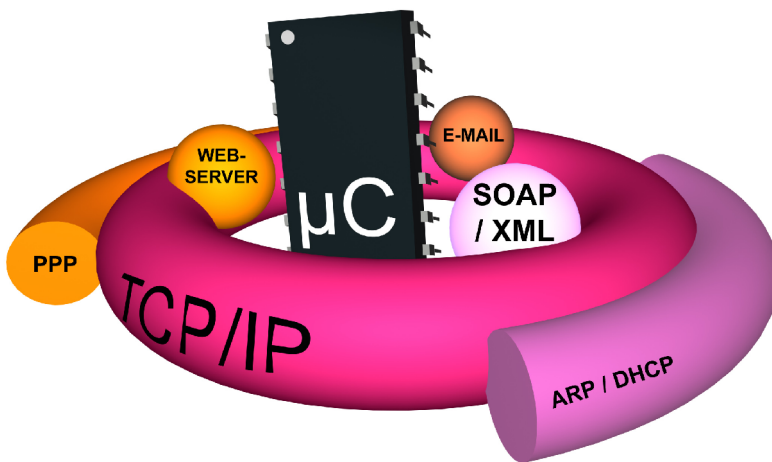


## SOAP embedded 1.0

### Machine communications over the Internet

The sevenstax SOAP module (Simple Object Access Protocol) was developed to make the data exchange between embedded systems and existing SOAP servers as easy as possible. An application which integrates the sevenstax SOAP module does not have to know anything about SOAP mechanisms. The only thing to do is to specify the templates of the application specific sending XML (eXtensible Markup Language) parts and the handler functions that are called when received XML code is parsed. The module can be used as SOAP client and as SOAP server.



The SOAP module uses the sevenstax XML parser & generator module. It supports the HTTP methods to communicate with standardised web servers.

In the SOAP module there are defined the SOAP specific namespaces (tags, attributes, etc.). It is implemented the request/response mechanisms including the error handling.

To integrate the SOAP module into the application, the user has to define the application specific SOAP

properties, XML namespaces, XML templates for the requests and handler routines for the responses.

#### Memory & System Requirements:

ROM: **19 kbyte (incl. XML)**  
RAM: **0,8 kbyte (incl. XML)**

#### What you get:

- well documented source code
- detailed API-documentation
- sample code
- documented demo/sample projects (platform dependent)

#### Characteristics:

- small memory footprint
- suitable for use in micro controllers from 8...32 Bit
- asynchronous performance without OS multithreading capability
- enables embedded systems to use web services which are working with SOAP technology
- easy integration of the client module in existing software
- supports the definition of application specific SOAP properties
- supports the definition of namespaces and templates for XML generation and handler routines for XML parser
- portability - ANSI C
- streaming HTTP/XML generator, i.e. the data to sent is not buffered but is delivered in small packets
- streaming HTTP/XML parser, i.e. received data is evaluated during receipt to minimize the required buffer
- independent of an operating system

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