



[https://verifone.cloud/docs/application-development-kit-version-48/crdsync-demo\\_8cpp-example](https://verifone.cloud/docs/application-development-kit-version-48/crdsync-demo_8cpp-example)

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## crdsync-demo.cpp

This is an example how to use ADK-CRD-SYNC

```
*****  
#include <stdlib.h>#include <stdio.h>#include <string  
.h>#include <stdarg.h>#include <unistd.h>#include <signal.h>#include  
"pthread.h"#include "crdsync.h" #define UNUSED(x) (void) x #define MENU  
"ADK-CRD-SYNC testapp:\n\1 Open\n\2 IsCardPresent\n\3 PowerUp AT24C01SC\n\4 Powe  
#define TRACE(str) printf("%s", str);#define sleep_ms(a) usleep(1000  
*a); #define CRDSYNC_DBG(format, ...) { trace("CRD-SYNC-TEST: "  
); trace(format, ## __VA_ARGS__); trace("\n"  
); }#define CRDSYNC_DBG_BYTES(format, data, len, ...) { int i; trace(  
"CRD-SYNC-TEST: "); trace(format, ## __VA_ARGS__); for (i = 0; i < len  
; i++) trace("%02x ", data[i]); trace("\n"  
); } static pthread_mutex_t traceMutex = PTHREAD_MUTEX_INITIALIZER;static void t  
const char *format, ...); static const char *return_table[] = {  
"CRDSYNC_Success", "CRDSYNC_Failure",  
"CRDSYNC_Error_Power_Action", "CRDSYNC_Error_Not_Supported",  
"CRDSYNC_Error_BadParam", "CRDSYNC_Error_Protocol"};static const  
char *mapReturn(CRDSYNC_RET r){ if(r < 0  
|| (unsigned)r >= sizeof(return_table)/sizeof(char*)) return  
"unknown"; else return  
return_table[r];} static void callbackfunctionAtExit(int  
signal){ signal = 0; exit(signal); } void traceCallback(const  
char *str, void *data){ UNUSED(data); trace("ADK-CRD-SYNC: "  
); trace(str); trace("\n");} int main(int  
argc, char *argv[]){ CRDSYNC_RET ret; int key = 0xFF; int  
c; UNUSED(argc); UNUSED(argv); signal(SIGTERM, callbackfunctionAtExit);  
64]; unsigned char len = sizeof(vers); crdSync_Version(vers, len  
); CRDSYNC_DBG("CRD-SYNC library version: %s", vers); while (key != 0  
) { unsigned char AtrBuf[256]; unsigned char AtrLen = 255  
; printf("\n\n%s", MENU); c = getc(stdin); printf(  
"\n\n"); key = c - '1' + 1; while (c != '\n'  
&& c != EOF) c = getc(stdin); if ((key >= 1 && key <= 9  
) || (key > 48 && key < 53)) { switch  
(key) { case 0x01: ret = crdSync_Open(0  
); CRDSYNC_DBG("Open(0): %d (%s)"  
, ret, mapReturn(ret)); break; case 0x02  
: ret = crdSync_IsCardPresent(); CRDSYNC_D  
"crdSync_IsCardPresent(): %d (%s)"  
, ret, mapReturn(ret)); break; case 0x03  
: ret = crdSync_PowerUp(CRDSYNC_CARDTYPE_AT24C01SC, AtrBuf, &  
"crdSync_PowerUp(CRDSYNC_CARDTYPE_AT24C01SC): %d (%s)"
```

