> **Attention!** Beginning from firmware version 0.2.18 all customizations of embedded portal is necessary to make using source codes of portal. After all customizations complete it is necessary to make compiling and minimization of source code of portal. After compiling and minization all files of portal could be placed in home directory for further image making. Source code of portal (*portal-dev-*.tgz* is in directory with current release http://soft.infomir.com.ua)

Checking of environment variables

For version 0.2.18-r3

environment.check.zip

- **environment.ini** - place to /home/web/ directory
- **environment.check.sh** - place to rootfs directory near the /test.sh
- **test.sh** - after configuration of #language - language index (int), ti is necessary to add in empty row below: source /environment.check.sh
- **/home/web/public/portal/services.js** - remove comments from the next row: *checkEnvVars();* uncomment this function to start environment variables check mechanism

Example of test.sh file (there is only part of file):

```
#!/bin/sh

#ipaddr_conf     - ...................... IP
#netmask         - .............. ..........
#gatewayip       - GateWay (........)
#dnsip           - DNS
#ntpurl          - NTP url
#mcip_conf       - bootstrap IP
#mcport_conf     - bootstrap Port
#mcip_img_conf   - image IP
#mcip_port_conf  - image Port
#portal1      - url .............. 1
#portal2      - url .............. 2
#volume       - ................. (int)
#language     - ........... .......... (int)

source /environment.check.sh

#    . /etc/stb_params
PORTAL_1=`fw_printenv portal1 2>/dev/null`
PORTAL_1=${PORTAL_1#portal1=}
```

```
PORTAL_2=`fw_printenv portal2 2>/dev/null`
PORTAL_2=${PORTAL_2#portal2=}

PORTAL_TMP=`cat /ram/dhcp_ready | grep "portal_dhcp="`
PORTAL_TMP=${PORTAL_TMP%%#*}
PORTAL_TMP=${PORTAL_TMP#portal_dhcp=}
```

Example of services.js file (there is only part of file):

```javascript
/**
 * Main page load handler
 */
window.onload = function () {
    echo('******** STB STARTED ********');

    checkEnvVars();    // uncomment this function to start environment
variables check mechanism

    try {
        environment = loadEnvironmentVars(null);
        //stbWindowMgr.setVirtualKeyboardImplUrl(PATH_SYSTEM +
'keyboard/index.html');

        gSTB.ShowVirtualKeyboard(true);
        // load localization
```

For version 0.2.18-r4 and higher

In directory with source portal version /system/variables/ there is file readme.md with description of work and settings configuration of environment variables checking. Archive with source portal version portal-dev-*.tgz is located in directory with release version http://soft.infomir.com.ua/<MODEL>/release/

To enable checking of environment variable:

- Copy all file from directory /system/variables/on/ to /system/variables/;
- Place necessary variables in file /system/variables/vars.ini;

Example of vars.ini file:

```
; env data file
; Please read instructions in the readme.md file
language=en
timezone_conf=Europe/Kiev
update_url=http://10.1.1.1/stb/imageupdate
autoupdateURL=http://10.1.1.1/stb/update_list.txt
autoupdate_cond=0
```

```
portal1=http://10.1.1.1/stalker_portal/c/
portal2=
```

- In `rootfs` directory there is `test.sh`. In this file it is necessary remove comment from string `# . /home/web/system/variables/check.sh`.

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