

SiPass integrated MP2.70

Enrolment Reader for Web Client

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1. Introduction

With the HID OMNIKEY 5427 CK we have the possibility to use the Keyboard Wedge support. The Reader retrieves data from a card and insert the read information directly to any application by emulating keyboard strokes. The following document describe how to read out the UID/CSN from MIFARE Classic and Mifare DESfire cards.



To configure the HID OMNIKEY 5427 CK you have to install the HID Global USB-CDC-EEM Driver. You can Download the Driver form HID Global Website.

www.hidglobal.com/drivers

1.1 OMNIKEY 5427 CK Reader Configuration

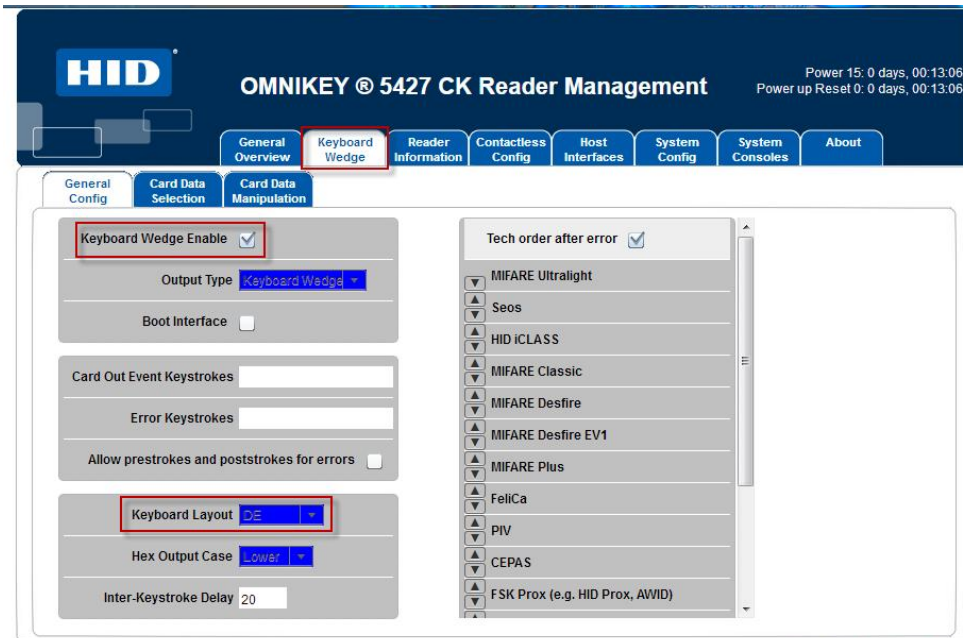
Connect the OMNIKEY 5427 CK Reader via USB to your Client and open the following IP via a Web browser: <http://192.168.63.99/>

HID		OMNIKEY® 5427 CK Reader Management		Power 15: 0 days, 00:12:18 Power up Reset 0: 0 days, 00:12:18	
General Overview Keyboard Wedge Reader Information Contactless Config Host Interfaces System Config System Consoles About					
Firmware Version	04.00.000f				
MAC Address	00:18:9E:A2:4F:41				
Unique ID	01010053415637343305274E20154730				
Number of CCID Slots	1				
Contactless Card ATR					

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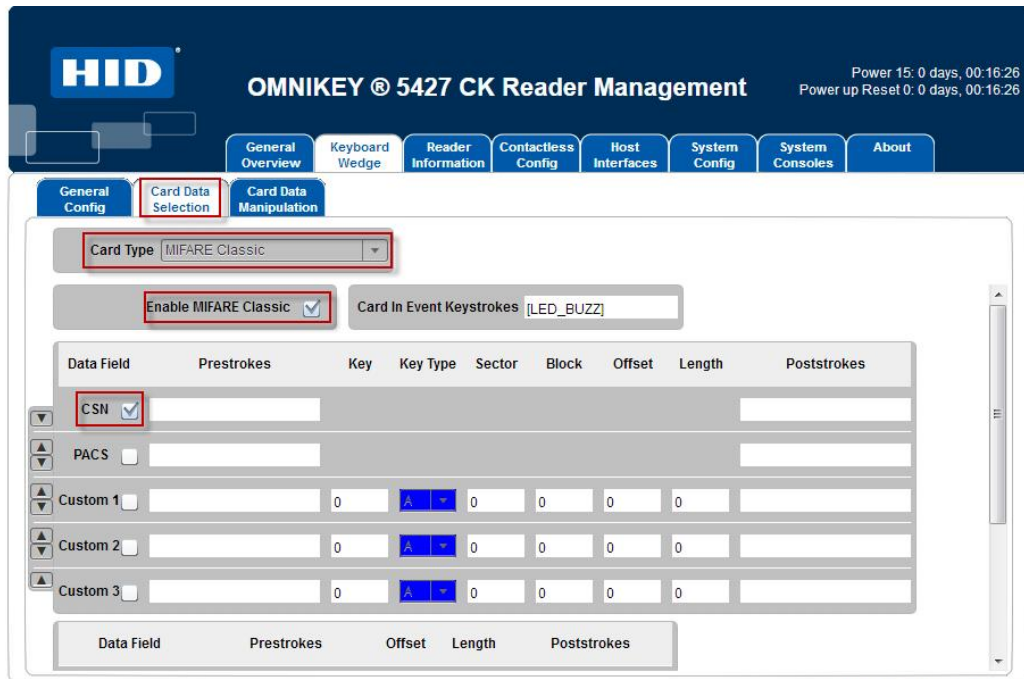
1.1 OMNIKEY 5427 CK Reader Configuration

Select Keyboard Wedge-> Enable the Keyboard Wedge and select your Keyboard Layout on the General Configuration.



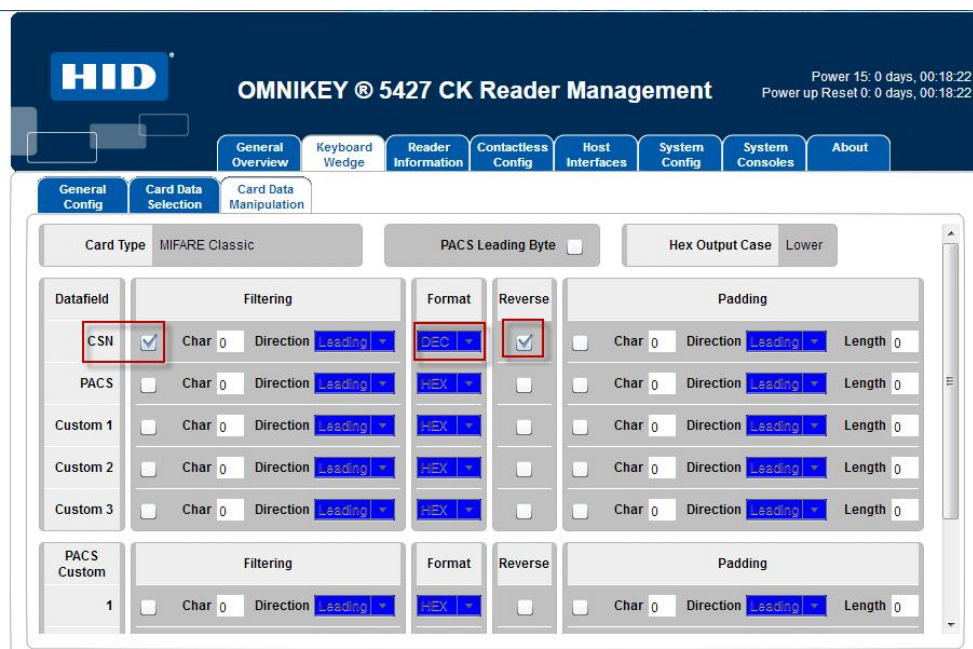
1.2 Read the UID/CNS from MIFARE Classic / DESfire cards

On Card Data Selection Enable MIFARE Classic and the CSN Data Filed. Additionally you have to disable the PACS option.



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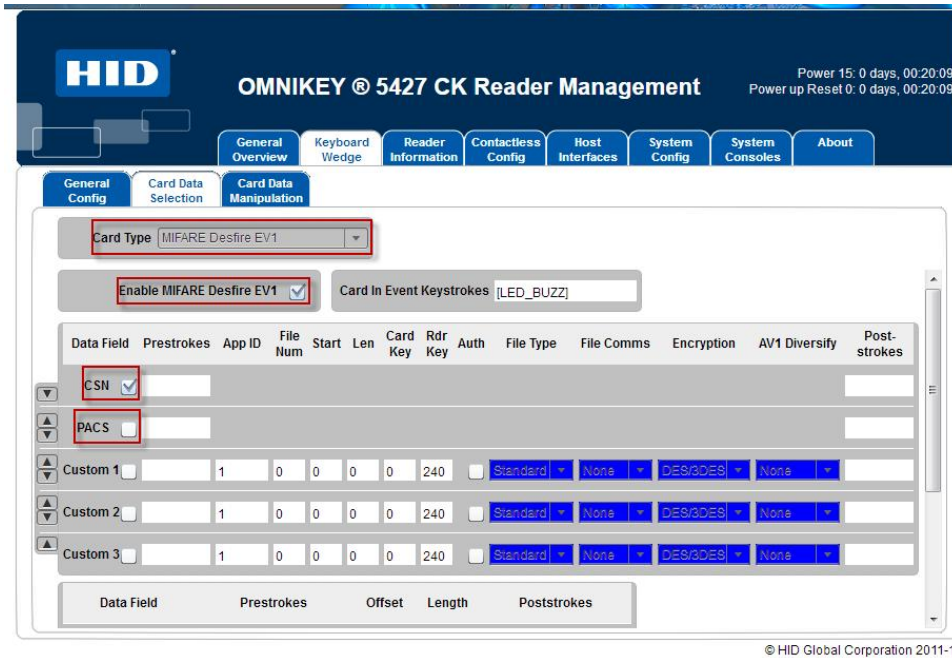
On Card Data Manipulation select the CSN, Change the Format to DEC (decimal) and Enable the Reverse option.



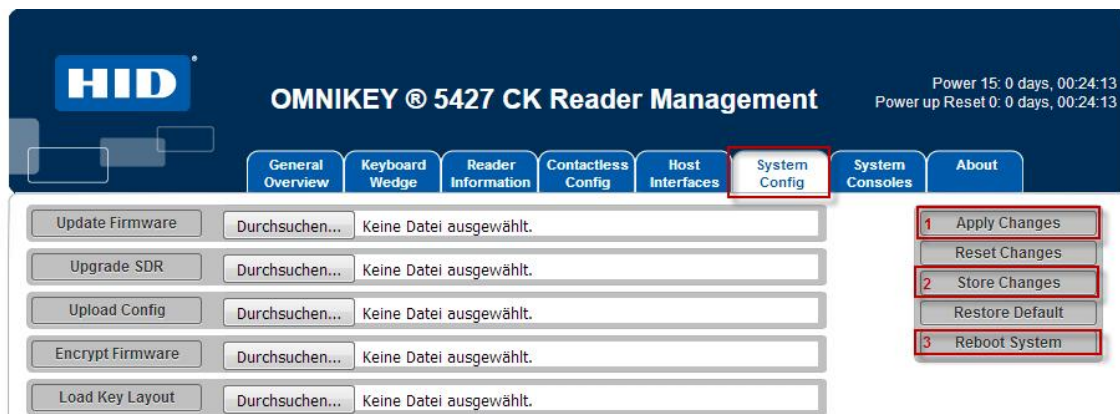
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1.2 Read the UID/CNS from MIFARE Classic / DESfire cards

If you also want to read Mifare DESfire cards your have to configure the Card Type for Mifare DESfire the same way.



To finish the configuration you have to select System Configuration-> Click Apply Changes-> Store Changes-> Reboot System



Now the OMNIKEY 5427 CK Reader is configure and ready to use.

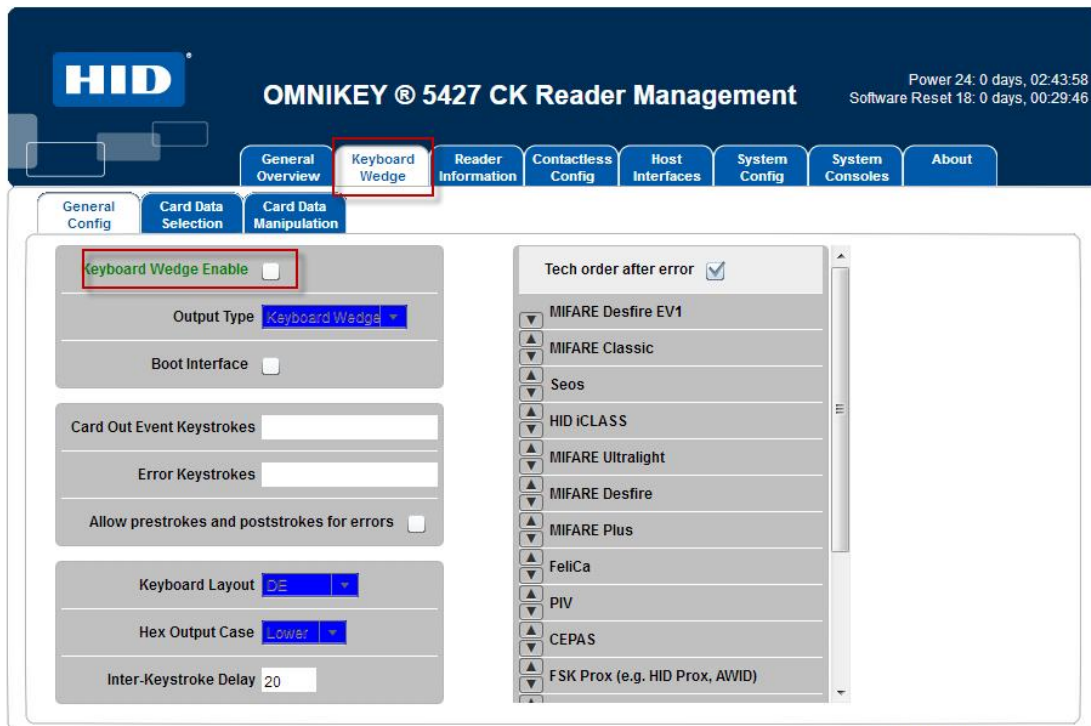
Note: You only have to configure the reader ones. The configuration is stored in the reader and it can be used on every Windows PC.

1.3 Read encoded card number from MIFARE Classic / DESfire cards

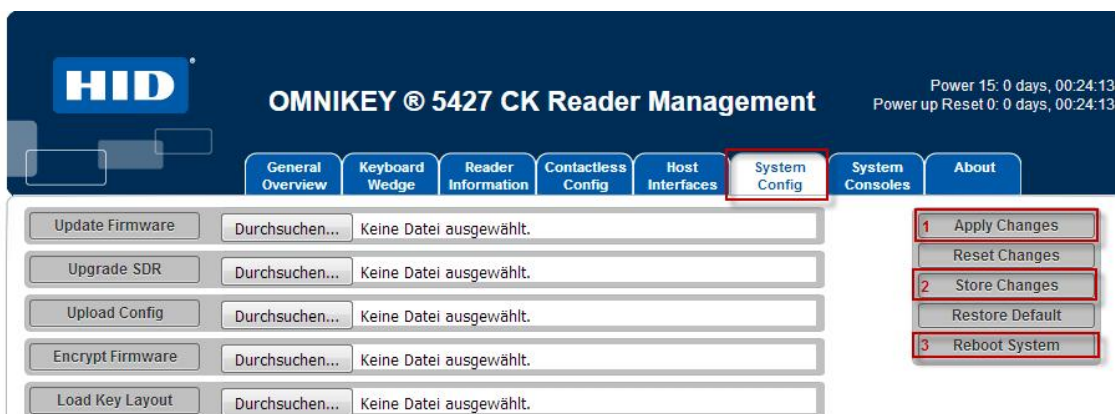
With the OMNIKEY 5427 CK you can also Read out Sector/Block from a MIFARE Classic card or Application/File from a DESfire card. To enter the Mifare/DESfire Key to the reader you have to order a License called the "OMNIKEY 5x27CK Developer Center" from [HID](#). With this license you can download the "Key Loading Tool".

Without this tool it is not possible to apply any keys to the reader.

Connect to the reader and Disable the Keyboard Wedge.



Go to System Configuration-> Click Apply Changes-> Store Changes-> Reboot System.



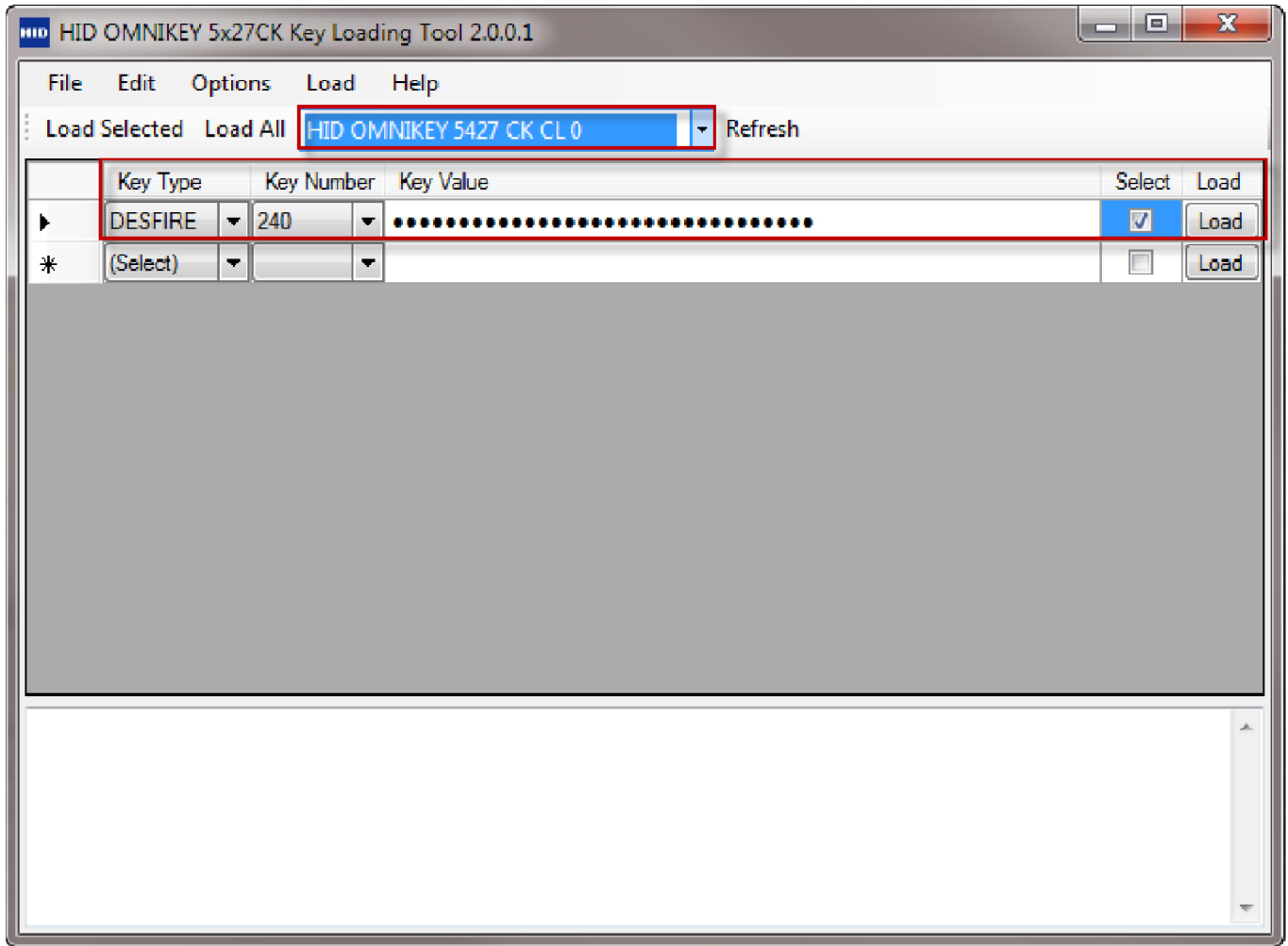
1.3 Read encoded card number from MIFARE Classic / DESfire cards



Open the HID OMNIKEY 5x27 CK Key Loading Tool.

Take care that the correct reader is selected in the drop down filed.

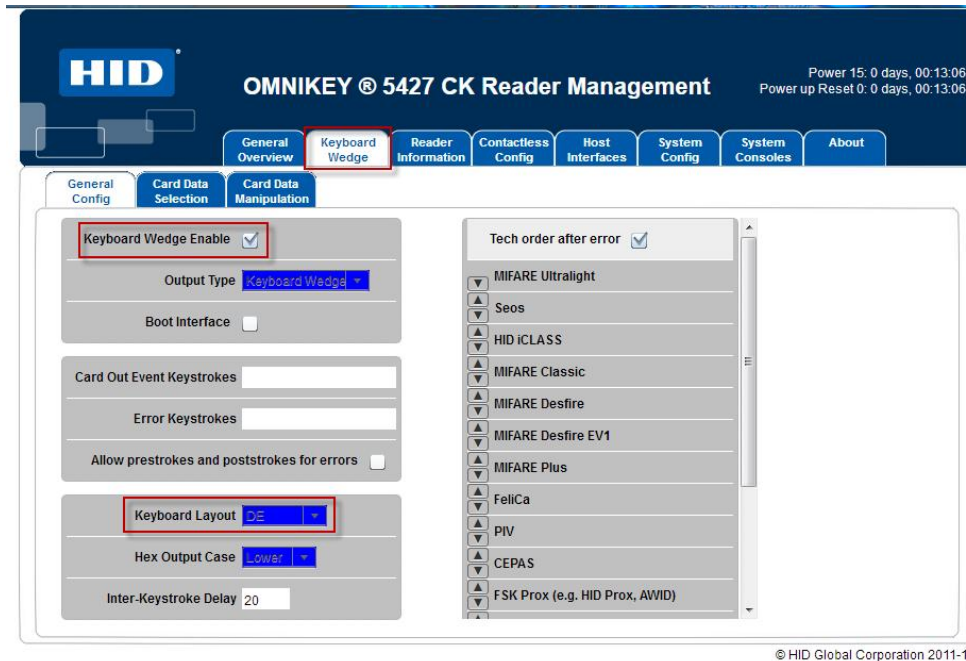
Select the Key Type (DESfire or Mifare), Select the Key Number (this will be need in the configuration tool of the reader), enter the key at the Key Value filed, check "Select" and click on Load.



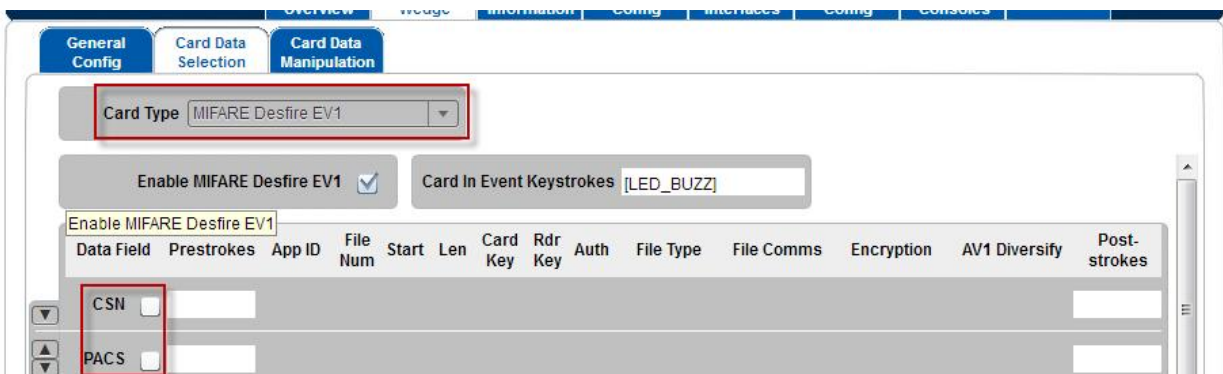
Note: If the Keyboard Wedge is enabled the reader will not be shown in the drop down filed.

1.3 Read encoded card number from MIFARE Classic / DESfire cards

Connect to the reader -> select Keyboard Wedge-> Enable the Keyboard Wedge and select your Keyboard Layout on the General Configuration.



On Card Data Selection Enable MIFARE Classic/MIFARE DESfire EV1 and disable the CSN Data Filed and PACS option.



1.3 Read encoded card number from MIFARE Classic / DESfire cards



Enable the Custom 1 Field-> Enter the Application ID, the File number, the length and the Card Key as in the SiPass Profile configuration.

Check that the Reader Key is the same as in the Key Loading Tool.

The Encryption must be the same as from the SiPass Key configuration.

The top window, 'Card Data Manipulation', shows a table of data fields. The 'Custom 1' field is highlighted with a red box around its 'Card Key' value of 240. The bottom window, 'Profile Configuration', shows a table of profile assignments. The first two rows are highlighted with red boxes around their 'File' and 'Length' values (1 and 32). Red arrows point from the 'Custom 1' field in the top window to the first row in the bottom window, and from the 'Custom 2' field to the second row.

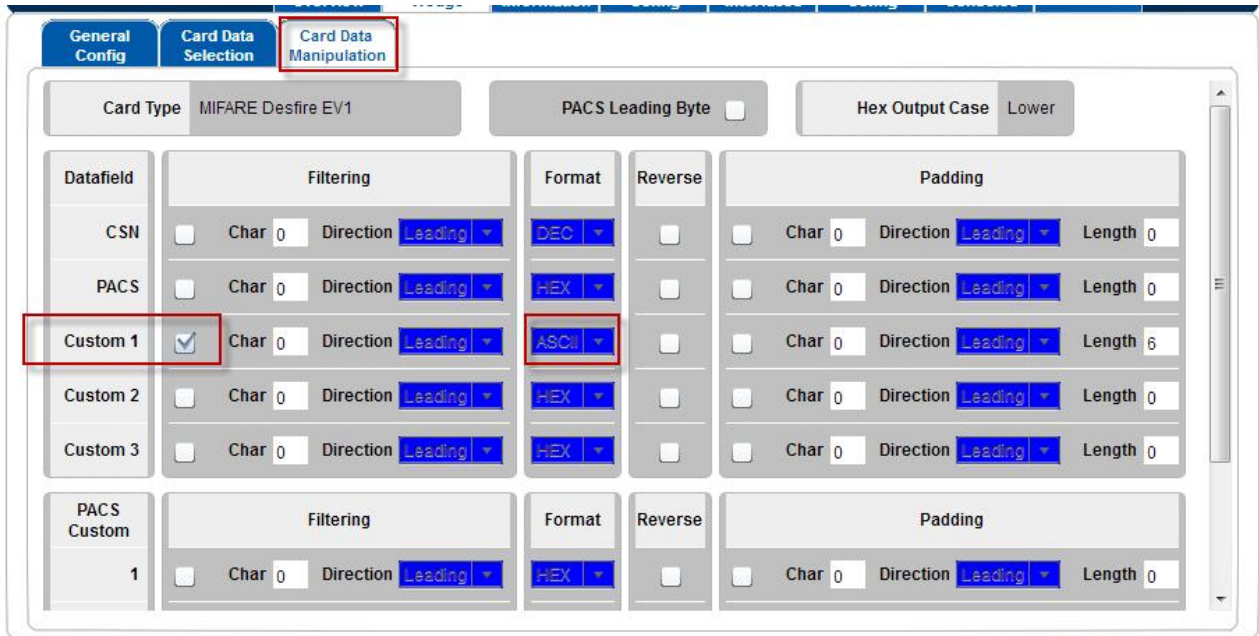
Data Field	Prestrokes	App ID	File Num	Start	Len	Card Key	Rdr Key	Auth	File Type	File Comms	Encryption	AV1 Diversify	Post-strokes
CSN													
PACS													
Custom 1		2	1	0	32	240			Standard	None	AES	None	
Custom 2		1	0	0	0	240			Standard	None	DES/3DES	None	
Custom 3		1	0	0	0	240			Standard	None	DES/3DES	None	

Application	File	Length	Output	Access Control	Data Type	Data
1	1	32	ASCII	Mifare Facility	Database Field	Base:CardNumber
2	1	32	ASCII	None	Database Field	Base:CardNumber

Note: The SiPass Mifare Facility is encrypted written to the card. It is not possible to read the card number from this file. It is necessary to create a second application/file where the card number is written ASCII formatted with Access Control None.

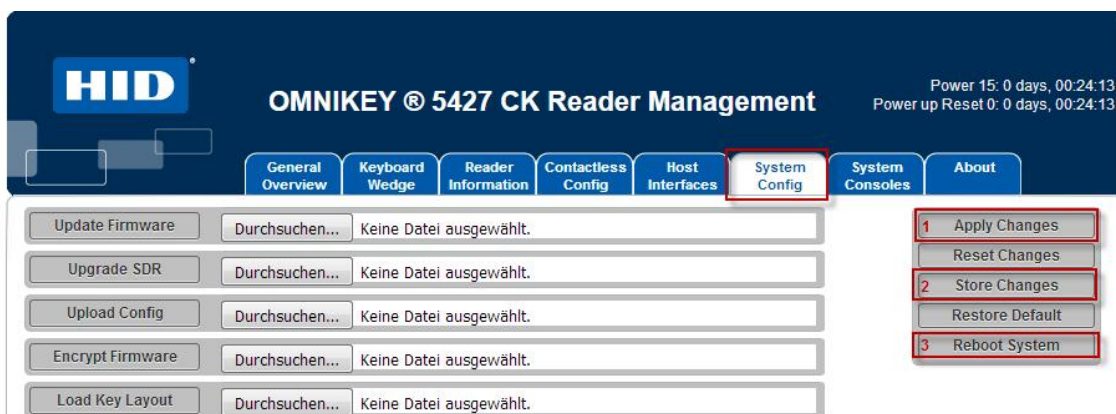
1.3 Read encoded card number from MIFARE Classic / DESfire cards

On Card Data Manipulation select the Custom 1 Field and Change the Format to ASCII (as in SiPass).



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To finish the configuration you have to select System Configuration-> Click Apply Changes-> Store Changes-> Reboot System



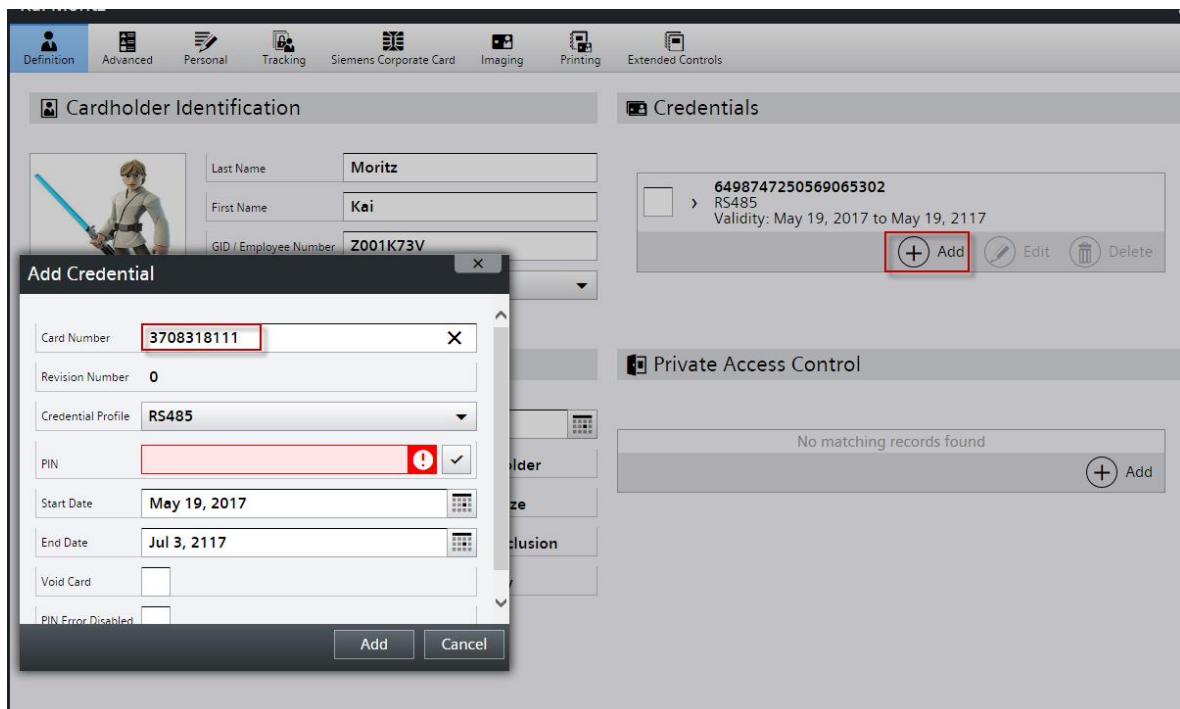
Now the OMNIKEY 5427 CK Reader is configure and ready to use.

Note: You only have to configure the reader ones. The configuration is stored in the reader and it can be used on every Windows PC.

2. Enrolment in SiPass Web Client

To enroll a card via the SiPass Web Client add a new Credential -> select the Card Number field and show the card on the OMNIKEY 5427 CK reader.

The Card number will be automatically typed by the Keyboard Wedge function.



3. Contact page

BT CPS S&C MK&B CSFS MCH- Customer Support Center

Technical support for the SiPass integrated software and associated firmware is managed by the CPS FS Customer Support Center. For support relating directly to the hardware you will need to contact Vanderbilt.

Hotline Europe

Phone: +49 89 9221 8000

Fax: +49 89 9221 6000

fs.support.sbt@siemens.com

Hours of operation:

Monday - Friday: 08:00 A.M. - 05:00 P.M. CET

Hotline South & North America

Phone: +1 800 877 7545

<https://support.industry.siemens.com/my/WW/en/requests#createRequest>

Hours of operation:

Monday - Friday: 08:00 A.M. - 05:00 P.M. Central Time