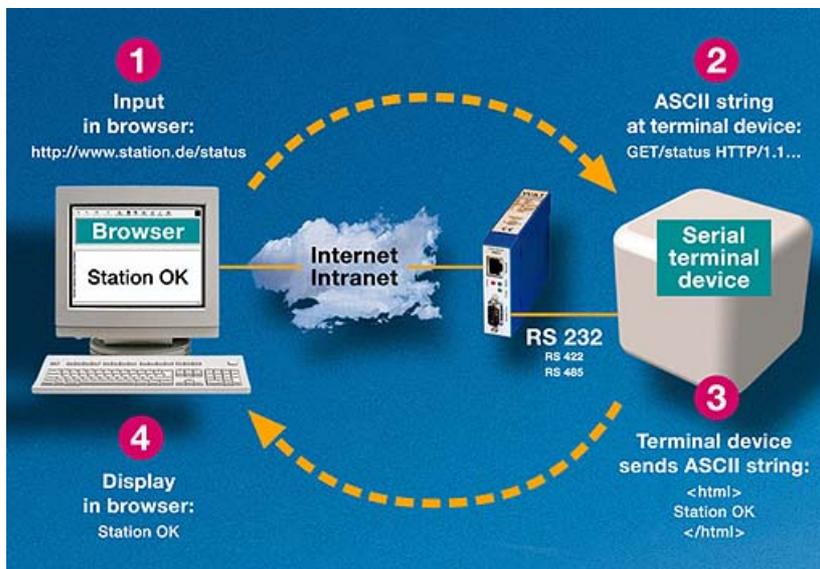


Application for the serial Com-Server:

Put your own serial device onto the Web



This is now possible for everyone, thanks to the sockets integrated in the Com-Server!

When a network connection for his testing equipment became an issue for the programmer, he estimated that it would take at least one year to develop a suitable Ethernet TCP/IP stack. Luckily, his boss knew about the small W&T Com-Server module with which this task could be reduced to the modification of a few ASCII strings of the HTTP protocol.

Details

Your serial device must only be capable of recognizing the short ASCII strings of the HTTP protocol and of selecting a response corresponding to the "file names" contained in the strings. This response consists of a standard HTML file that can be generated by means of a simple ASCII editor. That's all that is needed to make your device web-capable!

The HTTP request

The request generated by the browser always consists of a request line that might be followed by additional lines. The end of an HTTP header is indicated by a blank line.

The entry of `http://www.geraet.de/status` in the browser results in the following HTTP request at the serial side of the Com-Server:

```
GET<Space>/status<Space>HTTP/1.1<CRLF>
[Option 1]<CRLF>
[Option 2]<CRLF>
[Option n]<CRLF>
```

Therefore, you must only inspect the beginning of the first line. The rest can simply be ignored.

The HTTP reply

The HTTP server is able to generate the desired response by analyzing the forwarded ASCII string. The HTTP specification ensures that the generation and return of an HTTP header is not required so that the requested data can be sent without delay. The data must be transferred in HTML format to be viewed in the browser. A basic response might for example look like this:

```
<html> Station OK </html>
```

With this method, all functions of a web server can be implemented. From a simple status query or remote configuration to complex live visualization and remote updates - all you need is a standard web browser on the client side.

For all who wish to learn more about this, we offer a Visual Basic [↓ demo program](#) (self-extracting ZIP file, 38kB) [↓](#) and a [detailed documentation](#) in PDF format (43kB).

[We are available to you in person:](#)

Wiesemann & Theis GmbH
Porschestra. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

© Wiesemann & Theis GmbH, subject to mistakes and changes: Since we can make mistakes, none of our statements should be applied without verification. Please let us know of any errors or misunderstandings you find so that we can become aware of and eliminate them.

[Data Privacy](#)