

Installation instructions for the Bluetooth smart card reader driver

Requirements:

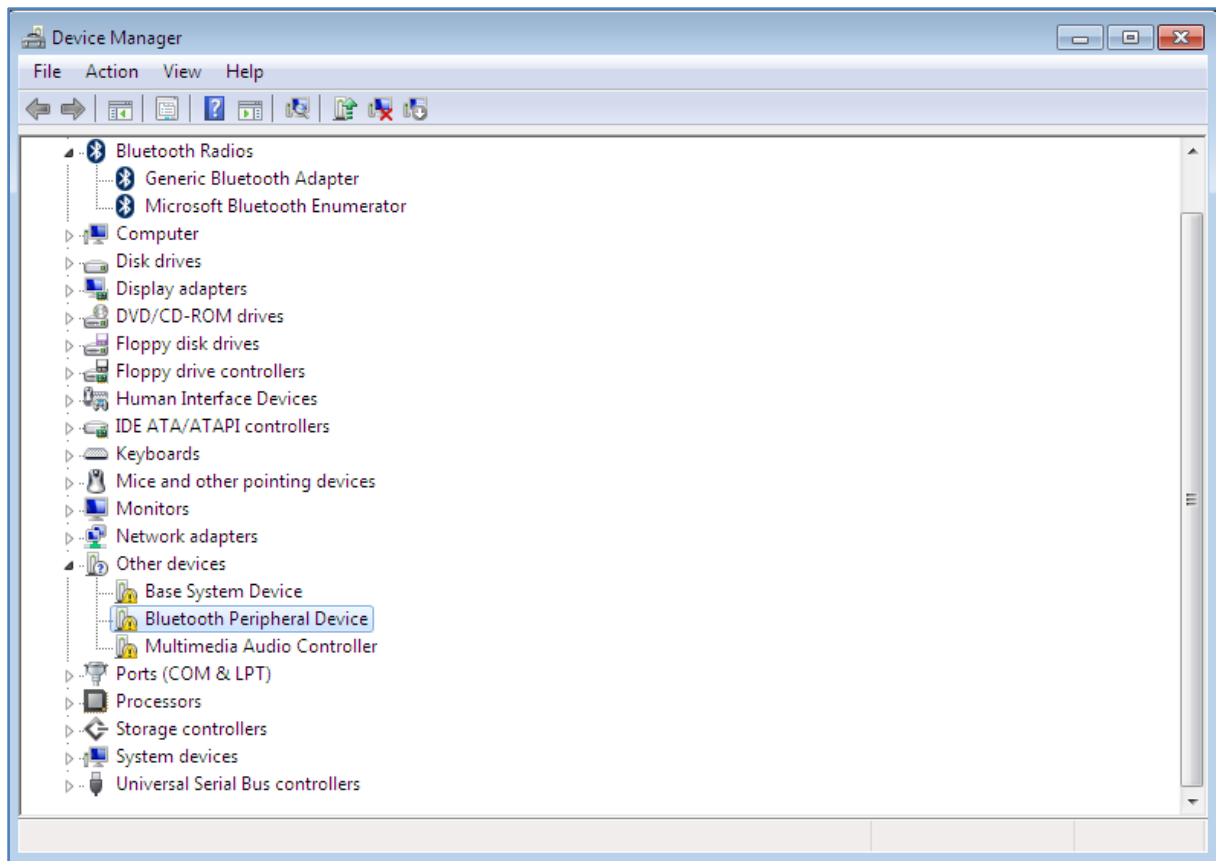
- Inbuilt or externally connected Bluetooth adapter
- Windows Driver Kit (WDK)

Building the driver:

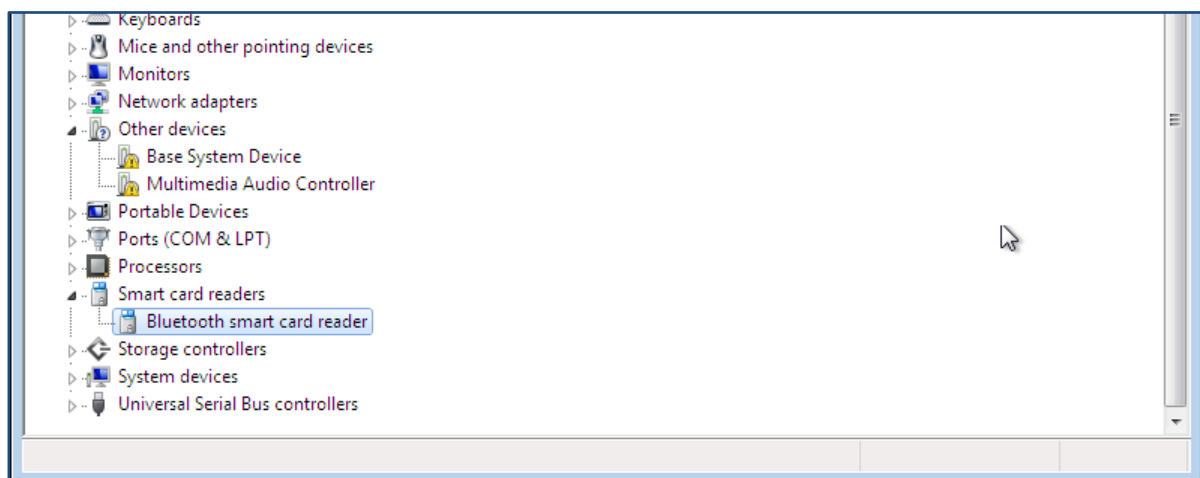
1. Setup the Windows Driver Kit (WDK). //The WDK 7600 was used for this project.
2. Run the build -ceZ command (WDK's build environment) in the Bluetooth smart card reader driver\source\server directory to build the BthScrdSrv.sys driver
3. run build - ceZ in the Bluetooth smart card reader driver\source\install folder to build a driver installation utility breaderinstall.exe

Installation:

1. Copy KMDF coinstaller (wdfcoinstallerMMmmm.dll, from the redist\wdf folder), BthScrdSrv.sys, BthScrdSrv.inf and breaderinstall.exe to some directory on the target machine. The wdfcoinstallerMMmmm.dll can also be found in the Bluetooth smart card reader driver folder.
2. Open Control Panel → Device Manager on the target machine, go to Bluetooth Radios group and choose available Bluetooth adapter. Update driver software for this Bluetooth adapter: choose "Browse my computer for driver software" → "Let me pick from a list of device drivers on my computer" and choose "Generic Bluetooth Adapter" driver. After this, the Bluetooth Radios group will contain Generic Bluetooth Adapter.
3. Run *breaderinstall.exe /i* (with administrator's rights) to install the Bluetooth smart card reader device. This triggers the Bluetooth Enumerator to create a physical device object (PDO) for the device. When the PDO is created, Windows tries to automatically install appropriate device driver software. Then the Windows shows notification that the installation failed, because no driver was found.



4. Open Device Manager and choose just appeared Bluetooth Peripheral Device from the Other Devices group. Update driver software for this device: choose "Browse my computer for driver software" → "Search for driver software in this location:" and choose the folder that contains files copied in step 1.
5. When the BthScrdSrv.sys driver is installed, the Device manager will show Smart card readers group containing the Bluetooth smart card reader.



6. Open Bluetooth Settings and enable "Allow Bluetooth devices to find this computer".

N.B. The pairing with a mobile phone should be established before trying to logon with the phone. Paring cannot be done when the logon screen is shown.