

ANGUSTOS VIDEO WALL CONTROLLER



2020 | 2021

ACVW4 CONTROLLER USER MANUAL



About ANGUSTOS

computer signals.

Angustos was founded in 2000 and is now regarded as of digital and analogue ky M solutions.

fortune 500 corporations.

use.

For more than 20 Vears our customers have been convinced by our co standardised distributing standardised

We are confirmed to established international standards. We can provide Ustomers with complete data center solutions as well as OEM/ODM

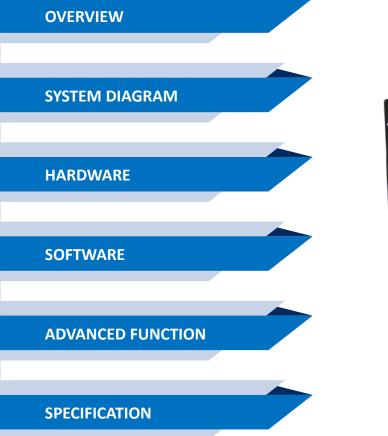
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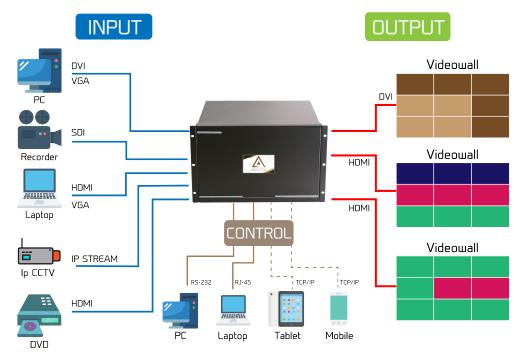
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1. Overview

ANGUSTOS video wall controller is a high performance video processing equipment based on hardware architecture. Which avoids common problems of crash, blue screen, viruses. It supports 4 layer video windows per display arbitrary layering, overlap, moving, stretching, zooming in/out, roaming, Picture In Picture.

2. System Diagram



3. Hardware

The front panel built-in with a touch screen, which you can control the scene mode save/recall, IP gateway settings etc.. As shown below:



3U Chassis rear panel for description

In the normal state (when power on the system or the touch screen is not touched for 12 or more seconds) ,the touch screen content will shown in the picture below.



Clicking on the touch screen, the interface will show as below.

1 6 11	2 7 12	3 8 13	4 9 14	5 10 15	Status
16	17	18	19	20	
		Recall	1		Setup

Touch the number item and recall menu to recall the saved scene mode by software. The setting interface is as following picture.

Baudrate	: 11	5200	•	IP :	192.168.3.1	01	9
Language	: Er	iglish	Sub N	Aask :	255.255.25	5.0	Status
Buzzer	:	0N	Gate	way :	192.168.3.	1	
DHCP	: 0	FF	٩	MAC : 10	-B8-2C-2B-	AB-89	
						đ,	Scene
1	2	3	4	5	6	$\langle \times \rangle$	
7	8	9	0		-		
A	В	С	D	Ε	F		< Q Setup

1. **[Baud rate]**: Set the baud rate. Click the [ENTER] button to enter the secondary menu, there are 4 baud rate options [1. 4800; 2. 9600; 3. 19200; 4. 115200]

2. [Language]: Language setting. There are two language choices Chinese and English.

3. [Buzzer]: Buzzer switch. Turn on/off the buzzer sound when operating the device.

4. **[Automatic search]**: IP automatic search function. Turn on/off the automatic search function of the device control port IP address.

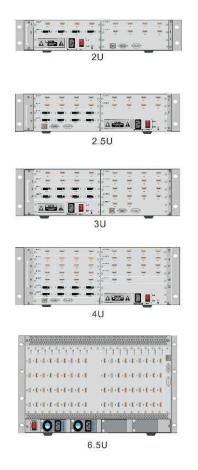
5. [IP]: IP settings. Modify the fixed IP address through following numbers and letters.

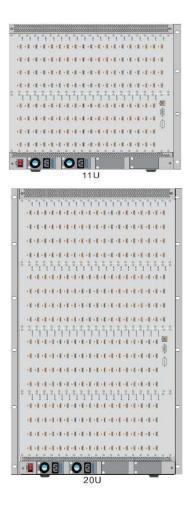
6. [Subnet mask]: Modify the subnet mask through following numbers and letters.

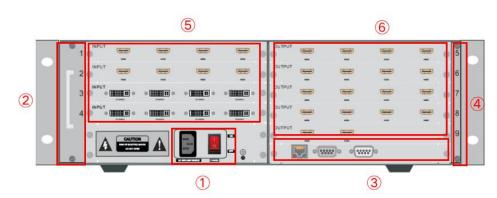
7. **[Gateway]**: Gateway settings.Modify the gateway through the following numbers and letters.The gateway needs to match the fixed IP address.

8. [MAC address]: Modify the MAC address through the following numbers and letters.

3.2 Rear Panel







3U Chassis rear panel for description

- ① Power supply and switch: AC220V 50HZ. Redundant power supply is optional.
- 2) Fan: The fan starts to work when power on.
- ③ RS232 IN and RJ45 network ports: Serial communication input to be connected with control computer or other control equipment. Or connect the equipment to the network for remote control;
- ④ Dust-proof net: Prevent dust from entering the machine to protect the board.
- (5) Input board: Input signal interface to be connect ed with external signal source;
- (6) **Output board:** Output signal interface to be connected with video wall displays.

Notes: Product images and description only for reference purpose, please see the subject product.

4. Software

Double click the application program to open the control software interface. The user name and password both are "admin".

Video Wall	Control Software
User Name: admin	*
Password:	
Connection: 192.168.	3.100 Settings
Communication	O Demo
Login	Cancel

Image: Construction Image: Construle Image: Construle			
Cu Dannel 2 Dannel 2 Dannel 4 Dannel 5 Dannel 6 Dannel 7 Dannel 1 Stramby & Dannel 10 Stramby	2	3	
© Caref 1 1 © Caref 2 0 © Caref 3 0 © Caref 4 0 © Caref 5 0 © Caref 8 0 % Ocaref 9 0 % Ocaref 10 0	2	3	
Channel 10			
4			
	5	6	
head Science Management			
Input Source Preview			

4.1 Control Port Connection

Click sub-menu [**Connect**] in **[Setting]** to pop up a dialog box as follows. The default baud rate is 115200. Select the corresponding COM port and click **[Set up]** to connect.

For the network connection control, click **[Search]** button to automatically obtain the IP address and device port. Then click **[Set up]** button to connect.

COM Port:	A REAL PROPERTY AND A REAL			
and a second second	COM8	7	IP Address:	192.168.3 .100
Baud Rate:	115200	~	IP Port	5000
Interval(ms):	1	 ▼	Interval(ms):	1
Delay(ms):	1	 ▼	Delay(ms):	1
1	Set up	1		Set up
[J)
PAddress: 192.	168.3 .100	Modify IP	Gateway: 192.10	58.3 .1 Modify
bnetMask: 255.	255.255.0	Modify	Aut	to IP
Baud Rate: 115	200 🔻	Modify	Fixe	ed IP
ontroller in the sa	ame LAN			
Search				

4.2 Video Wall Setting

Take 8 input and 6 output 2 layer windows video wall controller setting for example. Choose the machine type 2U **2windows-1** and Video wall type **Videowall** Row **2** and Column **4**, Max **2 windows** in single display Then click the icon **[Create]** and then **[Modify MCU]**.

Settings	Operation	Tools	Managem	nent						
(1) Connect VideoWall	Input Previe	w Intial Mode	S. IP Streaming	ScreenCo	onfig	1920x1080 6	0.00Hz 🔻			
Video Wall Setting										×
VideoWall								 -Machine Type- 2U 2Wins-1 -Video Wall		_
								VideoWall 1		*
1			2			:	3	Protocol Type – Start Channel:	Vide 1920x1080	
4									3 Max 2 Wir	The second secon
								Modify MCU	Create	urd Setting

4.3 Input Source Setting and Management

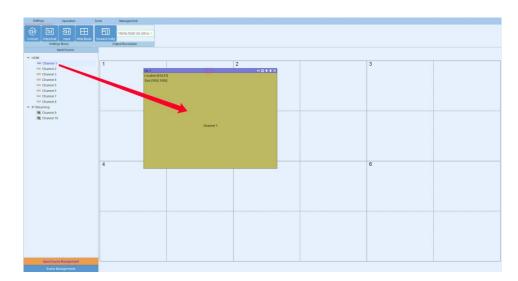
Input Source Setting

The user can set each card specification as the interface shown below.

No. Name Channel Card ID Machine ID Card Type Source Status Win Size Con Size Input Video Wall 1 Channel 1 0 1 MIN HDMI True (0,0,0x0) 0/0,0 0/0 2 Channel 2 2 1 MIN HDMI True (0,0,0x0) 0/0 0/0 3 Channel 3 3 2 1 MIN HDMI True (0,0,0x0) 0/0 0/0 4 Channel 4 3 1 MIN HDMI True (0,0,0x0) 0/0,0 0/0	(†1†) Conner		Previev	v Intial		}⊅ reaming S			0 60.00Hz 🔻			
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7 Channel 7 7 6 1 MIN HDMI True (0,0,0x) (0,0,0x) 0x0 8 Channel 8 8 7 1 MIN HDMI True (0,0,0x0) (0,0,0x0) 0x0 9 Channel 9 9 8 1 H26x IP Stream True (0,0,0x0) 0x0 0x0 10 Channel 10 10 9 1 H26x IP Stream True (0,0,0x0) 0x0 0x0 Machine 10 10 9 1 H26x IP Stream True (0,0,0x0) 0x0 0x0 Card 10 0 9 1 H26x IP Stream True (0,0,0x0) 0x0 0x0 Card 10 0 - - - - - - Card 10 - - Card 10 - Card 10 - Card 10 </td <td>5</td> <td></td> <td>11 C</td> <td>1975</td> <td><u></u></td> <td></td> <td>Notes and the second second</td> <td></td> <td></td> <td></td> <td></td> <td>Source Group No.: 1 🍦</td>	5		11 C	1975	<u></u>		Notes and the second second					Source Group No.: 1 🍦
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Card ID 0 Machine ID 11 Card Type MIN Source Type HDMI			289	22.1	<u></u>	A Store 1988	and a state of the second			Contraction (1971)	and the second second	Channel No.: 1
												Card Type MIN V Source Type HDMI V
< Contirm Cancel								1				

Input Source Management

On the left side of the software interface, there is a input sources list. As shown below. Select one input signal and drag it to the right side of the display area to realize signals switching. Double-click the input signal to change its name.



Input source setting

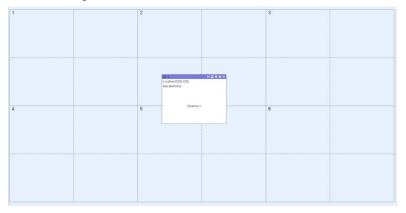
Right click the input source, it will pop up a sub-menu for input source setting. Such as text overlap in inputs and input source cropping.



4.4 Video Window Operation

Open video window

Press and drag the left mouse button in the operation interface to create a rectangle window, as show in the figure below.



Adjust video window size and position

Move the mouse pointer on the video window, then press and drag it to move the window to an appropriate position. Move the mouse pointer to the bottom right of the window, and then drag it to change the window size when it turns into a two-way arrow.

Window menu operation

X

+

There are five menus at the top of each window. Its available for users to do windows operation. The black full line in operation area represents screen frame. The dotted line represents blocks in single screen unit.

Close: Close the current video window

Top and Bottom: Change window level to be on the bottom or the top.

Full screen display: Click the menu to realize current operation window to be displayed in the entire video wall. Click this button again, it will return to previous size.

1 2 0.2 # 9.2 0.000/071202 0.000/071202 0.000/071202	5	NG AND HANDA	
Operat 1			
4 5	6	Devi	

Return: Click the menu, the operation window will be displayed fully in the single screen of the current upper-left angle.

Click sub-menu [Clear] of [Operation] menu, all the video windows will be deleted.

Click sub-menu **[New]** of **[Operation]** menu, video windows will be displayed in single screen of the video wall, as shown in the figure below.

1 march 1 march 1	68 7 ±		♠ 법 # # X No 3	
ation.(0,0)		Location (1920.0)	Location [3840,0]	
e (1920,1080)		Size [1920.1080]	Size [1920, 1080]	
	Channel 1	Channel 1		Channel 1
	Gnatines 1	Citatines 1		Channel 1
4	60F±	Not	4:23 € ± × №.5	÷01
ation (0, 1080)		Location [1920, 1080]	Location [3840, 1080]	
a (1920,1080)		Size:[1920,1080]	Size [1920,1080]	
	NUMBER OF STREET			No. of Concession, Name of
	Channel 1	Channel 1		Channel 1

-

Click sub-menu **[Lock]** of **[Operation]** menu to lock all video windows, and all the windows cannot be moved but the user can open a new window on it.

Click sub-menu [Unlock] of [Operation] menu to unlock all the windows.

Click sub-menu **[Initial mode]** of **[Settings]** to select the window layers for single screen before you operate the **New** function.

4.5 Scene Mode Save/ Recall and Cycle

Scene Mode Save

Click the sub-menu [Save] in [Operation] menu to save current video wall layout.

The scene name can be edited.

Save Scene		×
	ID:	1
	Scene Name:	Scene_1
	Confirm	Cancel

Scene mode recall

There are **[Scene Management]** menu at the bottom left interface.

Click the menu [Load] to recall the mode and choose [Confirm] to take it effect.

Click the menu **[Delete]** to delete the saved scene mode data.

	Scene Man	agement	
1	Scene_1	Load	Delete
2	Scene_2	Load	Delete
3	Scene_3	Load	Delete

at cation (0.0)	410 B B B X	No.2 Cocalion(1920.0)	41 + 8 + 3 × 8m 3 Lecalus (3840.0)	4.23
a (1920, 1080)		See (1820, 1894)	Skar (1920), 1000)	
	Channel 1	Chassed 1	Durvel 1	
aliun (0, 1280) (11020, 1060)		9945 Lucatiny(1928-1988) Seu (1928-1948)	45 22 # (#) K Leader 2005 1000 Bus (1001 000)	*24
	Channel 1	Channel 1	Otannel 1	

Scene mode cycle

Click the sub-menu **[Cycle]** in **[Operation]** menu, then add the cycle scenes to the list and choose **[Interval]** time for each mode. Clicking the icon "**Start**" to start the cycle.



5. Advanced Function

5.1. IP Streaming Setting

Firstly set the IP input card type to 26X via Settings-Input-Card type and select the **[Source type]** as IP Stream. As shown in the following picture:

Set	tings Operation	ı	Tools		Management	1					
(tit) Connec		Preview ngs Menu	Intial		aming So	creenConfig OL	1920x1080				
lnput 🗧	Source Setting										×
No.	Name	Channel	Card ID	Machine ID	Card Type	Source	Status	Win Size	Con Size	Input	
1	Channel 1	1	0	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	VideoWali1 *
2	Channel 2	2	1	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	Parameters Setting
3	Channel 3	3	2	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	
4	Channel 4	4	3	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	Device Source: 10
5	Channel 5	5	4	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	Source Group No.: 1
6	Channel 6	6	5	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	
7	Channel 7	7	6	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	Create
8	Channel 8	8	7	1	MIN	HDMI	True	(0,0,0x0)	(0,0,0x0)	0x0	Parameters Setting
9	Channel 9	9	8	1	H26x	IP Stream	True	(0,0,0x0)	(0,0,0x0)	0x0	
10	Channel 10	10	9	1	H26x	IP Stream	True	(0,0,0x0)	(0,0,0x0)	0x0	Channel No. 9
											Card ID 8 Machine ID 1 Card Type H26x Source Type IP Stream Channel Status Open Channel
<										>	Confirm Cancel

Select the sub-menu [IP streaming] of [Settings] menu, the interface as shown below.

IP Streaming Inputs		Sele	ectAll	Select None	Inverse	Add	Delete				Searc	hIP	Clear IP
Channel 9		-											
Channel 10		NO.	Check	К			IP Stream	ming Address					Add
onumer to		1		192.168.3.11									
		2		192.168.3.10									
		3		192.168.3.12									
		4		192.168.3.15									
		Start IF	1	1	IP 192.168.0.2			Password	admin S	uffix			Batch Ad
		NO.	Check	k		IP Streamin	ng URL			Iser Nam	Password	Preview	Delet
	*1 2*2 3*3 4*4	1		rtsp://192.168.3	3.11:554/Stream	ing/Channels/10:	2?transport	mode=unicas	t&profile=Prof	il admin	abc12		
	rtsp:// admin:abc123456@192.168.3.1	2		rtsp://192.168.3	8.10:554/stream	1?usemame=ad	min&passw	vord=0659C79	992E2689623	admin	abc12		
	stream1?us emame=admin&password=065	3		rtsp://192.168.3	8.12:554/cam/re	almonitor?chann	el=1&subtyp	oe=0&unicast	=true&proto=0	D admin	abc12		
ofile_2	7FAFE88364	4		rtsp://192.168.3	8.15:554/cam/re	almonitor?chann	el=1&subty	oe=0&unicast	=true&proto=0	D admin	abc12	Verify	De
tsp:// rdmin.abr123456@1921683:	rtsp:// admin:abc123456@192.168.3.1 cam/realmo.nitor?												

Note: In this interface, you need to click **[Search IP]** first. The process takes about 1 minute to search the IP streaming cameras which on a same network segment with the control computer. The software will list the searched camera IP address in the blank space above. Then manually add other IP streaming cameras that need to be displayed on the video wall to the blank space below. All the camera IP address are different but the administrator account and password can be repeated.

Select the display mode and drag the camera signals to the window. Then click **[Save]** and **[Update all]**. Finally restart the controller.

Right clicking the IP streaming signal, it will appear the display mode and network setting. The user can change the display mode and modify IP input card address here.

IP Streaming			Network	×
Channel 9	Split Mode 🕨	Show 1x1		
Channel 10	Network	Show 1x2	IP Address: 192.168.3 .200	Update
-		Show 2x1		
		✓ Show 2x2	SubnetMask: 255.255.255.0	Update
		Show 3x3	Gateway: 192.168.3 .1	Update
		Show 4x4	Galeway. 132.100.3.1	Opulate

5.2 Preview and Echo

Click the sub-menu [Preview] of [Settings], the software interface as shown below.

Search: Search the preview board IP address.

Clear: Clear the selected echo board IP.

Board ID: Preview board ID.

Display mode: 1 * 2, 2 * 2, 3 * 3, 4 * 4

Preview board type : 2 to 4 by default

Modify IP: Modify the preview board IP address, gateway, etc.

Setting: Set the display mode to be effective.

Channel selection: There are 4 sub-channels and each sub-channel corresponds to 4

display layout, that is the input signals number each sub-channel can echo.

Application: Input signals are arranged on the channel selection in the lower right

corner according to requirements.

Reset: Clear all preset echo channels.

		Search	Board IP	192.168.0	.231	₹	Clear
NO.		Boards IP	Board ID	17			
19	92.168.0.231-17		Dound in			V	
1!	92.168.0.137-13		Mode:	2*2		₹	
			Board Type:	2 to 4	🔵 4 to 4		
							-
			IPSetting				Setting
Null		Channel SubChannel-1 🔻 🗹 Ena	able		Rest	ət	Apply
Char	nnel 1 nnel 2	Channel SubChannel-1 V Ena	able		Rest	et	Apply
Char Char	innel 1	Channel SubChannel-1 V Ena	able		Rese	et	Apply
Char Char Char Char	nnel 1 nnel 2 nnel 3 nnel 4		able		Rese Channel 2	et	Apply
Chai Chai Chai Chai Chai	nnel 1 nnel 2 nnel 3 nnel 4 nnel 5	Channel SubChannel-1 - Channel Channel Channel 1	ible			et	Apply
Chai Chai Chai Chai Chai Chai	nnel 1 nnel 2 nnel 3 nnel 4 nnel 5 nnel 6		ible			et	Apply
Char Char Char Char Char Char Char	nnel 1 nnel 2 nnel 3 nnel 4 nnel 5		able			et	Apply
Char Char Char Char Char Char Char	nnel 1 nnel 2 nnel 3 nnel 4 nnel 5 nnel 6 nnel 7		able			ət	Apply

After the setting, open the input source preview.

Input Source Management		
Input Source Preview	Preview	Echo
Scene Managements	Video (

5.3 Screen Control

Control Clicking the sub-menu [Control] in menu [Operation], it will show as below.

Select the **[Load]** or **[Close]** to power on or power off the video wall display.

Control Screen Control		×
screen1	screen2	Select All
screen3	screen4	Cancel Ail
screen5	screen6	Load
		Close
		Spare Use 1
		Spare Use 2
		Spare Use 3
		Spare Use 4

Settings	Operation	Tools	Management
kground Picture	Common To	and a state of the	reen Control
-Video Wall	earing		
VideoWall1 *			
COM Setting			
COM Port	:OM8	* B	aud Rate: 115200 👻 Set
Culating Brotogs	is Screen Control	Dratasat	
CASENG Protoco	is outern control		F
) Custom	Send HEX	Code 📀 Send T	fext Command Interval(ms): 1
-Custom Comma Screen Power On			Screen Power Off Command:
fff	Gommana.		ff
Spare User 1			Spare User 2
Spare User 3			Spare Use 4

Screen control setting

The user can load the existing screen control protocol or custom control protocols.

The custom protocol should be sent in HEX or character.

5.4 Background Image

[Load] the background picture and click [Upload]

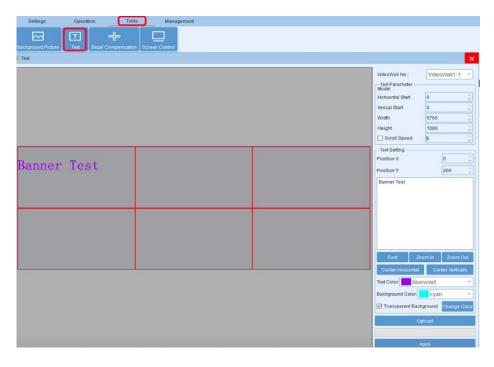
Clicking **[Loading]** after the Upload finished. Then restart the controller.

Settings	Operation	Tools	Management				
	+						
Background Picture	Bezel Compensation	Screen Control					
Background Pic	ure Upload						×
						VideoWall No. :	VideoWali1-1 *
						Ur	l Image Noad ading

5.5 Scrolling Text

Set the font display position, color and background color, scrolling speed or no scrolling.

Then click Upload and Apply.Restart the device after the setting is finished.



Note: The background image and text can only controlled by LAN port.

6. Specification

Model	ACVW2 SERIES	ACVW4 SERIES		
Chassis Size	2U,3U, 6.5U,11U,20U	2.5U,4U,6.5U,11U,20U		
Input Interface Number	8/8 16/24 36/48 76/88 152/176	16/20 32/40 36/48 76/88 152/176		
Output Interface Number	12/8 18/12 36/24 72/60 144/120	9/8 18/12 36/24 72/60 144/120		
Innut Interface Tune	DVI/HDMI/DP/VGA/YPbPr/CVBS	DVI/HDMI/DP/VGA/YPbPr/CVBS		
Input Interface Type	SDI/IP/HDBaseT	SDI/IP/HDBaseT		
Output Interface Type	HDMI/ DVI/ IP	HDMI/ DVI/ IP		
Input Decolution	1920*1200@60 Hz	1920*1200@60 Hz		
Input Resolution	4092*2160@30 Hz	4092*2160@30 Hz		
Output Resolution	1920*1200@60	1920*1200@60		
Image Layer in Each Display	2	4		
Power Supply	100~240V,50~60Hz	100~240V,50~60Hz		
Working Temperature	-20°C ~ +70°C	-20°C ~ +70°C		
Control Method	Front panel touch screen,RS232,IP	Front panel touch screen,RS232,IP		





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