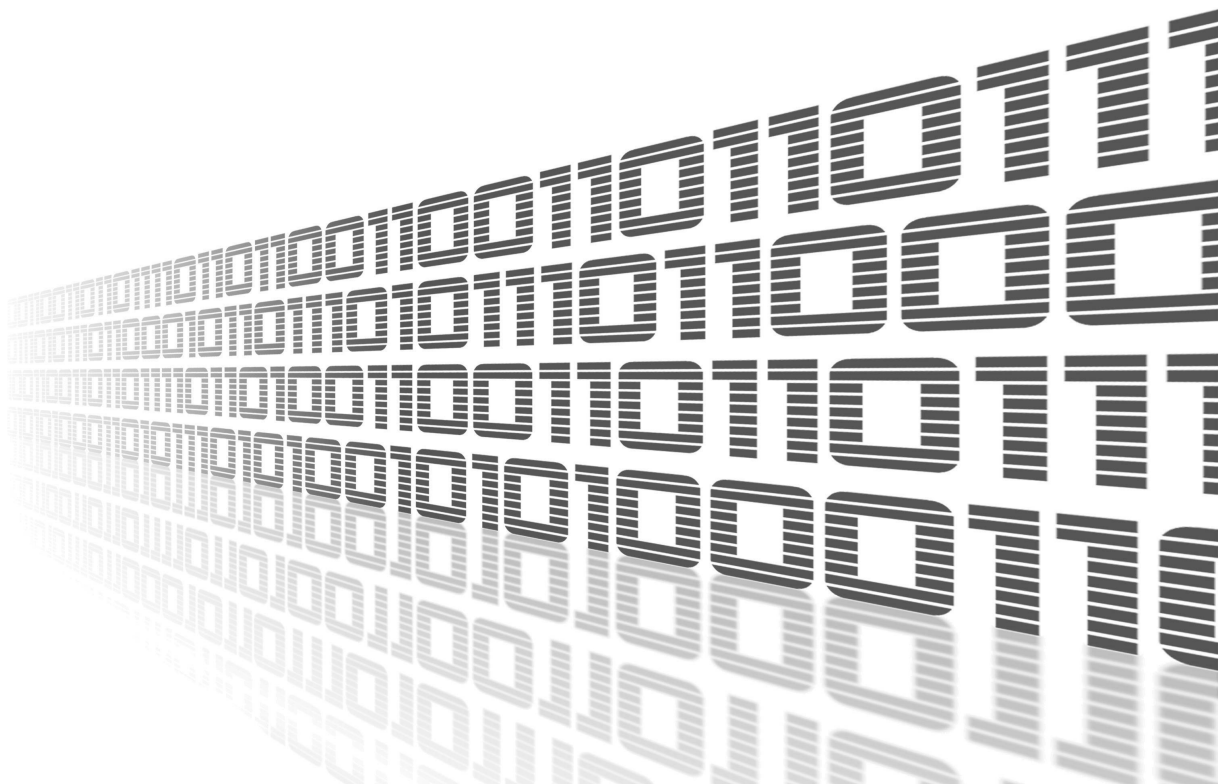




User Module

wM-BUS Concentrator

APPLICATION NOTE



ADVANTECH

Used symbols



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



Attention – Problems that may arise in specific situations.



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



Example – example of function, command or script.



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1. Description of user module



User module *wM-BUS Concentrator* is not contained in the standard router firmware. Uploading of this user module is described in the Configuration manual (see [1]). The user module is not v3 router platform compatible.

This module allows the router to receive messages from wireless M-BUS meters and then saves contents of these messages to XML file. WM-BUS Concentrator processes only messages received from the meters which are included in the list (adding meter to the list is described in the following chapter). The XML file is generated for each meter once per day. Other messages from the same meter on the same day are ignored. Generated files are saved to a temporary folder and then user module moves these XML files to the FTP server. Files are stored in temporary folder until they are successfully transferred to the FTP server.

For configuration *wM-BUS Concentrator* user module is available web interface, which is invoked by pressing the module name on the *User modules* page of the router web interface. The left part of the web interface (ie. menu) contains only the *Return* item, which switches this web interface to the interface of the router.

wM-BUS CONCENTRATOR

Customization	wM-BUS CONCENTRATOR Configuration
Return	<input checked="" type="checkbox"/> Enable wM-Bus concentrator
	FTP Server IP Address <input type="text" value="192.168.2.76"/> Folder * <input type="text" value="ftproot"/> Username * <input type="text" value="router"/> Password * <input type="password"/> Store period <input type="text" value="5"/> min <small>* can be blank</small>
	Meters [Delete] Meter ID 38934199, Manufacturer HYD, Medium Heat, RSSI -53.5 dBm [Delete] Meter ID 54000181, Manufacturer AMB, Medium Unknown, RSSI -58.5 dBm [Delete] Meter ID 87654301, Manufacturer ---, Medium ---, RSSI --- [Add Meter]
	<input type="button" value="Apply"/>

Figure 1: Web interface

2. Configuration

The actual configuration of the *wM-BUS Concentrator* user module is performed via the form on the right of the web interface. The first item in the configuration form – *Enable wM-BUS concentrator* – is used to activate this user module. Other items have the following meanings:

Item	Description
FTP Server IP Address	IP address of the FTP server where XML files will be sent
Folder	Destination folder (not have to fill if the destination directory is root)
Username	Username for logging into the FTP server
Password	Password for logging into the FTP server
Store period	Period of sending XML files to the FTP server (in minutes)

Table 1: Description of items in the configuration form

wM-BUS CONCENTRATOR Configuration

☒ Enable wM-Bus concentrator

FTP Server IP Address

192.168.2.76

Folder *

ftproot

Username *

router

Password *

Store period

5

min

* can be blank

Meters

[\[Delete\]](#) Meter ID 38934199, Manufacturer HYD, Medium Heat, RSSI -53.5 dBm
[\[Delete\]](#) Meter ID 54000181, Manufacturer AMB, Medium Unknown, RSSI -58.5 dBm
[\[Delete\]](#) Meter ID 87654301, Manufacturer ---, Medium ---, RSSI ---
[\[Add Meter\]](#)

Apply

Figure 2: Configuration form

2.1 Adding a measuring device wM-BUS

It is possible to add the wM-BUS meter to the list by clicking *Add Meter* item at the bottom of configuration form. There are the following three ways that can be used to added measuring device to the list:

The screenshot shows a web form titled "wM-BUS CONCENTRATOR New Meter". It contains three numbered steps: 1. "[Available Meters]", 2. "[Import Meters]", and 3. "Meter Address" with a text input field. An "Add Meter" button is located at the bottom of the form.

Figure 3: Add Meter

2.1.1 Available Meters

Use this item to add a meter by selecting from the list of "overheard meters". Overheard meters are meters within range which have already sent a message with data.

The screenshot shows a web form titled "wM-BUS CONCENTRATOR Available Meters". It contains a list of two meters with checkboxes: "Meter ID 54000181, Manufacturer AMB, Medium Unknown, Rssi -55.0 dBm" and "Meter ID 38934199, Manufacturer HYD, Medium Heat, Rssi -65.5 dBm". There is a "[Reload]" link and an "Add" button at the bottom of the form.

Figure 4: Available Meters

2.1.2 Import Meters

Import Meters item allows user to add wM-BUS meter by importing from a CSV file. Use *Browse* button to select the file from which measuring devices will be imported. Then confirm it by pressing *Import Meters* button.

The screenshot shows a web form titled "wM-BUS CONCENTRATOR Import Meters From CSV file". It contains a "CSV File" section with a "Vybrat soubor" (Browse) button and a "Soubor nevybrán" (File not selected) status. An "Import Meters" button is located at the bottom of the form.

Figure 5: Import Meters

2.1.3 Meter Address

The last option to add meter to the list is manual typing its address (ID). This is an eight-digit number which is entered to the *Meter Address* box.

3. Related Documents

[1] Advantech Czech: **v2 Routers Configuration Manual** (MAN-0021-EN)



Product related documents can be obtained on *Engineering Portal* at www.ep.advantech-bb.cz address.