## Example unicast in Contiki

```
// the process control block includes variable name for the process and human readable text
name
PROCESS(example_unicast_process, "Example unicast");
//the example unicast process is to be automatically started when Contiki boots, or, if this
module is
compiled as a loadable module, when the module is loaded.
AUTOSTART_PROCESSES(&example_unicast_process);
// Print out an address of sender
static void recv_uc(struct unicast_conn *c, const rimeaddr_t *from)
{
       printf("unicast message received from %d.%d\n",
       from->u8[0], from->u8[1]);
}
// callback function
static const struct unicast_callbacks unicast_callbacks = {recv_uc};
// allocate memory for struct_unicast by defining as static
static struct unicast_conn uc;
PROCESS_THREAD(example_unicast_process, ev, data)
{
// Close unicast connection when a process exits
       PROCESS_EXITHANDLER(unicast_close(&uc);)
//Define the beginning of a process
       PROCESS_BEGIN();
// sets up a unicast connection with 3 parameters: unicast_struct, uint16_t channel and
       unicast callback
```

```
unicast_open(&uc, 146, &unicast_callbacks);
//Start the infinitive loop
       while(1) {
// declare etimer for an event
                static struct etimer et;
                rimeaddr_t addr;
// set etimer = 1 second
               etimer_set(&et, CLOCK_SECOND);
// process waits for an event generated when etimer is expired
               PROCESS_WAIT_EVENT_UNTIL(etimer_expired(&et));
// Copy from external data into the packetbuf
                packetbuf_copyfrom("Hello", 5);
               addr.u8[0] = 1;
               addr.u8[1] = 0;
// Compare two Rime addresses. Return non-zero if the addresses are the same, zero if
//they are different
                if(!rimeaddr_cmp(&addr, &rimeaddr_node_addr)) {
                       unicast_send(&uc, &addr);
               }
       }
       PROCESS_END();
}
```