

# ADVANTECH



## WebAccess/DMP Client



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# Used symbols

 *Danger* – Information regarding user safety or potential damage to the router.

 *Attention* – Problems that can arise in specific situations.

 *Information* – Useful tips or information of special interest.

 *Example* – Example of function, command or script.

# Contents

|  |          |
|--|----------|
| <b>1. Changelog</b>                          | <b>1</b> |
| 1.1 WebAccess/DMP Client Changelog . . . . . | 1        |
| <b>2. Description of the module</b>          | <b>3</b> |
| <b>3. Web Interface</b>                      | <b>4</b> |
| 3.1 General . . . . .                        | 5        |
| 3.1.1 Configuration . . . . .                | 5        |
| 3.1.2 Create Device on WA/DMP . . . . .      | 6        |
| <b>4. Related Documents</b>                  | <b>7</b> |

## List of Figures

|                           |   |
|---------------------------|---|
| 1 Logo . . . . .          | 3 |
| 2 Menu . . . . .          | 4 |
| 3 Configuration . . . . . | 5 |
| 4 Emails . . . . .        | 6 |

## List of Tables

|  |   |
|--|---|
| 1 WebAccess/DMP Client Configuration . . . . . | 6 |
|--|---|

# 1. Changelog

## 1.1 WebAccess/DMP Client Changelog

### v2.0.1 (2020-02-25)

- WebAccess/DMP Client first release.

### v2.0.2 (2020-03-11)

- Handle version number with letters, e.g. '1.0.1 alfa' it is now reported as '1.0.1'.
- Fix Monitoring bug where client couldn't get product title.

### v2.0.3 (2020-03-30)

- Bugfix: Fix stol error when mobile data usage goes over 2GB.
- Bugfix: Fix LWT message overwriting real device online status

### v2.0.4 (2020-04-16)

- Bugfix: Added WiFi network and network6 calculated fields for firmware 6.2.x.

### v2.0.5 (2020-05-28)

- Support change password feature.
- Bugfix: Sanitize UM version like 'v1.0.0' to '1.0.0'.
- Join debug log messages into single line to reduce verbosity.

### v2.0.6 (2020-07-06)

- Upgraded Eclipse Paho MQTT C client library from 1.3.1 to 1.3.4.
- Bugfix: Avoid infinite loop situation when IR/Notify fails.
- Bugfix: Fix reconnect issue when WAN network fully changed.
- Bugfix: Replace non-utf8 characters on IR/Notify with unicode REPLACEMENT CHARACTER.

### v2.0.7 (2020-09-11)

- Bugfix: Downgraded Eclipse Paho MQTT C client library from 1.3.4 to 1.3.1 again in order to fix connectivity issues.

### v2.0.8 (2020-11-02)

- Upgraded Eclipse PAHO MQTT C client library from 1.3.1 to 1.3.6.
- Added support for older firmware when compiled with toolchain 7.4.0 and ModulesSDK 1.8.0.

### v2.0.9 (2021-01-27)

- Added GPS over MQTT feature.

### **v2.0.10 (2021-02-11)**

- Firmware download is automatically resumed.

### **v2.1.0 (2021-05-31)**

- Bugfix: Do not trim INI values when reporting settings.
- Bugfix: Keep MQTT connection while downloading (yield thread).
- Report settings on connect only if changed or device not in sync.

### **v2.1.1 (2021-06-17)**

- Bugfix: Fix 2.1.0 client incompatibility with 6.1.x firmwares.

### **v2.1.3 (2021-12-08)**

- If router does not measure temperature, send value was modified from 0 degrees to -273 degrees.

### **v2.1.4 (2022-04-28)**

- Added idempotency token for handling repeated request, which have already been handled.
- Added welcome page to the router.

### **v2.2.0 (2022-10-17)**

- Added client automatic update that install the newest supported client version if unsupported one is detected.

### **v2.2.1 (2022-11-01)**

- Bugfix: "ppp" service now restarts when sms settings change.

### **v2.2.2 (2023-03-31)**

- Bugfix: Firmware update on v2 routers fails to reboot the router and leaves it in invalid state.
- Bugfix: Receiving the same installation request from server repeatedly leads to failure.

### **v2.2.3 (2023-04-25)**

- Bugfix: Fixed installation of user modules that do not contain install script.

### **v2.2.4 (2023-06-30)**

- Added checks of available space before application download and installation.
- Added reporting mobile operator and ICCID.

## 2. Description of the module



Router app is not contained in the standard router firmware. Uploading of this router app is described in the Configuration manual (see Chapter [Related Documents](#)).



The logo for WebAccess/DMP features the word 'WebAccess' in a bold, blue, sans-serif font, followed by a forward slash and the letters 'DMP' in a bold, green, sans-serif font.

Figure 1: Logo

Router App *WebAccess/DMP Client* provides a client that runs inside Advantech routers, to enable them to connect with WebAccess/DMP.

### 3. Web Interface

Once the installation of the module is complete, the module's GUI can be invoked by clicking the module name on the Router apps page of router's web interface.

Left part of this GUI contains menu with General menu section and Customization menu section. Customization menu section contains only the Return item, which switches back from the module's web page to the router's web configuration pages. The main menu of module's GUI is shown on Figure 2.

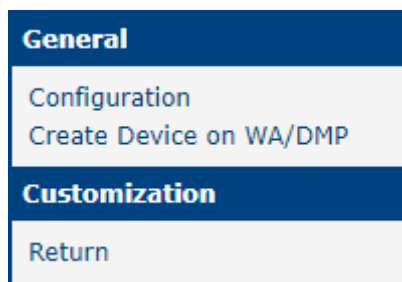


Figure 2: Menu



## 3.1 General

### 3.1.1 Configuration

In the *Configuration* section you can set up whole WebAccess/DMP Client.

| WebAccess/DMP Client Configuration                              |  |
|---|--|
| <b>WebAccess/DMP</b>  |  |
| <input checked="" type="checkbox"/> Enable WebAccess/DMP Client |  |
| Bootstrap Server Address  | <input type="text" value="bootstrap.wadmp.com"/> |
| Bootstrap Server Port   | <input type="text" value="8884"/>                |
| Log Level   | <input type="text" value="Information"/> ▼       |
| MQTT KeepAlive Interval   | <input type="text" value="60"/> seconds          |
| Enable Monitoring   | <input checked="" type="checkbox"/>              |
| Monitoring Interval   | <input type="text" value="15"/> minutes          |
| <input type="button" value="Apply"/>                            |  |

Figure 3: Configuration

| Item  | Description  |
|---|--|
| Enable WebAccess/DMP Client   | Enables the WebAccess/DMP Client functionality.  |
| Bootstrap Server Address  | URL of a bootstrap server.   |
| Bootstrap Server Port   | Port, where the bootstrap service is listening.  |
| Local Log Level<br>(all router logs are saved locally in the syslog folder) | <p>Detail level in the logging system. Available detail levels (from the briefest to most detailed) are:</p> <ul style="list-style-type: none"> <li>• Error - error events that might still allow the application to continue running. (ERROR events)</li> <li>• Warning - potentially harmful situations. (ERROR + WARN events)</li> <li>• Information - informational messages that highlight the progress of the application at coarse-grained level. (ERROR + WARN + INFO events)</li> <li>• Debug - fine-grained informational events that are most useful to debug an application. (ERROR + WARN + INFO + DEBUG events)</li> <li>• Trace - finer-grained informational events than the <i>DEBUG</i>. (ERROR + WARN + INFO + DEBUG + TRACE events)</li> </ul> |
| MQTT KeepAlive Interval   | Heartbeat interval for the client and for server not to close the connection.  |
| Enable Monitoring   | Enables monitoring service messages.   |
| Monitoring Interval   | Sending period of monitoring messages. Interval is in minutes with the maximum of 20160 minutes (2 weeks).   |

Table 1: WebAccess/DMP Client Configuration

### 3.1.2 Create Device on WA/DMP

In this section you will find this routers credentials to add to WebAccess/DMP.

| Create Device on WA/DMP              |                   |
|--------------------------------------|-------------------|
| MAC Address:                         | 02:AD:FF:00:00:56 |
| Serial Number:                       | ACZ1199000000561  |
| IMEI:                                | 861107030677158   |
| Device Type:                         | SPECTRE-v3-LTE    |
| Firmware Version: 6.3.2 (2021-09-30) |                   |

Figure 4: Emails

## 4. Related Documents

You can obtain product-related documents on *Engineering Portal* at [icr.advantech.cz](http://icr.advantech.cz) address.

To get your router's *Quick Start Guide*, *User Manual*, *Configuration Manual*, or *Firmware* go to the [Router Models](#) page, find the required model, and switch to the *Manuals* or *Firmware* tab, respectively.

The *Router Apps* installation packages and manuals are available on the [Router Apps](#) page.

For the *Development Documents*, go to the [DevZone](#) page.