Receiver.cpp 05/12/08 9:52 AM

```
#include "Receiver.h"
//
//DWORD WINAPI Receiver::thread(PVOID pvoid){
    Receiver *instance = (Receiver*)pvoid;
//
//
//
    static HANDLE hEvent[
//
//
//
    bool running = true;
//
//
   hEvent[0] = CreateEvent(NULL, TRUE, FALSE, TEXT("START EVENT"));
   hEvent[1] = CreateEvent(NULL, TRUE, FALSE, TEXT("DIE EVENT"));
//
//
//
   while(running){
//
        if (WaitForMultipleObjects(2, hEvent, FALSE, INFINITE) == 1);
//
//
        instance->run();
// }
// return 0;
//}
void Receiver::run() {
    Packet packet;
    int tCount = 0;
    pSerial_->sendPacket(Packet(ACK0));
    while(true){
        // TODO: check received packet vs RVI mode order
        if(pBuffer_->danger()) {
            enterRVIMode();
        }
        // Get Packet
        try{
            packet = pSerial_->getPacket(TIMEOUT_TIME);
        }catch(const int i) {
            ENSURE_EXCEPTION(i, TIMEOUT_EXCEPTION);
                throw GOTO_RESET_EXCEPTION;
        }
        // Check Packet
        if (!packet.valid()) {
            pSerial_->sendPacket(Packet(NACK));
        } else {
            if (!packet.cmd()) {
```

```
pGUI_->DisplayReceivedText(packet.data().c_str());
                pSerial_->sendPacket(Packet(ACK1));
                continue;
            } else {
                if(packet.flags() == NTS) {
                    throw GOTO_IDLE_EXCEPTION;
                }
            }
        }
    }
}
void Receiver::enterRVIMode(){
    int flag;
    int tCount = 0;
    pSerial_->sendPacket(Packet(RVI));
    while(true){
        try{
            flag = pSerial_->getPacket(TIMEOUT_TIME).flags();
            if (flag == ACK1) {
                break;
            }
        }
        catch(int i){
            ENSURE_EXCEPTION(i, TIMEOUT_EXCEPTION);
                throw GOTO_RESET_EXCEPTION;
        }
    }
    while(!(pBuffer_->safe())) {
        pSerial_->sendPacket((pBuffer_->peek()));
        pBuffer_->pop();
    if(pBuffer_->safe()) {
        throw GOTO_IDLE_EXCEPTION;
    }
}
```