



Rikäpper: Rimout Kontroll

Säimen & Flori

INTRO HS13

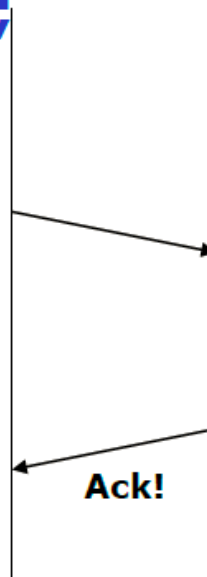


"10->11" 'x'		value
AddrInfo	kind	payload

SendPacket("x37");



"10,11,x37"



ReceivePacket()



dAddr == "11"?



Extract payload

init

```
static portTASK_FUNCTION(RadioTask, pvParameters) {
    (void)pvParameters; /* not used */
    (void)RADIO_PowerUp();
    for(;;) {
        (void)RADIO_Process();
        FRTOS1_vTaskDelay(5/portTICK_RATE_MS);
    }
}

void RNETA_Init(void) {
    RSTACK_Init(); /* initialize stack */
    if (RAPP_SetMessageHandlerTable(handlerTable) != ERR_OK) { /* assign application message handler */
        for(;;){} /* error */
    }
    if (RAPP_SetThisNodeAddr(RNWK_ADDR_BROADCAST) != ERR_OK) { /* set a default address */
        for(;;){} /* error */
    }
    if (FRTOS1_xTaskCreate(
        RadioTask, /* pointer to the task */
        (signed char *)"Radio", /* task name for kernel awareness debugging */
        configMINIMAL_STACK_SIZE, /* task stack size */
        (void*)NULL, /* optional task startup argument */
```

receive data

```
static const RAPP_MsgHandler handlerTable[] =
{
    #if PL_HAS_RSTDIO
        RSTDIO_HandleStdioRxMessage,
    #endif
    #if PL_HAS_REMOTE
        REMOTE_HandleRemoteRxMessage,
    #endif
        HandleDataRxMessage,
        NULL /* sentinel */
};

static uint8_t HandleDataRxMessage(RAPP_MSG_Type type, uint8_t size, uint8_t *data,
                                   RNWK_ShortAddrType srcAddr, bool *handled, RPHY_PacketDesc *packet) {
    (void)size;
    (void)packet;
    switch(type) {
        case RAPP_MSG_TYPE_DATA: /* <type><size><data */
            *handled = TRUE;
            MyVal = *data; /* get data value */
            return ERR_OK;
        default:
            break;
    } /* switch */
    return ERR_OK;
}
```

send data

```
static uint8_t HandleDataRxMessage(RAPP_MSG_Type type, uint8_t size, uint8_t *data,
                                   RNWK_ShortAddrType srcAddr, bool *handled, RPHY_PacketDesc *packet) {
    (void)size;
    (void)packet;
    switch(type) {
        case RAPP_MSG_REQUEST_DATA: /* <type><size><data */
            *handled = TRUE;
            accelX = ACCEL_GetX(); /* get accelerometer value */
            return RAPP_SendPayloadDataBlock(&accelX, 2, RAPP_MSG_TYPE_RESPONSE, srcAddr);
        default:
            break;
    } /* switch */
    return ERR_OK;
}
```

Adios Amigos

