

## WEB2go Whitepaper

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## Notes

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# 1 General Information

## 1.1 Information about this whitepaper

This document describes additional REX product family functions and the settings required for them on the basis of examples. The necessary basic knowledge for dealing with the REX routers and the myREX24 portal application is presumed.

The functions of WEB2go will be described in connection with the following components:

- myREX24 remote maintenance portal
- REX 100 industrial router
- REX 300 industrial router

We have checked the contents of this whitepaper to ensure that they match the hardware and software described. However, System Helmholtz GmbH can assume no liability for any existing differences, as these cannot be fully ruled out. When using your purchased products, please make sure to use the latest version of the manual, which can be viewed and downloaded on the Internet at [www.helmholtz.de](http://www.helmholtz.de).

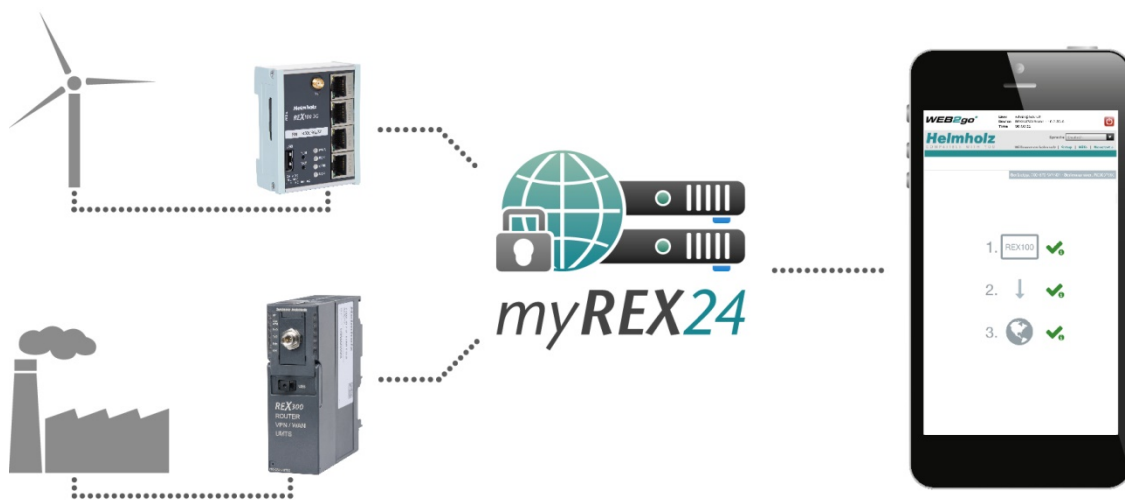


### CAUTION

Configuration, execution, and operating errors can interfere with the proper operation of the REX devices and result in personal injury, as well as property or environmental damage. Only adequately qualified personnel may operate the REX devices!

## 1.2 Description of WEB2go

With WEB2go, machines and systems can be monitored by the go with a smartphone or tablet PC. This easy and mobile web access enables operators to carry out remote diagnostics and call up important system data. Only web servers can be reached via WEB2go. The data are made available as a web visualization via the integrated web server of the REX routers. The websites can also be loaded by other Ethernet devices of the system that are accessible via a REX. Secure access to the web visualization takes place with the HTTPS protocol via the service portal myREX24 and functions with any HTML5-compatible standard browser. No additional software, no special client, and no extra app needs to be installed. Users can simply log in through the myREX24 remote servicing portal with their username and password.



The following component types are available for a WEB2go connection:

**Web server (WEB2go)** - Calling up of websites of an Ethernet device connected to the REX

**Toolbox (WEB2go)** - Access to the toolbox feature of the REX 300 (USB stick is required)

**This device (WEB2go)** - Access to the internal configuration website of the REX

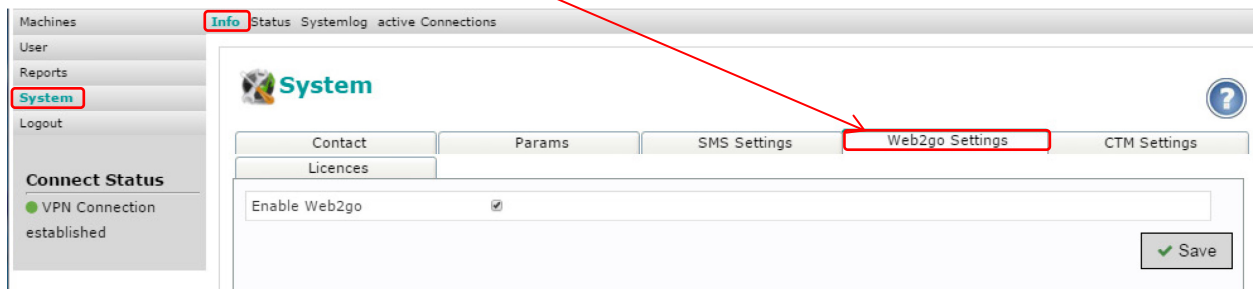
Any number of WEB2go connections can be configured within these component types. However, only one connection can be established per WEB2go license. With X licenses, X can be established simultaneously, or X users can connect simultaneously with the same web interface. A WEB2go license is automatically provided when activating a myREX24 account. Additional WEB2go licenses (term of 1 year as of invoice date) can be ordered later at any time.

## 2 Setting up a WEB2go connection

Using shDIALUP, establish a connection to your account at myREX24.

### 2.1 Activate/deactivate WEB2go

Open → System → Info → Directory "WEB2go settings" Activate (standard) or deactivate WEB2go.

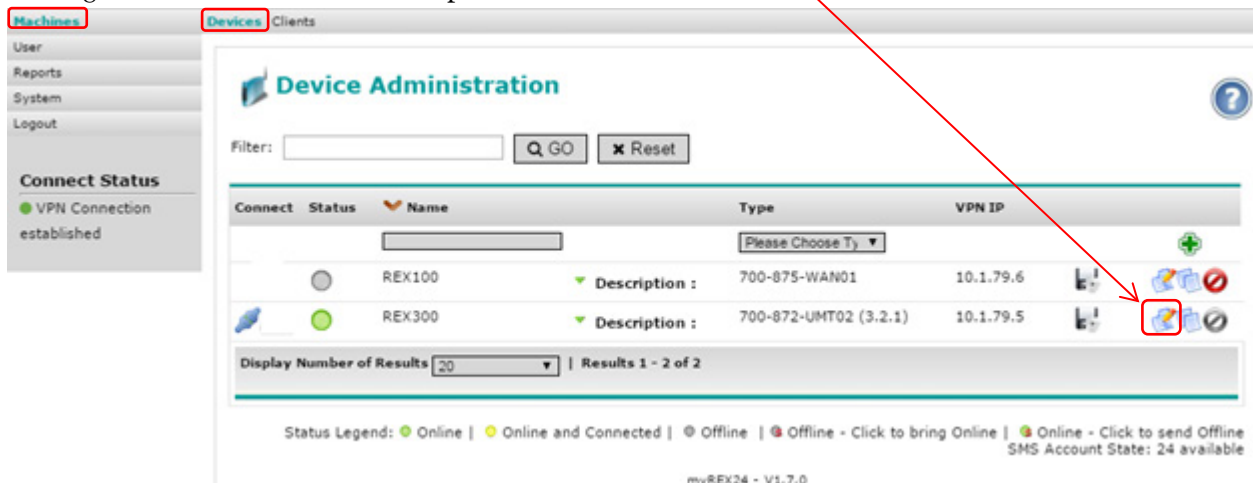


#### NOTE

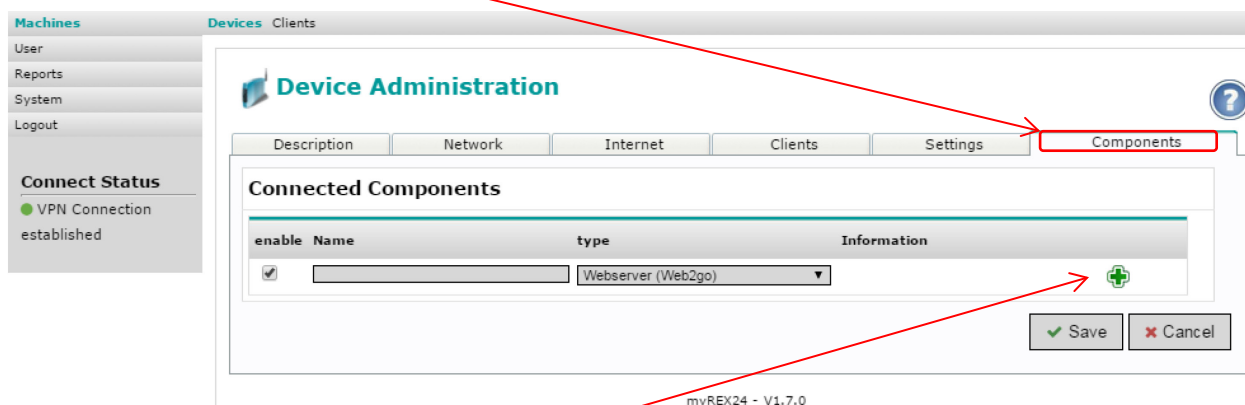
Under the tab "in use / licenses", you can view the status of your WEB2go account and activate the corresponding licenses as required.

### 2.2 Create WEB2go connection

Go to → Machines → Devices - → and select the appropriate "Edit" button of the device for which a WEB2go connection should be set up.



Then open the tab "Components"



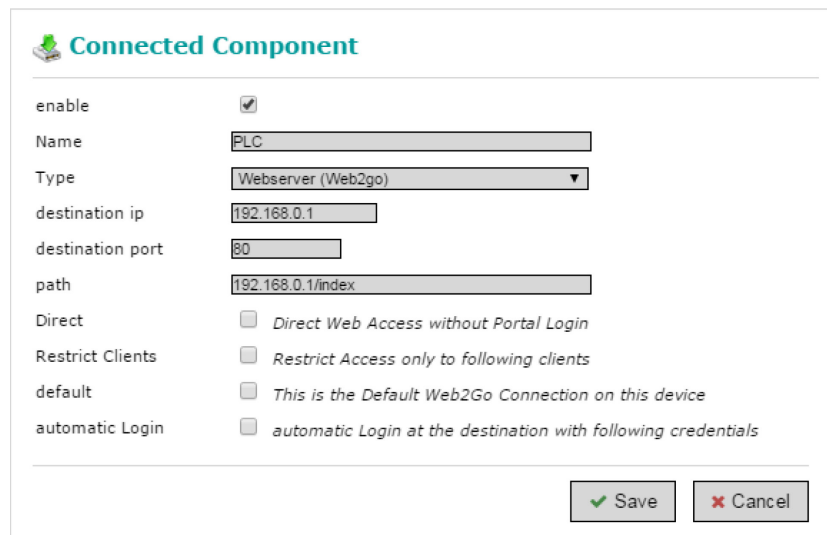
and click on the plus symbol for "Add".

The following input screen opens:

The screenshot shows the 'Connected Component' input screen. It has a title bar with a green icon and the text 'Connected Component'. Below the title bar are several fields: 'enable' with a checked checkbox, 'Name' with an empty text box, 'Type' with a dropdown menu showing 'Webserver (Web2go)', 'destination ip' with an empty text box, 'destination port' with an empty text box, 'path' with an empty text box, 'Direct' with a checked checkbox and the text 'Direct Web Access without Portal Login', 'default' with an unchecked checkbox and the text 'This is the Default Web2Go Connection on this device', and 'automatic Login' with an unchecked checkbox and the text 'automatic Login at the destination with following credentials'. At the bottom right are 'Save' and 'Cancel' buttons.

- **enable:** These components can be activated or deactivated with this.
- **Name:** It a compulsory entry. This entry serves purpose of identification and is at the same time a component of the URL for calling up the components. For this reason only the following characters are permitted:  
0 to 9, A to Z and a to z
- **Type:** The following component types are available for a WEB2go connection:  
Web server (WEB2go)- Calling up of websites of an Ethernet device connected to the REX  
Toolbox (WEB2go) - Access to the toolbox (only REX 300)  
**This device (WEB2go)** - Access to the integrated website of the REX

## 2.2.1 Web server (WEB2go)



**Connected Component**

enable ☒

Name

Type

destination ip

destination port

path

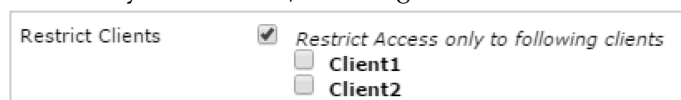
Direct ☐ Direct Web Access without Portal Login

Restrict Clients ☐ Restrict Access only to following clients

default ☐ This is the Default Web2Go Connection on this device

automatic Login ☐ automatic Login at the destination with following credentials

- **Destination IP:** Is a compulsory entry. The IP address of an Ethernet device at the LAN port connected at the REX is entered here.
- **Destination port:** Is a compulsory entry. The port of the web server of the Ethernet device connected to the REX is entered here. In the case of Ethernet devices with an integrated web server, the port can usually be configured. Please note the manufacturer information. The standard http port is 80
- **Path:** This entry is optional. This is used to enter the path for calling up subordinate pages of the device web server (e.g. 192.168.0.1/index).
- **Direct:** The activation of web access without portal login is possible here. With the link [https://WEB2go.myrex24.net/Gerätename@Account/Komponenten\\_Name](https://WEB2go.myrex24.net/Gerätename@Account/Komponenten_Name) (in the example described here: <https://WEB2go.myrex24.net/REX300@muster/PLC/>) you can go directly to the login of the web server of the components (in this example: "PLC") without authentication in the myREX24 portal.
- **Client access:** Define access restriction for clients selected here. This setting is only possible with deactivated "Direct web access". If you have already created clients in your account, a WEB2go connection can also be specified with this.



Restrict Clients ☒ Restrict Access only to following clients

☐ Client1

☐ Client2

- **Standard:** Upon activation, this is the standard WEB2go connection for this device. If several components were created for a device, a link is automatically created to the components that have been defined as the standard connection upon the entry of <https://WEB2go.myrex24.net/Gerätename@Account/> . Only one component can be defined as the standard WEB2go connection.



- **automatic login:** With this setting, access data can be stored on the myREX24 server. The login on the Ethernet end device then takes place automatically.

automatic Login	<input checked="" type="checkbox"/> automatic Login at the destination with following credentials
User	<input type="text" value="helmholz"/>
Password	<input type="password" value="*****"/>
Password Confirmation	<input type="password" value="*****"/>

Upon completion of all entries, the "Save" button must be activated.



#### ATTENTION

When all authentications have been detoured, the web interface can be accessed through this link at all times and without obstructions via WEB2go

### 2.2.2 Toolbox (WEB2go)

A toolbox application already set up and activated in a REX 300 can also be reached via the WEB2go feature.

**Connected Component**

enable	<input checked="" type="checkbox"/>
Name	<input type="text" value="Toolbox"/>
Type	<input type="text" value="Toolbox (Web2go)"/>
destination port	<input type="text" value="81"/>
Direct	<input type="checkbox"/> Direct Web Access without Portal Login
Restrict Clients	<input type="checkbox"/> Restrict Access only to following clients
default	<input type="checkbox"/> This is the Default Web2Go Connection on this device
automatic Login	<input type="checkbox"/> automatic Login at the destination with following credentials

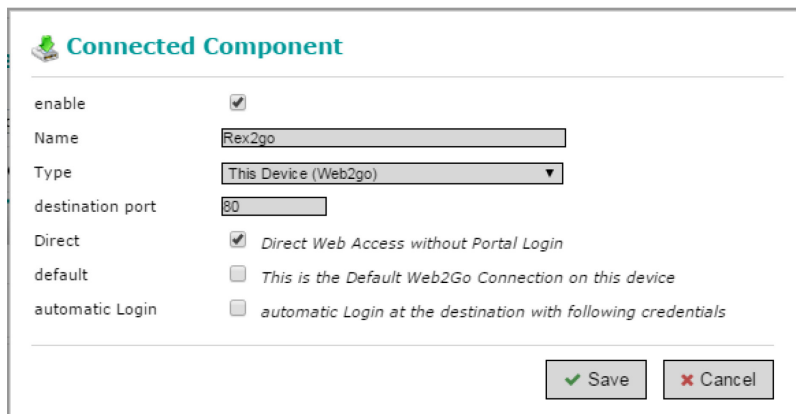
☒ Save
 ☐ Cancel

**Destination port:** Preallocated standard port of the REX 300 toolbox. If another port has been defined for the toolbox in the configuration of the REX 300, this must be entered here. You can find the set port in the device settings of the REX under  
 →Settings → Extras → Toolbox (Web2go):

Description	Network	Internet	Clients	Settings	Components
LUA <b>Toolbox (Web2go)</b>					
System	<b>Toolbox (Web2go)</b> Toolbox active <input type="checkbox"/>				
Network	Listen on Port <input type="text" value="81"/>				
Serial	Toolbox store data on <input type="text" value="USB"/>				
Security	... store on USB folder ... <input type="text" value="/db"/>				
Extras	<input checked="" type="checkbox"/> Save <input type="checkbox"/> Cancel				
Passwords					

The descriptions of the other settings correspond to those of the web server (WEB2go). Upon completion of all entries, the "Save" button must be activated.

### 2.2.3 This device (WEB2go)

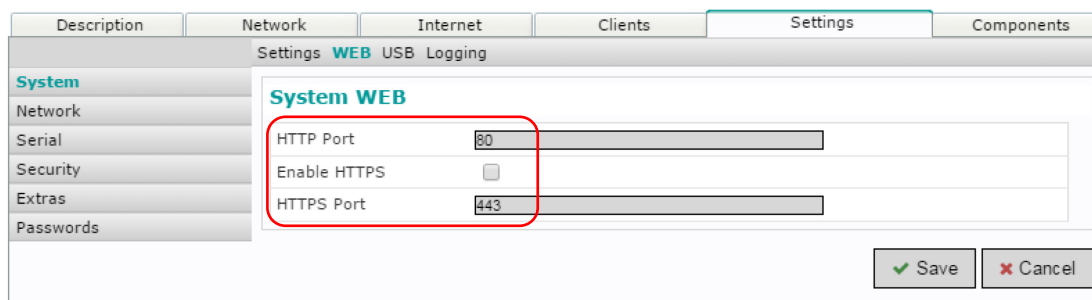


The screenshot shows a configuration window titled "Connected Component" with a green icon of a person. It contains the following fields and options:

- enable**: ☒
- Name**: Text field containing "Rex2go"
- Type**: Dropdown menu showing "This Device (Web2go)"
- destination port**: Text field containing "80"
- Direct**: ☒ *Direct Web Access without Portal Login*
- default**: ☐ *This is the Default Web2Go Connection on this device*
- automatic Login**: ☐ *automatic Login at the destination with following credentials*

At the bottom right are two buttons: "Save" (with a green checkmark icon) and "Cancel" (with a red X icon).

- **Destination port**: Preallocated standard port of the REX web interface. If another port has been defined for the web interface in the configuration of the REX, this must be entered here. You can find the set port in the device settings of the REX under **→Settings → System → Web**



The screenshot shows a settings menu with tabs: Description, Network, Internet, Clients, Settings, and Components. The "Settings" tab is active, showing sub-tabs: Settings, WEB, USB, and Logging. The "WEB" sub-tab is selected, displaying the "System WEB" configuration:

- HTTP Port**: Text field containing "80" (highlighted with a red box)
- Enable HTTPS**: ☐
- HTTPS Port**: Text field containing "443" (highlighted with a red box)

At the bottom right are two buttons: "Save" (with a green checkmark icon) and "Cancel" (with a red X icon).

The descriptions of the other settings correspond to those of the web server (WEB2go). Upon completion of all entries, the "Save" button must be activated.



#### NOTE

Any number of connections can be configured.

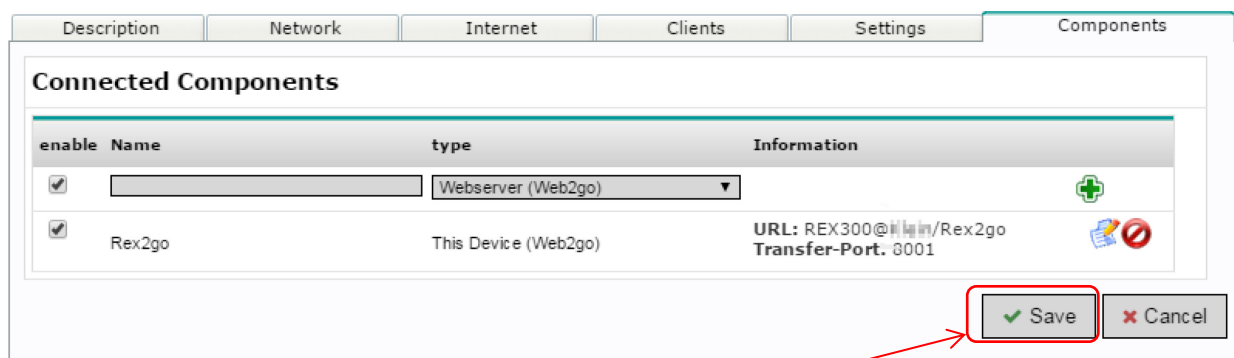
## 2.3 Transfer configuration to the device



### NOTE

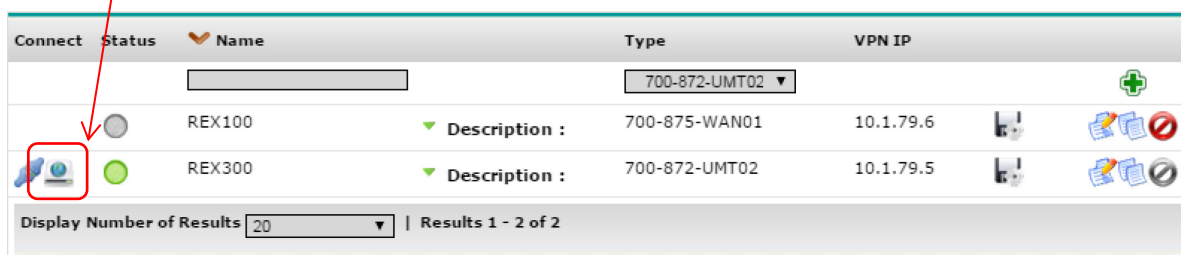
The transfer of the configuration to the REX device is the prerequisite for a WEB2go connection.

In the component window you can now see the new connection, including the information as to how the corresponding URL must be entered in a browser window:



In order to accept, the changes must be saved and transferred to the device. The previously named WEB2go settings must be stored in the REX hardware with one of the three possible transfer methods. You can find a detailed description of this in the Quick Start Guide for the product.

This symbol shows that the selected device is ready for a WEB2go connection:




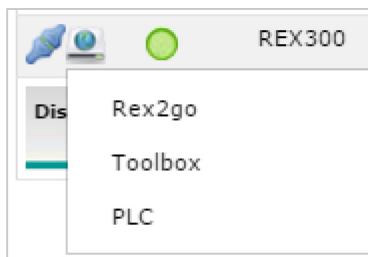
### 3 Create connection with a component

You can create a WEB2go connection in two different ways. Via the myREX24 portal or via a https invocation to the web address.

#### 3.1 VPN connection via myREX24

Following the successful transfer to and acceptance in the device, the WEB2go connection button for the device is shown in the user interface, and a WEB2go connection can thus be established via the portal.

Click on the symbol  and choose one of the configured WEB2go connections with a mouse click.



The status of an active WEB2go connection is shown in the portal as follows:



#### 3.2 https connection via web browser

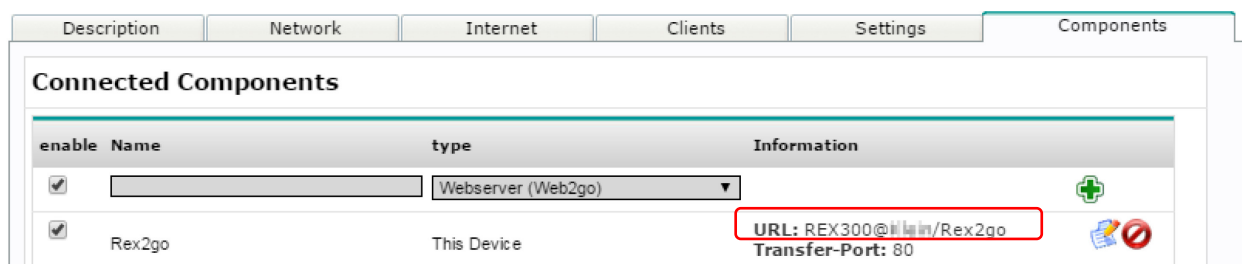


##### NOTE

The URL for a WEB2go connection via https is: <https://WEB2go.myrex24.net/>.

With it you go to the portal login. No shDIALUP is necessary to connect with the portal in this way.

The URL can be easily copied in the device settings under components.

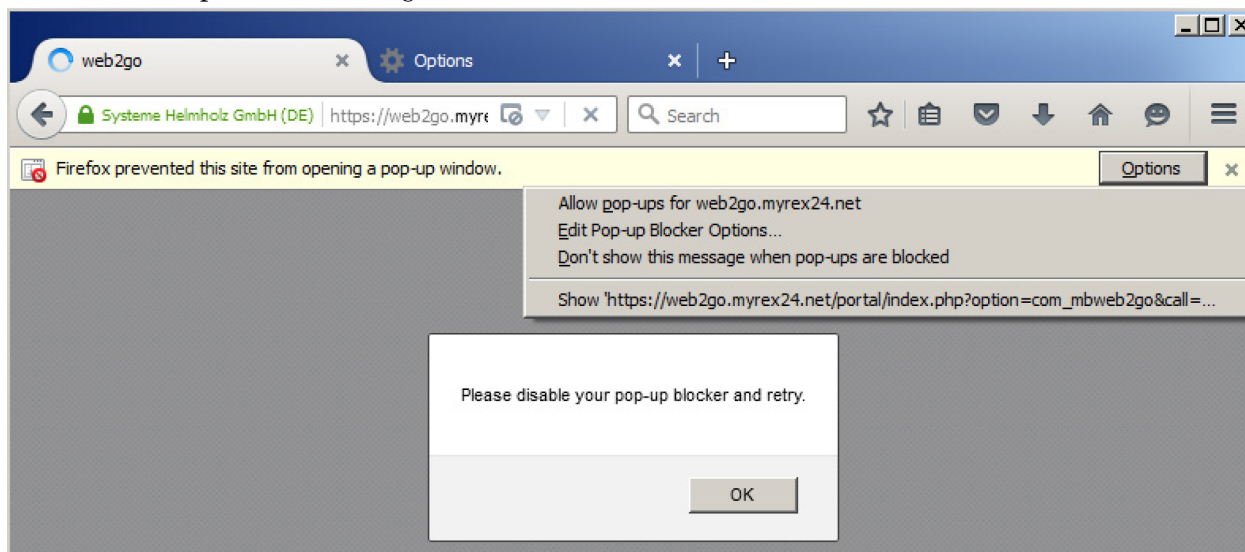


In combination with the basic URL, the complete link must be entered in the URL of the browser as follows: <https://WEB2go.myrex24.net/REX300@muster/WEB2go>

### 3.2.1 Pop-up windows

All WEB2go sessions are listed in a pop-up window. A pop-up blocker is generally activated by default as a standard in any browser. For this reason you should add an exception to the pop-up blocker.

Here is an example for the settings in the Firefox browser.



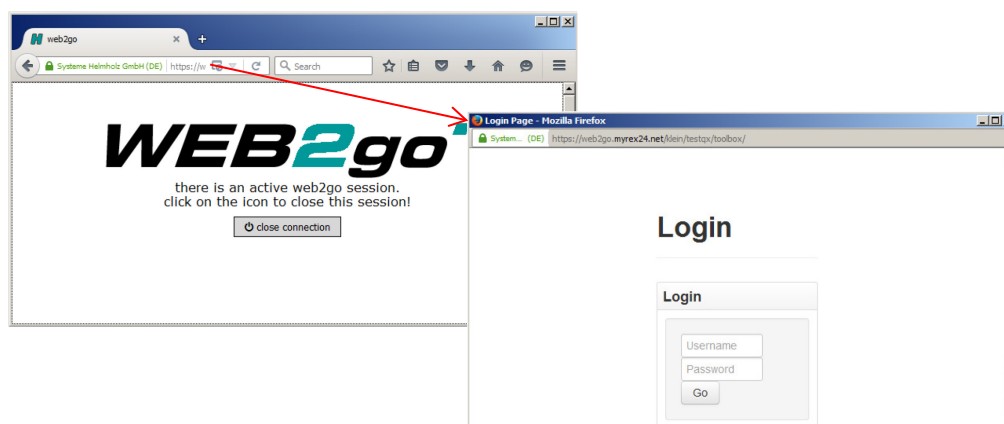
#### ATTENTION

Completely deactivating the pop-up blocker is not recommended!

### 3.2.2 Execution in the browser

The respective component can now be reached with a PC, smartphone or tablet through a secure https connection via WEB2go. We have prepared an example for you on our customer test system with a toolbox component. The URL is invoked as follows:

*https://WEB2go.myrex24.net/WAN02@guest/WEB2go*



Login of the test system toolbox:

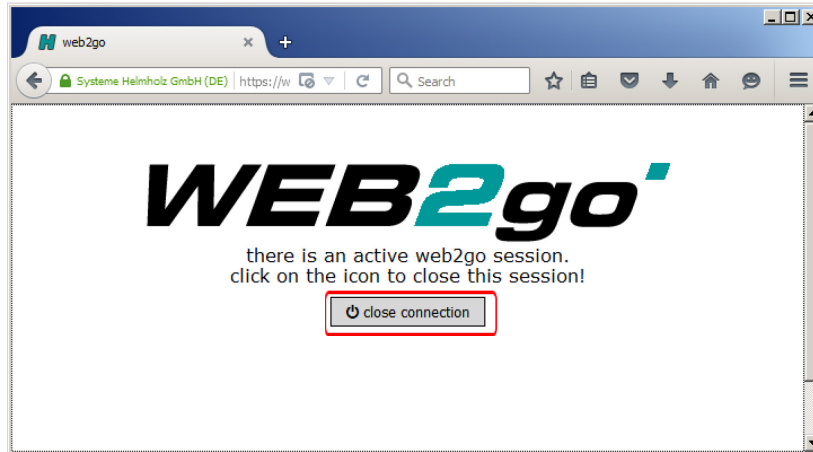
Username: guest  
Password: admin

### 3.3 Ending a WEB2go session

- In order to end a WEB2go session, simply close the browser window.



- The connection can also be closed in the main window of the browser with a button.



- When a connection is established from the portal, the session can be ended by clicking on this symbol.

