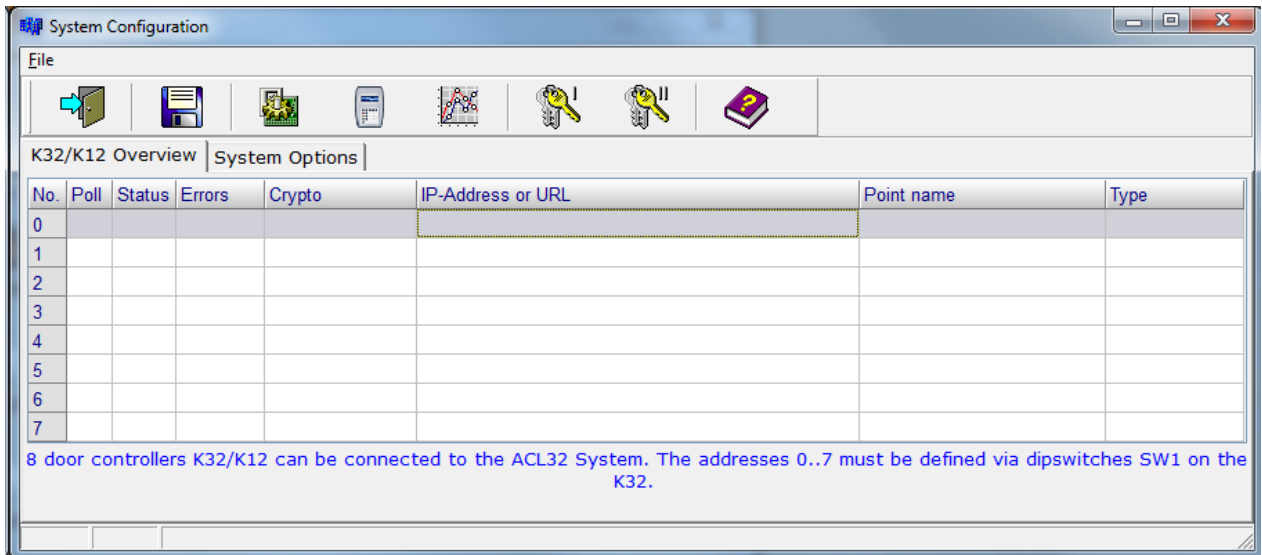


XMP-ACL32

Software Documentation



SYSTEM CONFIGURATION

Version: 1.2
Date: 07/26/2013
File: EXMP-ACL32_System_configuration

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Shortcut to: [XMP-ACL32 Main help](#)

1 General Remarks

The authorized **XMP-ACL32** user is allowed to register new door control units or modify the settings of data points and attributes in the **System Configuration**.

XMP-ACL32 interacts with the connected devices via data points. There are two kinds of data points: “virtual” and “real” ones. “Virtual” data points are, for instance, routines (small and simple user programs) that allow the implementation of user-specific functionalities. “Real” data points describe the hardware interfaces to the door control units, which means digital or analog inputs and outputs.

Each data point has a number of different attributes with certain values or states:

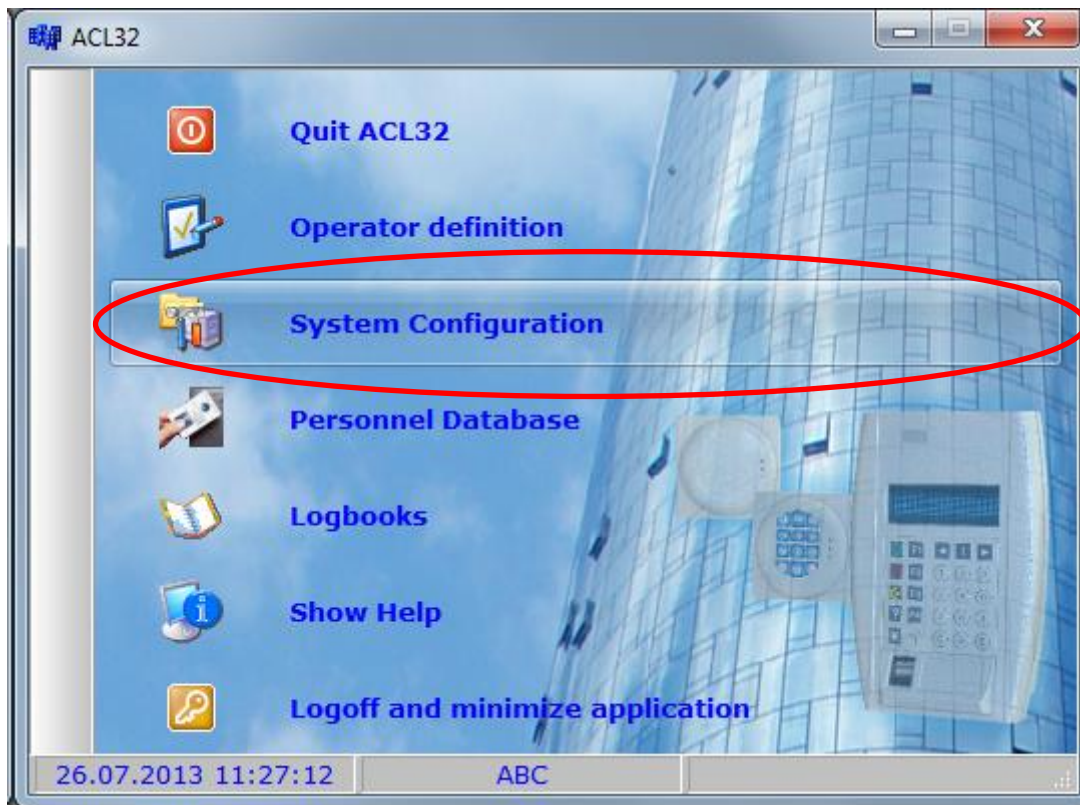
For instance, the current state of a digital input of a door control unit is represented by the *CV* attribute (Current Value e.g.: 0 – *normal*, 1 – *alarm/failure*, 2 – *short circuit* or 3 - *interruption*). The *DC* attribute (Date of Change) indicates time and date when the last alarm event occurred. The *NC* attribute describes the number of changes, etc..

2 Program Version

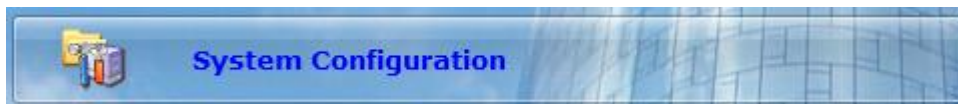
The documentation refers to the following program version:

ACL32 . EXE	Version 2.0 (12/27/2012)
--------------------	--------------------------

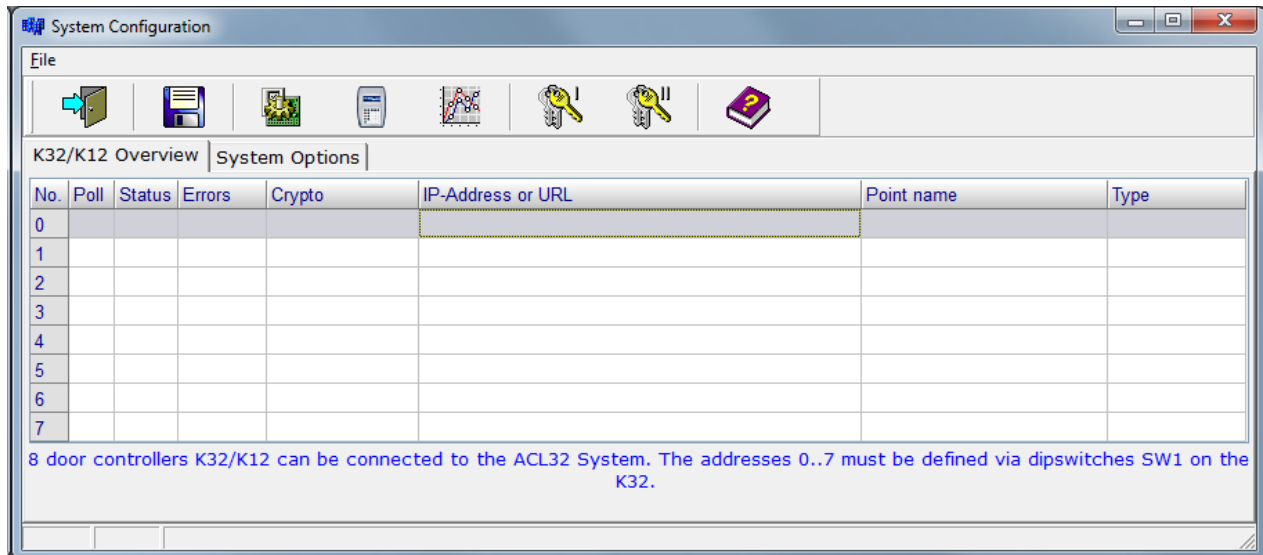
3 Starting the System Configuration



If you click on the item “System Configuration” in the **XMP-ACL32** main menu,



a list of the already configured door control units will be displayed:



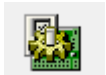
3.1 Description of the Icons



Exit Program.



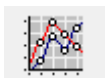
Save Settings. Click this button to save and activate the settings.



XMP-K32 Configuration. Opens a window for configuring the selected door control unit. For further details, please read the documentation of XMP-K32 configuration.



XMP-TMC2500 Configuration. Opens a window for configuring the XMP-TMC2500 readers which are connected to the selected door control unit. For further details, please read the documentation of XMP-TMC2500 configuration.



Display/Change Attributes. After clicking the button, a window for configuring attributes of the data points will be displayed. Please see details below.



Define Custom Key 1 that is used for the encrypted communication between **XMP-ACL32** system and the door control unit.

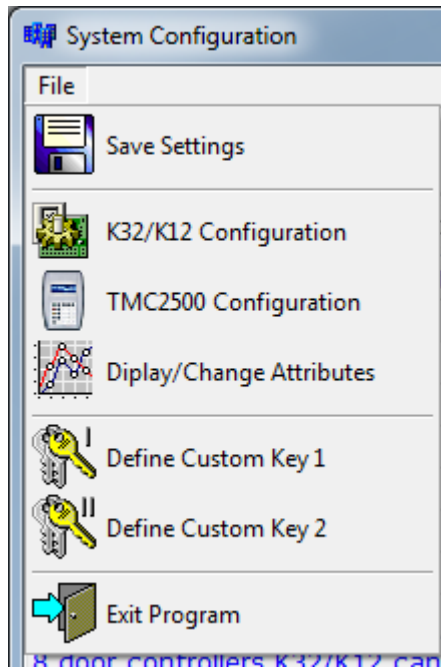


Define Custom Key 2 that is used for the encrypted communication between **XMP-ACL32** system and the door control unit.



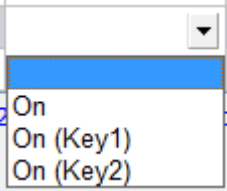
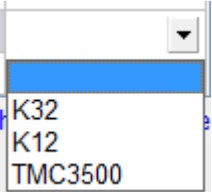
Open Help File.

These program options are also available if you select the item *File* in the top menu:



3.2 K32/12 Overview

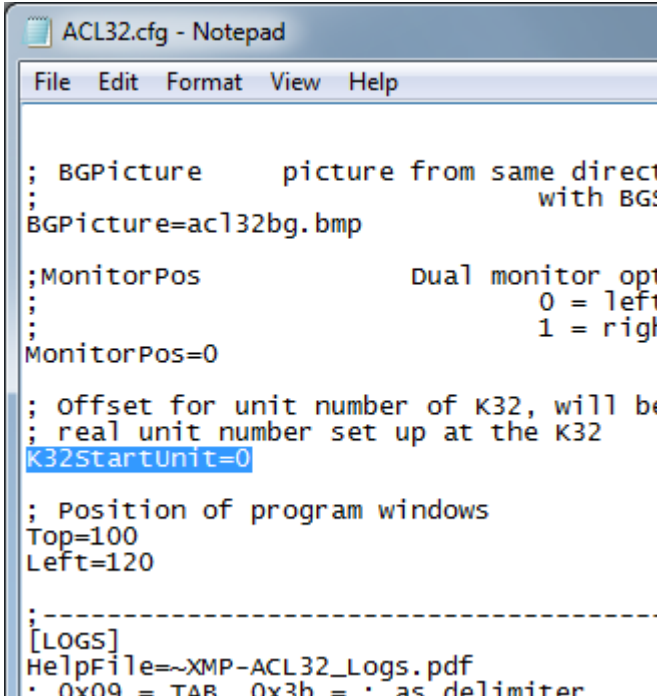
After clicking the tab “K32/12 Overview”, the following data fields will be displayed:

No	Hardware address of the door control unit.
Poll	Check box for polling the door control unit. Click the left mouse button to select this option.
Status	This data field is marked with a green tick if the communication to the XMP-ACL32 system has failed.
Errors	In case of communication errors, the number of errors will be incremented.
Crypto	<p>Pull-down menu with the options: <i>no encryption (blank)</i>, <i>a common encryption (On)</i>, <i>encryption with Key1 (On Key1)</i> or <i>encryption with Key2 (On Key2)</i>.</p> 
IP-Address or URL	IP address of the door control unit or, in case the device is connected via internet, the URL of the controller.
Point name	Name for the door control unit that will be used, for example, in log entries.
Type	<p>Select the type of configured device in this line (XMP-K32 -> K32, XMP-K12 ->K12 or XMP-TMC3500 ->TMC3500).</p> 

3.3 XMP-ACL32 Configuration File

Each door control unit in the system must have a unique hardware address. It has to be configured via micro switches (block SW1 and SW2).

By default, the controller is connected to **XMP-ACL32** via the addresses 0 to 7. If the controller shall be connected via higher addresses, you have to change the value *K32StartUnit* in the configuration file **ACL32.CFG** in folder **ACL132**. Therefore, you can edit the configuration file with a text editor. The entry *K32StartUnit* is an offset that defines the hardware addresses of the next 8 control units connected to the system. By default, this value is set to 0.



```
ACL32.cfg - Notepad
File Edit Format View Help

; BGPicture      picture from same direct
;               with BG
BGPicture=acl32bg.bmp

; MonitorPos      Dual monitor opt
;               0 = left
;               1 = right
MonitorPos=0


; Offset for unit number of K32, will be
; real unit number set up at the K32
K32StartUnit=0

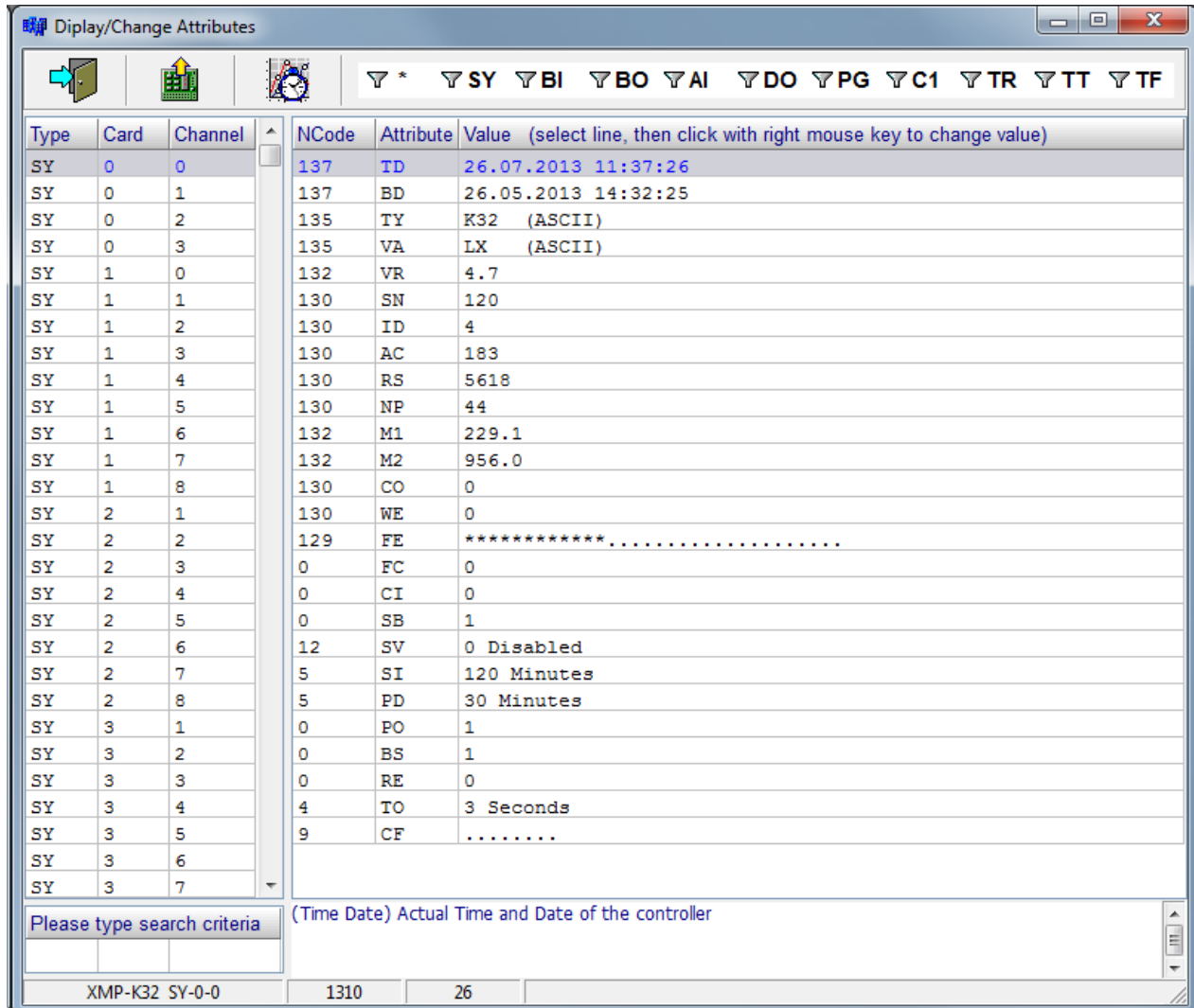
; Position of program windows
Top=100
Left=120

;-----
[LOGS]
HelpFile=~/XMP-ACL32_Logs.pdf
· 0x09 = TAB  0x3h = ' as delimiter
```

Finally, save the configuration file and restart the **XMP-ACL32** system for changes to become active.

3.4 Display/Change Attributes

After clicking the button “Display/Change Attributes” , the following window will be displayed:







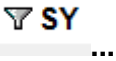
The screenshot shows a window titled "Diplay/Change Attributes" with a toolbar and a main table. The toolbar contains icons for a folder, a circuit board, and a gear, followed by a menu bar with options: * SY BI BO AI DO PG C1 TR TT TF. The main table has columns: Type, Card, Channel, NCode, Attribute, and Value. Below the table is a search input field and a status bar.

Type	Card	Channel	NCode	Attribute	Value (select line, then click with right mouse key to change value)
SY	0	0	137	TD	26.07.2013 11:37:26
SY	0	1	137	BD	26.05.2013 14:32:25
SY	0	2	135	TY	K32 (ASCII)
SY	0	3	135	VA	LX (ASCII)
SY	1	0	132	VR	4.7
SY	1	1	130	SN	120
SY	1	2	130	ID	4
SY	1	3	130	AC	183
SY	1	4	130	RS	5618
SY	1	5	130	NP	44
SY	1	6	132	M1	229.1
SY	1	7	132	M2	956.0
SY	1	8	130	CO	0
SY	2	1	130	WE	0
SY	2	2	129	FE	*****.....
SY	2	3	0	FC	0
SY	2	4	0	CI	0
SY	2	5	0	SB	1
SY	2	6	12	SV	0 Disabled
SY	2	7	5	SI	120 Minutes
SY	2	8	5	PD	30 Minutes
SY	3	1	0	PO	1
SY	3	2	0	BS	1
SY	3	3	0	RE	0
SY	3	4	4	TO	3 Seconds
SY	3	5	9	CF
SY	3	6			
SY	3	7			

Please type search criteria (Time Date) Actual Time and Date of the controller


XMP-K32 SY-0-0 1310 26

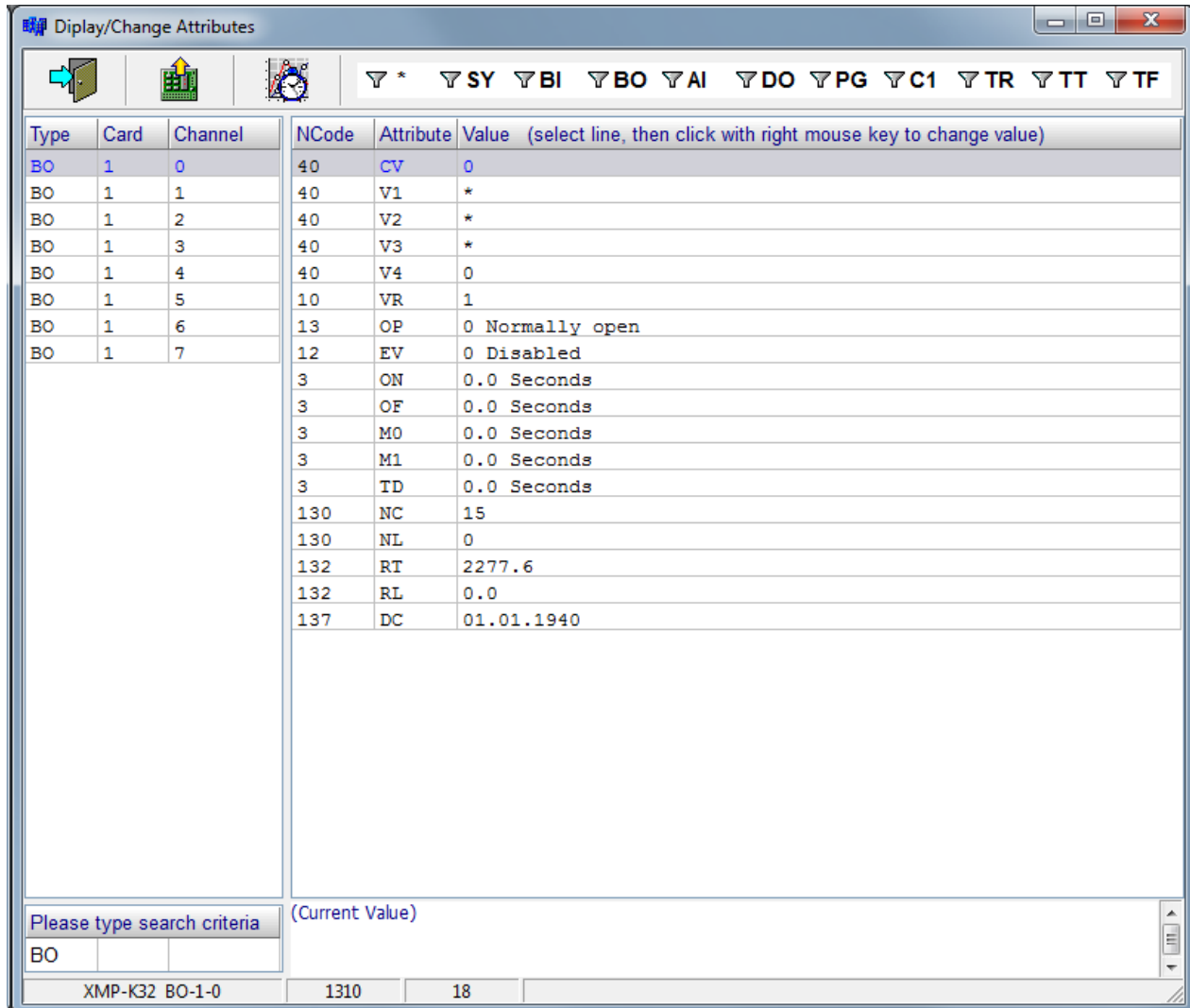
3.4.1 Description of the Icons

	<p>Exit Program.</p>
	<p>Upload data point list from controller. Has to be clicked in order to upload all data points and attributes from the door control unit. After restarting XMP-ACL32, the upload will start automatically.</p>
	<p>Real-time attribute display on/off. If this option is activated, the attribute values will be updated continuously.</p>
	<p>Display all available data points.</p>
	<p>Preselect buttons. To preselect data points (<i>BI, BO, AI</i> etc.).</p>

3.4.2 Examples

Example 1: Searching for *BO* data points

After clicking the preselect button  **BO**, all *BO* data points will be displayed:



The screenshot shows a software window titled "Display/Change Attributes". At the top, there is a toolbar with several icons and a menu bar containing dropdown menus for various data types: *, SY, BI, BO, AI, DO, PG, C1, TR, TT, TF. The "BO" dropdown is currently selected. Below the menu bar is a table with the following columns: Type, Card, Channel, NCode, Attribute, and Value. The table lists various BO data points with their corresponding NCodes, attributes, and values. At the bottom of the window, there is a search criteria input field containing "BO" and a status bar showing "XMP-K32 BO-1-0", "1310", and "18".

Type	Card	Channel	NCode	Attribute	Value (select line, then click with right mouse key to change value)
BO	1	0	40	CV	0
BO	1	1	40	V1	*
BO	1	2	40	V2	*
BO	1	3	40	V3	*
BO	1	4	40	V4	0
BO	1	5	10	VR	1
BO	1	6	13	OP	0 Normally open
BO	1	7	12	EV	0 Disabled
			3	ON	0.0 Seconds
			3	OF	0.0 Seconds
			3	MO	0.0 Seconds
			3	M1	0.0 Seconds
			3	TD	0.0 Seconds
			130	NC	15
			130	NL	0
			132	RT	2277.6
			132	RL	0.0
			137	DC	01.01.1940

Please type search criteria: BO (Current Value)

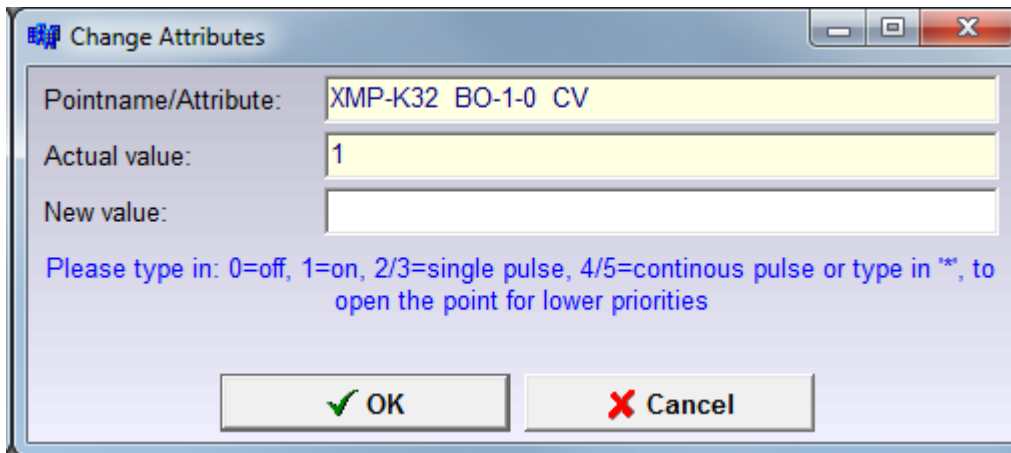
XMP-K32 BO-1-0 1310 18

On the left-hand side the available *BO* data points of the corresponding door control unit are listed with their technical addresses.

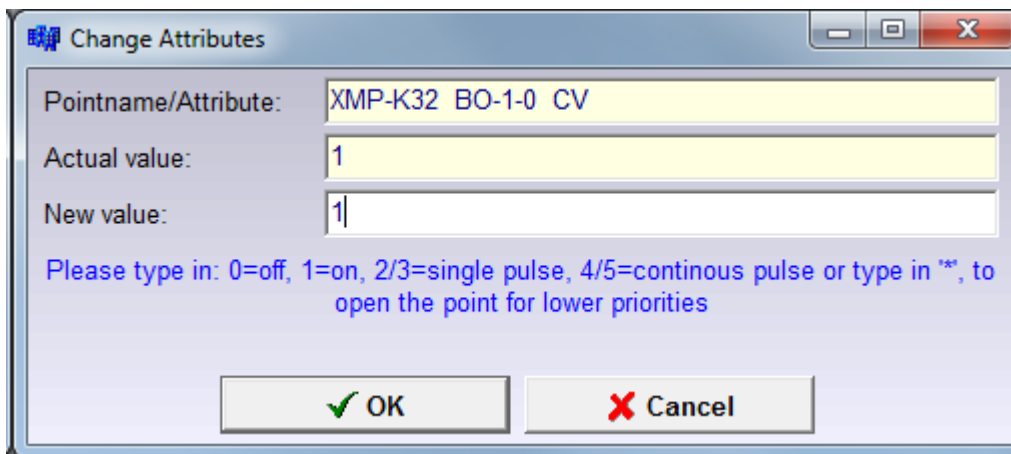
To the right the corresponding attributes (column *Attribute*) with ncodes (column *NCode*) and values (column *Value*) of the selected data point are listed. The *NCode* indicates the input/output format of the attribute value (whole-number or floating-point number with one digit after the decimal point).

Example 2: Changing the value of an attribute

To change the current value of an output, double-click or right-click on the attribute CV. The following window will be displayed:



The 'New value' can be set, for instance, to 1.



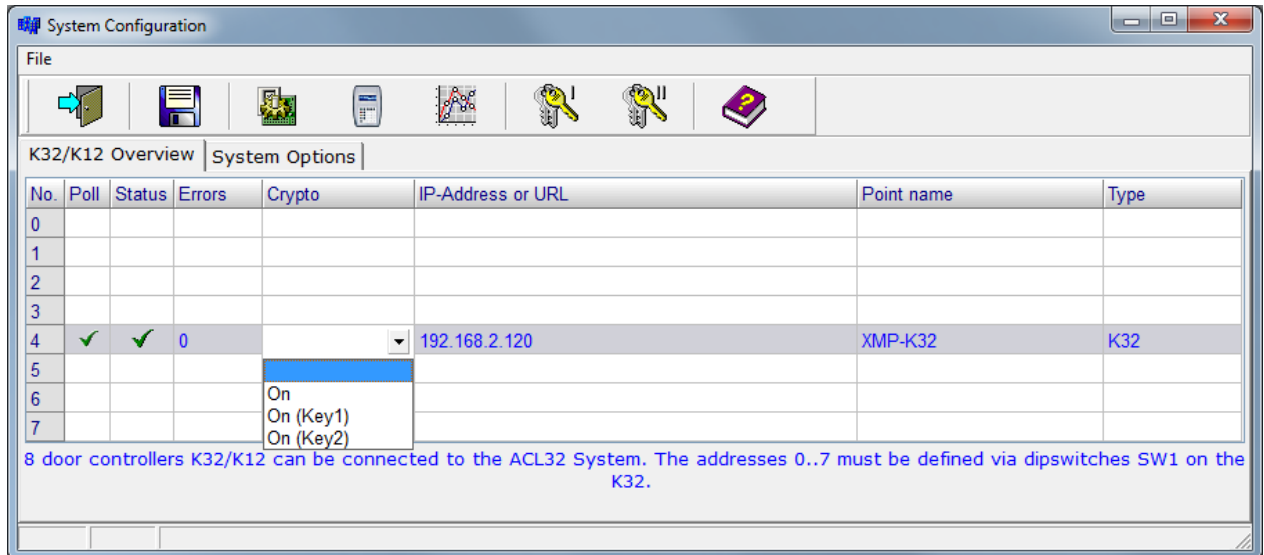
After confirming the entry with the <OK> button, the value of the CV attribute is 1 now, as shown below:

Type	Card	Channel	NCode	Attribute	Value (select line, then click with right mouse key to change value)
BO	1	0	40	CV	1
BO	1	1	40	V1	*
BO	1	2	40	V2	*
BO	1	3	40	V3	*



3.5 Encryption

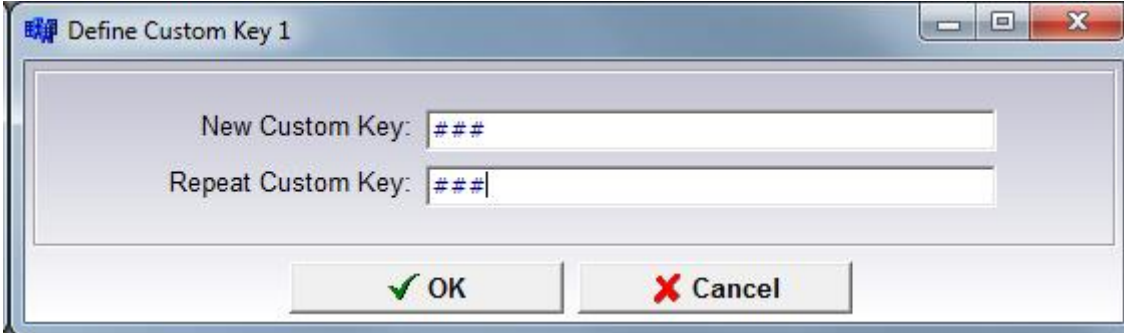
For activating the encryption between the door control unit and **XMP-ACL32**, *DIP switch No. 7* on *Micro switch block No. 3* of the door control unit has to be set to ON. If no encryption is used, the switch is set to OFF.

Furthermore, the encryption has to be activated in the “*System Configuration*” of the **XMP-ACL32** system. Please select the value *ON* in the pull-down menu of the data field *Crypto*:



You also can choose between *On (Key1)* for using the Key1 and *On (Key2)* for using Key2.

Both, Key1 and Key2, can be entered by the user. Therefore, the button  for Key1 or the button  for Key2 has to be clicked. Please enter the “*New Custom Key*” and repeat this key to confirm your entry:



Define Custom Key 1

New Custom Key: ###

Repeat Custom Key: ###

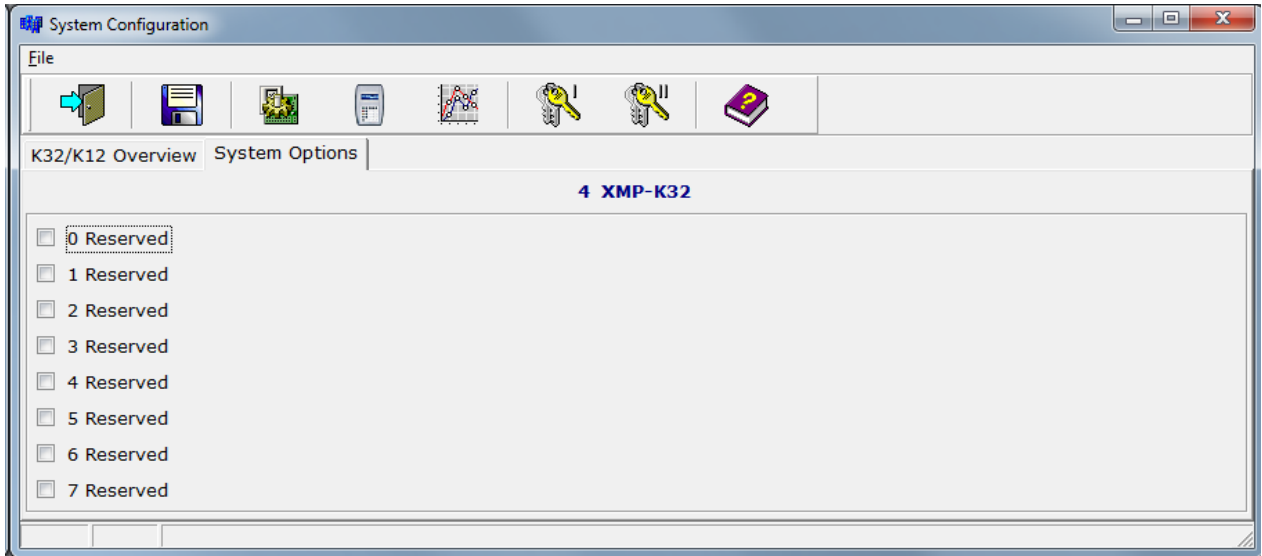
OK Cancel



If you want to work, for instance, with Key1 the information for using Key1 has to be downloaded to the door control unit (see also XMP-K32 configuration). After this, you have to restart the controller. Finally, the field *Crypto* in the “*System Configuration*” of **XMP-ACL32** has to be set to *On (Key1)* to activate the communication.

3.6 System Options

After clicking the tab 'System Options', the following window will be displayed:



These options are reserved for future use!

4 Document history

V1.0	05/24/07	Formatting, spelling and hardcopies
V1.1	03/04/09	Corrections
V1.2	07/26/13	Update and new layout (RM)



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