

Remote Debugging a Windows Mobile DLL

zkBrowser (zetakey browser)

Assumed zetakey browser is installed to \zkBrowser on the device:



Create a directory “plugins” for your custom plugin DLL

Changed env.txt to point to the plugins sub dir:

ZK_PLUGIN_PATH

plugins

ZK_DEBUG_LOG

1

ZK_PLUGIN_ENABLE

1

ZK_DISABLE_JS

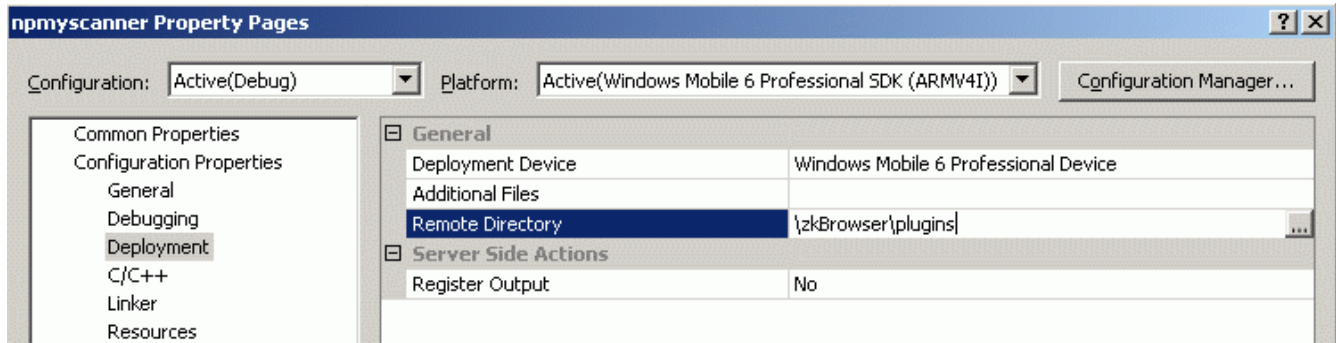
0

ZK_DRAW_DBUFF

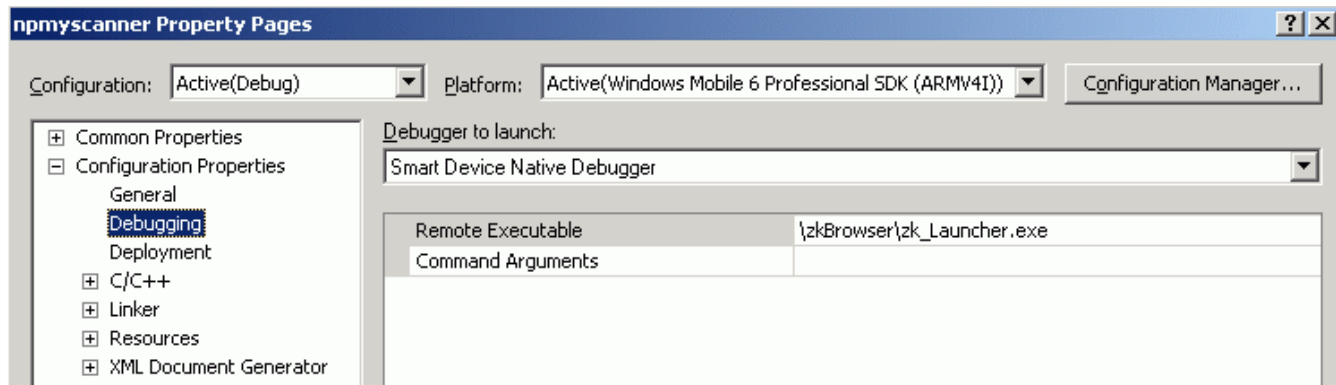
0

...

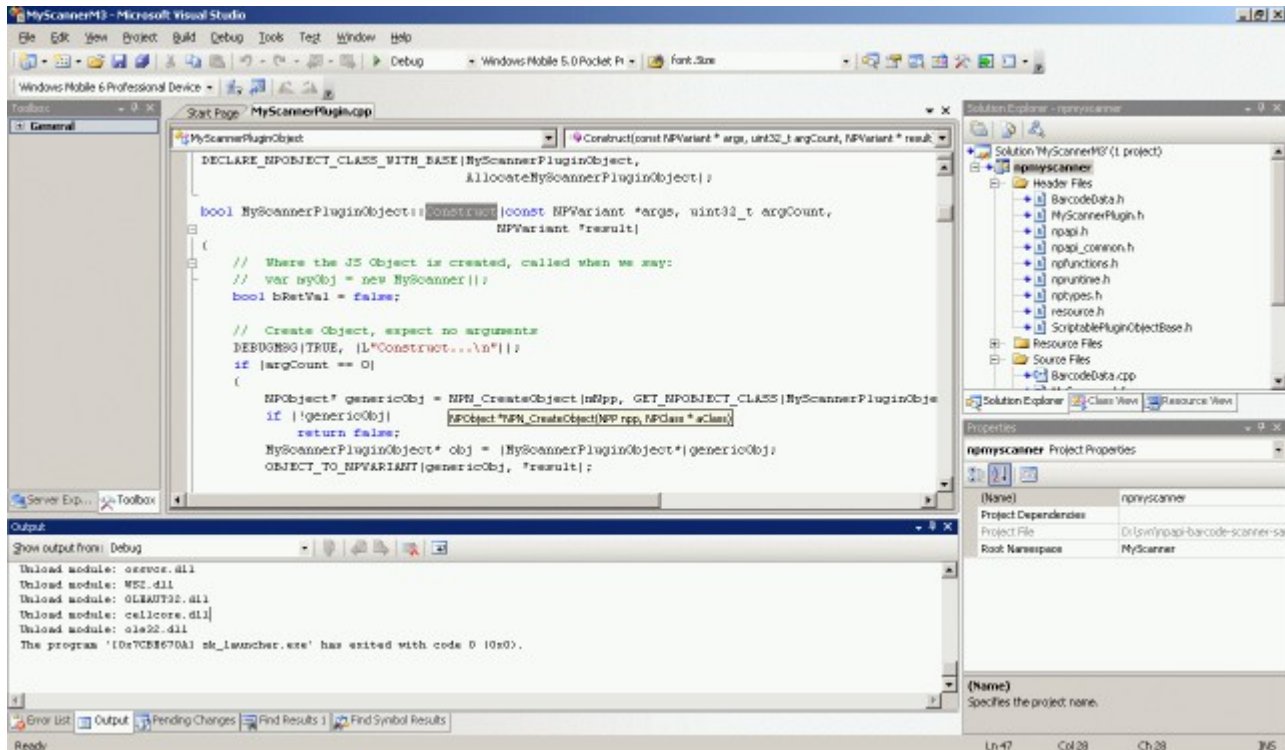
In Visual Studio DLL project set the deployment dir to zkBrowser\plugins dir:



In Visual Studio set the Debugging Remote Executable to the application that loads the DLL: here “\\zkBrowser\\zk_launcher.exe”.



Then RightClick the project and select Debug or select Debug-Start Debugging. Ensure you have the Debug view (Output) on screen:



And then see the debug oputput...

```
Load module: zk_launcher.exe
Load module: WININET.dll.0409.MUI
Load module: WININET.dll
Load module: commctrl.dll.0409.MUI
Load module: commctrl.dll
Load module: aygshell.dll
Load module: SHLWAPI.dll.0409.MUI
Load module: SHLWAPI.dll
Load module: osshvcs.dll
Load module: iphlapi.dll
Load module: WS2.dll
Load module: OLEAUT32.dll
Load module: cellcore.dll
Load module: coredll.dll.0409.MUI
Load module: ole32.dll
Load module: coredll.dll
```

```
Load module: compime.dll
Load module: shellres.dll
The thread 0xdd1a9416 has exited with code 0 (0x0).
Load module: geolocation.dll
Load module: PACKAGEINFOAPI.dll
Unload module: PACKAGEINFOAPI.dll
Load module: dtpt_nsp.dll
Load module: nspm.dll
Load module: SSLSP.DLL
Load module: AutoBind_lsp.dll
Load module: dtpt_lsp.dll
Load module: wspm.dll
Load module: rsaenh.dll
Unload module: rsaenh.dll
...
```

Here you will see also also all DEBUGMSG prints of your code.

```
...
Load module: ITCEventLog.dll
Load module: ITCAdcDevMgmt.dll
Load module: msvcr90.dll
Load module: capiClient.dll
Load module: IQ_CLAPI_DLL.dll
Load module: SSAPI.DLL
Load module: ITCSCAN.dll
Load module: npmyscanner.dll
DLL_PROCESS_ATTACH
CMyScannerPlugin called (npp_new)...
DLL_THREAD_ATTACH
AllocateMyScannerPluginObject...
DLL_THREAD_ATTACH
isInitialized called ...
init called '0x5ac4c3a8'...
SetWindow called '0x5ac4c3a8'...
SetDocument called '0x5ac4c3a8'...
isInitialized called ...
...
```

```
SetWindow called '0x5ac4c3a8'...
...
Barcode Scanner SyncRead...
SetProperty...'enablebarcode'
... arg is true
SetScannerEnable: Scanner will be enabled
... got Barcode...
SetScannerEnable: Scanner will be disabled
ITCSCAN_CancelRead: disMsgs=0, disBytes=0
... got Barcode...'6523654585456'
Posting message...
Waiting for next scan release...
ITCSCAN_SetScannerEnable after scan
SetScannerEnable: Scanner will be enabled
Barcode Scanner SyncRead...
NpapiProc Barcode called...
MessageToUser called '6523654585456'...
NpapiProc Barcode called...
```