

# Tutorial for Snapshot Scanning

You want to get some data from the scanner quickly. Here's how:

1. Call `jsInitialize()` if the Joescan API is statically linked.
2. Open a connection using `jsOpenConnection()`.
3. Save the parameters using `jsSendParameterFileToScanner()` in case a scanner has been swapped out.
4. Get profiles using `jsGetProfile()`.
5. Close the connection using `jsCloseConnection()`.

```

#define JCAM_STATIC_LIB
#include <string>
#include <stdio.h>
#include "jcam_dll.h"

using namespace joescan;

int main(int argc, char **argv)
{
    if(jsInitialize() == FALSE)
    {
        printf("Could not initialize TCP\IP communications.\n");
        return -1;
    }

    std::string ip("192.168.1.205");
    if(argc > 1)
        ip = argv[1];

    JCONNECTION jc = jsOpenConnection(ip.c_str());
    if(jc == 0)
    {
        printf("Could not open connection to %s.\n", ip.c_str());
        return -1;
    }

    switch(jsSendParameterFileToScanner(jc, "param.dat"))
    {
        case SCANNER_FAILURE:
            printf("Lost connection.\n");
            jsCloseConnection(jc);
            jc = 0;
            return -1;
        case OPERATION_FAILURE:
            for(i = 0; i < jsGetNumberOfErrorMessage(jc); i++)
                printf("%s\n", jsGetErrorMessage(jc, i));
            jsCloseConnection(jc);
            jc = 0;
            return -1;
        default:
            printf("Sent parameters successfully.\n");
    }

    jsProfile profile;

    while(PLC.isLogVisible())
    {
        switch(jsGetProfile(jc, &profile))
        {
            case 0:
                logModel.addProfile(profile);
                break;
            case PROFILE_UNAVAILABLE:
                //In normal mode, this return value is impossible.
                printf("PROFILE_UNAVAILABLE\n");
                break;
            case INVALID_PARAMETER:
                printf("INVALID_PARAMETER\n");
                jsCloseConnection(jc);
                jc = 0;
                return -1;
            case SCANNER_FAILURE:
                printf("SCANNER_FAILURE\n");
                jsCloseConnection(jc);
                jc = 0;
                return -1;
        }
    }

    optimizer.fullyOptimize(logModel);
    jsCloseConnection(jc);
    jc = 0;
    return 0;
}

```

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