

The following instructions will show you how to configure the Salto CU42 hardware and ProAccess Space software to allow the use of a third party reader. In this example, we are using the Gatekeeper AVUTEC



The Gatekeeper board is wired to the Salto CU42E0 control unit as follows;

Data 0 – to the positive terminal on input 5 Gnd – to the negative terminal on input 5 Data 1 – to the positive terminal on input 6 Gnd – to the negative terminal on input 6

Important Wiring Note **

Do not use the ground (GND) use the ground (GND) from 'Power In'

Important Firmware Note **

Gatekeeper firmware need to be version 72 or higher.







	Third party readers	settings in th
		a 26-Bit Wieg
~	NAME	we will be de
	SALTO long-distance reader	Novincto to 6
	Wiegand 26	Navigate to 3

Next you will need to define the Wiegand ne ProAccess Space software, e are will be configured to send gand code so in this example fining that.

System > Third Party Readers > Click Add



- Type the name for the Third party reader you are configuring
- 2. Click add code
- 3. In the code box, type the letter 'A'
- 4. Leave bit order set to 'MSB'
- 5. Check the box 'variable number of digits'
- Finally under digit format check the box 'Decimal'



Next you need to fill out the parity information, as this reader uses 26-bit 12 Even, 12 Odd it is configured as follows:

Interface format should be 'A'

Bit Composition should be (2 Parity 24 Bits = 26 Bit

Parity rule 1 – EXXXXXXXXXXXXXX---(1 even parity, bits 2-13 are even

Parity rule 2 - -----XXXXXXXXXXXXXX (1 odd parity bits 14 – 25 are odd





Gateways (1)	Encoders (1) 🕴 Contro	d units (0)
NAME	O HOSTNAME/IP ADDRESS	- MAC ADDRESS
2 2	192,168,2,99	
🖌 📄 🦞 CU42E0 👞	192,168,2,90	0274F8
×014260	*	
🔲 🕴 Door A		
🗔 🍷 Door B		
► 🔄 🐙 CU4200		

The next step is to configure the inputs of the control unit the Gatekeeper board has been wired into.

1. Open and log into the Salto ProAccess Space software

- 2. Go to System > Salto Network
- 3. You will see you CU42E0 gateway, click the arrow on the left to drop the tree down now you will see the node.
- 4. Double click the node to open its settings (this is represented by a '_' followed by the gateways name.

U4200 gateway		Access point count	Access point #1	Access poi	
J42E0		2 🗸	Door A 👻	Door B	
			Updating mode only (UB0X)	Updating	
UTS					
ID.	TYPE		ארודה סוכיווא		
READER 1	None				
READER 2	SALTO wall reader	Access point #2, Entry			
INI	None				
IN2	None				
IN3	Normally closed	No	n supervised, Door detector, Access p	aint #2	
194	Normally opened	No	n supervised, Request to exit, Access	point #2	
N5	None				

You will now need to define the inputs (you will need 2 available) on the control unit so they are configured to take a third party reader;

- 1. In this case the Salto wall reader is not required Reader 1 is set to none, configure this according to your setup (You would leave the reader enabled if the customer wanted to use a Salto wall reader)
- 2. Double click input 5
- ⊗ **Edit input** IN5, IN6 Third party readers require 2 consecutive inputs Third party reader Entry/Exit Third party reader Access point number Access point #1 Entry Wiegand 26 ~ CANCEL 🗸 ок

ID

Type

- 3. Under Type select Third party reader, this will automatically use input 6 as well and will inform you it's doing so.
- 4. Select which access point on the control unit this will relate to and define if it's an entry or exit reader.
- 5. Select the Third party reader configuration that was set up previously (Wiegand 26Bit).
- **Click OK** 6.





Operators	BAS	Notifications	Now you will need to enable "Show
General	Devices	Hotel	authorisations code" so you can enter t
FORMATION			token that ties in with the user's Licens plate so it can be authenticated when the
	Property	y name	car is presented to the Gatekeeper came
			Navigate to > System > General Options
	Contact	phone number	and click the General tab
ETTINGS			Dut a check in the Chevy suth arisetion a
ETTINGS	ture in online monitori	ng	Put a check in the Show authorization c
ETTINGS Show user pict Disable collecti	ture in online monitori	ing ries on audit trail	Put a check in the Show authorization c
ETTINGS Chow user pict Disable collecti Show only aud	ture in online monitori ion of personal registr it trail events from ac	ing ries on audit trail cesible partitions locks	Put a check in the Show authorization c
ETTINGS Show user pict Disable collecti Show only aud Hide user man	ture in online monitori ion of personal registr it trail events from ac ual	ing ries on audit trail cesible partitions locks	Put a check in the Show authorization c
Show user pict Disable collect Show only aud Hide user man Show authorize	ture in online monitori ion of personal registr it trail events from act ual ation code	ng ries on audit trail cesible partitions locks	Put a check in the Show authorization c
ETTINGS Chow user pict Disable collecti Show only aud Hide user man Chow authoriza Number of extra	ture in online monitori ion of personal registr it trail events from act ual ation code days to keep ID of er	ing ries on audit trail cesible partitions locks rased users and operators	Put a check in the Show authorization c Click Save

- **Inject license plate**
 - 1. Install CortexClient. You can find it here: <u>https://avutec.com/support/</u> Support credentials are:



2. Start CortexClient and click login. Default credentials are filled in

AVUTEC					
administrator					
≙ •••••	•••••				
Login	Cancel				

3. If Gatekeeper is powered through POE+ and you PC is in the same network you should be able to see camera in local section of the Cortex Client navigator

✓ ➡ Local
 ▷ ■ 09dfc16d-1f2f-4c9d-a8bd-a42f270f5...





4. If it's not immediately there you can click right on local and refresh, but it should not be necessary.

4	Local	Ċ.	Refresh
		\sim	

5. Login into Gatekeeper by expanding camera node and fill credentials as below

09dfc16d-1f2f-4c9d-a8bd				
administrator				
cortex				
Remember me 🗸				
OK Cancel				

After login you should see camera connected with process gatekeeper running on it.

■ 09dfc16d-1f2f-4c9d-a8bd-a42f270f5...
 ▷
 [®] ▷
 [●] gatekeeper

Click gatekeeper process twice to see the view

6. To configure the Wiegand output click Additional tab on Gatekeeper0

IDS0 × Anpr0 × Gatekeep	er0 ×
Base Additional CSV	
	Wiegand settings
	Wiegand mode Hash
	Wiegand forr Database
4 🗘	Plain text
	Max user coc None
0 🗘	Configuration Start parity Stop parity
0 🗘	
60 🗘	

• Set Wiegand mode to "Hash"





7. Safe and restart the Cortex to enable the settings change.
Follow Step 1-2-3

	1) Safe cortex	2) Stop cortex	3) Run cortex
ļ	CortexClient	SortexClient	🔶 CortexClient
	Toolbox 4	Toolbox 4	Toolbox 4
	Search	Search	Search
	CortexConnect	CortexConnect	CortexConnect
	🔯 Direct	🐮 Direct	1 Direct
	4 🖶 Local	4 🖷 Local	4 🖶 Local
	🔺 🚪 💊 8f65a288-bc58-48c5-a36c-1edfe8157	4 🚦 🔒 8f65a288-bc58-48c5-a36c-1edfe8157	4 8f65a288-bc58-48c5-a36c-1edfe8157.
	Design cortex	Design cortex	Design cortex
	I Rename	X Rename	It::: Rename
	Stop Cortex	Stop Cortex	Run Cortex
	Get log	Cet log	× Delete cortex
I	Neuroinu	the Newsign	Ed Get log
	SP 14EW VIEW	sp rvew view	🏠 New view
	Save cortex	Save cortex	▲ Save cortex

8. To enable "Settings" for inject license plate go to the Design cortex window
Click on the cogwheel shown below



9. To inject license plate click Settings tab on ANPR view







npr Anj	r0 prview Se	ttings		
С	ountry priori	ty queue	#	Anpr axon settings 4
	Priority 💌	Country code		Catting
Þ	5	NL		Settings
	2	DE		Validator 🗸
	1	PL		Add debug images
	0	ME		
	0	RS		Auto priority
	0	IM		Licence plate injection
	0	RS		
	0	VA		NL.82-HDV-2 Send
	0	GB		
	0	UA		
	0	СН		
	0	SE	-	
	▲			

10. Then click Send on License plate injection section

11. After licence plate injection you should be able to see it in AnprThresholdAxon:

A	npr i hreshold	0 ×						*
Se	ttings			4	×	Image		# >:
4	NPR thresho	ld		1	:			
1	Aax character	diffe	rence	2	-			
				16	-			
	leanup perio	a		15	•	10000		
C	urrent thresho	old		#	×			
	Time		Licence plate					
•	11:20:19		NL82-HDV-2					
	11:23:19		NL 92 HDV 2		-			
_	11.24.45		146.02-110-1-2					
						10000000000		
						Anpr threshold li	st	4
						Last hit	Licence plate 🔻 Hit c	ount Passed
						11:26:18	NI 82-HDV-2	1

You can inject License Plate each 15 seconds. After it send once you can send it again when ANPR threshold list is empty:



We are sending 26bit Wiegand message with 5V signal. Gatekeeper is coming with pigtails cables. Layout of the cables is marked with stickers. Wires as follows:

GND	White
D0	Black
D1	Red



The ANPR Camera is sending a 26bit Wiegand sting that is in Decimal characters and can be calculated with the SALTO_ANPRV2 tool. This tool can be requested via SALTO business unit Nederland.

Cortex Client:

Cu	rrent threshold			
	Time 🔻	Licence plate		
۲	08:56:38	NL.82-HDV-2		

SALTO:

a user with authorization code: 15628248

SALTO_ANPRV2 tool:

	MainWindow	+	_ □	×
License Plate Converter		S, ins	ALT(piredacc	O ess
License Plate for authorizationcode	Licens	e Plate for author	izationcode	
License Plate 82HDV2 Convert	SH b! ec @ 26	IA1 String 5b0ab3bbafe83a7 19a9aee77d8 Bit () 64Bit	95c96e953a97]
Hexidecimal EE77D8 Decimal 15628248	Bii	hary		



S^ALTO

User Permissions

User ANPR				ACCESS POINTS
	Title	First name User ANPR	Last name	USER ACCESS LEVELS
	Ext ID		Type Card	ZONES
	Company		Request name applicant	
	Barcode			LOCATIONS/ FUNCTIONS
	ROM code (Auto	matic assignment)	Wiegand code	
	Authorization co			

Open the ProAccess Space software

Next you need to create user and Licence plate code (The Authorization code is calculated with the SALTO_ANPRV2 tool).

Navigate to Cardholders > Users and click Add users

Fill out the relevant fields, name, etc...

Under Authorization code for this user I will enter 15628248.

						ACCESS DOWN	
NAME	TIMETABLES	- 0	AYS PERIOD		PARTITION	AUGEAS POINT	
1	Always				General	.50	
	Always				General		
1208	Always				General		
Door A	Always				Building A	and the second	
Door B	Always				Building B		
Door C	Always				General	10.12	
Keypad	Always				General		
Room A	Always				General		
						CUTRUIS	
0.020104			_			LOCATIONS	
TOTAL: B			🕀 ADD	DELETE	D SAMEAS.	100 grants	

Click Save

Lastly you will need to ensure the user has access to the door.

- 1. Click Access points on the right of the user window you have just configured
- 2. Click add and delete
- 3. Double click the door they will need access to
- 4. Press ok
- 5. Press Save

Inject License plate with Cortex Client. The door should open and you will get a valid access event in the audit trail.



🗠 Online monitoring

ENT	ENTRY/EXIT	ACCESS POINT	CARDHOLDER/OPERATOR	DATE/TIME
Door opened (key)		Door A	User ANPR	2017-06-29 · 13:18:06