

PublicImage - image which is signed with standard "public key" - STB_PUBLIC.
Updating variants: Starting from 0.2.14-r8 **updates via HTTP or USB from portal on manufacturer firmware version only**, («manufacturer firmware» - firmware versions that were assembled directly by the manufacturer and provided for automatic and manual updates by manufacturer's URL).
From Bootloader menu can be updated on PublicImage or CustomImage (transitional version) via Multicast/USB with bootstrap/TFTP

PublicImage - preparing, making for MAG-250

- **1.** Public key is used, which is in operator utilities. Perform next:

```
gpg --import stb_secbin.key
export MAG200_OP_KEY=STB_PUBLIC
```

- **2.** Sign the kernel with public key. Perform next:

```
./kernel_sign_250.sh
```

- **3.** Make imageupdate:

```
./img_make.sh 218 "test" ../rootfs MAG250 ./img_make.profile.mag250
```

- **4.** Update STB

Note!!! Public Firmware versions can be installed on STB only from BIOS. We recommend to use **multicast** update method for updating STB on PublicImage.

Example of making PublicImage for MAG-254

```
root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254# cat
/etc/issue
Ubuntu 14.04.1 LTS \n \l

root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254#
uname -a
Linux localhost 3.13.0-39-generic #66-Ubuntu SMP Tue Oct 28 13:31:23 UTC
2014 i686 i686 i686 GNU/Linux

root@localhost:~/218-r7-test# wget
http://wiki.iptv.infomir.com.ua/pub/operators_utils_new_mag200_mag250_mag254
.tar.gz
Saving to: 'operators_utils_new_mag200_mag250_mag254.tar.gz'

root@localhost:~/218-r7-test# wget
http://soft.infomir.com.ua/mag254/release/0.2.18-r7/vmlinux.bin.mag254
Saving to: 'vmlinux.bin.mag254'
```

```
root@localhost:~/218-r7-test# wget
http://soft.infomir.com.ua/mag254/release/0.2.18-r7/rootfs-0.2.18r7.tar.gz
Saving to: 'rootfs-0.2.18r7.tar.gz'

root@localhost:~/218-r7-test# tar -zxf rootfs-0.2.18r7.tar.gz

root@localhost:~/218-r7-test# tar -zxf
operators_utils_new_mag200_mag250_mag254.tar.gz

root@localhost:~/218-r7-test# mv vmlinux.bin.mag254
operators_utils_new_mag200_mag250_mag254/images/

root@localhost:~/218-r7-test# cd operators_utils_new_mag200_mag250_mag254/

root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254# cat
img_make.profile.mag254
# Kernel's file system
export KERNEL_PATH=./uImzlib_mag254.img
# File name for enviroment variable
export ENV_VARIABLE_PATH=./images/env_mag254.txt
# Userfs
export USERFS_VERSION=1
export USERFS_PATH=./images/userfs.img
# File name for SecondBoot
export SECONDBOOT_PATH=./images/SbootIm_mag254
# File name for Logotype
export LOGOTYPE_PATH=./images/logo.bmp.gz
export MAG200_OP_KEY=STB_PUBLIC

root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254# gpg
--import stb_secbin.key
gpg: key 6BEED1ED: secret key imported
gpg: key 6BEED1ED: public key "STB_PUBLIC (Public key!!)" imported
gpg: Total number processed: 1
gpg:          imported: 1 (RSA: 1)
gpg:          secret keys read: 1
gpg:          secret keys imported: 1

root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254#
export MAG200_OP_KEY=STB_PUBLIC

root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254#
./kernel_sign_254.sh
File vmlinux.sign create - successfully!!!
Image Name:   MAG254 SH4 Kernel Linux 2.6.17
Created:      Fri Nov  7 10:39:35 2014
Image Type:   SuperH Linux Kernel Image (gzip compressed)
Data Size:    3244259 Bytes = 3168.22 kB = 3.09 MB
Load Address: 0x80800000
Entry Point:  0x80801000
File uImzlib_mag254.img create - successfully!!!
```

```
root@localhost:~/218-r7-test/operators_utils_new_mag200_mag250_mag254#  
./img_make.sh 218 "test" ../rootfs-0.2.18r7 MAG254 ./img_make.profile.mag254  
Make rootfs image ../rootfs-0.2.18r7  
Append digital signature MAG200_OP_KEY=STB_PUBLIC  
File ./sumsubfsnone.img.sign create - successfully!!!  
gpg (GnuPG) 1.4.16  
Copyright (C) 2013 Free Software Foundation, Inc.  
License GPLv3+: GNU GPL version 3 or later  
<http://gnu.org/licenses/gpl.html>  
This is free software: you are free to change and redistribute it.  
There is NO WARRANTY, to the extent permitted by law.  
Home: ~/.gnupg  
Supported algorithms:  
Pubkey: RSA, RSA-E, RSA-S, ELG-E, DSA  
Cypher: IDEA, 3DES, CAST5, BLOWFISH, AES, AES192, AES256, TWOFISH,  
        CAMELLIA128, CAMELLIA192, CAMELLIA256  
Hash: MD5, SHA1, RIPEMD160, SHA256, SHA384, SHA512, SHA224  
Compression: Uncompressed, ZIP, ZLIB, BZIP2  
File result:./imageupdate  
Create section "Kernel size:" and append file ./uImzlib_mag254.img.  
Create section "Image size:" and append file ./sumsubfsnone.img.sign.  
Create section "Env size:" and append file ./images/env_mag254.txt.  
Create section "Userfs size:" and append file ./images/userfs.img.  
Create section "Logotype size:" and append file ./images/logo.bmp.gz.  
File ./imageupdate create - successfully!!!
```

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