

## Structure of Marvelmind software package

Release date 2022.02.20

File/folder	Description
<a href="#">Dashboard</a>	Folder with Dashboard software
<a href="#">Dashboard\windows</a>	Folder with Dashboard software for Windows
<a href="#">Dashboard\windows\dashboard v7 040 32bit exe</a>	Folder with portable executable Dashboard software for Windows (32 bit), V7.040
<a href="#">Dashboard\windows\dashboard v7 040 32bit exe\dashapi.dll</a>	API library (Windows) for Dashboard V7.040 (32 bit). Can be used by 3-rd party software for communication with Marvelmind system without Dashboard (see API section)
<a href="#">Dashboard\windows\dashboard v7 040 32bit exe\dashboard.exe</a>	Dashboard software V7.040 for Windows (32 bit). Portable executable.
<a href="#">Dashboard\windows\install_dashboard v7 040 32bit.exe</a>	Dashboard software V7.040 (for Windows, 32 bit). Installer file. The installer installs Dashboard on the computer, installs serial port driver, places shortcut on the desktop.
<a href="#">Dashboard\windows\dashboard v7 040 64bit exe</a>	Folder with portable executable Dashboard software for Windows (64 bit), V7.040
<a href="#">Dashboard\windows\dashboard v7 040 64bit exe\dashapi.dll</a>	API library (Windows) for Dashboard V7.040 (64 bit). Can be used by 3-rd party software for communication with Marvelmind system without Dashboard (see API section)
<a href="#">Dashboard\windows\dashboard v7 040 64bit exe\dashboard.exe</a>	Dashboard software V7.040 for Windows (64 bit). Portable executable.
<a href="#">Dashboard\windows\install_dashboard v7 040 64bit.exe</a>	Dashboard software V7.040 (for Windows, 64 bit). Installer file. The installer installs Dashboard on the computer, installs serial port driver, places shortcut on the desktop.
<a href="#">Dashboard\linux</a>	Folder with Dashboard software for Linux
<a href="#">Dashboard\linux\dashboard linux manual v2019 05 14.pdf</a>	Manual for Linux version of Dashboard

<a href="#">Dashboard\linux\x86</a>	Folder with Dashboard software for Linux on x86 hardware
<a href="#">Dashboard\linux\x86\libdashapi.so</a>	API library (Linux x86) for Dashboard V7.040.
<a href="#">Dashboard\linux\x86\dashboard_x86</a>	Dashboard software V7.040 for Linux x86.
<a href="#">Dashboard\linux\arm32</a>	Folder with Dashboard software for Linux on Arm32 hardware
<a href="#">Dashboard\linux\arm32\libdashapi.so</a>	API library (Linux Arm32) for Dashboard V7.040.
<a href="#">Dashboard\linux\arm32\dashboard_arm32</a>	Dashboard software V7.040 for Linux Arm32.
<a href="#">Dashboard\linux\arm64</a>	Folder with Dashboard software for Linux on Arm64 hardware
<a href="#">Dashboard\linux\arm64\libdashapi.so</a>	API library (Linux Arm64) for Dashboard V7.040.
<a href="#">Dashboard\linux\arm64\dashboard_arm64</a>	Dashboard software V7.040 for Linux Arm64.
<a href="#">Super-Modem</a>	Folder with software for Super-Modem (same software for both NIA and IA).
<a href="#">Super-Modem\Super-Modem_low_level_sw\2022_02_20_supermodem_sw7_040_rd915MHz.hex</a>	Low level Super-Modem firmware (V7.040)
<a href="#">Super-Modem\Super-Modem_low_level_sw\2022_02_20_supermodem_sw7_040_rd915MHz.dfu</a>	
<a href="#">Super-Modem\Super-Modem_high_level_sw\2022_02_20_supermodem_v7_040.gz</a>	High level Super-Modem software (V7.040)
<b>Warning!</b> 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 <a href="#">downloads page</a> .	
<a href="#">Software_nia</a>	Folder with software for modem and beacons for non-inverse architecture (NIA)
<a href="#">Software_nia\modem_hw51_nia</a>	Folder with NIA software for modem of hardware version 5.1
<a href="#">Software_nia\modem_hw51_nia\2022_02_20_modem_hw51_sw7_040_915.hex</a>	Version of NIA modem software V7.040 for HW v5.1
<a href="#">Software_nia\modem_hw51_nia\2022_02_20_modem_hw51_sw7_040_915.dfu</a>	

	DFU and hex files are available. 915 MHz default radio bands
<a href="#">Software_nia\modem_hw49_nia</a>	Folder with NIA software for modem of hardware version 4.9
<a href="#">Software_nia\modem_hw49_nia\2022_02_20_modem_hw49_sw7_040_433.hex</a> <a href="#">Software_nia\modem_hw49_nia\2022_02_20_modem_hw49_sw7_040_433.dfu</a>	Version of NIA modem software V7.040 for HW4.9 DFU and hex files are available. 433 MHz default radio band
<a href="#">Software_nia\modem_hw49_nia\2022_02_20_modem_hw49_sw7_040_915.hex</a> <a href="#">Software_nia\modem_hw49_nia\2022_02_20_modem_hw49_sw7_040_915.dfu</a>	Version of NIA modem software V7.040 for HW4.9 DFU and hex files are available. 915 MHz default radio bands
<a href="#">Software_nia\beacon_hw49_nia</a>	Folder with NIA software for beacons of hardware version 4.9
<a href="#">Software_nia\beacon_hw49_nia\2022_02_20_beacon_hw49_sw7_040_433.hex</a> <a href="#">Software_nia\beacon_hw49_nia\2022_02_20_beacon_hw49_sw7_040_433.dfu</a>	Version of NIA beacon software V7.040 for HW4.9 DFU and hex files are available. 433 MHz default radio band
<a href="#">Software_nia\beacon_hw49_nia\2022_02_20_beacon_hw49_sw7_040_915.hex</a> <a href="#">Software_nia\beacon_hw49_nia\2022_02_20_beacon_hw49_sw7_040_915.dfu</a>	Version of NIA beacon software V7.040 for HW4.9 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_nia\beacon_mini_rx_nia</a>	Folder with NIA software for beacon Mini-RX
<a href="#">Software_nia\beacon_mini_rx_nia\2022_02_20_beacon_mini_rx_sw7_040_915.hex</a> <a href="#">Software_nia\beacon_mini_rx_nia\2022_02_20_beacon_mini_rx_sw7_040_915.dfu</a>	Version of beacon Mini-RX NIA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_nia\super_beacon_nia</a>	Folder with NIA software for Super-Beacon
<a href="#">Software_nia\super_beacon_nia\2022_02_20_super_beacon_hw60_sw7_040_915.hex</a> <a href="#">Software_nia\super_beacon_nia\2022_02_20_super_beacon_hw60_sw7_040_915.dfu</a>	Version of Super-Beacon software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_nia\ind_super_beacon_nia</a>	Folder with NIA software for industrial Super-Beacon
<a href="#">Software_nia\ind_super_beacon_nia\2022_02_20_ind_super_beacon_sw7_040_915.hex</a>	Version of industrial Super-Beacon software

<a href="#">Software_nia\ind super beacon_nia\2022 02 20 ind super beacon sw7 040 915.dfu</a>	V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_nia\beacon mini tx_nia</a>	Folder with NIA software for beacon mini-TX
<a href="#">Software_nia\beacon mini tx_nia\2022 02 20 beacon mini tx sw7 040 915.hex</a> <a href="#">Software_nia\beacon mini tx_nia\2022 02 20 beacon mini tx sw7 040 915.dfu</a>	Version of beacon mini-TX software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_nia\beacon hw45_nia</a>	Folder with NIA software for beacons of hardware version 4.5
<a href="#">Software_nia\beacon hw45_nia\2022 02 20 beacon hw45 sw7 040 433.dfu</a>	Version of NIA beacon software V7.040 for HW4.5 DFU file only available. 433 MHz default radio band
<a href="#">Software_ia</a>	Folder with software for modem and beacons for inverse architecture (IA)
<a href="#">Software_ia\modem hw51_ia</a>	
<a href="#">Software_ia\modem hw51_ia\2022 02 20 modem hw51 sw7 040i 915.hex</a> <a href="#">Software_ia\modem hw51_ia\2022 02 20 modem hw51 sw7 040i 915.dfu</a>	Version of IA modem software V7.040 for HW5.1 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_ia\modem hw49_ia</a>	Folder with IA software for modem of hardware version 4.9
<a href="#">Software_ia\modem hw49_ia\2022 02 20 modem hw49 sw7 040i 915.hex</a> <a href="#">Software_ia\modem hw49_ia\2022 02 20 modem hw49 sw7 040i 915.dfu</a>	Version of IA modem software V7.040 for HW4.9 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software_ia\beacon hw49_ia</a>	Folder with IA software for beacons of hardware version 4.9
<a href="#">Software_ia\beacon hw49_ia\2022 02 20 beacon hw49 sw7 040i 915.hex</a> <a href="#">Software_ia\beacon hw49_ia\2022 02 20 beacon hw49 sw7 040i 915.dfu</a>	Version of IA beacon software V7.040 for HW4.9 DFU and hex files are available. 915 MHz default radio band

<a href="#">Software ia\beacon mini rx ia</a>	Folder with IA software for beacon Mini-RX
<a href="#">Software ia\beacon mini rx ia\2022 02 20 beacon mini rx sw7 040i 915.hex</a> <a href="#">Software ia\beacon mini rx ia\2022 02 20 beacon mini rx sw7 040i 915.dfu</a>	Version of beacon Mini-RX IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\super beacon ia</a>	Folder with IA software for Super-Beacon
<a href="#">Software ia\super beacon ia\2022 02 20 super beacon hw60 sw7 040i 915.hex</a> <a href="#">Software ia\super beacon ia\2022 02 20 super beacon hw60 sw7 040i 915.dfu</a>	Version of Super-Beacon software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\ind super beacon ia</a>	Folder with IA software for industrial Super-Beacon
<a href="#">Software ia\ind super beacon ia\2022 02 20 ind super beacon sw7 040i 915.hex</a> <a href="#">Software ia\ind super beacon ia\2022 02 20 ind super beacon sw7 040i 915.dfu</a>	Version of industrial Super-Beacon software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\badge ia</a>	Folder with IA software for Marvelmind Badge
<a href="#">Software ia\badge ia\2022 02 20 beacon mini rx badge sw7 040i 915.hex</a> <a href="#">Software ia\badge ia\2022 02 20 beacon mini rx badge sw7 040i 915.dfu</a>	Version of Marvelmind Badge IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\cap ia</a>	Folder with IA software for Marvelmind Badge
<a href="#">Software ia\cap ia\2022 02 20 beacon mini rx cap sw7 040i 915.hex</a> <a href="#">Software ia\cap ia\2022 02 20 beacon mini rx cap sw7 040i 915.dfu</a>	Version of Marvelmind Cap IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\headlight ia</a>	Folder with IA software for Marvelmind Headlight
<a href="#">Software ia\headlight ia\2022 02 20 beacon mini rx headlight sw7 040i 915.hex</a> <a href="#">Software ia\headlight ia\2022 02 20 beacon mini rx headlight sw7 040i 915.dfu</a>	Version of Marvelmind Headlight IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\helmet ia</a>	Folder with IA software for Marvelmind Helmet

<a href="#">Software ia\helmet ia\2022 02 20 beacon mini rx helmet sw7 040i 915.hex</a> <a href="#">Software ia\helmet ia\2022 02 20 beacon mini rx helmet sw7 040i 915.dfu</a>	Version of Marvelmind Helmet IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\jacket ia</a>	Folder with IA software for Marvelmind Jacket
<a href="#">Software ia\jacket ia\2022 02 20 beacon mini rx jacket sw7 040i 915.hex</a> <a href="#">Software ia\jacket ia\2022 02 20 beacon mini rx jacket sw7 040i 915.dfu</a>	Version of Marvelmind Jacket IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\watch ia</a>	Folder with IA software for Marvelmind Watch
<a href="#">Software ia\watch ia\2022 02 20 beacon mini rx watch sw7 040i 915.hex</a> <a href="#">Software ia\watch ia\2022 02 20 beacon mini rx watch sw7 040i 915.dfu</a>	Version of Marvelmind Watch IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">Software ia\belt ia</a>	Folder with IA software for Marvelmind Belt
<a href="#">Software ia\belt ia\2022 02 20 beacon mini rx belt sw7 040i 915.hex</a> <a href="#">Software ia\belt ia\2022 02 20 beacon mini rx belt sw7 040i 915.dfu</a>	Version of Marvelmind Belt IA software V7.040 DFU and hex files are available. 915 MHz default radio band
<a href="#">API</a>	Folder with Marvelmind API library and C example
<a href="#">API\api_windows_32bit</a>	Folder with Marvelmind API for Windows 32 bit (dll)
<a href="#">API\api_windows_64bit</a>	Folder with Marvelmind API for Windows 64 bit (dll)
<a href="#">API\api_linux_x86</a>	Folder with Marvelmind API for Linux (x86 platform) shared library
<a href="#">API\api_linux_arm32</a>	Folder with Marvelmind API for Linux (arm32 platform) shared library
<a href="#">API\api_linux_arm64</a>	Folder with Marvelmind API for Linux (arm64 platform) shared library
<a href="#">API\example_source</a>	Folder of source code of C example for Marvelmind API

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

<a href="#">Examples\java</a>	Java example for reading location of mobile beacon
<a href="#">Examples\ros</a>	Marvelmind ROS package source
<a href="#">Documentation</a>	Folder with documentation
<a href="#">Examples\ros\marvelmind_ROS_v2020_05_28.pdf</a>	Installation in using of Marvelmind ROS package
<a href="#">Documentation\dashboard_linux_manual_v2019_05_14.pdf</a>	Manual for Linux version of dashboard
<a href="#">Documentation\marvelmind_hedgehog2arduino_interface_v2016_03_07.pdf</a>	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.