Data Sheet - BAScontrol22



BAScontrol22 - 22-point BACnet/IP Sedona Unitary Controller

The BAScontrol22 is a 22-point unitary controller which supports BACnet/IP and Sedona Framework using a 2-port Ethernet switch connection. The controller complies with the B-ASC device profile having a convenient mix of 8 universal inputs, 4 binary inputs, 4 analog outputs and 6 relay outputs. Unique to the unit are 48 web components which link Sedona wire sheet readable/writeable data to web pages, and 24 virtual points which link Sedona wire sheet readable/writeable data to a BACnet client. The device is fully web page-configurable, and freely programmable using Sedona's drag-and-drop

programming methodology of assembling components onto a wire sheet to create applications. The unit can be programmed using Niagara Workbench AX or a third-party Sedona programming tool such as Sedona Application Editor (SAE). Rugged design, low profile, and wide temperature operation make it suitable for indoor or outdoor use. To download the free Sedona Application Editor, visit: www.ccontrols.com/sae. For more information about Sedona, SAE, kits, components and programming download the Sedona Reference Manual at: www.ccontrols.com/sedona

Versatile Control Device — unitary controller or remote Ethernet I/O

- BACnet/IP compliant with a B-ASC device profile
- Resident Sedona Virtual Machine (SVM)
- Programmable via Workbench AX or Sedona Editor
- Configurable with a common web browser
- Direct connection to Ethernet network
- NTP or manually-settable real-time clock
- COV subscriptions 14 binary and 2 analog
- Outdoor temperature operation -40°C to +75°C

Flexible Input/Output — 22-points of physical I/O

- Eight configurable universal inputs: Thermistor, resistance, analog voltage, binary input, pulse inputs (4 max)
- Four contact closure inputs
- Four analog voltage outputs
- Six relay outputs



BASC22-R has six relay outputs







BAScontrol22 — Overview

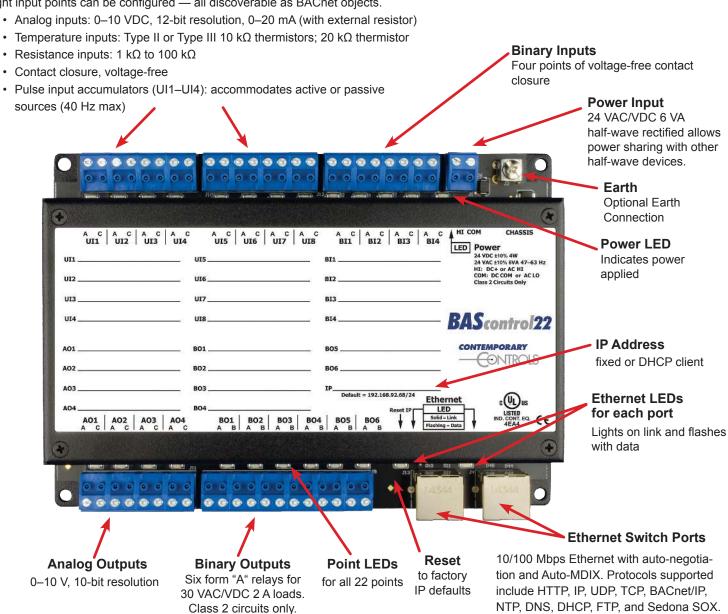
The BAScontrol22 utilizes a powerful 32-bit ARM7 processor with 512 kB of flash memory plus a 16 Mbit serial flash file system for storing configuration data and an application program.

By operating at the BACnet/IP level, the BAScontrol22 can share the same Ethernet network with supervisory controllers and operator workstations. The unit can be configured for a fixed IP address or can operate as a DHCP client receiving its IP address from a DHCP server. A real-time clock with a supercap backup allows for creating local schedules.

Via a 10/100 Mbps Ethernet switch, the Ethernet port supports protocols such as BACnet/IP, Sedona SOX, HTTP and FTP. Configuration of universal inputs and virtual points can be accomplished using web pages. Type II and type III 10 k Ω thermistor curves and a 20 k Ω thermistor curve are resident in the unit. Current inputs can be measured using external resistors. Contact closures require a voltage-free source. Binary inputs and outputs as well as analog outputs require no configuration. The unit is powered from either a 24VAC/VDC source.

Universal Inputs

Eight input points can be configured — all discoverable as BACnet objects.

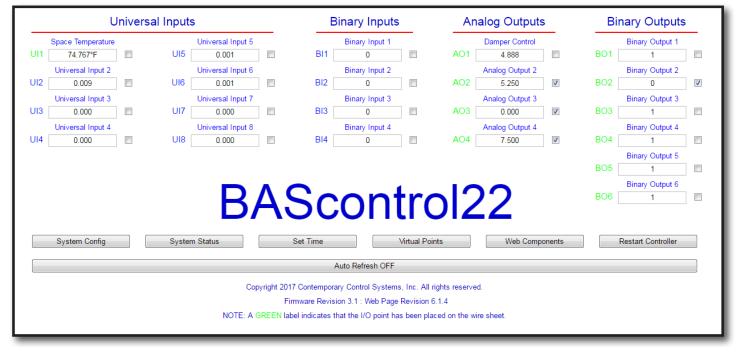


Web Page Configuration — Main Page and System

Access to the web pages is intended for the installer or skilled technicians. In order to access any of the web pages authentication is required. The default IP address is 192.68.92.68 and the default User Name and Password is admin/admin. Once on the main page, the System Configuration button can be clicked.

The main web page provides an overview of all real points plus access to other web pages. To configure a

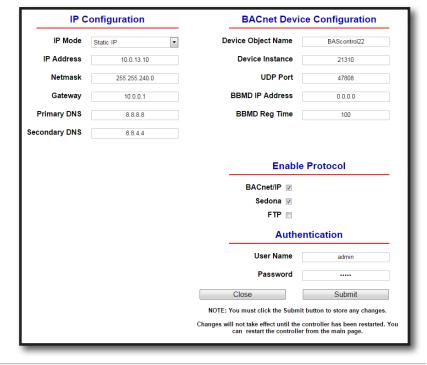
point, click on the point and a configuration page will appear. To observe the updated data for each point, click Auto Refresh button to ON. Point values can be temporarily forced by checking the box adjacent to the point and entering a value into the point's text box (make sure Auto Refresh button is OFF). The value will remain forced until the box is unchecked or the unit power cycled. Care must be exercised when forcing values into points.



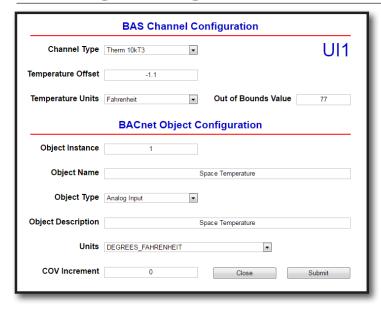
The IP settings can be changed to the desired values. Either DHCP or a static IP address can be selected. If a static address is desired, enter the value along with the network mask and gateway address. If domain address is required, enter in the Primary and Secondary DNS addresses.

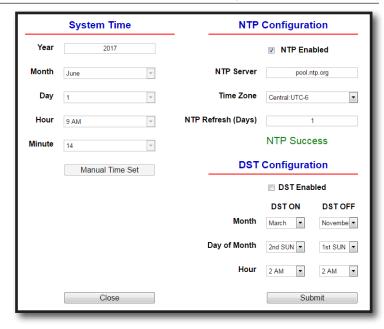
BACnet device data must be entered when using BACnet. Make sure the Device Instance and Device Object Name are both unique over the complete BACnet Internetwork.

Either BACnet or Sedona protocols or both can be selected.



Web Page Configuration — Channel, Time and Web Components

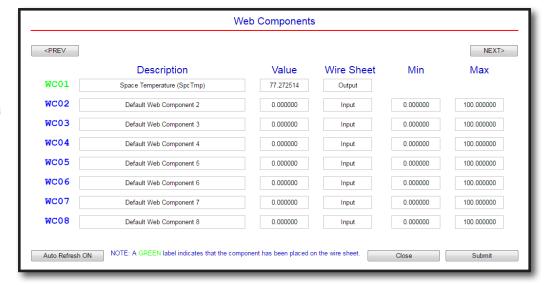


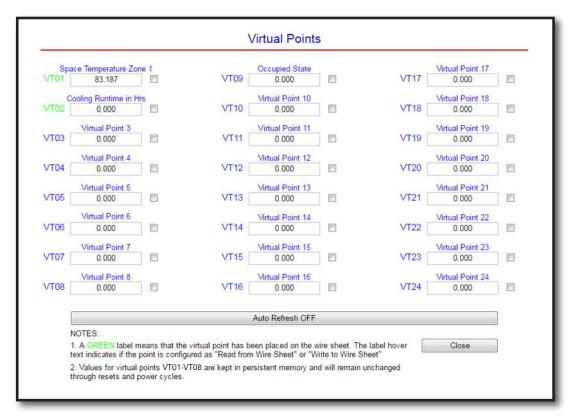


The BAS Channel should be configured first.
Universal inputs must first be defined which may lead to more requests for information. Once the BAS Channel is configured, the BACnet Object Configuration can be accomplished. Although the BACnet Object Instance is predefined, the Object Name can be entered and Units can be selected with the drop-down. The COV Increment can be specified for those channels intended for COV reporting by the BACnet client device.

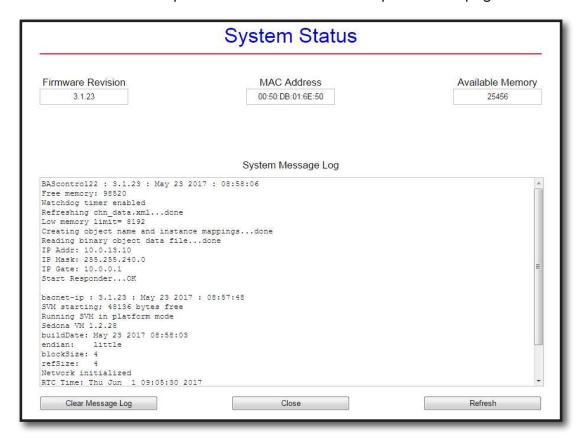
Time and date can be set manually or with the help of a NTP server if access to the Internet is possible. Daylight Savings Time can also be supported. Manually-set time is backed up for seven days through the use of a supercap in the event of power loss. If accessing an NTP server using domain names, make sure the DNS servers are specified in the System Configuration screen.

Separate web pages allow for the configuration of up to 48 web components. Web components provide a means to write and read data to and from Sedona wire sheets without the need of a Workbench tool. A web component configured as a wire sheet input can have its input range restricted to minimum and maximum values eliminating the need to add limit detection within the wire sheet logic. Web components are ideal for simplified control logic configuration.





The 24 virtual points are viewable from a separate web page.



The System Status page provides information on the controller.

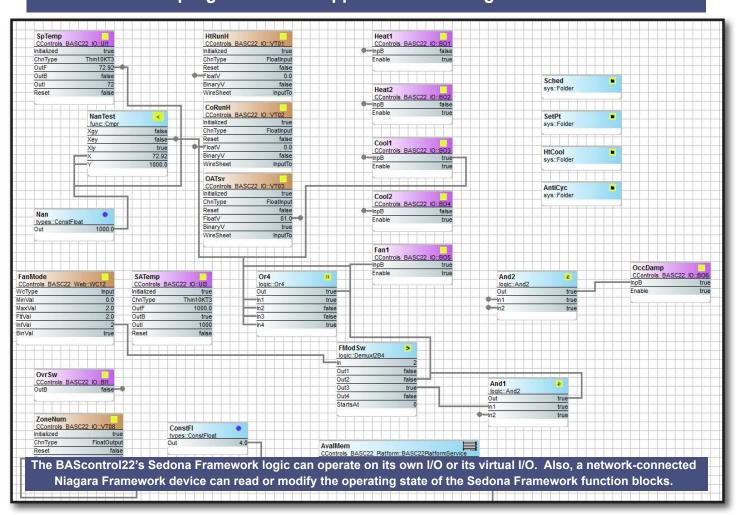


Powered by a Sedona Virtual Machine — for Implementing Control

The BAScontrol22 incorporates Sedona Virtual Machine (SVM) technology developed by Tridium. Using established Tridium tools such as Niagara Workbench AX, a system integrator can develop a control application using Workbench's powerful dragand-drop visual programming methodology. Once developed, the program remains stored in the BAScontrol22 and executes by way of the SVM. The application can run standalone in the BAScontrol22 or it can interact with a program in a Tridium JACE supervisory controller over Ethernet. The number of potential applications is only limited by the imagination of the system integrator.

The BAScontrol22 includes Tridium's Sedona 1.2 kits of components — and Contemporary Controls' product-specific and non-product-specific kits. The BAScontrol22 IO Kit components provide 22 physical points, virtual points and four retentive counters. The BAScontrol22 Web Kit has 48 components that share data with web pages. Input components receive data from hosted web pages. Output components send data to hosted web pages. The Contemporary Controls' Function kit provides additional components for increased flexibility.

The free Sedona Application Editor, Workbench AX, or a third-party Sedona tool can be used to program Sedona applications running on the BAScontrol 22.



Contemporary Controls' Developed Sedona Components

BAScontrol22 I/O Kit BAScontrol22 platform specific components		Universal input – binary, analog voltage, thermistor, resistance or accumulator Universal input – binary, analog voltage, thermistor or resistance
BAScontrol22 Web Kit BAScontrol22 platform specific components	WC01 – WC48	Web components – share wire sheet data with the BAScontrol22 web pages
Contemporary Controls Function Kit Common to Sedona 1.2 compliant controllers		Two-input Boolean product – two-input AND/NAND gate with complementary outputs Four-input Boolean product – four-input AND/NAND gate with complementary outputs Six-input Boolean product – six-input AND/NAND gate with complementary outputs Eight-input Boolean product – eight-input AND/NAND gate with complementary outputs Comment – comment field up to 64 characters Two-input Boolean sum – two-input OR/NOR gate with complementary outputs Four-input Boolean sum – four-input OR/NOR gate with complementary outputs Six-input Boolean sum – six-input OR/NOR gate with complementary outputs Eight-input Boolean sum – eight-input OR/NOR gate with complementary outputs °C to °F – Celsius to Fahrenheit Temperature Conversion "D" Flip-Flop – D-style Edge-triggered Single-bit Storage °F to °C – Fahrenheit to Celsius Temperature Conversion High – Low Preset – defined logical true and false states Psychrometric Calculator – English Units Psychrometric Calculator – SI Units Set/Clear Latch – single-bit level-triggered single-bit data storage



7

Tridium's Sedona 1.2 Components

The HVAC Group operations that facilitate control	Reset	Linear Sequencer — bar graph representation of input value Reheat sequence — linear sequence up to four outputs Reset — output scales an input range between two limits Thermostat — on/off temperature controller
The Scheduling Group scheduling operations based upon time of day	DailySc DailyS1 DateTime	Daily Schedule Boolean — two-period Boolean scheduler Daily Schedule Float — two-period float scheduler Time of Day — time, day, month, year
The Function Group convenient functions for developing control schemes	Count Freq Hysteresis IRamp Limiter Linearize LP Ramp SRLatch TickTock	Comparison math — comparison (<=>) of two floats Integer counter — up/down counter with integer output Pulse frequency — calculates the input pulse frequency Hysteresis — setting on/off trip points to an input variable IRamp — generates a repeating triangular wave with an integer output Limiter — Restricts output within upper and lower bounds Linearize — piecewise linearization of a float LP — proportional, integral, derivative (PID) loop controller Ramp — generates a repeating triangular or sawtooth wave with a float output Set/Reset Latch — single-bit data storage Ticking clock — an astable oscillator used as a time base Float counter — up/down counter with float output
The Priority Group prioritizing actions of Boolean, Float and Integer variables		Prioritized boolean output — highest of sixteen inputs Prioritized float output — highest of sixteen inputs Prioritized integer output — highest of sixteen inputs
The Types Group variable types and conversion between types	ConstFloat ConstInt F2B F2I I2F L2F WriteBool WriteFloat	Binary to float encoder — 16-bit binary to float conversion Boolean constant — a predefined Boolean value Float constant — a predefined float variable Integer constant — a predefined integer variable Float to binary decoder — float to 16-bit binary conversion Float to integer — float to integer conversion Integer to float — integer to float conversion Long to float — long integer to float conversion Write Boolean — setting a writable Boolean value Write Float — setting a writable float value Write integer — setting an integer value
The Logic Group logical operations using Boolean variables	And2 And4 ASW ASW4 B2P BSW Demuxl2B4 ISW Not Or2	Boolean switch — selection between two Boolean variables
The Timing Group time-based components	OneShot	Off delay timer — time delay from a "true" to "false" transition of the input On delay timer — time delay from an "false" to "true" transition of the input Single Shot — provides an adjustable pulse width to an input transition Timer — countdown timer
The Math Group math-based components	Add4 Avg10 AvgN Div2 FloatOffset Max Min MinMax Mul2 Mul4 Neg Round Sub2 Sub4	Two-input addition — results in the addition of two floats Four-input addition — results in the addition of four floats Average of 10 — sums the last ten floats while dividing by ten thereby providing a running average Average of N — sums the last N floats while dividing by N thereby providing a running average Divide two — results in the division of two float variables Float offset — float shifted by a fixed amount Maximum selector — selects the greater of two inputs Minimum selector — selects the lesser of two inputs Min/Max detector — records both the maximum and minimum values of a float Multiply two — results in the multiplication of two floats Multiply four — results in the multiplication of four floats Negate — changes the sign of a float Round — rounds a float to the nearest N places Subtract two — results in the subtraction of two floats Subtract four — results in the subtraction of four floats Time average — average value of float over time



BACnet Protocol Implementation Conformance (PIC) Statement



BAScontrol22

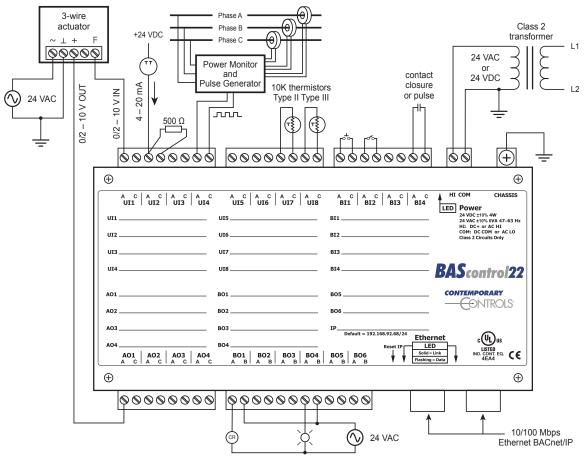
BACnet/IP Sedona Field Controller



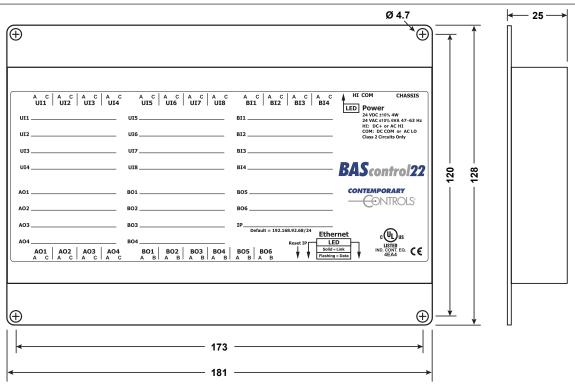
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☐ Able to transmit segmente				
		v Size:		
Standard Object Types Supporte		D 0 4 1D : "		
Object Type Supp	orted Car	Be Created Dynamically	Can Be Deleted Dynamically	
Analog Input Analog Output		No No	No No	
Analog Output Analog Value		No No	No	
Binary Input		No	No	
Binary Output		No	No	
Binary Value		No	No	
Device		No	No	
No optional properties are supported.				
Data Link Layer Options: BACnet IP, (Annex J) BACnet IP, (Annex J), For ISO 8802-3, Ethernet (Cla ANSI/ATA 878.1, EIA-485 MS/TP master (Clause 9), Device Address Binding:	use 7) ARCNET (Clause 8), b baud rate(s):	☐ Point-To- ☐ Point-To- aud rate(s): ☐ LonTalk, ☐ Other:	clave (Clause 9), baud rate(s): -Point, EIA 232 (Clause 10), baud rate(s): -Point, modem, (Clause 10), baud rate(s): (Clause 11), medium: unication with MS/TP slaves and certain other	
devices.) \[Yes \]		necessary for two-way commi	unication with MS/TP slaves and certain other	
Networking Options: Router, Clause 6 – List all Annex H, BACnet Tunnelli BACnet/IP Broadcast Man Does the BBMD support	ing Router over IP nagement Device (BBMI	D)		
Character Sets Supported: Indicating support for multiple ☑ ANSI X3.4 ☐ ISO 10646 (UCS-2)		t imply that they can all be su ^M DBCS □ ISO	pported simultaneously. O 8859-1 S C 6226	
If this product is a communication No gateway support.	on gateway, describe t	the types of non-BACnet eq	uipment/network(s) that the gateway support	



Wiring Diagram



Dimensions (all dimensions are in mm)



Specifications

Universal Inputs (Points UI1 through UI8)

Configured As Characteristics

Analog input 0–10 VDC or 0–20 mA (with external resistor).

Input impedance 1 $M\Omega$ on voltage.

Temperature input Type II 10 k Ω thermistors: -10° to $+190^{\circ}$ F (-23.3° to $+87.8^{\circ}$ C)

Type III 10 k Ω thermistors: -15° to +200 °F (-26.1° to +93.3°C)

20 k Ω thermistors: 15° to 215° F (–9° to +101° C)

Contact closure input Excitation current 0.5 mA. Open circuit voltage 12 VDC.

Sensing threshold 3 VDC (low) and 7 VDC (high). Response time 20 ms.

Pulse input (Points UI1–UI4) 0–10 VDC for active output devices

0–12 VDC for passive devices (configured for internal pull-up resistor)

40 Hz maximum input frequency with 50% duty cycle.

Adjustable high and low thresholds.

Resistance $1 \text{ k}\Omega$ -100 k Ω range

Binary Inputs (Points BI1 through BI4)

Contact closure Excitation current 1.2 mA. Open circuit voltage 12 VDC

Sensing threshold 3 VDC (low) and 7 VDC (high). Response time 20 ms

Analog Outputs (Points AO1 through AO4)

Analog output 0–10 VDC. 10-bit resolution. 4 mA maximum

Binary Outputs (Points BO1 through BO6) (Class 2 circuits only — requires external power source)

Binary output Normally open relay contacts. 30VAC/VDC 2A

Regulatory Compliance

CE Mark; CFR 47, Part 15 Class A; RoHS

UL 508, C22.2 No. 142-M1987







Functional Ethernet

Compliance IEEE 802.3

Protocols supported BACnet/IP, Sedona SOX, HTTP and FTP

Data rate 10 Mbps, 100 Mbps
Physical layer 10BASE-T, 100BASE-TX

Cable length 100 m (max)
Port connector Shielded RJ-45

LED Green = Link established

Flash = Link activity

Electrical

Input (DC or AC)	DC	AC
Voltage (V, ± 10%)	24	24
Power	4 W	6 VA
Frequency	N/A	47–63 Hz



Specifications (continued)

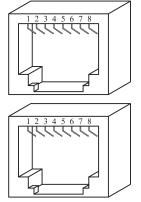
Environmental/Mechanical

Operating temperature -40°C to +75°C -40°C to +85°C Storage temperature

Relative humidity 10–95%, noncondensing

Protection IP30

Weight 0.6 lbs. (.27 kg)



RJ-45 Pin Assignments

10BASE-T/100BASE-TX

Terminal	Usage
1	TD +
2	TD –
3	RD +
6	RD –
Other pins	Not Used

Electromagnetic Compatibility

Standard	Test Method	Description	Test Levels
EN 55024	EN 61000-4-2	Electrostatic Discharge	6 kV contact & 8 kV air
EN 55024	EN 61000-4-3	Radiated Immunity	10 V/m, 80 MHz to 1 GHz
EN 55024	EN 61000-4-4	Fast Transient Burst	1 kV clamp & 2 kV direct
EN 55024	EN 61000-4-5	Voltage Surge	2 kV L-L & 2 kV L-Earth
EN 55024	EN 61000-4-6	Conducted Immunity	10 Volts (rms)
EN 55024	EN 61000-4-11	Voltage Dips & Interruptions	1 Line Cycle, 1 to 5 s @ 100% dip
EN 55022	CISPR 22	Radiated Emissions	Class A
EN 55022	CISPR 22	Conducted Emissions	Class B
CFR 47, Part 15	ANSI C63-4	Radiated Emissions	Class A

Ordering Information

Model Description

BASC-22R BAScontrol22 BACnet Server 22-Point 6 Relays 2xRJ45 Switch

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