SUPrema

Suprema Integration with Nedap AEOS **SETUP GUIDE**

Version 1.1.1.3 English

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Target Audience

This document describes the integration between Suprema biometric devices and Nedap AEOS using Suprema Integration with Nedap AEOS.

This document is intended for system operators as well as system administrators. The system operators/administrators require basic knowledge of the Nedap AEOS system and Suprema biometric devices.

Introduction

Features

Suprema Integration with Nedap AEOS is a programming interface that allows the Nedap AEOS platform to communicate with the Biometric Management System, which is able to generate user biometric templates with Suprema biometric devices and manages user information from the AEOS on the devices. With Suprema Integration with Nedap AEOS, you can easily setup and build the Biometric Management System for the AEOS using Suprema biometric devices.

Suprema Integration with Nedap AEOS provides the following features:

- Allows to add, update, and delete users and Wiegand cards, as well as register each user's fingerprint templates.
- Offers a web page for enrolling fingerprint. It can add or delete 10 fingerprint templates for a user.
- Without installing an independent web server.
- Provides a service for user information synchronization among the devices connecting to the server of Suprema Integration with Nedap AEOS.
- Allows to connect and manage up to 1,000 Biometric Devices.

NOTE

• For more details on the functionality of AEOS platform, see the user manuals for Nedap AEOS.



System diagram

Installation

Prerequisites

The following prerequisites are required to use Suprema Integration with Nedap AEOS. Check the support conditions before installing the Suprema Integration with Nedap AEOS.

- Operating system
 - Microsoft Windows 7(x86 / x64), Microsoft Windows 10(x64)
- Web browsers
 - Chrome, New Microsoft Edge
- AEOS
 - AEOS 2020.1.1 or higher
- Biometric Device
 - BioStation 2, BioStation A2, BioStation L2, BioEntry W2, BioLite N2, XPass 2, FaceStation 2, FaceLite, FaceStation F2

Configuration procedure



Install Suprema Integration with Nedap AEOS

Suprema Integration with Nedap AEOS Setup file

- **1** Run the Suprema Integration with Nedap AEOS 1.1.1.3 setup file.
- **2** To continue the installation, click **Next**.

Setup - Suprema Integration with Nedap AEOS version 1.1.1.3		×
License Agreement Please read the following important information before continuing.		
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.		
Software End User License Agreement	^	
SUPREMA INC. SOFTWARE LICENSE AGREEMENT		
PLEASE READ THE FOLLOWING TERMS AND CONDITIONS CAREFULLY BEFORE INSTALLING OUSING THE SOFTWARE OR ANY ACCOMPANYING DOCUMENTATION (COLLECTIVELY, THE "SOFTWARE").	R	
THE TERMS AND CONDITIONS OF THIS SOFTWARE LICENSE AGREEMENT ("AGREEMENT GOVERN USE OF THE SOFTWARE UNLESS YOU AND SUPREMA INC ("COMPANY") HAV EXECUTED A SEPARATE AGREEMENT GOVERNING USE OF THE SOFTWARE.	") /E ~	
● I accept the agreement		
\bigcirc I <u>d</u> o not accept the agreement		
Next >	Can	el

3 Enter the IP address of the server PC and click **Next**. The default port used is 44301.

🙀 Setup - Suprema Int	_		×		
Input Server IP and Please input server	l port IP and port.			0	
Server IP :	192.168.0.1				
Port number :	44301				
		< <u>B</u> ack	<u>N</u> ext >	Can	icel

4 Select the installation path of the Suprema Integration with Nedap AEOS and click **Next**.



5 Select whether to create a desktop shortcut.

😰 Setup - Suprema Integration with Nedap AEOS version 1.1.1.3 – 🛛 🗙	
Select Additional Tasks Which additional tasks should be performed?	,
Select the additional tasks you would like Setup to perform while installing Suprema Integration with Nedap AEOS, then click Next.	
Additional shortcuts:	
Create a <u>d</u> esktop shortcut	
< Back Next > Cancel	

6 Click **Finish** to end the installation process

🔯 Setup - Suprema Integration with	😰 Setup - Suprema Integration with Nedap AEOS version 1.1.1.3 – 🗆 🛛					
	Completing the Suprema Integration with Nedap AEOS Setup Wizard Setup has finished installing Suprema Integration with Nedap AEOS on your computer. The application may be launched by selecting the installed shortcuts. Click Finish to exit Setup. Start Service for Suprema Integration with Nedap AEOS Launch Suprema Integration with Nedap AEOS					
	Einish					

7 Click **Finish** to complete installing Suprema Integration with Nedap AEOS.

Configuration

Suprema Integration with Nedap AEOS

Setting device administrator

Suprema devices with LCD requires a device administrator to control access privilege to the device menu. The integration software will ask to create a device administrator on its first launch. Follow the instructions below to create and apply the device administrator

- 1 Launch the Suprema Integration with Nedap AEOS client.
- 2 Enter the ID, name, password of the device administrator. Only numeric is allowed on the ID and password.

m Enroll default d	evice administrator	×
ID		
Name		
Password		
The devices Enroll a Only NI	require at least one administrator account. an administrator with access privileges. JMERIC is allowed on ID and password. New	

Applying License

The Suprema Integration with Nedap AEOS offers a 30-day trial. After this period, a license needs to be applied. The license can be activated online and offline. If the network has restrictions on outbounds follow the steps for offline activation.

Online Activation

- 1 Launch the Suprema Integration with Nedap AEOS client.
- **2** Go to the **License** tab.

Suprema Integration with Nedap AEOS Manager						
Device	Preset:Card	Issue Log	License			
License User Na	ame					
Offline	Activation	Request Offl	ine Key	Offline Activate		

3 Enter the user name and received activation key then click **Online Activate**.

Suprema Integrat	ion with Nedap AEOS Ma	nager		_		×
Device Preset:Car	rd Issue Log License					
License						
User Name		Activation Key		Online	e Activate	•
Offline Activation	Request Offline Key	Offline Activate				

Offline Activation

- 1 Launch the Suprema Integration with Nedap AEOS client.
- **2** Go to the **License** tab.

M Suprema Integration with Nedap AEOS Manager						
Device	Preset:Card	Issue Log	License			
License User Na	ame					
Offline Activation Request Offline Key Offline Activate						

3 Click **Request Offline Key** and save the request file. Send the request file to your distributor. A license file will be delivered within a few days.

Suprer	ma Integration	with Neda	p AEOS Ma	anager
Device	Preset:Card	Issue Log	License	
License User Na	ame			
Offline	Activation I	Request Off	line Key	Offline Activate

4 Click Offline Activate and select the license file received.

Suprema Integration with Nedap AEOS Manager							
Device	2	Preset:Card	l Issue Log	License			
- Licen User	se Na	ime					
Offlin	ie i	Activation	Request Off	line Key	Offline Activate		

AEOS

Configure AEOS properties for Suprema Integration

To launch the fingerprint enrollment page in AEOS platform, you must configure certain options in AEOS.

- 1 Open the AEOS₩AEserver₩standalone₩configuration folder.
- 2 Open aeos.properties file.
- 3 Set the Suprema Identifier type and the Suprema Integration web server URL as shown below. The 'serverIP' needs to be replaced to the actual IP address of the server PC.

4 The name of the biometric management system needs to be same with the AEOS identifier that will be used.

- bioapi.settings.server.bms1.id = 1 •
- bioapi.settings.server.bms1.name = The name of the identifier from AEOS that will be used
- bioapi.settings.server.bms1.uri = https://serverIP:44301/bioapi
- bioapi.settings.server.bms1.optional.carrierName = true
- bioapi.settings.server.bms1.optional.cards = true
- bioapi.settings.server.bms1.optional.PIN = true
- bioapi.settings.server.bms1.Content-Security-Policy=default-src 'self' https://serverIP:44301 https://serverIP:44301/WECClient 'unsafe-inline' 'unsafe-eval'; script-src 'self' https://serverIP:44301 https://serverIP:44301/WECClient https://serverIP:44301/bioapi/cmdfingers/scan 'unsafe-inline' 'unsafe-eval'; object-src 'self' https://serverIP:44301 https://serverIP:44301/WECClient 'unsafe-inline' 'unsafe-eval'; img-src 'self' data

Example settings:

```
#bioapi.settings.server.bms0.name=Test0
#bioapi.settings.server.bms0.uri=<u>https://testserver0:8444/bms/</u>
#bioapi.settings.server.bmsl.name=Testl
#bioapi.settings.server.bms1.uri=<u>https://testserver1:8443/bms</u>
#bioapi.settings.server.bms1.api.service.username=myname
#bioapi.settings.server.bmsl.api.service.password=mvpassword
#bloapi.settings.server.bmsl.optional.cards=true
#bloapi.settings.server.bmsl.optional.cards=true
#bioapi.settings.server.bmsl.optional.PIN=true
```

bioapi.settings.server.bmsl.id=1

bioapi.settings.server.bmsl.name=Suprema bioapi.settings.server.bmsl.uri=<u>https://192.168.12.169:44301/bioapi</u>

bioapi.settings.server.bmsl.optional.carrierName=true

bloapi.settings.server.bmsl.optional.cards-true bioapi.settings.server.bmsl.optional.PIN=true bioapi.settings.server.bmsl.Content-Security-Policy=default-src 'self' <u>https://192.168.12.169:44301 https://192.168.12.169:44301/WECCLient</u> 'unsafe-inline' 'unsafe-eval'; script-src 'self' https://192.168.12.169:44301 https://192.168.12.169:44301/WECClient https://192.168.12.169:44301/bioapi/cmdfingers/scan object-src 'self' https://192.168.12.169:44301 https://192.168.12.169:44301/WECClient 'unsafe-inline' 'unsafe-eval'; img-src 'self' data; 'unsafe-inline' 'unsafe-eval'

Sample with IP address

bioapi.settings.server.bms1.id = 1

bioapi.settings.server.bms1.name=Suprema

bioapi.settings.server.bms1.uri=https://192.168.0.1:44301/bioapi

bioapi.settings.server.bms1.optional.carrierName = true

bioapi.settings.server.bms1.optional.cards=true

bioapi.settings.server.bms1.optional.PIN=true

bioapi.settings.server.bms1.Content-Security-Policy=default-src 'self' https://192.168.0.1:44301 https://192.168.0.1:44301/WECCI ient 'unsafe-inline' 'unsafe-eval'; script-src 'self' https://192.168.0.1:44301 https://192.168.0.1:44301/WECClient https://192.16 8.0.1:44301/bioapi/cmdfingers/scan 'unsafe-inline' 'unsafe-eval'; object-src 'self' https://192.168.0.1:44301 https://192.168.0.1: 44301/WECClient 'unsafe-inline' 'unsafe-eval'; img-src 'self' data

Configure AEOS for Suprema Integration

You can configure Suprema Integration on the Administration menu.

- **1** Run AEOS and click Administration > Maintenance > Settings > System Properties.
- **2** Select the biometric server name for the default verification type, then click **OK**. If the drop-down box is not enabled, enter the name used on the configuration from page 10.

12.04	Default verification method	V
12.12	Default number of days for visitor verification validity	
12.13	Default number of days for employee verification validity	
12.14	Default number of days for contractor verification validity	
12.17	Holiday schedule overrules verification disabled schedule	
12.36	Default BioAPI verification method (overrides default verification method)	Suprema 💌
13.01	Export events, using eventfilter:	T

3 Check **Enable biometric API**.

44.30	Enrollment Bioscript fingerprint	
44.31	Document scanner	
44.32	Enrollment Hitachi fingervein	
44.33	Enrollment Kosmos weight	
44.34	Enrollment Sagem fingerprint	
44.36	Enable biometric API	V
44.37	4 eyes verification	

4 Click **OK** and apply the changes.

5 Restart the AEOS Application Server service.

ile Action View	Help						
-							
Services (Local)							
Services (Local)	 Services (Local) 						
	AEOS Application Server	Name	Description	Status	Startup Type	Log On As	
		ActiveX Installer (AxInstSV)	Provides Us		Manual	Local Syste	
	Stop the service	🔍 Adaptive Brightness	Monitors a		Manual	Local Service	
	Kestart the service	AEOS Application Server		Started	Automatic	Local Syste	
		AEOS Lookup Server	S	tart	matic	Local Syste	
		Application Experience	Proce S	top	al	Local Syste	
		Application Identity	Deter p	-	al	Local Service	
		Application Information	Facili	ause	al	Local Syste	
		C. Application Layer Gateway	Provi	esume	al	Local Service	
		Application Management	Proce R	lestart	al l	Local System	
		ASP.NET State Service	Provi A	II Tacks	k al	Network S	
		Background Intelligent Tra	Trans		matic (D.,,	Local System	
		Base Filtering Engine	The B R	lefresh	matic	Local Service	
		Biostar Integration for Nedap	Biom .		matic	Local Syste	
		BitLocker Drive Encryption	BDES	roperties	al	Local Syste	
		Block Level Backup Engine	The V H	lelp	al l	Local System	
		Bluetooth Support Service	The Blueton		Manual	Local Service	
		Rranch Cache	This service		Manual	Network S	
		Certificate Propagation	Copies user		Manual	Local System	
		CNG Key Isolation	The CNG ke		Manual	Local Syste	
		COM- Event System	Sunnertr Sv	- Started	Automatic	Local Senice	
		COM- System Application	Magazer th	. accreated	Manual	Local Suite	
		Computer Browser	Maintainc a	Started	Manual	Local System	
		Credential Manager	Drouider re	acenced	Manual	Local System	
		Contographic Services	Provides Se	Charter	Automatic	Network S	
		COM Server Process Laws	The DCOM	Started	Automatic	Local Surta	
		C Deckton Window Manager	Provider De	Started	Automatic	Local System	
		Cestop Window Manager	Paulatan an	Charled Charled	Automatic	Local Casting	
		Disgnartic Policy Service	The Disens	Started	Automatic	Local Service	
		Diagnostic Policy Service	The Disease	Surred Started	Manual	Local Service	
		Diagnoscic Service Host	The Diagno	acarted	Manual	Local Service	
		Charles Defense and the st	The Diagno		Manual	Local System	
	Etradual (Duradual (we Disk Detragmenter	FIOVICIES DIS.		manuar	Local System	

Install certificate (Client PC)

- **1** To access the Suprema biometric enrollment screen from AEOS at a client PC, the root certificate needs to be installed.
- **2** Open the C:\Program Files (x86)\Suprema\Suprema Integration with Nedap AEOS\cert folder from the server PC.
- **3** Copy **the SupremaIntegrationWithNedapAEOS.root.crt** to the client PC
- **4** Install the certificate.

NOTE

• The browser needs to be restarted for the certificate to be applied for usage.

Biometric Device

Configure biometric device's network settings

Biometric devices must be connected on the server of Suprema Integration with Nedap AEOS to be used as an enrollment device or a reader.

1 Run Suprema Integration with Nedap AEOS Manager and click **Search**.

m Suprema Integration with Nedap AEOS Manager				
Device Preset:Card		Issue Log	License	
Sear	Search Advanced			
🔺 🕞 Sup	 Suprema Integration 			
Device -> Server				
	Server -> Device			

2 Select the device for connecting to Suprema Integration with Nedap AEOS Manager and then click Add.

Searce	h Devices			- 0	×
	Device ID	Туре	IP Address	Name	\sim
V	233	FaceStation 2	192.168.12.171	FaceStation 2 233 (192.168.12.171)	
	237	FaceStation 2	192.168.12.144	FaceStation 2 237 (192.168.12.144)	
	505	BioLite N2	192.168.120.151	BioLite N2 505 (192.168.120.151)	
	506	BioLite N2	192.168.12.166	BioLite N2 506 (192.168.12.166)	
	823	BioLite N2	192.168.12.225	BioLite N2 823 (192.168.12.225)	
	10000006	BioStation 2	192.168.12.242	BioStation 2 10000006 (192.168.12.242)	
	525255555		192.168.12.177	525255555 (192.168.12.177)	
	540093006	BioStation L2	192.168.12.83	BioStation L2 540093006 (192.168.12.83)	
	541530857	BioStation A2	192.168.12.92	BioStation A2 541530857 (192.168.12.92)	
	541530858	BioStation A2	192.168.12.107	BioStation A2 541530858 (192.168.12.107)	
					~
				Add Close	

3 The added device will appear on the left panel.

🍿 Suprema Integration with Nedap AEOS Manager					
Device	Preset:Card		Issue Log	License	
Sear	ch Advanced				
 Suprema Integration 					
Device -> Server					
▲ 🕞 Server -> Device					
FaceStation 2 233 (192.168.12.171)					

NOTE

• If the connected device is not displayed on the panel, restart Suprema Integration with Nedap AEOS Manager.

Configure biometric device's wiegand settings

Biometric devices outputs data to the AEpu Controller by Wiegand. The device's wiegand format and other settings can be managed from the **Suprema Integration Manager**.

INCIE

• The Suprema Integration with Nedap AEOS is set to work with Mifare Classic cards. The devices will need a specific configuration to be set to send out proper wiegand signals on a successful authentication.

1 Select the device to manage from the device panel.

2 Click the Wiegand tab.

Suprema Integration with Nedap AEOS Manager	
Device Preset:Card Issue Log License	
Search Advanced	
🔺 🕞 Suprema Integration	
🕞 Device -> Server	
✓ Server -> Device	Information Network Wiegand Card Configuration
FaceStation 2 233 (192.168.12.171)	Mode OUT ~ Length 32 🗭 🗌 ByPass
	CSN Card
	Byte Order MSB 🗸 🗌 Wiegand Format

3 From the **Wiegand** tab, select **Custom Format** from the drop-down menu for **Type**.

Suprema Integration with Nedap AEOS Manage	er
Device Preset:Card Issue Log License	
Search Advanced	
🔺 🔜 Suprema Integration	
Device -> Server	
4 🕞 Server -> Device	Information Network Wiegand Card Configuration
FaceStation 2 233 (192.168.12.171)	Mode OUT · Length 32 🕞 ByPass Type Custom Format ·
	CSN Card Out Pulse
	Pulse width (µs) 40
	Byte Order MDB Vilegand Format Pulse interval (µs)

4 Set the Length to 32.

Suprema Integration with Nedap AEOS Manage	r	
Device Preset:Card Issue Log License		
Search Advanced		
Suprema Integration		
 Device -> Server Server -> Device 	Information Network Wiegand Card Configuration	
FaceStation 2 233 (192.168.12.171)	Mode OUT V Length 32 😨 🗌 ByPass	Type Custom Format ~
	CSN Card	Out Pulse Pulse width (up) 40
	Byte Order MSB · Wiegand Format	Pulse interval (µs) 10000

5 Click the **Add** button.

Suprema Integration with Nedap AEOS Manage	r
Device Preset:Card Issue Log License	
Search Advanced	
Suprema Integration	
Device -> Server	
▲ Server -> Device	Information Network Wiegand Card Configuration
FaceStation 2 233 (192.168.12.171)	Mode OUT v Length 32 A DByPass Type Custom Format v
	CSN Card Out Pulse
	Pulse width (μs) 40
	Byte Order MSB Viegand Format Pulse interval (µs) 10000
	+ -
	type start bit position end bit position size binary

6 Set the End Bit Position to 31 and click Apply.

Suprema Integration with Nedap AEOS Manag	er —	
Device Preset:Card Issue Log License		
Search Advanced		
Suprema Integration		
Device -> Server		
A Server -> Device	Information Network Wiegand Card Configuration	
FaceStation 2 233 (192.168.12.171)	Mode OUT v Length 32 🗭 🗆 ByPass Type Custom Format	~
	Byte Order MSB Wiegand Format Pulse width (µs) 40 Pulse interval (µs) 10000 10000 10000	4
	ID type start bit position end bit position size binary ID0 0 31 32 111111111111111111111111111111	*
	- uny	+ -
	type parity pos parity code hexadecimal binary	
	Apply To Others	Apply
1.1.1.3 The license has expired.		

Biometric Credential Enrollment

NOTE

• In order to enroll fingerprints on AEOS, users to enroll fingerprints, entrances and time schedules must be set in AEOS. This document describes how to set these conditions. For more information, refer to the AEOS manual.

Enroll biometric credentials

Once you have configured Suprema Integration with Nedap AEOS, you can enroll and manage fingerprints of user on the AEOS platform.

1 Enroll Biometric Identifiers button will appear when the cardholder has an identifier.

Employee	
Last name* First name Middle name Title Gender Telephone no. Mobile no. E-mail Language Person(nel) no. Department	Suprema Date from* 24/11/2020 Date until Date until Creation date 24/11/2020 17:06 Unknown V Last time seen Last time denied 24/11/2020 17:13 Last time denied Can be user
Contact	
Contact person	Clear Telephone no.
Authorization	
Template	Access during holidays >>
Identification	
Identifier type	Suprema Identifier X 2345 I >> Enroll Biometric Identifiers

2 Click the Enroll Biometric Identifiers button.

Identifier	2345	Device	BioLite N2	2 545394887 (192.168.12	.170) 💙 (2)
User Name	Lee	• Quality		•	(6
	- I	Fingerprint	Face Smart	Card	
Not Enrolled		Enrolled	NC	DNE	
Right Thumb Right Index Right Middle Right Ring Right Little Left Thumb Left Index Left Middle	> <				
Left Ring Left Little			Raw Image	Raw Image	

Enroll Fingerprint

1	Click Fingerprint and select the device to capture fingerprint.
---	--

 Identifier 	2345	• D	evice	BioLite N2	2 545394887 (192.168.12	.170) 🗸 (2
 User Name 	Lee	• Q	uality			(6
		Fingerprint	Face	Smart	Card	
Not Enrolled		Enrolled		NC	DNE	
Right Thumb Right Index Right Middle Right Ring Right Little Left Thumb Left Index Left Middle	>					
Left Ring Left Little				Raw Image	Raw Image	

2 Select a finger to enroll from the left panel and click the right arrow button. Then, click **Scan** to scan the fingerprint.

 Identifier 	2345	Device	BioLite N2	2 545394887 (192	.168.12.170) 🗸
User Name	Lee	• Quality		•	
	Finger	rprint Face	Smart	Card	
Not Enrolled	Enr	olled	Right	Index	
Right Thumb Right Middle Right Ring Right Little Left Thumb Left Index Left Middle Left Ring	> Right Inde:	x			Scan
Left Little			Raw Image	Raw Image	

 Identifier 	2345	Device	BioLite N2 545394887 (192.168.12.170)
• User Name	Lee	• Quality	
		Fingerprint Fa	ace Smart Card
Not Enrolled		Enrolled	Right Index
Right Thumb Right Middle Right Ring Right Little Left Thumb Left Index Left Middle Left Ring Left Little		yht Index	Scan Duress

3 Click **Enroll** to confirm the enrollment.

Enroll Face

1 Select **Face** and select the device to capture face.

 Identifier 	2345	• De	vice	FaceStation 2 233 (192.168.12.171)	~
• User Name	Lee	• Pos	e Variation		_
	[Fingerprint	Face	Smart Card	
Not Enrolled		Enrolled		NONE	
1st Pose 2nd Pose 3rd Pose 4th Pose 5th Pose					

2 Select the index of the pose. Then, click **Scan** to scan the face. One face template is recommended per user.

Identifier	2345	•	Device	FaceStation 2 233 (192.168.12.171)	♥ (
User Name	Lee	•	Pose Variation	•	
		Fingerprint	Face	Smart Card	
Not Enrolled		Enrolled		1st Pose	
2nd Pose 3rd Pose 4th Pose 5th Pose		st Pose		Scan	

3 Click **Enroll** to confirm the enrollment.

 Identifier 	2345	• Device	FaceStation 2 233 (192	168.12.171) 🗸 🗸
• User Name	Lee	Pose Variatio	n	(4
Not Enrolled	Fing	perprint Face	Smart Card	
2nd Pose 3rd Pose 4th Pose 5th Pose	> 1st Pose			Scan

Troubleshooting

When Suprema Integration with Nedap AEOS web service does not work normally

- Check if the certificate is correctly applied to the AEOS keystore.
- Check the version of OpenSSL installed. OpenSSL version 1.0.2I or later that supports the TLS 1.2 protocol must be installed.

When the device can not connected to Suprema Integration with Nedap AEOS web service

• If you have BioStar 2 installed on your PC, make sure the BioStar 2 server is stopped. The device can be connected to the BioStar 2 server first when the window is restarted. If possible, use BioStar 2 and Suprema Integration with Nedap AEOS on different PCs.

Appendices

- The path of the system components is shown below.
 - Configuration file: (C:\Program Files (x86)\Suprema\Suprema Integration with Nedap AEOS\conf\server.json)
 - Database: (C:\Program Files (x86)\Suprema\Suprema Integration with Nedap AEOS\db)

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