

Structure of Marvelmind software package

Release date 2022.02.08

File/folder	Description
Dashboard	Folder with Dashboard software
Dashboard\windows	Folder with Dashboard software for Windows
Dashboard\windows\dashboard v7_030_32bit exe	Folder with portable executable Dashboard software for Windows (32 bit), V7.030
Dashboard\windows\dashboard v7_030_32bit exe\dashapi.dll	API library (Windows) for Dashboard V7.030 (32 bit). Can be used by 3-rd party software for communication with Marvelmind system without Dashboard (see API section)
Dashboard\windows\dashboard v7_030_32bit exe\dashboard.exe	Dashboard software V7.030 for Windows (32 bit). Portable executable.
Dashboard\windows\install_dashboard v7_030_32bit.exe	Dashboard software V7.030 (for Windows, 32 bit). Installer file. The installer installs Dashboard on the computer, installs serial port driver, places shortcut on the desktop.
Dashboard\windows\dashboard v7_030_64bit exe	Folder with portable executable Dashboard software for Windows (64 bit), V7.030
Dashboard\windows\dashboard v7_030_64bit exe\dashapi.dll	API library (Windows) for Dashboard V7.030 (64 bit). Can be used by 3-rd party software for communication with Marvelmind system without Dashboard (see API section)
Dashboard\windows\dashboard v7_030_64bit exe\dashboard.exe	Dashboard software V7.030 for Windows (64 bit). Portable executable.
Dashboard\windows\install_dashboard v7_030_64bit.exe	Dashboard software V7.030 (for Windows, 64 bit). Installer file. The installer installs Dashboard on the computer, installs serial port driver, places shortcut on the desktop.
Dashboard\linux	Folder with Dashboard software for Linux
Dashboard\linux\dashboard linux manual v2019_05_14.pdf	Manual for Linux version of Dashboard

Dashboard\linux\x86	Folder with Dashboard software for Linux on x86 hardware
Dashboard\linux\x86\libdashapi.so	API library (Linux x86) for Dashboard V7.030.
Dashboard\linux\x86\dashboard_x86	Dashboard software V7.030 for Linux x86.
Dashboard\linux\arm32	Folder with Dashboard software for Linux on Arm32 hardware
Dashboard\linux\arm32\libdashapi.so	API library (Linux Arm32) for Dashboard V7.030.
Dashboard\linux\arm32\dashboard_arm32	Dashboard software V7.030 for Linux Arm32.
Dashboard\linux\arm64	Folder with Dashboard software for Linux on Arm64 hardware
Dashboard\linux\arm64\libdashapi.so	API library (Linux Arm64) for Dashboard V7.030.
Dashboard\linux\arm64\dashboard_arm64	Dashboard software V7.030 for Linux Arm64.
Super-Modem	Folder with software for Super-Modem (same software for both NIA and IA).
Super-Modem\Super-Modem low level sw\2022_02_08_supermodem_sw7_030_rd915MHz.hex Super-Modem\Super-Modem low level sw\2022_02_08_supermodem_sw7_030_rd915MHz.dfu	Low level Super-Modem firmware (V7.030)
Super-Modem\Super-Modem high level sw\2022_02_08_supermodem_v7_030.gz	High level Super-Modem software (V7.030)
Warning! If your current Super-Modem software version is less than 7.000, you need to reflash micro-SD card inside the Super-Modem for update. Super-Modem Micro-SD card image is supplied in separate archive, because it is pretty large. Please refer to downloads page .	
Software_nia	Folder with software for modem and beacons for non-inverse architecture (NIA)
Software_nia\modem_hw51_nia	Folder with NIA software for modem of hardware version 5.1
Software_nia\modem_hw51_nia\2022_02_08_modem_hw51_sw7_030_915.hex Software_nia\modem_hw51_nia\2022_02_08_modem_hw51_sw7_030_915.dfu	Version of NIA modem software V7.030 for HW v5.1

	DFU and hex files are available. 915 MHz default radio bands
Software_nia\modem_hw49_nia	Folder with NIA software for modem of hardware version 4.9
Software_nia\modem_hw49_nia\2022_02_08_modem_hw49_sw7_030_433.hex Software_nia\modem_hw49_nia\2022_02_08_modem_hw49_sw7_030_433.dfu	Version of NIA modem software V7.030 for HW4.9 DFU and hex files are available. 433 MHz default radio band
Software_nia\modem_hw49_nia\2022_02_08_modem_hw49_sw7_030_915.hex Software_nia\modem_hw49_nia\2022_02_08_modem_hw49_sw7_030_915.dfu	Version of NIA modem software V7.030 for HW4.9 DFU and hex files are available. 915 MHz default radio bands
Software_nia\beacon_hw49_nia	Folder with NIA software for beacons of hardware version 4.9
Software_nia\beacon_hw49_nia\2022_02_08_beacon_hw49_sw7_030_433.hex Software_nia\beacon_hw49_nia\2022_02_08_beacon_hw49_sw7_030_433.dfu	Version of NIA beacon software V7.030 for HW4.9 DFU and hex files are available. 433 MHz default radio band
Software_nia\beacon_hw49_nia\2022_02_08_beacon_hw49_sw7_030_915.hex Software_nia\beacon_hw49_nia\2022_02_08_beacon_hw49_sw7_030_915.dfu	Version of NIA beacon software V7.030 for HW4.9 DFU and hex files are available. 915 MHz default radio band
Software_nia\beacon_mini_rx_nia	Folder with NIA software for beacon Mini-RX
Software_nia\beacon_mini_rx_nia\2022_02_08_beacon_mini_rx_sw7_030_915.hex Software_nia\beacon_mini_rx_nia\2022_02_08_beacon_mini_rx_sw7_030_915.dfu	Version of beacon Mini-RX NIA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software_nia\super_beacon_nia	Folder with NIA software for Super-Beacon
Software_nia\super_beacon_nia\2022_02_08_super_beacon_hw60_sw7_030_915.hex Software_nia\super_beacon_nia\2022_02_08_super_beacon_hw60_sw7_030_915.dfu	Version of Super-Beacon software V7.030 DFU and hex files are available. 915 MHz default radio band
Software_nia\ind_super_beacon_nia	Folder with NIA software for industrial Super-Beacon
Software_nia\ind_super_beacon_nia\2022_02_08_ind_super_beacon_sw7_030_915.hex	Version of industrial Super-Beacon software

Software nia\ind super beacon nia\2022 02 08 ind super beacon sw7 030 915.dfu	V7.030 DFU and hex files are available. 915 MHz default radio band
Software nia\beacon mini tx nia	Folder with NIA software for beacon mini-TX
Software nia\beacon mini tx nia\2022 02 08 beacon mini tx sw7 030 915.hex Software nia\beacon mini tx nia\2022 02 08 beacon mini tx sw7 030 915.dfu	Version of beacon mini-TX software V7.030 DFU and hex files are available. 915 MHz default radio band
Software nia\beacon hw45 nia	Folder with NIA software for beacons of hardware version 4.5
Software nia\beacon hw45 nia\2022 02 08 beacon hw45 sw7 030 433.dfu	Version of NIA beacon software V7.030 for HW4.5 DFU file only available. 433 MHz default radio band
Software ia	Folder with software for modem and beacons for inverse architecture (IA)
Software ia\modem hw51 ia	
Software ia\modem hw51 ia\2022 02 08 modem hw51 sw7 030i 915.hex Software ia\modem hw51 ia\2022 02 08 modem hw51 sw7 030i 915.dfu	Version of IA modem software V7.030 for HW5.1 DFU and hex files are available. 915 MHz default radio band
Software ia\modem hw49 ia	Folder with IA software for modem of hardware version 4.9
Software ia\modem hw49 ia\2022 02 08 modem hw49 sw7 030i 915.hex Software ia\modem hw49 ia\2022 02 08 modem hw49 sw7 030i 915.dfu	Version of IA modem software V7.030 for HW4.9 DFU and hex files are available. 915 MHz default radio band
Software ia\beacon hw49 ia	Folder with IA software for beacons of hardware version 4.9
Software ia\beacon hw49 ia\2022 02 08 beacon hw49 sw7 030i 915.hex Software ia\beacon hw49 ia\2022 02 08 beacon hw49 sw7 030i 915.dfu	Version of IA beacon software V7.030 for HW4.9 DFU and hex files are available. 915 MHz default radio band

Software ia\beacon mini rx ia	Folder with IA software for beacon Mini-RX
Software ia\beacon mini rx ia\2022 02 08 beacon mini rx sw7 030i 915.hex Software ia\beacon mini rx ia\2022 02 08 beacon mini rx sw7 030i 915.dfu	Version of beacon Mini-RX IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\super beacon ia	Folder with IA software for Super-Beacon
Software ia\super beacon ia\2022 02 08 super beacon hw60 sw7 030i 915.hex Software ia\super beacon ia\2022 02 08 super beacon hw60 sw7 030i 915.dfu	Version of Super-Beacon software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\ind super beacon ia	Folder with IA software for industrial Super-Beacon
Software ia\ind super beacon ia\2022 02 08 ind super beacon sw7 030i 915.hex Software ia\ind super beacon ia\2022 02 08 ind super beacon sw7 030i 915.dfu	Version of industrial Super-Beacon software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\badge ia	Folder with IA software for Marvelmind Badge
Software ia\badge ia\2022 02 08 beacon mini rx badge sw7 030i 915.hex Software ia\badge ia\2022 02 08 beacon mini rx badge sw7 030i 915.dfu	Version of Marvelmind Badge IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\cap ia	Folder with IA software for Marvelmind Badge
Software ia\cap ia\2022 02 08 beacon mini rx cap sw7 030i 915.hex Software ia\cap ia\2022 02 08 beacon mini rx cap sw7 030i 915.dfu	Version of Marvelmind Cap IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\headlight ia	Folder with IA software for Marvelmind Headlight
Software ia\headlight ia\2022 02 08 beacon mini rx headlight sw7 030i 915.hex Software ia\headlight ia\2022 02 08 beacon mini rx headlight sw7 030i 915.dfu	Version of Marvelmind Headlight IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\helmet ia	Folder with IA software for Marvelmind Helmet

Software ia\helmet ia\2022 02 08 beacon mini rx helmet sw7 030i 915.hex Software ia\helmet ia\2022 02 08 beacon mini rx helmet sw7 030i 915.dfu	Version of Marvelmind Helmet IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\jacket ia	Folder with IA software for Marvelmind Jacket
Software ia\jacket ia\2022 02 08 beacon mini rx jacket sw7 030i 915.hex Software ia\jacket ia\2022 02 08 beacon mini rx jacket sw7 030i 915.dfu	Version of Marvelmind Jacket IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\watch ia	Folder with IA software for Marvelmind Watch
Software ia\watch ia\2022 02 08 beacon mini rx watch sw7 030i 915.hex Software ia\watch ia\2022 02 08 beacon mini rx watch sw7 030i 915.dfu	Version of Marvelmind Watch IA software V7.030 DFU and hex files are available. 915 MHz default radio band
Software ia\belt ia	Folder with IA software for Marvelmind Belt
Software ia\belt ia\2022 02 08 beacon mini rx belt sw7 030i 915.hex Software ia\belt ia\2022 02 08 beacon mini rx belt sw7 030i 915.dfu	Version of Marvelmind Belt IA software V7.030 DFU and hex files are available. 915 MHz default radio band
API	Folder with Marvelmind API library and C example
API\api_windows_32bit	Folder with Marvelmind API for Windows 32 bit (dll)
API\api_windows_64bit	Folder with Marvelmind API for Windows 64 bit (dll)
API\api_linux_x86	Folder with Marvelmind API for Linux (x86 platform) shared library
API\api_linux_arm32	Folder with Marvelmind API for Linux (arm32 platform) shared library
API\api_linux_arm64	Folder with Marvelmind API for Linux (arm64 platform) shared library
API\example_source	Folder of source code of C example for Marvelmind API

API\example_bin_win32	Prebuilt example for Marvelmind API (win32)
Examples	Folder with misc sample code
Examples\arduino	Folder with Arduino examples
Examples\arduino\marvelmind_hedgehog2arduino_interface_v2016_03_07.pdf	Scheme of connection of mobile beacon to Arduino
Examples\arduino\hedgehog_sample_uart_v5	Arduino example for getting location of mobile beacon via UART
Examples\arduino\hedgehog_sample_spi_v2	Arduino example for getting location of mobile beacon via SPI
Examples\arduino\hedgehog_sample_uart_imu_raw_v1	Arduino example for getting raw IMU data via UART
Examples\arduino\hedgehog_sample_uart_imu_v1	Arduino example for getting IMU fusion data via UART
Examples\arduino\hedgehog_sample_uart_path_v1	Arduino example for receiving waypoints from mobile beacon via UART (sent from dashboard or other software)
Examples\arduino\hedgehog_sample_uart_ranges_v3	Arduino example for getting locations of mobile and stationary beacons and calc distances
Examples\c	Folder with different C examples
Examples\c\2020_04_10_C_example	C example for reading streaming data from mobile beacon or modem (locations, IMU, raw distances etc).
Examples\c\2017_01_28_modem_C_example	C example for communication with modem. Obsolete. Use Marvelmind API instead it
Examples\c\2020_03_12_UDP_C_example	C example for getting location and IMU data via UDP from dashboard.
Examples\python	Python example for reading streaming data from mobile beacon or modem (locations, IMU, raw distances etc).

Examples\java	Java example for reading location of mobile beacon
Examples\ros	Marvelmind ROS package source
Documentation	Folder with documentation
Examples\ros\marvelmind_ROS_v2020_05_28.pdf	Installation in using of Marvelmind ROS package
Documentation\dashboard_linux_manual_v2019_05_14.pdf	Manual for Linux version of dashboard
Documentation\marvelmind_hedgehog2arduino_interface_v2016_03_07.pdf	Connection of mobile beacon to Arduino

DFU files are used for uploading firmware via DFU interface. Please refer to operating manual.

Hex files are used for uploading firmware using dashboard software. Use Please refer to operating manual.