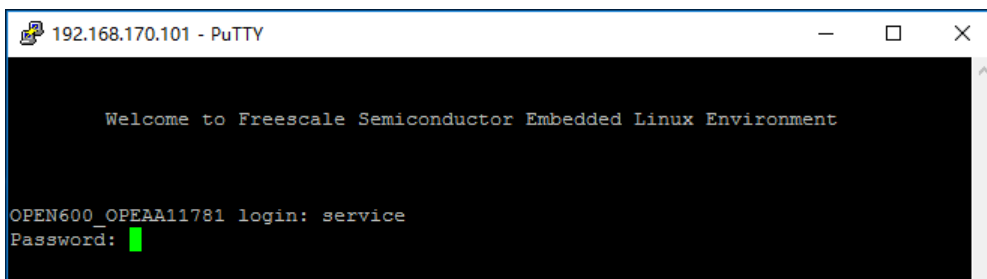


TT190402 – OPEN - Controller Backup and Restore

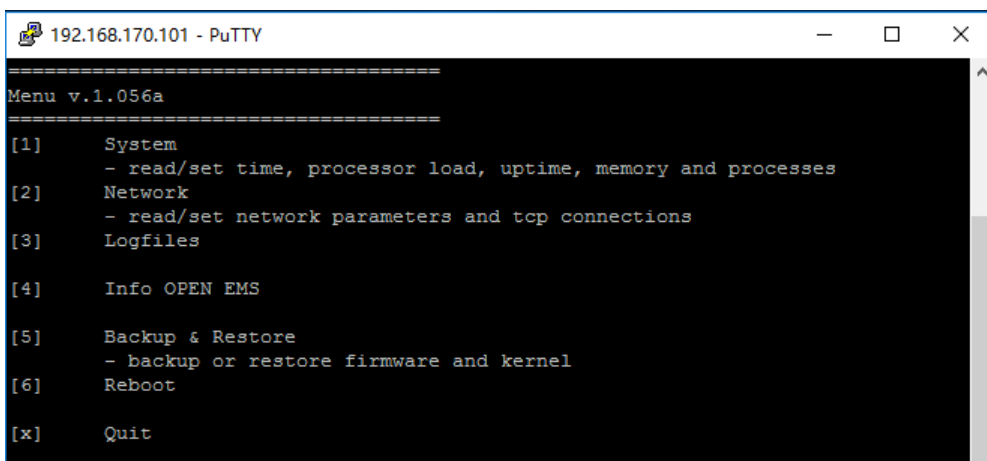
1. It is suggested to do a full backup of the controller before start using it, so that you can restore the controller back to factory settings if required. If you're performing firmware update, it's also recommended to backup the controller first.
2. Download telnet client (e.g. PuTTY <https://www.putty.org/>)
3. Start PuTTY, type your controller IP, select "Telnet" and click "Open"



4. Type "User Name" and "Password", and press "Enter" to login. Please contact us if you need the password



5. Type "5" to enter "Backup and Restore"



IMPORTANT: Don't try to change any other settings here as it may cause problem to the controller, unless you're instructed to do so

6. Type “1” to backup to the internal SD card. If you’re using OPEN 810 and OPEN 4100, you can also backup to the external USB stick

```
192.168.170.101 - PuTTY
=====
Backup & Restore
=====
[1] Internal backup & restore
[2] Backup & restore to/from USB device
```

7. Type “2” to do a full backup

```
192.168.170.101 - PuTTY
=====
Internal Backup & Restore
=====
[1] List available backups
[2] Full backup
    -WARNING: all previous backups will be deleted!
[3] Incremental backup
[4] Restore
[5] Enable or disable automatic backups
[6] Delete backup
    -The user can choose which backup to delete
```

8. Type “y” to start the backup

```
192.168.170.101 - PuTTY
=====
Internal full backup
=====
are you sure you want to run a full backup?
-WARNING: all current backups will be deleted!
[y] yes
[n] no
```

9. Wait until it finished. It may take up to a few minutes.

```
192.168.170.101 - PuTTY
=====
Internal full backup
=====
are you sure you want to run a full backup?
-WARNING: all current backups will be deleted!
[y] yes
[n] no

[x] Quit
y
#####
```

10. Press any key to continue after finished

```
192.168.170.101 - PuTTY
=====
Internal full backup
=====
are you sure you want to run a full backup?
-WARNING: all current backups will be deleted!
[y] yes
[n] no

[x] Quit
y
#####
success
DONE
press any key to continue
```

11. To restore the backup to the controller, follow steps 3 to 6. Type “4” to restore

```
192.168.170.101 - PuTTY
=====
Internal Backup & Restore
=====
[1] List available backups
[2] Full backup
    -WARNING: all previous backups will be deleted!
[3] Incremental backup
[4] Restore
[5] Enable or disable automatic backups
[6] Delete backup
    -The user can choose which backup to delete
```

12. You can now see the details of the backup on the SD card, note the ID here. In this example, the ID is “0000”

```
192.168.170.101 - PuTTY
=====
internal restore
=====
standard backups:

TIMESTAMP=2019-04-17T15:57:35+08:00HKT
HW_TYPE=COSMOS 600 OPEN
FIRMWARE=1.056a
PROJECT_NAME=Testing
PROGRAM=DDC101
BACKUP_TYPE=full
FULL_ID=
PATH_TO_FULL=
ID=0000
ROOT_SIZE=80051310
BOOT_SIZE=10122593
Size=69.84 KB

-----
automatic backups:

No auto backup available
-----

[1] specify ID
[b] Back
[x] Quit
```

13. Type “1” to specify ID. Type the ID and press “Enter” to continue

```
[1] specify ID
[b] Back
[x] Quit
1
choose backup ID to be restored.
restore from ID:0000
```

14. Type “y” to start the restore

```
choose backup ID to be restored.
restore from ID:0000
are you sure you want to run restore from backup with ID 0000?
[y] yes
[n] no
[x] Quit
```

15. After finished, the controller will restart.