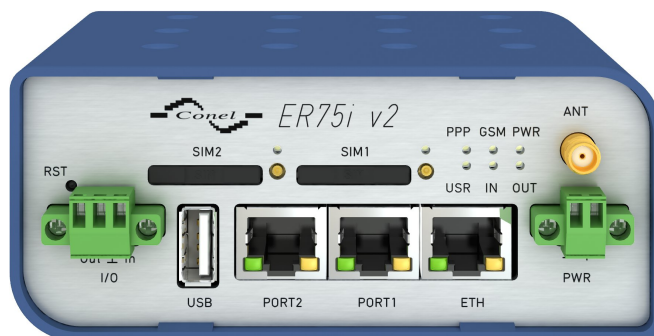# User module
HTTP Authentication

APPLICATION NOTE

Used symbols

⚠ *Danger* – important notice, which may have an influence on the user's safety or the function of the device.

❗ *Attention* – notice on possible problems, which can arise in specific cases.

ⓘ *Information, notice* – information, which contains useful advice or special interest.

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1. Description of user module

User module *HTTP Authentication* is not contained in the standard router firmware. Uploading of this user module is described in the Configuration manual (see [1, 2]). The user module is v2 and v3 router platforms compatible.

Using this module, it is possible to add the process of authentication (identity verifying) to the server which does not provide this service. This means that in each subsequent attempt to access the server for which this module is activated (the server is specified in the configuration form of this module) is necessray to enter the IP address of the router and port number on which authentication takes place. Then it is always displayed the classic window asking user to enter login information. If entered data are identical with those which *HTTP Authentication* module requires, access to the server will go in a standard way. Otherwise user will see an error message *401 Unauthorised*.
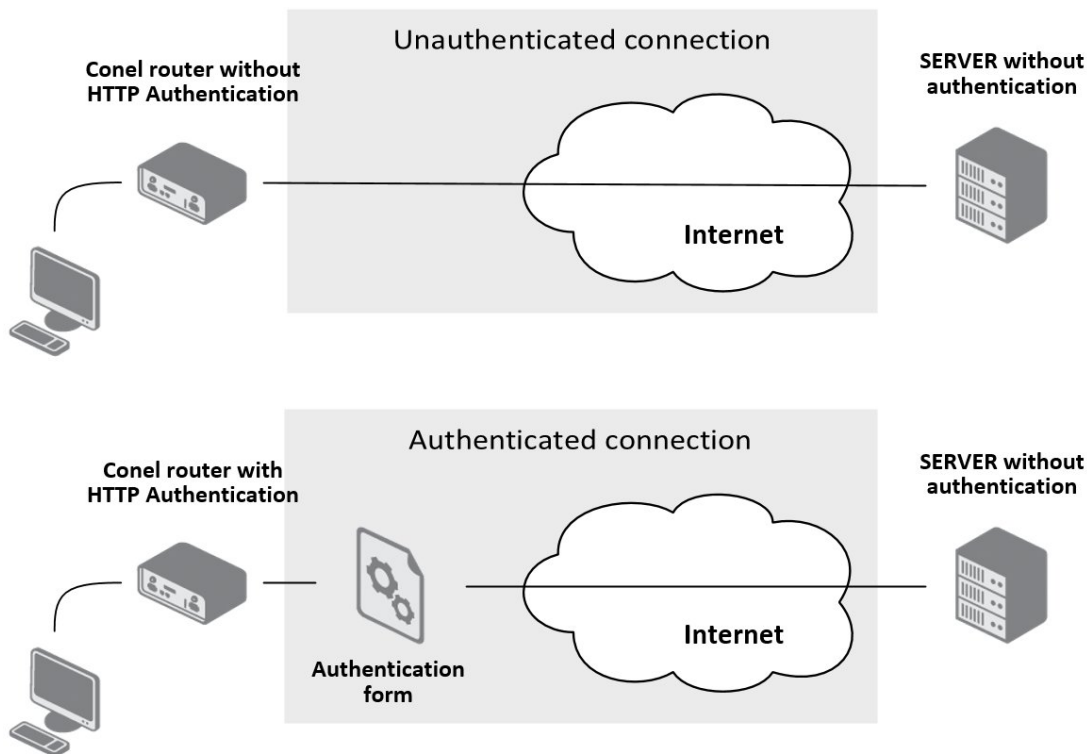

Figure 1: Scheme

For configuration *HTTP Authentication* 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.

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2. Configuration

The actual configuration of the *HTTP authentication* user module configuration is performed via the form on the right of the web interface. The first item in the configuration form – *Enable HTTP authentication* – is used to activate this user module. Other items have the following meaning:

item	Description
Auth Server Listen Port	Port on which authentication takes place
Http Server IP Address	IP address of the server for which authentication is activated
Http Server Listen Port	Port where the server will be opened (usually 80)
Username	Username required for access to the above specified server
Password	Password required for access to the above specified server

Table 1: Description of items

The changes in settings will apply after pressing the *Apply* button.

Figure 2: Web interface

2.1 Sample configuration

The figure below shows the situation in which authentication is required to access the server with IP address 192.168.2.100 and port number 80 (required username is "conel" and password is "secret"). The authentication process will run on port 8080. For authenticated access to the server user need to enter the IP address of the router with this user module and port number on which authentication takes place. Therefore, the complete address can have the following form: 10.0.3.188:8080.

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Figure 3: Sample configuration

3. Recommended literature

[1] Conel: **Configuration manual for v2 routers**
[2] Conel: **Configuration manual for v3 routers**

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