

deziqn.device Release notes

mkn

August 19, 2024

bug fixed: changing user password not possible

Release 94a - 19.08.2024

version

- core version: 2.39.1.1934
- app.deRadio: 1.27.0

web interface

- bug fixed: changing user password not possible

system

- during aux firmware update no display will be processed

app.deRadio

- trigger host comm timeout with command `PARAM_SET_LIGHT_ON_TIME_AND_KEEP_ALIVE`
- reset si1143 in case of invalid values (1-65280)

Release 94 - 20.03.2024

version

- core version: 2.39.0.1933
- app.deRadio: 1.26.3

OpenVPN

- now supported: config files including all parameters (since kernel 5.2.7)

system

- https forwarding for 32 inch master slave operation
- unnecessary sys logs reduced

mobile communication

- usb interface enumeration for mobile device ME909s-120 will be forced.

dcdi

- bug fixed: resetting dcdi config for images was not possible (no empty strings)

auxiliary controller

- bug fixed: setting time was possible, even if getDateTIme from AVR failed

app.deRadio

- rtc voltage ok will be read from rtc

Release 93e - 27.09.2023

version

- core version: 2.38.5.1932
- app.deRadio: 1.26.2

web interface

- autocomplete off for password inputs in form for password renewal
- allow old password to be empty for changing to new one

Release 93d - 22.09.2023

version

- core version: 2.38.4.1931
- app.deRadio: 1.26.2

log data

- cyclic of log entries extended by luminosity and operating times

mobile communication

- bug fixed: mobile through usb was no longer possible (since release 93c)

app.deRadio

- transmission of luminosity to beaglebone

Release 93c - 08.09.2023

version

- core version: 2.38.3.1930
- app.deRadio: 1.26.1

web interface

- bug fixed: login without password was possible

app.deRadio

- luminosity measurement for proxy sensors

Release 93b - 30.08.2023

version

- core version: 2.38.2.1929
- app.deRadio: 1.26.1

system

- files that contain “out_“ will not be removed after image update (former used as temporary times)

low power mode

- bug fixed: high power sometimes has been left too early.

text to speech

- bug fixed: tool ong tts texts lead to buffer overrun and allpocation crash

Release 93a - 24.07.2023

version

- core version: 2.38.1.1928
- app.deRadio: 1.26.1

system

- watchdog script sets system date time to value 12:00 on 01.01.2000 on system startup

auxiliary controller

- if time not set to valid, repeat set date time request every minute
- repeat aux controller commands at least twice on timeout

app.deRadio

- the uart signals will be tied to ground in sleep mode if a base revision greater/equal 3 is detected

Release 93 - 05.07.2023

version

- core version: 2.38.0.1927
- app.deRadio: 1.26.0

general

- issue 230512 - fileInfo.xml gets corrupted when powering of immediately - now separate file for meta info (less often changed) and tts
- after uploading new firmware the high power mode will be activated

web interface

- the communication to the web browser now only work through https (port 443)
- the communication from browser to the web server will be stopped after 5 minutes (including option to reset timeout)
- new added user get the password “!password“ and have to change this after logging in.
- user that use a password not matching the rules will be forced to change their password after logging in
- a users password has be at least 12 characters long, consists of small and capital letters and special characters

imaging

- if no font will be found during SVG rendering the default font ARIAL will be used

dcdi

- functionality corresponding to dcdi specification 1.21
- swelling illumination can be activated and deactivated through dcdi
- apn configuration can be done through dcdi
- sending keep alive can be deactivated
- the state telegram contains (if possible and configured) values from the acceleration sensor
- if keep alive is deactivated: after a connection has been established a state telegram will be send to the server

app.deRadio

- support for acceleration sensor on deZign.cape added

Release 92c - 21.04.2023

version

- core version: 2.37.3.1925
- app.deRadio: 1.25.0

general

- after an AVR firmware and filesystem sync the system waits 5 seconds before the reboot starts

Release 92b - 23.03.2023

version

- core version: 2.37.2.1924
- app.deRadio: 1.25.0

general

- after setting the timezone information sync will be done and one second waiting

Release 92a - 14.03.2023

version

- core version: 2.37.1.1923
- app.deRadio: 1.25.0

text to speech

- the audio volume of deZign.cape.rev00 has is now as high as in deZign.base.rev04

general

- show low power fallback in case of firmware update

app.deRadio

- if “12V (DC, Akku)“ is selected as kind of power supply the signal from power backup module will be ignored

Release 92 - 01.03.2023

version

- core version: 2.37.0.1922
- app.deRadio: 1.24.3
- lib.image: 1.5.1.119

configuration

- the log collection now contains the file device.history
- when saving config the reason for saving will be logged

mobile communication

- off time of mobile device increased to 15 seconds

system

- bug fixed: timer thread sometimes started twice
- after the ordinary sync call following on file save operations the work directory and the work filesystem will also be synced
- during firmware update the no connection fallback image of the dcdi interface will be shown

dcdi

- if no destination is specified there won't be any connection attempt anymore (until a new destination is specified)

lib.image

- bug fixed: when loading a damaged png file a memory leak could occur
- bug fixed: when loading a damaged png file a memory leak could occur

Release 91c - 21.12.2022

version

- core version: 2.36.3.1921
- app.deRadio: 1.24.3

system

- bug fixed: application exited in case of new firmware too fast, so showing fallback image may take not place
- fallback level will also be activated if device receives new firmware through dcdi

Release 91b - 21.12.2022

version

- core version: 2.36.2.1920
- app.deRadio: 1.24.3

start up

- bug fixed: saving of power supply type went wrong.

system

- bug fixed: file sync with file system improved
- wait up to 30 seconds on application start until required files are available
- maximum default image fallback time set to two hours

app.deRadio

- bug fixed: storing december dates causes storage issue
- adaption for deZign.cape.rev0

Release 91a - 14.12.2022

version

- core version: 2.36.1.1919
- app.deRadio: 1.24.2

system

- bug fixed: unfavorable selected heating timeouts withing beaglebone firmware may lead to a not working heating.
- In case of scheduled application exit that won't pass through the destructors (e.g. at reboot), write action to the file system will be done/finished and after thats prohibited.

Release 91 - 08.11.2022

version

- core version: 2.36.0.1918
- app.deRadio: 1.24.2

general

- show low power fallback in case of firmware update
- set correct asound.conf after firmware update
- the device is now able to download images on it self from internet/network

auxiliary controller

- in uart operation mode of the modem dcdi wil be paused in case of avr firmware update

web interface

- retrieving fbc possible for all users

app.deRadio

- deZign.cape : rev detection

dcdi

- changing configuration of power supply type is now possible.
- functionality corresponding to dcdi specification 1.20

Release 90f - 02.08.2022

version

- core version: 2.35.6.1917
- app.deRadio: 1.23.0

system

- bug fixed: time has been validated just after application start. Now time critical tasks (linke sleeping) will wait until valid time has been retrieved from AVR.

Release 90e - 30.06.2022

version

- core version: 2.35.5.1916
- app.deRadio: 1.23.0

system

- calculation of local time reworked

Release 90d - 03.06.2022

version

- core version: 2.35.4.1915
- app.deRadio: 1.23.0
- lib.epdc: 3.9.2.196

lib.epdc

- bug fixed: timeout for image update has been reseted in case of long lasting sequences

Release 90c - 01.06.2022

version

- core version: 2.35.3.1914
- app.deRadio: 1.23.0
- lib.epdc: 3.9.1.195

text to speech

- output hardware can now be selected correctly

lib.epdc

- bug fixed: timeout for image update has been interpreted as seconds (milliseconds were specified)

Release 90b - 05.05.2022

version

- core version: 2.35.2.1913
- app.deRadio: 1.23.0

log data

- bug fixed (since release 90): log file size has no longer been limited

epd control

- in case of three consecutively occurred crc mismatches on image updates the power of the epd controllers will be deactivated immediatly and reactivated on the next image update

Release 90a - 19.04.2022

version

- core version: 2.35.1.1912
- app.deRadio: 1.23.0

illumination

- when activating vhcmm the illumination will just be active for activity duration of the vhcmm

Release 90 - 11.04.2022

version

- core version: 2.35.0.1911
- app.deRadio: 1.23.0

dcdi

- crc error on image transfer to epdc will be send with a separate imageUpdate notification
- functionality corresponding to dcdi specification 1.19

web interface

- configuration possibilities for users and admins have been reworked
- less blocking behaviour for web interface when image update is in progress

text to speech

- bug fixed: first audio output when using pwm audio driver failed every time

image buffer

- clear framebuffer content for all rendered SVGs in case of change on System images

mobile communication

- in uart mode the rssi value will be set to an invalid value of 99 3 minutes after the mobile device started

start up

- there is another category for power supply (12V DC, Netzteil)

power fail mode

- the alarm signal line of the power backup modul will just be considered when the power supply category is configured as '12V DC, Netzteil' or '230V AC'
- the system voltage will just be considered when the power supply category is configured as '12V DC, Akku'
- the activation voltage is just be configurable within the web interdice when the power supply category is configured as '12V DC, Akku'

illumination

- from now it is possible to activate illumination with an arbitrary key stroke

Release 89d - 22.02.2022

version

- core version: 2.34.4.1910
- app.deRadio: 1.22.1

mobile communication

- ping check resets the mobile device if failed often enough again.
- the allowed values for errTrials of ping check are now between 1 and 10

text to speech

- nuance tts outputs will be pre synthesized in case of usage of pwm hardware
- when using pwm audio hardware the level of output will be adapted

dcdi

- responses to the requests now also optional contain the device serial and name.
- functionality corresponding to dcdi specification 1.18

calamity mode

- when leaving calamity mode buffered image content will be erased.

Release 89c - 11.02.2022

version

- core version: 2.34.3.1909
- app.deRadio: 1.22.1

auxiliary controller

- reboot after avr successful avr update

mobile communication

- configurable: ping just, if no bidirectional traffic

text to speech

- the script for synthesizing aristech audio files now also frees the mutex file for converting in case of an error and after 2 minutes of conversion

visually handicapped mode

- the tts output run synchronous relativ to the vhm images again

dcdi

- when changing tts strings no change notification will be send
- the state telegram can be requested
- the request configureDevice has been extended (mobile/pingCheck/pauseIfTraffic)
- functionality corresponding to dcdi specification 1.17

Release 89b - 18.01.2022

version

- core version: 2.34.2.1908
- app.deRadio: 1.22.1

mobile communication

- the mobile connection can be restarted with the command 'cmd.dezign.mobile.restart'

image update

- order of postprocessing changed (successful img update will be notified earlier than before)

Release 89a - 07.01.2022

version

- core version: 2.34.1.1907
- app.deRadio: 1.22.1
- lib.image: 1.5.0.118
- lib.epdc: 3.9.0.194

low power mode

- for creating log collection cpu frequency will be rised
- the audio amplifier will be avtivated at the beginning of an display update incase a tts outputs should follow

power fail mode

- the under voltage signal of the power backup module will just be considered for power fail mode in 230V operation mode

app.deRadio

- more often reading of the under voltage signal of the power backup module

Release 89 - 21.12.2021

version

- core version: 2.34.0.1906
- app.deRadio: 1.22.0
- lib.image: 1.5.0.118
- lib.epdc: 3.9.0.194

sleep mode

- bug fixed: device was sleeping to long under certain configuration

general

- segmentation fault while exiting application fixed
- admin user will not be added automatically if no admin exists
- default daily update hour is now hour 13
- the cpu clock can be reduced and will just be risen for certain tasks (image rendering, tts output, image update)

statistics

- traffic measurement over eth0 and ppp0 very exact now

web interface

- power metering available within web interface in tab system

text to speech

- when using pwm hardware the audio output will be delayed 1000 ms

dcdi

- no more image change notification when adapting tts string
- keep alive tries to synchronize on other traffic if possible

mobile communication

- uart mode for mobile device added (required for lowPower mode, no more rssi measurement during transparent data mode)

app.deRadio

- power metering is now adjustable

lib.image

- dithering algorithms optimized and extended

lib.epdc

- support for wide temperature waveform added.

Release 88b - 23.11.2021

version

- core version: 2.33.2.1905
- app.deRadio: 1.21.0

dcdi

- the request getFileList now also contains checksums for fonts
- functionality corresponding to dcdi specification 1.16

text to speech

- the script for playing pre synthesized aristech audio files now also free the mutex file for playing in case of an error and after 2 minutes of playing

Release 88a - 15.08.2021

version

- core version: 2.33.1.1904
- app.deRadio: 1.21.0
- lib.epdc: 3.8.0.193

mobile communication

- if an error occurs on entering the sim pin the device will just deactivate mobile communication if entering the PUK is required, otherwise it will try to enter the pin again.
- within web interface there is now a possibility to check if an ip address may be pinged successfully

dcdi

- added request getDeviceInfo (until now only contains information related to storage devices)
- functionality corresponding to dcdi specification 1.15

synchronization

- synchronizing does not block the masters display update any longer, it will be processed in parallel within another thread
- reconnect issues of the master will be reduced by killing zombie sockets which sometimes prevent binding to the sync port

sleep mode

- bug fixed: device was sleeping to long

lib.epdc

- after image update the epd controller switches to standby mode

Release 88 - 11.08.2021

version

- core version: 2.33.0.1903
- app.deRadio: 1.21.0
- lib.epdc: 3.7.3.192

power fail mode

- bug fixed: when starting device with low voltage power fail mode has not been activated

calamity mode

- when entering calamity mode the buffered framebuffer content will be erased

sleep mode

- compensated sleep time that was too long
- additional to multiples of 5 minutes there is now a selection for 59 minutes (to achieve nearly seamless day transitions)

dcdi

- the notification 'change' has been added and will be send if the device or the image configuration changed.
- request 'configureDevice' has been extended by the options 'sendNotificationOnRtImgChange' and 'sendNotificationOnConfigChanged'.
- no more keep alive deactivation when first response times out.
- the state telegram now contains a value for mobile rssi.

lib.epdc

- data transmission to epd controller through spi is running faster now
- image comparisson for partial updates may be omitted on key stroke triggered display update

app.deRadio

- illumination heartbeat is able to be activated separat from debug mode (for calamity mode)

text to speech

- new num.sqr for aritech tts included

Release 87a - 29.04.2021

version

- core version: 2.32.3.1900
- lib.epdc: 3.7.2.191

lib.epdc

- error signaling in case on errors while clearing displays improved

dcdi

- on handling sendImagePart requests now there will be only a tts string assignment to image with refName, no longer also to image with overlay name.

Release 87 - 26.04.2021

version

- core version: 2.32.2.1899
- app.deRadio: 1.20.0
- lib.epdc: 3.7.1.190
- lib.dab: 1.2.0.147

key input

- support for 5th key added

dcdi

- bug fixed: audio volume in case of installed rev02 and smaller could be set to 100% through dcdi. Now really just to 60%.

operating system

- in master slave mode the master routes telegramms incoming from slave to the mobile phone interface and back

lib.epdc

- support for wait icon added
- on image comparison no histogram will be created (a little bit faster)
- activation of native partial updates of epd controller epson S1D13524 possible (configuration, basic configuration)

lib.dab

- support for journaline object decoding added

Release 86a - 25.02.2021

version

- core version: 2.32.1.1898
- app.deRadio: 1.20.0
- lib.image: 1.4.1.117

dcdi

- bug fixed: audio volume in case of installed rev02 and smaller could be set to 100% through dcdi. Now just to 60%.

synchronization

- in case of error there will be less often log messages generated

sectWebIface

- bug fixed: the epdc power state was not correct on start page
- bug fixed: removing frames in tab configuration, section display configuration did not work

lib.image

- SVG handling: full alpha blending support for image overlays by image attribute transparency="1"

Release 86 - 28.01.2021

version

- core version: 2.32.0.1897
- app.deRadio: 1.20.0
- lib.epdc: 3.7.0.189

auxiliary controller

- bug fixed: on malformed responses of AVR to requests regarding system voltage the voltage won't be set to 0V any longer. It will remain on the last valid value until the next valid one will be received

mobile communication

- if an error occurs on entering the sim pin the device will just deactivate mobile communication if error was 16 (wrong pin), otherwise it will try to enter the pin again.

web interface

- framebuffer content of last successful display update also retrieveable for admins

dcdi

- request configureDevice extended (pwm illumination, heating, sleep mode, time-slots, power fail, dcdi)
- request getFileList extended (sysImages, checksums)
- functionality corresponding to dcdi specification 1.13

app.deRadio

- PWM support for illumination added

lib.epdc

- bug fixed: within the init sequence of EPSON EPD controller S1D13524 from Platonic the step setPowerState(RUN) was executed directly after initing clocks. Referring to the datasheet initing clocks has to be followed by sending the instruction code in our hardware configuration.

Release 85d - 15.01.2021

version

- core version: 2.31.4.1896
- app.deRadio: 1.19.0

log data

- the temperature values of all displays will be logged cyclic now

system

- Bug fixed: heating has been deactivated partially or complete when it should run. This may led to temperatures that where much too high.
- if too hight temperatures ($>30^{\circ}\text{C}$) will be reaches the heating will be deactivated. When falling above and below this border value event messegaeas will be generated and stored on device.

Release 85c - 14.01.2021

version

- core version: 2.31.3.1895
- app.deRadio: 1.19.0

system

- Bug fixed: 'deactivate heating' send to often to AVR. AVR did not start new heating because last deactivation occurred in less than 20 seconds

Release 85b - 13.01.2021

version

- core version: 2.31.2.1894
- app.deRadio: 1.19.0

system

- bug fixed: heating has been deactivated immediately after activation

test

- the tab test of the web interface has been extended by a temperature simulation

Release 85a - 20.12.2020

version

- core version: 2.31.1.1893
- app.deRadio: 1.19.0

sleep mode

- when activating power fail mode the device will hold transition to sleep mode until all pending update tasks and the current (valid) update task has been handled

Release 85 - 15.12.2020

version

- core version: 2.31.0.1892
- app.deRadio: 1.19.0
- lib.image: 1.4.0.116

statistics

- power dissipation of illumination since rev04 included

lib.image

- SVG handling is done by SVGLight
- PNG transparency and SVGLight also for old system (kernel 3.8.13)

Release 84a - 01.12.2020

version

- core version: 2.30.1.1891
- app.deRadio: 1.19.0
- lib.image: 1.3.0.115

sleep mode

- don't go to sleep if next active timeslot begins within next 180 seconds

operating system

- sd card communication runs faster (sync deactivated)
- eliminated crackling in audio playback

dcdi

- sendImagePart may be send without content and in this case tries to access system images
- sendImage and sendImagePart contain flag doNotShow that suppresses a display update
- functionality corresponding to dcdi specification 1.12

lib.image

- added transparency support to both png loaders (file and memory)

Release 84 - 17.11.2020

version

- core version: 2.30.0.1890
- app.deRadio: 1.19.0
- lib.vt: 1.3.3.505

image buffer

- when removing an image from device framebuffer content of this image will also be removed

dcdi

- bug fixed: if the value for default image fallback time is zero, switching to default image should not happen, but it did
- if there are sendImage and sendImagePart requests incoming it will be checked if already enqueued requests can be replaced
- request version contains deZign.base revision
- functionality corresponding to dcdi specification 1.11

log data

- the log collection now contains also the fileList.xml file

Release 83 - 10.11.2020

version

- core version: 2.29.0.1889
- app.deRadio: 1.19.0
- lib.vt: 1.3.3.505

web interface

- bug fixed: removing system files was not possible

text to speech

- since deZign.base.rev04 audio volume may be configured up to 100 % (until now just 60 %)

system

- deactivated test interface. Collision with uart for avr fixed

operating system

- added kernel module cpufreq-dt to new system. cpu frequency can now be configured correctly
- fstab adapted (noatime for micro SD card, tmpfs just 5%)

lib.vt

- bug fix: signal SIGABRT occurred if invalid socket was checked for writability

Release 82a - 23.10.2020

version

- core version: 2.28.3.1888
- app.deRadio: 1.19.0

dcdi

- telegrams won't be longer handled out of the socket thread, they will be enqueued and handled within dcdi thread
- functionality corresponding to dcdi specification 1.10

Release 82 - 21.10.2020

version

- core version: 2.28.2.1887
- app.deRadio: 1.19.0

system

- there is a sub directory Images within work directory to store additional files that may be referenced by svg files (e.g. image tag in svg: <image xlink:href="Images/file.png" />)
- the svg renderer can now be used for sendImagePart-Requests over dcdi

web interface

- you can have a look at system images in tab images of the web interface
- access to system images can be granted by user rights
- ordinary images can be rededicated to system images by button
- fonts may be added in tab upload

dcdi

- telegrams won't be longer handled out of the socket thread, they will be enqueued and handled within dcdi thread
- functionality corresponding to dcdi specification 1.9

scheduling

- operation mode slideshow can be assigned to a frame

Release 81a - 09.10.2020

version

- core version: 2.28.1.1886
- app.deRadio: 1.18.0

key input

- key stroke recognition also for new io expander PCF8574 (since deZign.base rev04)

auxiliary controller

- no longer activation of debug mode while firmware update, but therefor longer timeout for AVR

app.deRadio

- set host cpu timeout to 1200 seconds (20 minutes)

Release 81 - 29.09.2020

version

- core version: 2.28.0.1885
- app.deRadio: 1.17.0

mobile communication

- bug fix: on waiting for response on atz command a timeout error was possible

sectWebIface

- state of illumination will be shown on start screen
- the amount of key strokes of all four keys will be shown on start screen
- the usage of all keys will be shown on start screen

dcdi

- functionality corresponding to dcdi specification 1.8

app.deRadio

- state of illumination is send to host cpu

Release 80c - 08.09.2020

version

- core version: 2.27.3.1884
- app.deRadio: 1.16.0

system

- Polish text strings have been updated

Release 80b - 08.09.2020

version

- core version: 2.27.2.1883
- app.deRadio: 1.16.0

web interface

- bug fix: on changing image configuration javascript errors occurred

image buffer

- the amount of buffered images is no configurable in section epd controller of the web interface (min:10, max:100, default:50)

system

- Polish text strings have been updated

app.deRadio

- pull up resistors for inputs 1 and 2 of io expander SX1509 activated.
- inputs 1 and 2 of io expander SX1509 operate inverted AVR internal.

Release 80a - 04.09.2020

version

- core version: 2.27.1.1882
- app.deRadio: 1.14.0

image chains

- the index for the image chain will be reset on every application start
- the index of the image chain is shown in state bar of the web interface
- after display updates beyond image chain functionality (key pressing) finding a valid index for the new image will be tried. If no valid index can be retrieved, the index will be reset
- is the index of the image chain invalid (resetted) a key press event of any image chain related key will lead to showing the first image of the the first image chain

Release 80 - 03.09.2020

version

- core version: 2.27.0.1881
- app.deRadio: 1.14.0

image chains

- definition of image chains is now possible

system

- buffer size for images set to 30

mobile communication

- cyclic refresh of provider information in background is no deactivated

Release 79e - 26.08.2020

version

- core version: 2.26.5.1880
- app.deRadio: 1.14.0

dcdi

- bug fix: tried to enter an already entered critical section when clearing tts strings

system

- added new language: Polish

Release 79d - 30.07.2020

version

- core version: 2.26.4.1879
- app.deRadio: 1.14.0

key input

- support for two additional keys added (now four keys useable)

Release 79c - 30.07.2020

version

- core version: 2.26.3.1878
- app.deRadio: 1.14.0

dcdi

- bug fix: the flag clearOverlay now take effect on refName of request sendImagePart

app.deRadio

- io expander PCF8574 supported

Release 79b - 24.07.2020

version

- core version: 2.26.2.1877
- app.deRadio: 1.13.0

sectWebIface

- added state bar

sectConfig

- bug fix: the off voltage for illumination has not been saved correctly in config file

app.deRadio

- minimal recognition distance for proximity sensors configureable
- additional heating control for deZign.base.rev04 (automatic deactivation after 180 seconds)

Release 79a - 17.07.2020

version

- core version: 2.26.1.1876
- app.deRadio: 1.12.0

dcdi

- the flag clearOverlay within request sendImagePart is now working inverse
- functionality corresponding to dcdi specification 1.7

Release 79 - 15.07.2020

version

- core version: 2.26.0.1875
- app.deRadio: 1.12.0

text to speech

- no audio volume limitation for Aristech tts

dcdi

- sendImagePart request extended with flag clearOverlay
- functionality corresponding to dcdi specification 1.6

Release 78a - 20.05.2020

version

- core version: 2.25.5.1872
- app.deRadio: 1.12.0

auxiliary controller

- if errors occurred during reading of fuse bit configuration, fuse bit configuration will be read again

system

- bug fix within start script: on reboot the application has been started again
- automatic write access to EEPROM deactivated

Release 78 - 19.05.2020

version

- core version: 2.25.4.1871
- app.deRadio: 1.12.0

mobile communication

- retrieving provider information is now optional

auxiliary controller

- firmware check is done now cyclic

Release 77c - 20.04.2020

version

- core version: 2.25.3.1870
- app.deRadio: 1.12.0

web interface

- proximity rate can be configured

app.deRadio

- usage of proximity rate is supported
- correction of measurement values of SI1143 as proximity sensor to meaningful values

Release 77b - 26.03.2020

version

- core version: 2.25.2.1869
- app.deRadio: 1.11.1

visually handicapped mode

- to activate visually handicapped mode you now can select key 0 or key 7

mobile communication

- if a Huawei ME909-120s modem is used the first ppp context entry of the modem gets the required apn access data assigned

web interface

- proxy sensor type and range shown on start page visible

app.deRadio

- transmission of proximity sensor information to host cpu

Release 77a - 20.02.2020

version

- core version: 2.25.1.1868
- app.deRadio: 1.10.0

network

- port forwarding in master slave operation mode possible

Release 77 - 14.02.2020

version

- core version: 2.25.0.1867
- app.deRadio: 1.10.0

system

- deZign.base rev 03 selectable

network

- network interface usb0 configureable

dcdi

- configureDevice request includes now audio output volume configuration
- functionality corresponding to dcdi specification 1.5

mobile communication

- source for the wvdial confire are now selectable templates
- on site available network operators and access technologies can now be selected directly

app.deRadio

- usage of STs interface implementation for VL53L0X

Release 76b - 08.01.2020

version

- core version: 2.24.2.1866
- app.deRadio: 1.9.4
- lib.gpio: 1.1.1.8

dcdi

- showing up fallback image will be done at the end of switching to delayed fallback mode
- sendImagePart now effectes also previous made changes on referenced image (not only new changes)

lib.gpio

- adaption of names for new kernel

Release 76a - 18.12.2019

version

- core version: 2.24.1.1865
- app.deRadio: 1.9.4

general

- the medium update package now also contains the deRadio firmware

system

- during firmware update the debug mode of the auxiliary controller is activated to prevent power down of host (mantis#2994)

visually handicapped mode

- switching to visually handicapped mode is now possible again

app.deRadio

- no more interrupt operation for proximity sensor

Release 76 - 06.12.2019

version

- core version: 2.24.0.1864
- app.deRadio: 1.9.3
- lib.vt: 1.3.2.504

mobile communication

- bug fix: sms reboot just worked if number has been send and data connection was deactivated

visually handicapped mode

- visually handicapped mode can be activated by holding both keys pressed

dcdi

- a configureable delay for specific DCDI fallback actions has been added
- for each image can be selected if it should be removed in case of DCDI fallback (selectable through web interface and DCDI protocol)
- bug fix: each image got the option as key image
- bug fix: ttsOnce has not been triggered
- socket behaviour is now blocking (no more EAGAIN while send blobs)
- functionality corresponding to dcdi specification 1.4

auxiliary controller

- reduced request interval for ambient values to once a second
- reopen usb interface to aux controller if did not react 5 times

app.deRadio

- EEPROM: just write to eeprom when content changed

lib.vt

- XML parser bug fixed: could a node not be found the previous result may be returned

Release 75 - 12.11.2019

version

- core version: 2.23.0.1861
- app.deRadio: 1.9.2

dcdi

- bug fix: temp2 value in state telegram was equal to temp1
- bug fix: try to send notification on image update only when dcdi is connected (prevent blocking behaviour).

system

- no more mpt interface support

app.deRadio

- AVR restarts itself when powering up host

Release 74 - 02.10.2019

version

- core version: 2.22.0.1860
- app.deRadio: 1.9.1

key input

- support for additional key added

app.deRadio

- support for SX1509 IO-Expander added
- support for VL53L0X proximity sensor added

Release 73 - 18.09.2019

version

- core version: 2.21.2.1859
- app.deRadio: 1.9.0
- lib.epdc: 3.6.0.188

synchronization

- thread interval reduced from 1000ms to 10 ms
- additional protocol stack removed
- keep alive telegram added

lib.epdc

- Support for new 13,3“ EPDC (de#49383)

Release 72 - 10.09.2019

version

- core version: 2.21.1.1858
- app.deRadio: 1.8.9

text to speech

- when playing aristech tts audio the application will wait for finish of ongoing audio out until another out will be performed
- the aristech tts server will be restarted if not running

Release 71 - 08.08.2019

version

- core version: 2.21.0.1857
- app.deRadio: 1.8.9

text to speech

- aristech tts is supported

Release 70a - 29.05.2019

version

- core version: 2.20.6.1854
- app.deRadio: 1.8.9

customer server interface

- present realtime date will be erased in case of timeout

Release 70 - 09.05.2019

version

- core version: 2.20.5.1853
- app.deRadio: 1.8.9
- prot.dcdi: 1.2

customer server interface

- protocol compatibility issue with old customer server version fixed

dcdi

- protocol extended
- functionality corresponding to dcdi specification 1.2

Release 69b - 05.04.2019

version

- core version: 2.20.3.1851
- app.deRadio: 1.8.9
- lib.networkConfig: 1.0.2.21

key input

- display updates triggered by key will be enlisted if there is already an update in progress

system

- on low system voltage the device can go to sleep and wake up if system voltage is higher than switch off voltage + 1,5V

Release 69a - 22.02.2019

version

- core version: 2.20.2.1850
- app.deRadio: 1.8.8
- lib.networkConfig: 1.0.2.21

network

- access point: network ssid is configureable

app.deRadio

- cut off 5V with delay of 20 seconds when powering down host to have time for graceful power down of host (to prevent file system corruption, mantis#2974)

Release 69 - 22.02.2019

version

- core version: 2.20.1.1848
- app.deRadio: 1.8.7

mobile communication

- The output of retrieving SIM pin state is now more detailed. If an error occurs during retrieving state the error will be added as event 'SIM card malfunction' plus subevent (e.g. 'sim not inserted'). In case of SIM pin state errors on telit mobile modules, the SIM recognition will be restarted with AT#SIMDET=0, 5s pause, AT#SIMDET=2.

sleep mode

- bug fixed: go to sleep also if customer server does not ack the notification (mantis#2974)
- duration of power down function can be specified (default value: 180 seconds)

app.deRadio

- the AVR application also starts if there are initialization errors on i2c devices

scheduling

- schedules can be specified for frames

Release 68 - 05.02.2019

version

- core version: 2.20.0.1847
- lib.epdc: 3.5.1.187
- lib.boardId: 1.4.0.48

system

- Auto load waveform active

lib.boardId

- waveform assignment dedicated to port

lib.epdc

- vcom scaling fix

Release 67d - not released

version

- core version: 2.19.9.1844
- lib.epdc: 3.5.0.186
- lib.image: 1.2.0.114

system

- in tab startup can be configured if each display should work with it's own temperature value or with the value measured at display 1

mobile communication

- power down mobile device for 5 Minutes if SIM card could not be found (mantis#2964)

lib.epdc

- the timing of the update process will be logged more detailed
- epdc log output will be buffered and printed with low priority (faster)
- waiting for finishing serveral update states will now be done in parallel by polling all active epd controllers, so epdc no longer need to wait for finishing update stages of other controllers

lib.image

- bug fixed: loading last pixel now correct

Release 67c - 14.12.2018

version

- core version: 2.19.8.1842

mobile communication

- bug fixed: setting empty ping server value (deactivating ping check) results in loading default value and activating ping check when reloading config (mantis#2961)

Release 67b - 13.12.2018

version

- core version: 2.19.7.1841

web interface

- duration until activation of mobile device will be shown again in web interface (mantis#2958)

mobile communication

- bug fixed: device detects wrong rssi value (mantis#2960)

Release 67a - 07.12.2018

version

- core version: 2.19.6.1839

web interface

- collecting log data now is visualized (progress and finish)

mobile communication

- faster recognition of missing ppp interface than before (ma 30 seconds)
- faster recognition of missing ppp interface than before (ma 30 seconds)
- The connectivity of the ppp interface can be checked by cyclic ping calls (mantis#2958). configureable is a test server (default: 8.8.8.8, no ping test if no server specified), a test interval in seconds ($10 \leq \text{interval} \leq 3600$, default:15) and the count of consecutive error trials ($2 \leq \text{trialCount} \leq 10$, default:4), that leads to a modem restart.

customer server interface

- bug fixed: device sends invalid checksum of schedules (mantis#2956)

test

- in test mode it is possible to communicate with mobile device by at commands within web interface

Release 67 - 26.11.2018

version

- core version: 2.19.5.1835
- lib.epdc: 3.4.2.185

system

- automatic recognition of interfaces of connected devices that are included in list of known devices
- critical (blocking) callbacks now handled by event system
- compiled to std=c++11 (ISO/IEC 14882:2011) for several atomic operations
- changed order for initing im buffer (first reinit epdc, after thats clear img buf)

scheduling

- bug fixed: device seems to have schedule also if no schedule is present (load cfg.xml with 'assigned' schedule, mantis#2944)

web interface

- all images transferred through the web interface automatically become slideshow/key images (behaviour can be deactivated in 'basic configuration'), transmitting a file again overwrites previous configuration (mantis#2948)

dcdi

- all images transferred through dcdi automatically become slideshow/key images (mantis#2948)
- bug fixed: when trying to send data and destination no longer listening, wait writable blocks about 7 minutes (mantis#2945)

start up

- sort waveform list alphabetical

log data

- cyclic log procedure less nested, default json class used for creating entry

lib.epdc

- bug fixed: double transmission of image content (key stroke reaction took longer, mantis#2942)
- sometimes wait psu on timeout occurred (PL T3), update proceeds but display won't be updated, wait time increased
- bug fixed: saving framebuffer content also if update failed, now just when image update successful (did not force crash, was just wrong behaviour)
- logging better related to specific epdc

Release 66 - 26.10.2018

version

- core version: 2.19.4.1833

dcdi

- the connection to a dcdi server can be established again

Release 65c - 22.10.2018

version

- core version: 2.19.3.1832
- lib.epdc: 3.4.1.184

dcdi

- DNS resolving will be done before each connect trial to the dcdi server

log data

- the log file collection now again contains the *.log files

Release 65c - 22.10.2018

version

- core version: 2.19.3.1832
- lib.epdc: 3.4.1.184

dcdi

- DNS resolving will be done before each connect trial to the dcdi server

log data

- the log file collection now again contains the *.log files

Release 65b - 17.10.2018

version

- core version: 2.19.2.1831
- lib.epdc: 3.4.1.184

system

- just really used epd controllers will be initialized (required for routine test of epd controller)

lib.epdc

- gpio initialization will be done at end of init sequence

Release 65a - 01.10.2018

version

- core version: 2.19.1.1830
- lib.layout: 1.1.0

log data

- identifier in log files truncated

web interface

- added list of active usb devices to tab system

lib.layout

- added switch to source entry, so referenced source can be switched to another value (may be holding a Parameter)

Release 65 - 01.10.2018

version

- core version: 2.19.0.1829
- app.deRadio: 1.8.6

scheduling

- priorities for different schedule types have been new defined (high priority to low priority): instant message >realtime >cyclic schedule >linked schedule >simple schedule

customer server interface

- the display / frame for realtime is now configurable

system

- at software updates there won't be anymore a switching to dhcp for eth0.
- the utc offset calculation for illumination at night has been fixed
- the auxiliary controllerinterface has been switched to /dev/ttyDeRadio (to avoid random enumeration of usb devices)

web interface

- the desired image content can be seen on start page
- the access point functionality can now be selectet in tab 'network'

dcdi

- before sending data over the socket the writability of the socket connection will be checked

app.deRadio

- illumination can be dimmed

Release 64 - 04.05.2018

version

- core version: 2.18.0.1822

- lib.epdc: 3.4.0.183
- app.deRadio: 1.8.5

system

- traffic calculation is reduced to interfaces eth0 and ppp0

web interface

- translation bugs fixed

lib.epdc

- file descriptor for waveform files will be released
- the graying of 31.2 inch displays has been fixed

app.deRadio

- the illumination at night will be activated a hour before dusk and deactivated a hour after dawn

Release 63 - 15.03.2018

version

- core version: 2.17.0.1820

text to speech

- nuance: support for multiple languages (previously just German)

Release 62e - 02.03.2018

version

- core version: 2.16.5.1817
- lib.epdc: 3.3.5.182
- app.deRadio: 1.8.4

web interface

- the connection state to a design customer server will be shown on start page

dcdi

- the keep alive telegram id will be reset to 1 if the device connects to the server
- pending responses to the first keep alive request will deactivate the keep alive operation

lib.epdc

- VCOM correction will be done (bug since release 58)

app.deRadio

- the calculation of the case temperature is now valid also for negative temperatures

Release 62d - 07.02.2018

version

- core version: 2.16.4.1816

system

- the keep alive deactivation option if first keep alive response times out after a connection to a dcdi server has been established is now deactivated

Release 62c - 06.02.2018

version

- core version: 2.16.3.1815

system

- the activation voltage for power fail mode is editable

Release 62b - 05.02.2018

version

- core version: 2.16.2.1814

system

- system voltage will be measured by auxiliary controller and correlates to the real device voltage
- when switching to power fail mode system voltage will be logged

Release 62a - 29.01.2018

version

- core version: 2.16.1.1813

configuration

- bug fixed: image configuration for power fail mode will be read correctly

Release 62 - 24.01.2018

version

- core version: 2.16.0.1812

system

- power fail mode will be activated if system voltage is lower than 11.8 V for longer than 30 seconds and will be deactivated if voltage is higher than 12 V

web interface

- setting system time is now within general system config
- the experimental settings for image conversion and deRadio are now just available for developers

sleep mode

- for switching to sleep mode fallback images can be defined

dcdi

- on timeout for realtime data the socket won't be closed
- if keep alive detects a false connection the fallback mode will be triggered
- when switching to default image the default image will be shown and not the realtime image

Release 61 - 04.01.2018

version

- core version: 2.15.1.1810
- lib.epdc: 3.3.4.181

general

- bug fixed: tts configuration stys saved

lib.epdc

- VCOM and HV for PlasticLogic T3 displays will be set at the same time

Release 60 - 20.12.2017

version

- core version: 2.15.0.1807

dcdi

- more detailed log information on socket send issues will be outputted
- keep alive functionality added
- functionality corresponding to dcdi specification 1.1

Release 59 - 19.12.2017

version

- core version: 2.14.3.1803
- lib.epdc: 3.3.3.179

web interface

- clean up for service release has started

lib.epdc

- bug fixed: display hv and vcom will be switched off after img update

Release 58 - 11.12.2017

version

- core version: 2.14.0.1794
- lib.epdc: 3.3.2.175

dcdi

- Sending data to the server will be tried five times until the socket will be closed and reopened. The delay between each trial is about one second.

system

- for each image it has to be determined if the image should be considered within slideshow or while pressing the key

web interface

- After uploading images on the web interface the page will be reloaded

lib.epdc

- bug fixed: the heavy greying on first display update on not involved displays will no longer occur

Release 57 - 23.11.2017

version

- core version: 2.13.0.1791
- lib.vt: 1.3.1.203
- app.deRadio: 1.8.3

system

- the option 'image buffering' is no longer applicable. Image buffering is enabled allways

auxiliary controller

- the host controller flashes the aux controller firmware again on start of application if the bootloader of the aux controller notifys an invalid firmware or the aux controller firmware cannot be started
- the aux controller will be initiated after a firmware update occurred

visually handicapped mode

- the option for fallback from visually handicapped mode has been deleted. The return to normal mode will be done every time

dcdi

- reset no connection fallback timeout when trying to connect again

illumination

- the illumination mode 'time control' is called now 'proximity control'

app.deRadio

- read out of fuse configuration is now possible
- changing the mode from 'permanent active' to 'proximity control' the illumination will be switched off

Release 56 - 16.11.2017

version

- core version: 2.12.0.1787
- lib.vt: 1.3.1.203

system

- memory for handled telegrams within sync protocol level will be freed correctly

lib.vt

- minimal memleak in tXml fixed

Release 55 - 07.11.2017

version

- core version: 2.11.3.1767
- lib.epdc: 3.3.1.172
- app.deRadio: 1.8.2

system

- sync bug fixed.
- specified frames now also can be removed

web interface

- the date for next wakeup on the startup page is shown correctly

lib.epdc

- clearing screens (multiple toggling of white content) is now possible without power down and power up.
- it is selectable if a clear screen should also be done on not involved displays

Release 54a - 16.10.2017

version

- core version: 2.11.2.1760

visually handicapped mode

- during transition from normal images to images for visually handicapped people a clear screen will be performed

Release 54 - 11.10.2017

version

- core version: 2.11.1.1759
- lib.tts: 1.2.0.30

text to speech

- problems with aborting audio output when using nuance tts fixed

dcdi

- functionality corresponding to dcdi specification 1.0
- added request showImage
- added request version

- it is selectable if in case of a connection timeout the tts entry for the realtime image and/or for vhei of the realtime image could be removed

Release 53 - 21.09.2017

version

- core version: 2.11.0.1756
- lib.tts: 1.2.0.30

text to speech

- The tts engine nuance is now supported. The the selection possibilities within the web interface have been adapted.

system

- Now there is the possibility to duplicate image content from one device to multiple devices which match in type and configuration.
- After each successful display update the desired display content will be stored to be able to reload the desired display content into the framebuffers after a restart occurred.

Release 52 - 18.08.2017

version

- core version: 2.9.0.1745
- lib.tts: 1.1.0.27
- the configuration for the image that has to be shown in case of power fail is now persistent.
- the Acapella TTS engine is now included into the devices firmware (more natural audio output)
- the connection to a deZign server can now be activated or deactivated
- the dcdi notification 'state' now contains the overall state of all epd controllers
- the dcdi functionality corresponds to specification deZign.customer.device.interface_0.8

Release 51 - 13.07.2017

version

- core version: 2.8.0.1722
- lib.epdc: 3.2.0.167
- platiclogic T3 displays are now supported
- a tts notification can be configured for each image (tab images)
- a dedicated behaviour for image specific text to speech entries can be defined within text to speech config in tab configuration
- it is possible to define frames for the display on which content can be delegated to
- via dcdi a specific tts text can be defined

Release 50c - 10.05.2017

version

- core version: 2.7.4.1720

general

- tasks for display update that are already enqueued or currently in progress, won't be added to task list again

Release 50b - 04.05.2017

version

- core version: 2.7.3.1715

general

- display update tasks assigned by dcdi or the scheduler will be queued and do no longer abort if one of the epd controllers is busy

web interface

- the state of the system voltage and epd controller voltage is shown on tab start

Release 50a - 27.04.2017

version

- core version: 2.7.2.1704

general

- deZign server connection settings are now located within basic config

dcdi

- the dcdi settings require now a selection on which logical display the data should be shown

key input

- the key settings require now a selection on which logical display the reaction on key strokes should be shown

visually handicapped mode

- during transition from images for visually handicapped people to normal images a clear screen will be performed

Release 50 - 20.04.2017

version

- core version: 2.7.1.1701

general

- certain settings that are relevant for resellers are now available within tab configuration when logging in with a special account

network

- openvpn connections will stay after shutting down mobile connection
- keepalive can be configured for openvpn connections

Release 49 - 09.03.2017

version

- core version: 2.7.0.1699
- lib.vt: 1.3.0.502
- app.deRadio: 1.7.6

scheduling

- after removing images from device images will remain on device
- instant messages do always have a higher priority than ordinary schedules
- if a schedule should be removed before its original planed end has been reached (because the schedule has been removed on the server or the end of the schedule has been set to a past value) ...
 - ... the last image assigned to the schedule will be shown if there is actual no other active schedule present for this logical display
 - ... the current valid image of the schedule with highest priority for this logical display will be shown

system

- if there are more than 100 images on the device, the oldest ones will be removed if they are ...
 - ... not part of a present schedule
 - ... not listed in image update queue
 - ... not dcdi image (default, realtime or fallback image)

lib.vt

- The behavior of tcp servers during close has been improved (pending sockets will also be closed)
- fixed bug in sort algorithm of tVector (bubble sort error if no elements present for sorting)

Release 48 - 06.03.2017

version

- core version: 2.6.1.1694
- app.deRadio: 1.7.6

network

- buggy configuration of openvpn tap interfaces fixed
- open vpn can now be used independent from mobile connection

illumination

- It is possible to select whether the illumination should just be active (permanent or time controlled) just from dusk till dawn or the whole day [configuration→ illumination→ only active at night]. Therefore a proper configuration of the global position of the device is required.

Release 47 - 16.01.2017

version

- core version: 2.6.0.1692
- app.deRadio: 1.6.0

mobile communication

- all external applications for establishing and operating mobile connections will be killed with signal SIGKILL on stopping the connection to avoid zombi processes
- wvdial logging will be done permanently (limited to 2 MB)
- the system will be rebooted if three times in succession no ppp network interface could be generated

log data

- if present the log collection contains also the wvdial log file(s)

system

- the global position of the device can be configured [configuration→ general device configuration→ global position]

illumination

- It is possible to select whether the illumination should just be active (permanent or time controlled) just from dusk till dawn or the whole day [configuration→ illumination→ only active at night]. Therefore a proper configuration of the global position of the device is required.

Release 46 - 20.12.2016

version

- core version: 2.5.1.1688

system

- adaptations on the interface to deZign Server have been done (compatible to deZign Server version 1.01)

Release 45 - 20.12.2016

version

- core version: 2.5.0.1687
- lib.boardId: 1.3.0.47

lib.boardId

- customer is no longer enum, it is now a string containing the customers domain name. Now there is no need to create new firmware if customers will be added

sleep mode

- the device wakes up early enough from sleep mode if scheduled display updates should be executed

Release 44 - 07.12.2016

version

- core version: 2.4.0.1686
- lib.epdc: 3.1.0.164
- lib.vt: 1.2.0.501
- lib.boardId: 1.2.0.46

system

- the firmware for the auxiliary controller (deRadio) is part of the firmware archive of the device and will automatically be installed if the versions do not match.
- representation errors within events.html have been fixed
- ÖBB added to customer list

web interface

- the tab start up now contains an option for usage of delta waveforms (default deactivated, changin this option takes effect after restart)

lib.epdc

- usage of delta waveforms is now optional

lib.boardId

- board id now contains a flag for usage of delta waveforms

Release 43 - 18.11.2016

version

- core version: 2.3.3.1678
- lib.epdc: 3.0.0.163
- lib.gpio: 1.1.0.007
- app.deRadio: 1.4.1

auxiliary controller

- recognition of host communication timeout (180s) and restart of host system in case of timeout

mobile communication

- if no ppp network interface has been established, the duration until next activation of the device will increased up to 300 seconds to prevent that dialing into RAN occures to often. Additionally some log entries will be created, that show the registration state in the RAN.

web interface

- the tab update of the web interface has been renamed to upload
- it is possible to upload a new device config file additionally to firmware within the tab upload

log data

- temporary saved framebuffer content is now accesible via the log tab in the web interface
- the log file collection now contains also the event list

system

- the minimum slideshow interval has been reduced from 16 to 5 seconds
- if heating is required, all heating switches will be activated, regardless of which display has to be heated
- the rtc time will just be set in case of differenzes greater than 5 seconds relative to the current time

lib.epdc

- the gpio control migrated completely from lib.epdc to lib.gpio
- the waveform usage has been adapted according to the recommendations of PlasticLogic. The ratio of usage of full refresh to delta refresh waveforms is now 1 to 9. On pure mono transitions (current and new image only contain GL0 and GL15) the corresponding full refresh mono and delta refresh mono waveforms will be used.

lib.gpio

- lib.gpio now controls all gpios.

Release 42a - 14.10.2016

version

- core version: 2.3.2.1666

web interface

- bug fix: error, that images on clicking 'show' in slide images were not showed, fixed

Release 42 - 10.10.2016

version

- core version: 2.3.1.1665
- lib.boardId: 1.1.0.45

dcdi

- the notification 'state' contains the entry 'sysVoltage' measured in mV
- functionality corresponds to specification deZign.customer.device.interface_0.7
- massive log of socket errors suppressed

general

- upload of pdf files in tab images is now possible

mobile communication

- carrier signal detection is not longer done by a temporary file

system

- memory leak within pdf conversion fixed
- unloadable image files will be removed

visually handicapped mode

- operation mode simple inversion: on holding the key down the visually handicapped mode will be activated at the end of the duration for activation and immediately the current image will be shown
- operation mode image assignment: on holding the key down the visually handicapped mode will be activated at the end of the duration for activation. Immediately the to the current image assigned image for visually handicapped mode will be shown, or the first image for the visually handicapped mode in the given order. The image assignment can be done in the tab images
- option for showing the current image in normal mode at the end of visually handicapped mode added

lib.boardId

- customer selection will be stored in boardId memory

Release 41 - 26.08.2016

version

- core version: 2.3.0.1638

visually handicapped mode

- on holding the key down the visually handicapped mode will be activated at the end of the duration for activation and the next image will be shown

dcdi

- the value of the system voltage (sysVoltage) has been added to the state notification

system

- pdf file are now supported. The first page of pdf files can be showed on the display.

configuration

- problem of submitting user configuration fixed

Release 40 - 19.08.2016

version

- core version: 2.2.2.1602
- lib.image: 1.1.0.113

mobile communication

- duration of initializing mobile devices extended, because Telit HE910 mobile devices with integrated GPS receiver need more time for initialization than HE910 without GPS receiver

Release 39 - 17.08.2016

version

- core version: 2.2.1.1601
- lib.image: 1.1.0.113

text to speech

- startup problem fixed, when audio is active

web interface

- the images in tab images have now a context menu to set dcdi parameter

lib.image

- saving images 4bpp BMP possible

Release 38 - 14.07.2016

version

- core version: 2.2.0.1582

dcdi

- when switching to fallback all buffered image data will be removed and rerendered, all image files will be preserved

general

- some typos fixed

system

- mode for visually handicapped people and corresponding configuration added
- key stroke handling is done now in an own thread
- the triggering event (edge) for handling key strokes is now selectable

web interface

- state of visually handicapped mode is visible on start screen

scheduling

- before each scheduled image update a white image will be added to the display to reduce ghosting

Release 37 - 13.07.2016

version

- core version: 2.1.0.1572
- lib.epdc: 2.1.6.147

web interface

- visualization error within timing diagram fixed (device active until 4 o'clock pm)
- appearance of start screen changed, statistical values got their own table
- configuration of system language migrated to section general device configuration within slide configuration
- release notes can be retrieved on slide info

scheduling

- assigning a logical display to a schedule entry is now possible

dcdi

- the device name is a dcdi parameter and therefore can be retrieved and changed
- all notifications contain the device name
- statistic values can be reset
- notification 'state' contains the statistical value operating time in minutes
- entry 'energy' in notification 'state' contains the unit kWh
- removing of real time image when switching to fallback is now optional
- functionality corresponds to specification deZign.customer.device.interface_0.6

lib.epdc

- bug in partial update fixed: on complete framebuffer change no display update was triggered

Release 36a - 15.06.2016

version

- core version: 2.0.1.1565

mobile communication

- duration of mobile stop state for mobile device increased to 300 seconds due to varying capacity within mobile power supply

Release 36 - 15.06.2016

version

- core version: 2.0.0.1564
- lib.epdc: 2.1.5.141

general

- some typos fixed

system

- relative system timers do now refer to application up time and not any longer to system time
- event timers that require system time dependency (e.g. scheduling) are still relative to system time
- accessing specific shared data is now secured by serveral mutexes to ensure data integrity at any time (web interface seems a little bit slower)

network

- wifi options will just occure if wifi is activated

mobile communication

- duration of mobile stop state reduced to 5 seconds, only if device nodes won't occure 15 seconds after enabling the mobile device, the stop time will be set to 180 seconds and reset to 5 seconds when the device nodes can be accessed
- activation of mobile data connection by sms command possible (mobile in general and receiving of sms has to be enabled)

web interface

- session validity outlasts changing system time
- autofocus to input user name on login page added
- option for parallel epdc update added to epdc config
- user management included (if no user is registered an administrator with login 'admin' and empty password will automatically be added on start up)
- imei number of mobile device and phone number of SIM are mentioned in mobile config area (mobile device has to be active an logged in to RAN)

dcdi

- option realtime strikes passenger input is now working correctly

scheduling

- scheduling display updates for every single day of the week is possible now
- recalculation of datetime for next schedule already on committing changes to schedules

sleep mode

- experimental
- just for revision 2 (or newer) of design.base (hardware fix is required to use sleep mode)
- timeslot concept added

configuration

- the system configuration (e.g. serials, vcoms, ...) migrated from config file to another storage
- the start up slide won't be visible any longer

auxiliary controller

- SSP is no longer supported

lib.epdc

- PMIC (MAX17135) timing bug for power up and down fixed (writing to PMIC registers via i2c bridge was successful but had no effect)

Release 35 - 04.05.2016

version

- core version: 1.5.1.1543

scheduling

- bug, that considering schedule entries sometimes doesn't work, fixed

Release 34 - 02.05.2016

version

- core version: 1.5.0.1539

scheduling

- display updates on specific date or daily at a determined time possible (requires operation mode 'normal' to be selected)

dcdi

- synchronizing time is now possible (corresponding to specification deZign.customer.device.interface_0.5)
- dcdi is no longer an operation mode, so it can be used in parallel to other operation modes

web interface

- removed incorrect data rate information for dcdi on start page
- added collapse and expand functionality to config page

Release 33 - 21.04.2016

version

- core version: 1.4.10.1533

log data

- collecting log data, version info and config with one click on a button possible

key input

- ignoring of first keystroke removed

statistics

- save statistics after image update just once

dcdi

- receiving image part now also resets the fallback timeout

Release 32 - 15.04.2016

version

- core version: 1.4.9.1523

log data

- maximum event count reduced from 200 to 50

system

- bug in calculation of allocated RAM fixed
- image buffer renders maximum 10 images (the latest 10 images (modification time))

Release 31 - 11.04.2016

version

- core version: 1.4.8.1509

log data

- more detailed application debug information when image update should be run
- log files contain (log_x.log) now contain application memory usage (in bytes) free ram and cpu load (both in percent)

web interface

- application memory usage (rss) and cpu load visible web/system
- change time of log files also listed

illumination

- global illumination on off according to system voltage hysteresis (deRadio Application v1.2.xx for auxiliary control or higher required)

Release 30 - 15.03.2016

version

- core version: 1.4.7.1503

dcdi

- fallback option added: restart mobile device (corresponding to specification deZign.customer.device.int

Release 29 - 10.03.2016

version

- core version: 1.4.6.1501

text to speech

- play predeclared texts

dcdi

- memory bug fixed

Release 28 - 29.02.2016

version

- core version: 1.4.5.1488

dcdi

- fallback in case of no connection (corresponding to specification deZign.customer.device.interface_0.2)

system

- MAX_FILE_SIZE for uploading images increased to 25 MB
- if desired image is current image, skip it