
User Manual



SHR

Stable Hybrid Release

SHR Project

Edition: Freerunner

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1. Introduction

tbd This is the minimalistic version of SHR manual.

2. Getting SHR Software

This chapter describes the ways to receive the SHR software (image and boot loader). For installing SHR distribution you need a SHR image and a boot loader.

2.1 Download a pre compiled image and boot loader

Downloading a pre compiled image and boot loader is the fastest and easiest way to dive into SHR. SHR provides different pre compiled images on its web site: [SHR Images](http://build.shr-project.org/shr-unstable/images/om-gta02/) [http://build.shr-project.org/shr-unstable/images/om-gta02/] You can choose between:

- [SHR Full Image](http://build.shr-project.org/shr-unstable/images/om-gta02/full-om-gta02.tar.gz) [http://build.shr-project.org/shr-unstable/images/om-gta02/full-om-gta02.tar.gz]
- [SHR Lite Image](http://build.shr-project.org/shr-unstable/images/om-gta02/lite-om-gta02.tar.gz) [http://build.shr-project.org/shr-unstable/images/om-gta02/lite-om-gta02.tar.gz].

For the first steps downloading the “Lite Image” is sufficient.

Install “QI” as default boot loader is a good choice. The download can be found under: [SHR boot loader](http://build.shr-project.org/shr-unstable/images/om-gta02/qi-s3c2442.udfu) [http://build.shr-project.org/shr-unstable/images/om-gta02/qi-s3c2442.udfu],

2.2 Compile your own image

tbd

3. Installation

This chapter describes the SHR installation.

3.1 Flashing QI boot loader

3.2 Install SHR Image on a SD card

If you want to install SHR on SD card you should read this section.

3.2.1 Prepare SD Card

Before the SD card can be used, it must be partitioned and formatted.

Find the device name of the SD card

For the further installation process the device name of the SD card must be known. A simple test will provide the name.

- Please open a terminal (also known as console) as normal user.
- Type in

```
cat /proc/partitions
```

, this will print the list of currently known devices and partitions. An output may look like this:

```
user@computer:~$ cat /proc/partitions
major minor #blocks name
      8      64 244198584 sde
      8      65  92156841 sde1
      8      66 145998720 sde2
      8      67           1 sde3
      8      69  6040408 sde5
user@computer:~$
```

- Now plug the SD card into the SD card reader and type again:

```
cat /proc/partitions
```

- Now compare the result of previous output with the current output:

```
user@computer:~$ cat /proc/partitions
major minor #blocks name
```

```

8      64  244198584 sde
8      65   92156841 sde1
8      66  145998720 sde2
8      67           1 sde3
8      69   6040408 sde5
8      80   7977472 sdf
8      81   7976021 sdf1
user@computer:~$

```

In this case

```

8      80   7977472 sdf
8      81   7976021 sdf1

```

was the difference between both outputs. So the device name of the SD card is “/dev/sdf”.

3.2.2 Partition the SD Card

In the previous example the SD card contained one partition. Please configure your SD card to have one partition using the whole space.

3.2.3 Create file system on the SD Card

One choice is to use EXT3 file system. It's a journaling file system, so a power loss of your phone should not destroy all your saved data.

WARNING

Please use this file system only on your SD card because it writes very often on SD card and that is not what flash memory is made for. But SD cards are very cheap, and destroying internal flash is very expensive.

To format your SD card execute:

CAUTION

Please check, that you are using the right partition name ! If you use the wrong partition, you may loose important data !

```
user@computer:~$ sudo mkfs.ext3 /dev/sdf1
```

3.2.4 Copy SHR Image onto SD card

Now you are ready to mount your SD card partition (please create the mount point before)and copy your SHR image to your SD card:

```
user@computer:~$ sudo mount -t ext3 /dev/sdf1 /mnt/sdf1
user@computer:~$ sudo tar -C /mnt/sdf1 -xzf /path/to/your/image/lite-om-gta
```

Now the image is ready to boot. Please plug it into your phone and enjoy the boot process.

4. Booting first time

This chapter guides you thru the first configuration process on first boot.

4.1 The first time SHR wizard

After booting a fresh installed SHR image the SHR Wizard will be started automatically and guides you thru the initial configuration process.

4.1.1 Welcome

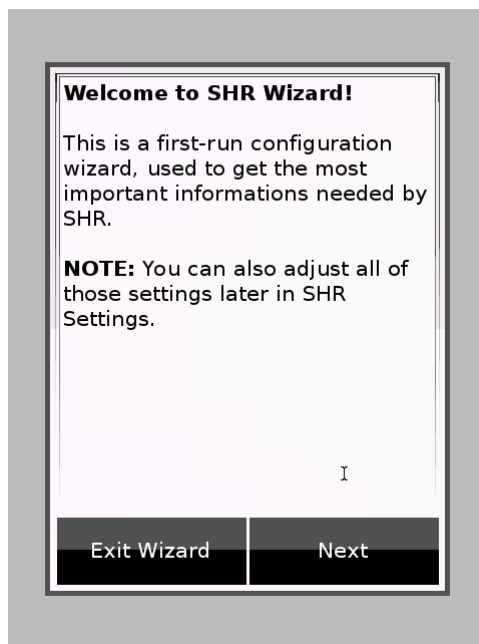
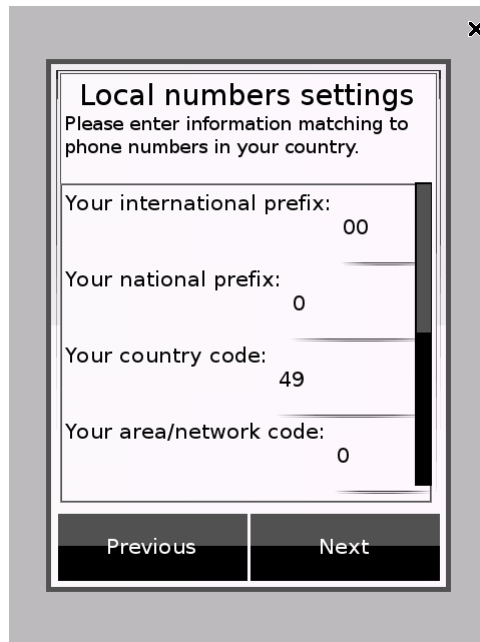


Figure 4.1. SHR wizard - Welcome

This is the initial page of the SHR Wizard. Please press **Next** to start the initial configuration of your mobile device.

4.1.2 Local numbers settings



Local numbers settings
Please enter information matching to phone numbers in your country.

Your international prefix: 00

Your national prefix: 0

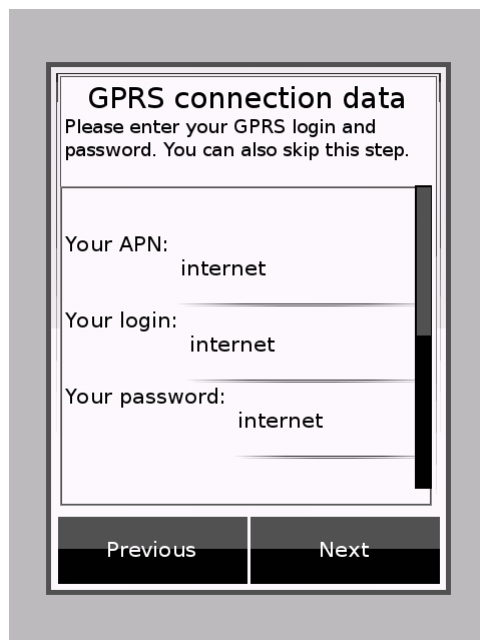
Your country code: 49

Your area/network code: 0

Previous Next

Figure 4.2. SHR wizard - Local numbers settings

4.1.3 GPRS connection data



GPRS connection data
Please enter your GPRS login and password. You can also skip this step.

Your APN: internet

Your login: internet

Your password: internet

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Figure 4.3. SHR wizard - GPRS connection data

4.1.4 Root password



Root password
Please enter password which you want to use when, for instance, logging by SSH.

Enter password:

Re-enter password:

Previous Next

Figure 4.4. SHR wizard - Root password

5. Configuration

This chapter describes the SHR basic configuration.

6. License

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