

PTS-7 Stand Alone Control API

Description

Revision 1.1, March 2004

Rev. No.	Description	Date	Approved
1.0	Initial	Feb/19/04	Vincent
1.1	Add PTS7_EXIT() function	Mar/05/04	Vincent

PTS-7 Stand Alone Control API Description

API Name: PTS7_SETUP

int PTS7_SETUP(int bdge1, int bdge2, int device);

PTS-7 Window Driver Enable/Disable Mode Setting.

Argument:

int bdge1: Disable/Disable 1st Bridge

int bdge2: Disable/Disable 2nd Bridge

int device: Disable/Disable all device found

Return Value:

0 if success

Example:

PTS7_SETUP(1, 0, 0);

When PTS7_Winen() or PTS7_Windis() Executed, enable/disable 1st bridge's driver only

API Name: PTS7_INIT

int PTS7_INIT();

PTS-7 Initialize. Need to be called before all other API can be operated properly.

Return Value:

0 if success

API Name: PTS7_PON

int PTS7_PON();

Turn PTS-7 Power On.

Return Value:

0 if success

API Name: PTS7_POFF

int PTS7_POFF();

Turn PTS-7 Power Off.

Return Value:

0 if success

API Name: PTS7_WINEN

int PTS7_WINEN(int delaytime);

Enable Windows Drivers of PTS-7. The operation mode are set by PTS7_Setup() API call.

Argument:

int delaytime: Delay time between every drivers being enabled

Return Value:

0 if success

API Name: PTS7_WINDIS

int PTS7_WINDIS(int delaytime);

Disable Windows Drivers of PTS-7. The operation mode are set by PTS7_Setup() API call.

Argument:

int delaytime: Delay time between every drivers being disabled

Return Value:

0 if success

API Name: PTS7_CHECKCFG

int PTS7_CHECKCFG(int slotnum, char* logfile);

Check PCI configuration for the device on PTS-7 slot. Users need to setup the checking file through GUI.

Note: GUI will be released before March 2004.

Argument:

int slotnum: Slot Number on PTS-7, 1 or 2.

char* logfile: log file of checking if specified

Return Value:

0 if success

Example:

```
PTS7_CHECKCFG(1, "test.log");
```

Check the PCI configuration register on PTS-7 Slot 1, and write the log to "test.log".

```
PTS7_CHECKCFG(2, NULL);
```

Check the PCI configuration register on PTS-7 Slot 2.

API Name: PTS7_WAITCARDREMOVE

int PTS7_WAITCARDREMOVE(int slotnum);

Wait until the card is removed from the slot.

Argument:

int slotnum: Slot Number on PTS-7, 1 or 2.

Return Value:

0 if success

API Name: PTS7_WAITCARDPLUG

int PTS7_WAITCARDPLUG(int slotnum);

Wait until the card is plugged on the slot.

Argument:

int slotnum: Slot Number on PTS-7, 1 or 2.

Return Value:

0 if success

API Name: PTS7_EXIT

int PTS7_EXIT ();

Remove opened handle and free allocated memory. Call this function when coding in Visual Basic.

Return Value:

0 if success

C++ Example Code 1: PTS7DllTest2**Description:**

Call each API Individually. Users can run this code to understand the APIs.

```

/*****
//      File: PTS7DllTest2.cpp
//      Purpose: PTS-7 Stand Alone DLL Test Program
//
//      Author : Vincent Yang, Soliton Tech. Co. LTD.
//      Date : Feb/17/2004
//      Modification :
//      v1.00.00 : Initial
//
*****/
#include "stdafx.h"
#include "pts7.h"
#include <conio.h>
int main(int argc, char* argv[])
{
    int sel = 0;
    char ch;
    do
    {
        printf("Press Command\n");
        printf("0 : PTS7 Init\n");
        printf("1 : Power on\n");
        printf("2 : Power off\n");
        printf("3 : Window Enable\n");
        printf("4 : Window Disable\n");
        printf("5 : Wait Card Remove\n");
        printf("6 : Wait Card Plug\n");
        printf("q : Quit\n");
        ch = getch();
        switch(ch)
        {
            case '0' :
                PTS7_INIT();
                break;
            case '1' :
                PTS7_PON();
                break;
            case '2':
                PTS7_POFF();
                break;
            case '3':
                PTS7_WINEN(500);
                break;
            case '4':
                PTS7_WINDIS(100);
                break;
            case '5':
                PTS7_WAITCARDREMOVE(0);
                break;
            case '6':
                PTS7_WAITCARDPLUG(0);
                break;
            default:
                break;
        }
    }while(ch != 'q');
    return 0;
}

```

C++ Example Code 2: PTS7Seq**Description:**

Example for user to bind the APIs into test program.

```

/*****
//   File: Pts7Seq.cpp
//   Purpose: PTS-7 Stand Alone DLL Sequence Test Program
//
//   Author : Vincent Yang, Soliton Tech. Co. LTD.
//   Date : Feb/17/2004
//   Modification :
//   v1.00.00 : Initial
//
*****/

#include "stdafx.h"
#include "pts7.h"
#include "conio.h"
#include "Windows.h"
int main(int argc, char* argv[])
{
    CPTS7CTL pts7;
    int sel = 0;
    char ch;
    int count = 0;
    int status;
    int pon_fail_flag;
    int wen_fail_flag;

    printf("Please make sure you'd plug a working card on DUT slot!\n");
    // PTS-7 Initialize, Needed to run at lease 1 time after system power up
    status = pts7.Init();
    if (status != 0)
    {
        printf("PTS-7 Initialize Error\n");
        return 1;
    }
    if (pts7.Windis(50) == 0)
    {
        pts7.Poff();
        pts7.WaitCardRemove(0);
    }
    else
    {
        printf("Please make sure you'd plug a working card on DUT slot!\n");
        printf("Window Driver Disable Erro!\n");
        return 1;
    }
    // Test Loop
    do
    {
        pon_fail_flag = 0;
        wen_fail_flag = 0;
        pts7.WaitCardPlug(0);
        pon_fail_flag = pts7.Pon();
        if (pon_fail_flag == 0)
        {
            wen_fail_flag = pts7.Winen(200);
        }
        if (pon_fail_flag == 0 && wen_fail_flag == 0)
        {

```

```

        // Run User Test Prog.
        // You can place your test program here
        // For Example
        //     Open Device Driver
        //     Run desired operation
        //     Close Device Driver
        printf("Run User Program..... \nPress 'q' to Quit or Any Other Key to
Continue\n");
        ch = getch();
    }
    else
    {
        if (pon_fail_flag) printf("Power Fail!");
        if (wen_fail_flag) printf("Window Driver Enable Fail!");
        ch = 0;
    }
    if (ch != 'q' && ch != 'Q')
    {
        if (pon_fail_flag == 0 && wen_fail_flag == 0) pts7.Windis(50);
        pts7.Poff();
        pts7.WaitCardRemove(0);
    }
}while(ch != 'q' && ch != 'Q');
return 0;
}

```