VNC Viewer

User Manual

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Contents

1 VNC Viewer 1

Installation from USB 1

Installation from Remote 5

Parameters 6

Options 6

Command Line 8

Enter System Settings via tap-tap procedure . 9

1 VNC Viewer

VNC Viewer is a VNC client for HMI devices based on Linux platform.

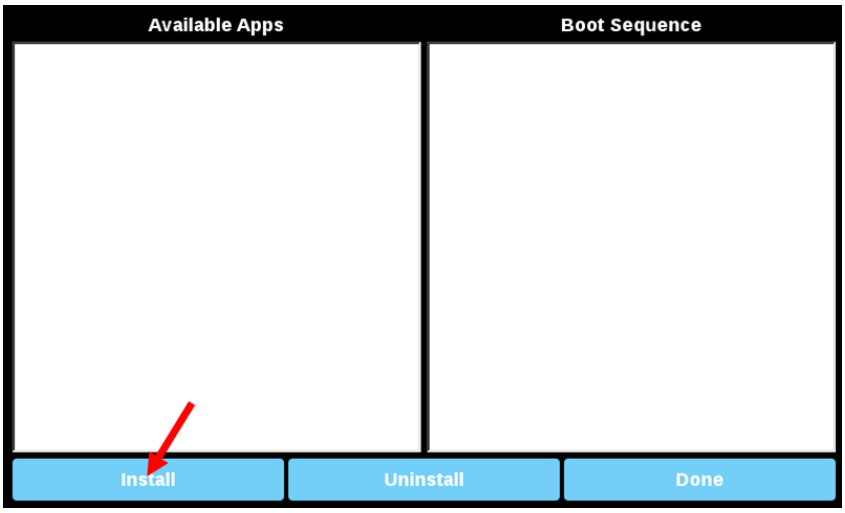
The application can be installed as a standalone application to activate when the HMI is switched on or as a system application enabled from JMobile HMI Runtime using the LaunchApplication macro.

Installation from USB

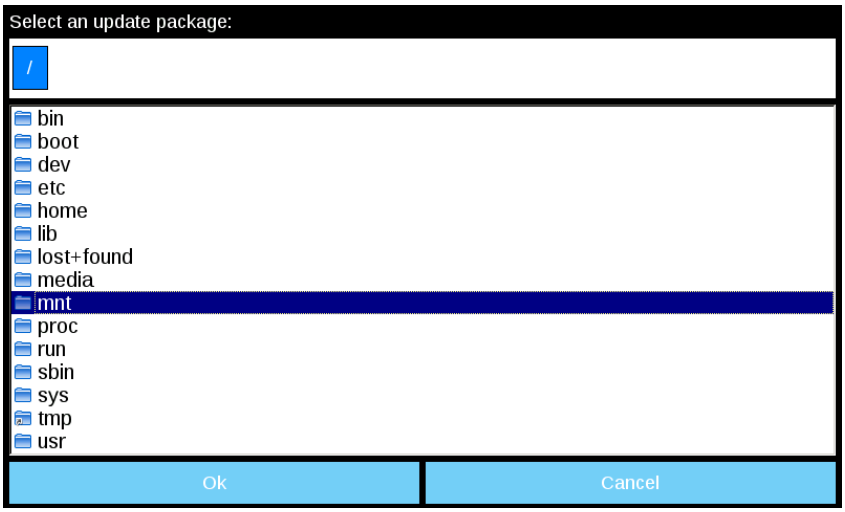
HMI devices are delivered from factory without Runtime, at first power up HMI shows the “Runtime Loader” screen (if you already have an installed application see how "Enter System Settings via tap-tap procedure " on page 9 to activate the below page).

To install the VNC Viewer follow this procedure:

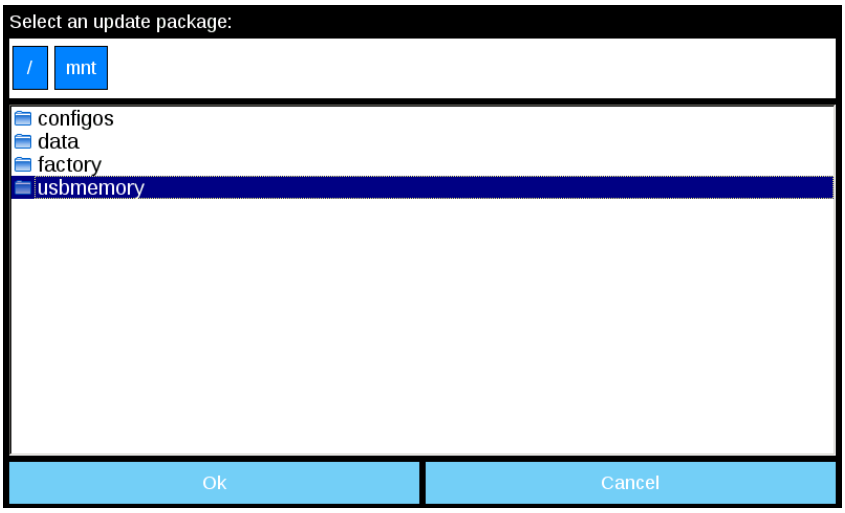
1. Copy the application file (e.g. VNCViewer-1.00.zip) into an empty USB memory stick
2. On HMI select [Startup sequence], then [Install]



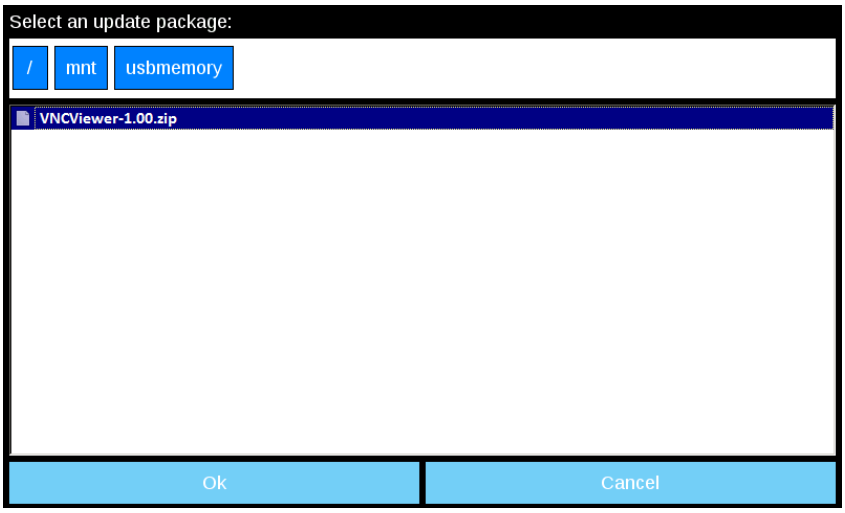
3. Double click on “mnt” to access this folder



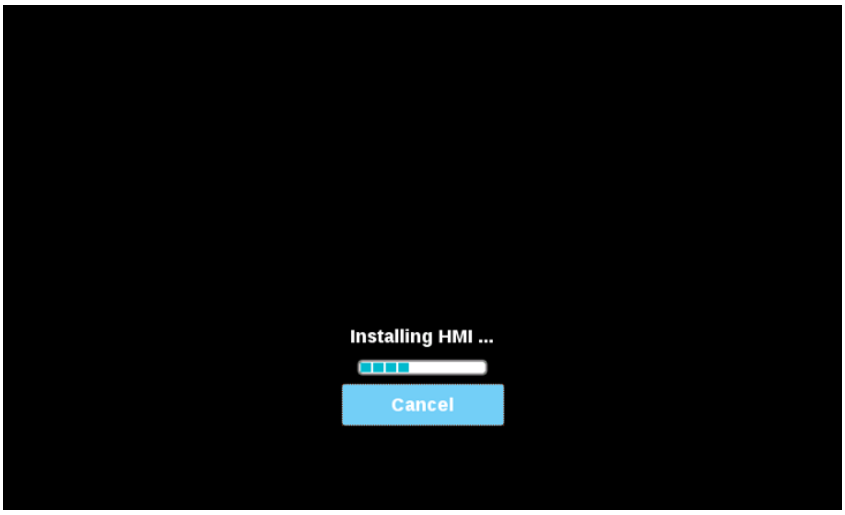
4. Then on “usbmemory”



5. Select the VNC Viewer package (e.g VNCViewer-1.00.zip)



6. The runtime installation begin



Note: File systems supported are FAT16/32 and Linux Ext2, Ext3 and Ext4.

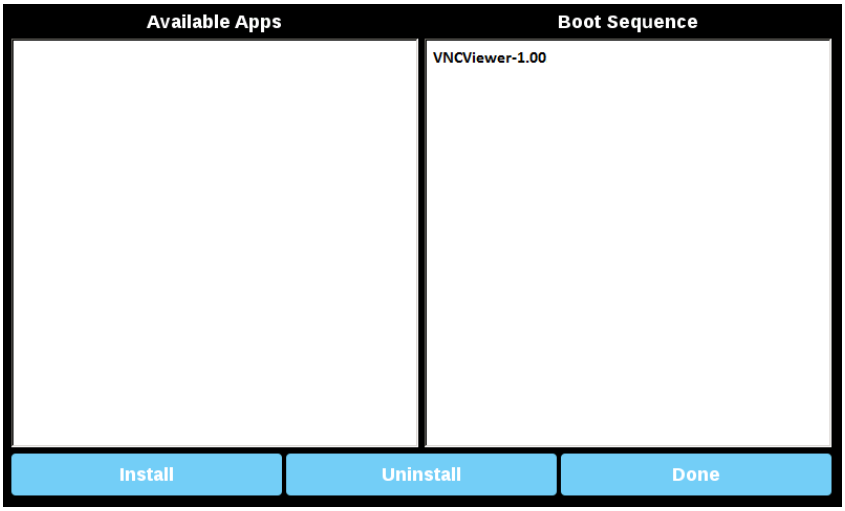
At the end of the installation procedure, HMI device will restart to VNC Viewer application will start in full screen.

VNC Viewer managed from JMobile HMI Runtime

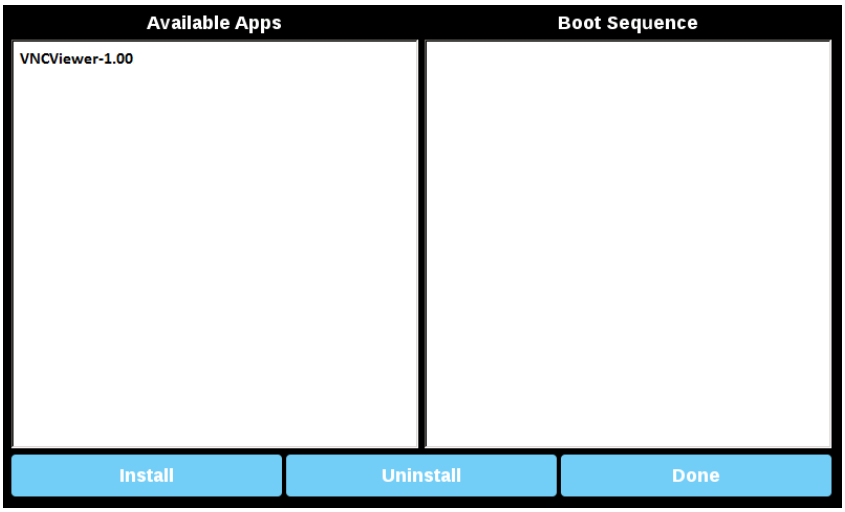
If the main application of the HMI is not the VNC Viewer but the JMobile HMI Runtime that will activate the VNC Viewer only when necessary, we have to configure the HMI device to not run the VNC Viewer at the start up follow this procedure:

1. Restart the panel and "Enter System Settings via tap-tap procedure " on page 9

2. On HMI select [Startup sequence]



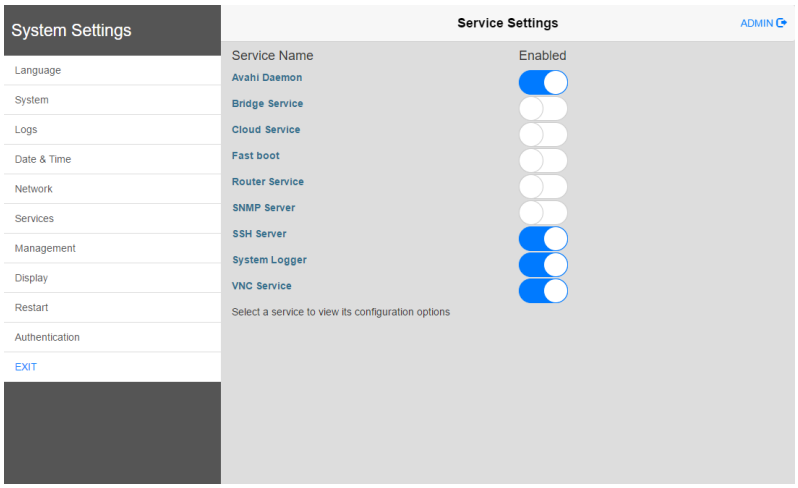
3. Touch the VNC package on the right panel and drag it into the left panel and confirm with [Done] button.



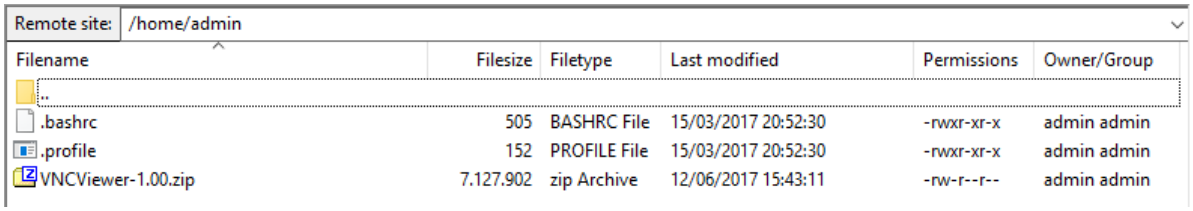
Now VNC Viewer will not start and could be activate from a JMobile HMI Runtime macro.

Installation from Remote

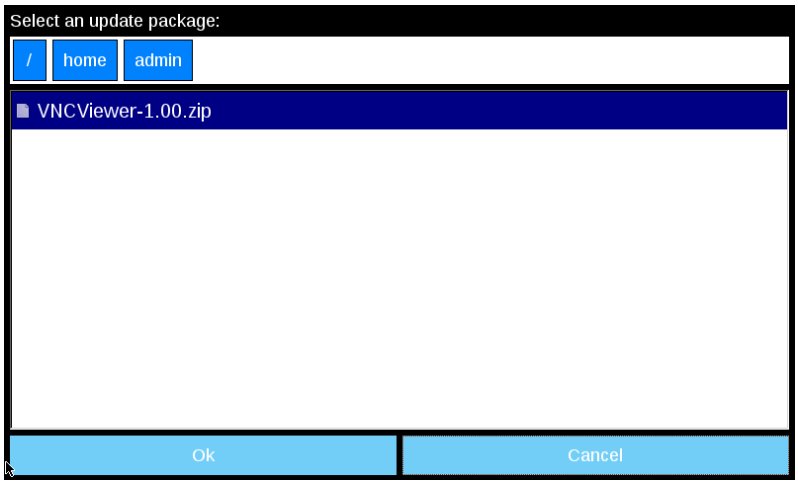
1. Using the System Setting interface of the HMI device from a Web browser be sure the “SSH Server” and the “VNC Service” services are enable.



2. If there are some applications already installed inside the HMI device, use the System Setting interface to remove all (Management->Data->Clear)
3. Use an SFTP application (e.g. FileZilla) to log into HMI device and upload the package of the VNC Viewer application somewhere (e.g. inside /home/admin folder)



4. Get access at the display of the remote HMI device using a VNC client. Then click on [Start Sequence] button and install the package previous upload through the SFTP client.



5. Use the SFTP connection to log into HMI device and remove the package previously uploaded.

Parameters

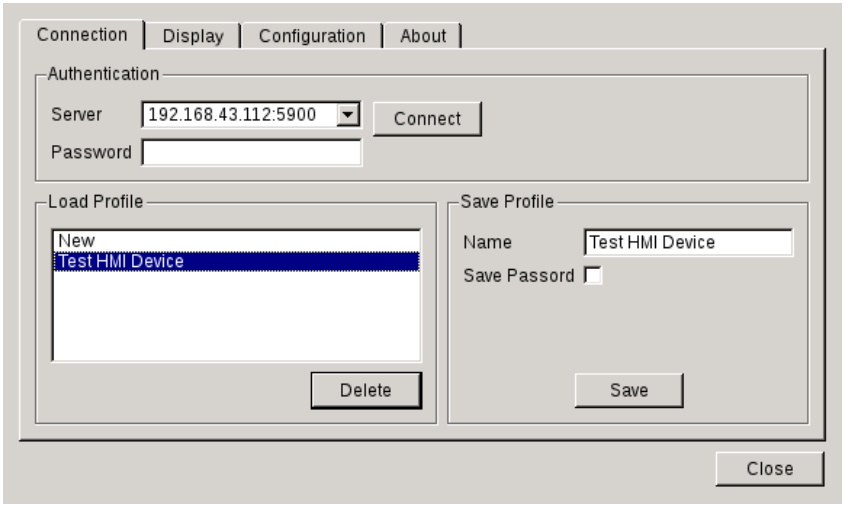
Touch the “Menu” button on right top of the HMI Display to open/close the VNC toolbar.

Toolbar commands:

- Toggle pan
  Disables all VNC inputs and removes all scroll bars. In this mode it’s possible to pan the screen
- Toggle Keyboard
  Pop up the Virtual Keyboard
- Options
  Opens the VNC settings panel
- Exit
  Closes the application (Will be only visible with “--enbleClose” command line flag)

Options

Connection



Enter the IP address of the remote VNC server or select a profile to load an IP address previously defined and press the "Connect" button

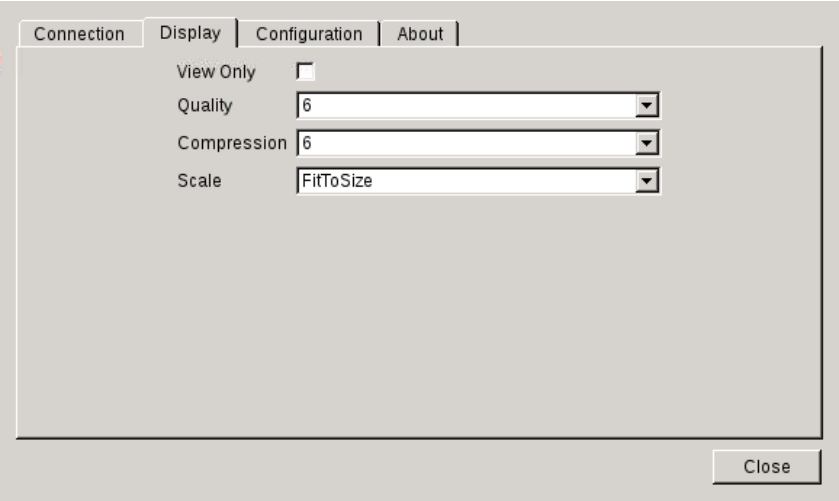
To create a new profile:

- Select the "New" profile
- Enter the IP Address of the remote VNC Server
- Enter the Name of the new profile and press "Save" button

To delete an old profile:

- Select the profile to delete
- Press "Delete" button

Display

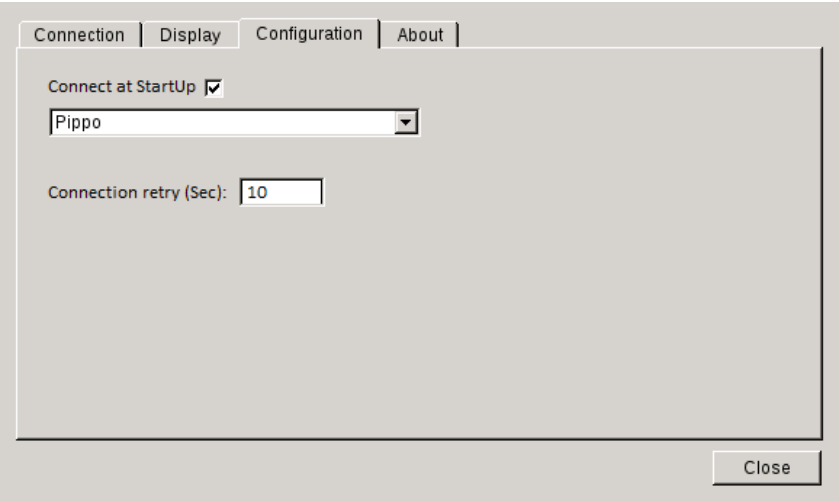


View Only
Disables all VNC inputs.

Quality and Compression
These parameters are server-side configurations. Client can ask a different configuration and server will decide whether to change (use of these options it's not guaranteed it will have effect)

Scale
This option give the possibility to scale the remote image to adapt at the local screen resolution

Configuration

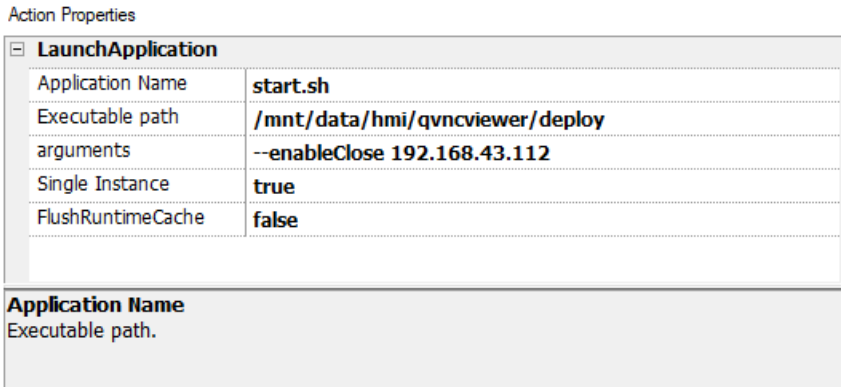


Connection at StartUp
If enabled, at startup, the VNC Viewer tries to connect to the selected remote VNC server

Connection retry
If the connection will lost, the VNC Viewer attempts to reconnect after the defined delay (in seconds). Write 0 to disable the reconnection retries.

Command Line

VNC Viewer can be activate from the LaunchApplication macro of JMobile HMI Runtime

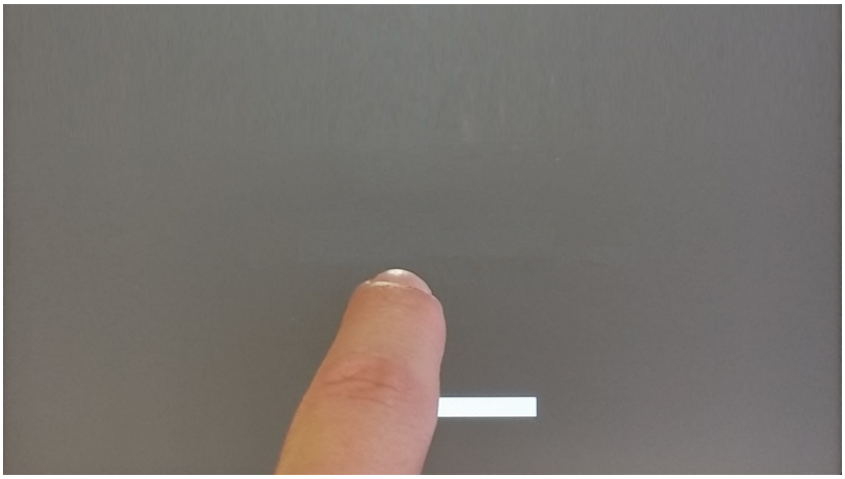


Macro parameters

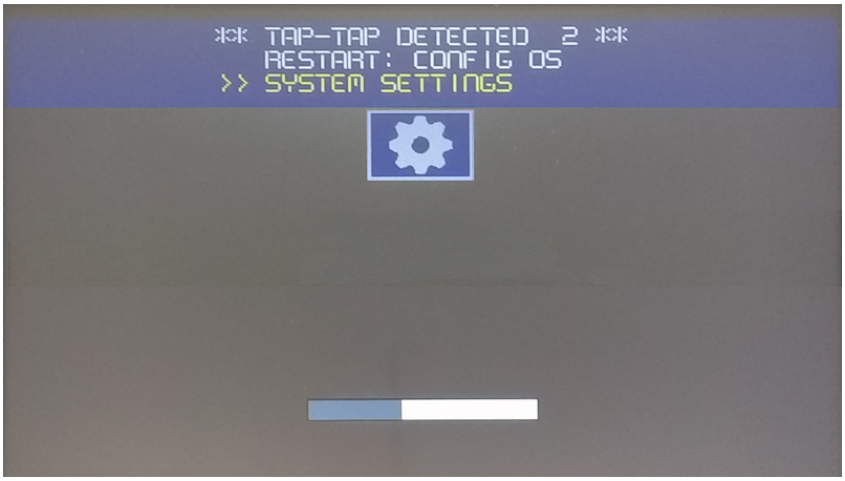
Parameter	Description
Application Name	Must be "start.sh"
Executable path	Must be: "/mnt/data/hmi/qvncviewer/deploy"
Arguments	Optional parameters can used to overwrite the parameters' values defined inside the profile *start.sh [options] [ip:port]* • -profile <profile> Activate the VNC Viewer using the parameters stored inside the selected profile • -password <password> Password required from the VNC server • -enableClose Show the VNC exit option into the VNC Viewer toolbar • -hide-toolbar Do not show the VNC Viewer toolbar • IP[:port] IP address of the remote VNC server with, optional, port number.
Single Instance	Do not take care. Multiple instances are not supported.
FlushRuntimeCache	Flush all run-times cache to free as more ram as possible before running the application.

Enter System Settings via tap-tap procedure

Tap-tap consists in a sequence of several touch activations by simple means of the finger tapping the touch screen performed during the power-up phase and started immediately after the HMI is powered on.



When “tap-tap detected” message appears on the top of the screen. Wait for 5 seconds (without touching the screen) to enter System Settings sub menu



Wait for 5 more seconds (without touching the screen) to enter Default Mode

"System Setting" and the "Startup sequence" buttons will be available

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