

# Webservice Metering, Accounting and Billing: Technologischer Hintergrund

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# Standards

- ▶ XML RPC <http://www.xmlrpc.com/spec>
- ▶ SOAP <http://www.w3.org/TR/soap/>
- ▶ WSDL <http://www.w3.org/TR/wsdl>,  
<http://www.w3.org/TR/wsdl20/>
- ▶ UDDI <http://www.uddi.org/>

# Werkzeuge

- ▶ Java
  - ▶ JWSDP <http://java.sun.com/webservices/jwsdp/>
  - ▶ AXIS2 <http://ws.apache.org/axis2/>
- ▶ Python
  - ▶ Python Web Services  
<http://pywebsvcs.sourceforge.net/>
- ▶ C#  
<http://www.c-sharpcorner.com/WebServices.asp>

# Beispiele

- ▶ Amazon

```
http://webservices.amazon.com/  
    AWSECommerceService/AWSECommerceService.wsdl
```

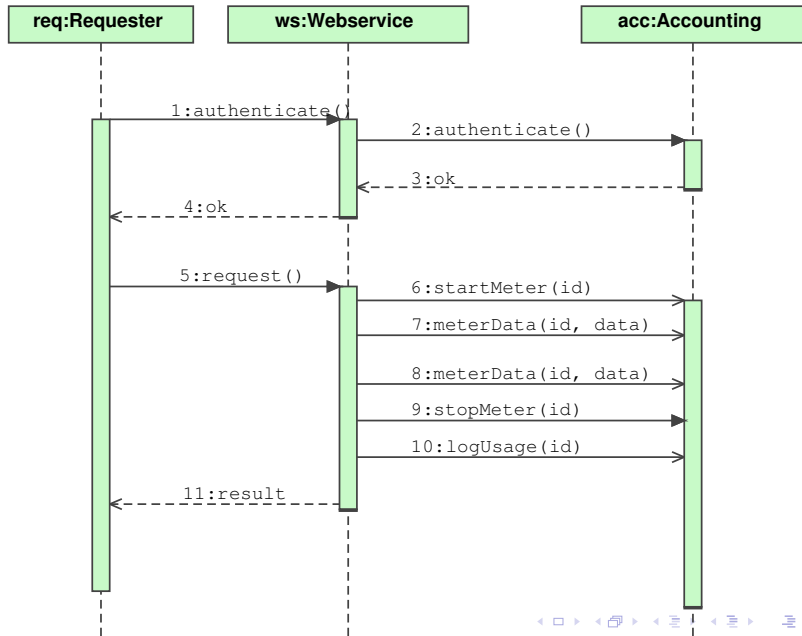
- ▶ Google

```
http://api.google.com/GoogleSearch.wsdl  
  
http://www.w3.org/2004/06/  
    03-google-soap-wsdl.html
```

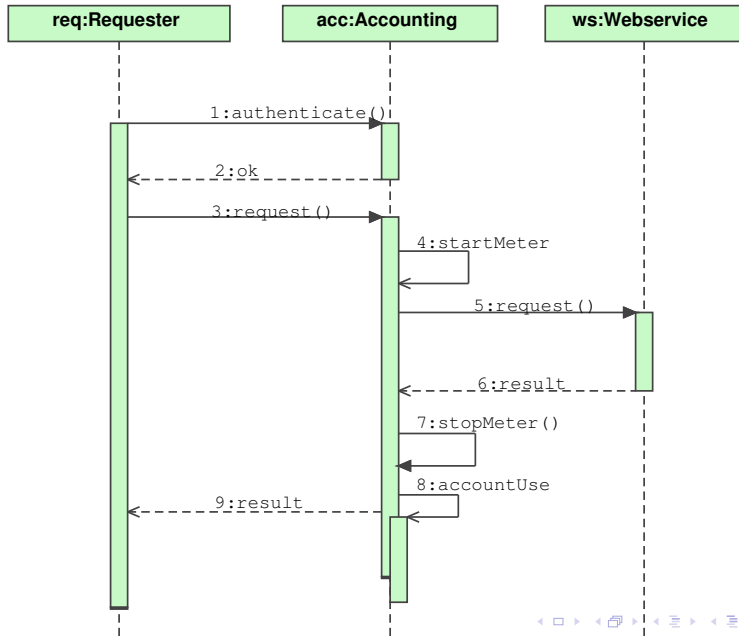
- ▶ National Weather Service

```
http://www.weather.gov/forecasts/xml/DWMLgen/  
    wsdl/ndfdXML.wsdl
```

# Accounting Service: Mögliche Interaktionen



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# Defizite

- ▶ Keine gemeinsame Abrechnung mehrerer request/response Zyklen
- ▶ Logout nicht berücksichtigt
- ▶ Keine Abrechnungs-Policy, sondern durch Architektur definierte Abrechnungsart
- ▶ Keine Ankündigung und Abschätzung entstehender Kosten
- ▶ uvm. . .