

http://tinyos.stanford.edu/tinyos-wiki/index.php/BLIP_2.0_Tutorial
http://tinyos.stanford.edu/tinyos-wiki/index.php/CoAP_-13

1. Basisstation mit PppRouter programmieren.

```
cd /opt/tinyos-2.x/apps/PppRouter/  
make ucmini blip install  
avrdude -cavr109 -pm128rfa1 -P/dev/ttyUSB0 -Uflash:w:build/ucmini/main.srec:a -b57600  
sudo pppd debug passive noauth nodetach 115200 /dev/ttyUSB0 nocrtscts nocdtrcts  
lcp-echo-interval 0 noccp noip ipv6 ::23,::24  
  
sudo ifconfig ppp0 add fec0::100/64
```

2. CoAP-Serverknoten mit CoapBlip programmieren (Bsp. mit ID 7 und 8)

```
cd /opt/tinyos-2.x/apps/CoapBlip  
make ucmini blip coap install.7  
avrdude -cavr109 -pm128rfa1 -P/dev/ttyUSB1 -Uflash:w:build/ucmini/main.srec.out-7:a  
-b57600
```

3. Verbindungstests

```
ping6 fec0::7  
nc6 -u fec0::1 2000  
route  
  
cd $TOSROOT/support/sdk/c/coap/examples  
./coap-client coap://[fec0::7]/st  
./coap-client coap://[fec0::8]/l  
./coap-client -m put coap://[fec0::8]/l -e 7  
  
Firefox:  
coap://[fec0::7]:5683/.well-known/core
```

4. Start des CoAP-Proxies

```
cd /opt/Californium/run/  
java -jar cf-proxy-0.18.2-SNAPSHOT.jar
```

5. Test des CoAP-Proxies (Firefox)

```
http://localhost:8080/proxy/coap://[fec0::7]:5683/.well-known/core  
http://localhost:8080/proxy/coap://[fec0::7]:5683/st
```

6. openHAB starten

```
cd /opt/openhab/openHAB1.3.1/  
sh start.sh  
  
openHAB-Designer:  
cd /opt/openhab/openHABDesigner1.3.1  
./openHAB-Designer
```

Firefox: <http://localhost:8082/openhab.app?sitemap=coapWSN>