

## myUTN: TCP and UDP Ports

### What Is a Port?

Ports are address components used to match data packets to an application or service. In combination with an IP address and the designated transport protocol (TCP, UDP, etc.) they make up a unique address.

Ports are identified by consecutive numbers, the port number. A port number is 16-bit number, i.e. there are 65535 ports. Port numbers are managed by IANA (Internet Assigned Numbers Authority) and divided as follows:

- 0–1023            System ports (also known as 'well known ports'). They are reserved for certain services as defined in RFC 3232.
- 1024–49151    Ports that may be assigned upon request by manufacturers.
- 49152–65535   Dynamic (or private) ports. They are allocated dynamically by the operating system

### Which Ports Do the myUTN Products Use?

For security reasons ports are often blocked, e.g. with help of a firewall. Access is therefore denied. This means however, that the function associated with the port number can no longer be used.

myUTN products use different protocols and ports for the UTN (USB to Network) functionality. In order use UTN in its entire functional range, the following ports must be open:

| Function  | Protocol (Application) | TCP/IP Port       | UDP Port    |
|---|------------------------|-------------------|-------------|
| UTN communication (UTN port):<br>Data transfer between SEH UTN Manager (on the client) and the UTN server.  | UTN                    | 9200 <sup>1</sup> | –           |
| Encrypted UTN communication (UTN SSL port):<br>The Data transfer between SEH UTN Manager (on the client) and the UTN server is encrypted via SSL/TLS. | UTN SSL                | 9443 <sup>1</sup> | –           |
| Communication between the service or daemon 'SEH UTN Service' and the UTN bus driver.   | UTN                    | 9300,<br>9301     | –           |
| Requesting USB devices which are occupied by other users. (SEH UTN Manager)   | UTN                    | 9310              | –           |
| Connection to the myUTN Control Center via HTTP.  | HTTP                   | 80                | –           |
| Encrypted connection (SSL/TLS) to the myUTN Control Center via HTTPS.   | HTTPS                  | 443               | –           |
| SEH UTN Manager search for UTN servers in the network.  | SLP                    | –                 | 427         |
| All SNMP based features of the UTN server and SEH UTN Manager. For example the query of the UTN port used or event notifications via SNMP trap.       | SNMP                   | –                 | 161,<br>162 |

<sup>1</sup> If required, the port can be changed; see myUTN User Manual (available at <http://www.seh-technology.com/services/downloads.html>).