Universal SDK Version 7

ReadMe File for RF IDeas SOFTWARE and HARDWARE - RF IDeas' pcProx® USB Software Developer's Kit, and Proximity Reader.

The default SDK installation directory is — **C:\Program Files\RF IDeas\pcProxSDK**

Version 7.1.1 now supports the pcProx® Plus dual frequency card reader, as well as TCP/IP and UDP Ethernet connections. Since February 2010 the Universal SDK DLL version 7.x now supports four products; pcProx®, pcProx Plus, pcSwipe™, and pcProx Sonar. Version 7.1.2 supports pcProx Plus. Version 7.1.3 added serial pcProx Plus support. Version 7.2.6 supports pcProx Plus readers with extended functionality. Version 7.2.8 includes the changes for backward compatibility of pcProx Plus extended features. Version 7.2.9 includes the HID API implementation instead of libusb on the Linux to communicate with the USB device. Version 7.2.11 includes bug fixes on Linux with HID API implementation. Version 7.2.12 includes the resolution of slow connectivity issues with serial devices on Linux Platforms. Version 7.2.13 includes the resolution of bug fixes with connection issues. Version 7.2.14 includes addition of volume control feature of pcProx Plus. Version 7.2.15 includes key writing & configuration bit mechanism for EV1 key programming feature, **Bluetooth®** low energy technology (BTLE) Support. Version 7.2.16 includes sending current configuration to the reader before writing EV1 data. Introducing error codes for EV1 and BTLE API. Version 7.2.17 includes removal of name mangling for java escalation. Version 7.2.18 includes default vid pid list. Version 7.2.19 includes change of hidapi libs in linux. Version 7.2.20 includes the issue fix for performing clean installation by installer. Version 7.2.21 includes GetFWFilename API, new sample applications, the issue fix for the pcProxAPI document containing the incorrect definition of the setBTLEConfiguration API. Version 7.2.22 includes reducing sleep time in WriteCfg api for readers based on loon platform. Version 7.2.23 includes bug fixing in SDK examples. Version 7.2.24 includes new EULA document and fixed issues related to serial loon reader. 7.2.25 includes improved API reference and ReadMe documents.Version 7.2.26 includes some more improvements in API reference document.
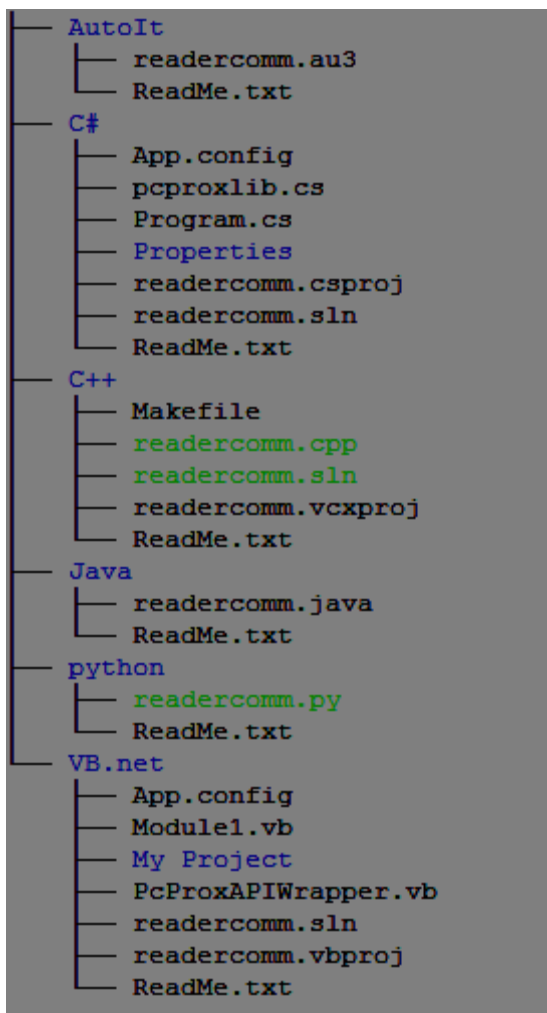
Version 6.x of the DLL Library supported a maximum of 16 devices, version 7 supports up to 127 USB devices and has been ported to Linux.

For your convenience both version 6 and version 7 are included. We recommend new users use version 7 which is downward compatible with version 6.x. Version 7 will scan for all three products (pcProx, pcSwipe, pcProx Sonar) by default, version 6 will only connect with pcProx devices.

This installation file contains the examples for following languages:

1. C/C++
2. C#
3. Java
4. Python
5. VB.NET
6. AutoIt.

Directory tree for examples

```
├── AutoIt
│   ├── readercomm.au3
│   └── ReadMe.txt
├── C#
│   ├── App.config
│   ├── pcproxlib.cs
│   ├── Program.cs
│   ├── Properties
│   ├── readercomm.csproj
│   ├── readercomm.sln
│   └── ReadMe.txt
├── C++
│   ├── Makefile
│   ├── readercomm.cpp
│   ├── readercomm.sln
│   ├── readercomm.vcxproj
│   └── ReadMe.txt
├── Java
│   ├── readercomm.java
│   └── ReadMe.txt
├── python
│   ├── readercomm.py
│   └── ReadMe.txt
└── VB.net
    ├── App.config
    ├── Module1.vb
    ├── My Project
    ├── PcProxAPIWrapper.vb
    ├── readercomm.sln
    ├── readercomm.vbproj
    └── ReadMe.txt
```

Note: This is the structure of examples folder for windows. For Linux, the examples folder contain the examples for following language: C/C++, Java and Python only.

Note: GetActiveID() can be called every 250ms (4 times per second) to sample for cards in the reader. Typically the card data will be present for one second as this is the factory default setting.

Note: The 32 bit and 64 bit DLL's are the same name but can be distinguished from one another by the Property Detail as seen when right clicking on the DLL file.

The functions within this DLL are not "name managed" and are compatible with all languages capable of loading a DLL and calling it's functions. This include VB .Net, C#, C++, Java, Python, AutoIt and more. The Linux shared library is compiled under Ubuntu 12.04 (32 & 64-bit) with gcc 4.6.3 on a 3.2.0 kernel for x86 platform. For ARM boards shared library compiled under Raspberry Pi B+ and pcDuino with gcc 4.6.3 on a 3.2.0 kernel. The minimum version of libc, which is required on Linux system, is 2.14.

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