Eliwell Refrigeration Expert XP /10

Remote monitoring and maintenance for small retail

20240710 - Mauro De Barba

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Remote monitoring and maintenance for small shops, restaurants, refrigerated warehouses

Refrigeration Expert XP is the ready-to-use, quick, and simple solution for monitoring and remotely maintaining refrigeration systems for up to 10 equipment.

- full visibility into the operation of display cases, cold rooms, energy consumption and refrigerant leaks
- analyze the equipment performance and take action to resolve issues or fine-tune control parameter

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Eliwell supermarket monitoring system portfolio

Refrigeration Expert XP is the tailored solution for small sites up to 10 controllers

Application	Small Retail	Small Retail | Warehouses | Supermarkets	
Model	Refrigeration Expert XP /10	TelevisGo v10 LE /10 /30 /60	TelevisGo v10 /10 /30 /60 /100 /224
Hardware			
Size	10 controllers 200 logged resources	10 to 60 controllers	10 to 224 controllers
Main features	ESSENTIAL	ADVANCED	ADVANCED with efficiency algorithms
System Integration	- - -	ADVANCED	ADVANCED
Cloud service	optional from v2 software	- - -	- - -

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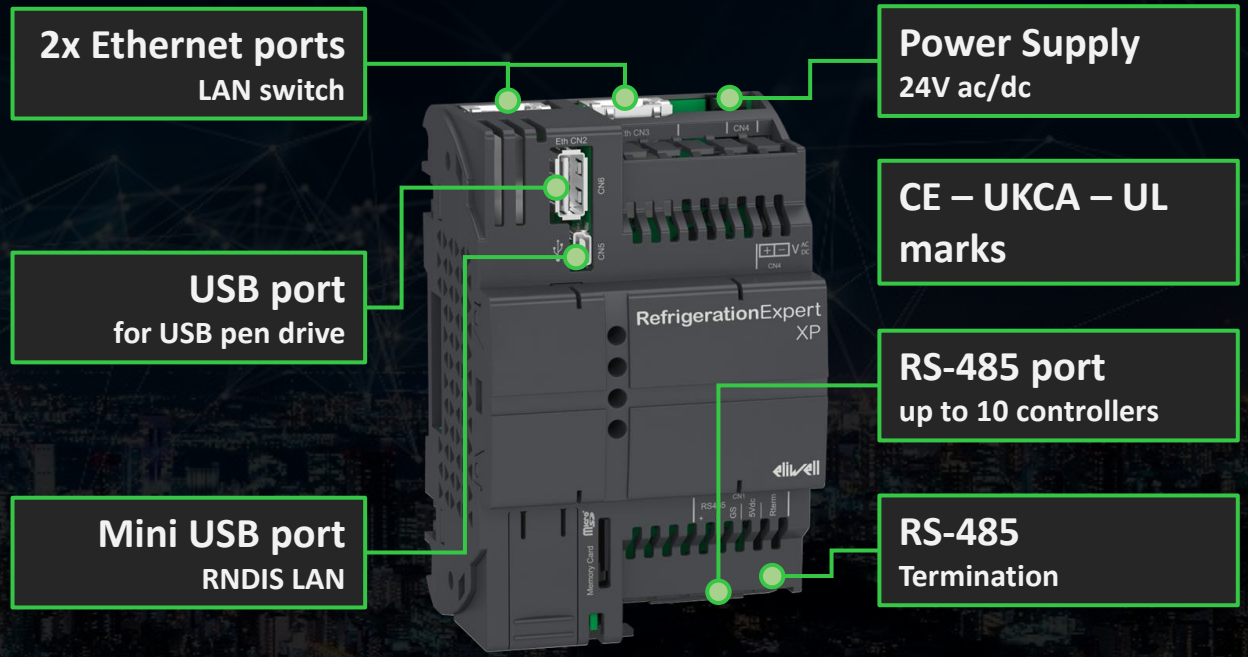
Compact yet powerful

- 4 DIN rail modules
- Stand alone operation
- One year data-logging
- Switched dual ethernet port



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Compact yet powerful

- Ethernet LAN connectivity & USB-LAN point-to-point connectivity
- PC & mobile web user interface
- Wide compatibility with Modbus and Eliwell Micronet controllers
- Easy configuration: controllers autodetect
- Quick configuration online / offline with profiles*
- Data logging and report scheduler
- Alarm management & notification
- Equipment list with configurable cards
- Equipment detail: data, alarms, parameters, commands in ine page
- Equipment overview with most used data, parameters and commands
- HACCP daily dashboard & scheduled report
- Lights scheduler*
- Remote software upgrades via web page
- Configurable users and access rights

* Functionality will be available in the future with a software upgrade

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Flexible

- Compatible with a wide range of standard Eliwell controllers
- Manage energy meters
- Manage refrigerant leak detection

Refrigeration controllers
IDNext, IDPlus, ID LX, ID 985 /V, V800, V900 series
EWRC NT AIR, EWRC NT, EWRC series
RTX DOMINO ZERO, RTX DOMINO, RTX, RTD, series
EWDR 980 LX, IWP 985, IWP 700, RTN series
EWNext, EWPlus, EW, IWC series

Compressor rack controllers
EWCM 9000 PRO, EWCM 8/9000 eo series
EWCM 400 D PRO, EWCM 4100 series
V910, XVD series

Refrigerant leakage detection controllers
LKD NEXT, LKD 500/600 series

Temperature, Humidity, Pressure controllers
ICPlus, IC LX, IC PID series
EW48, EW72, DR4000 series

Meters, Timers, Energy meters
EMPlus, EM 300, EWTS Plus
PM 3255, iEM3150

I/O and alarm modules
TelevisIn, TelevisOut

Wireless temperature sensors
EWSense

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Plug-n-play

1. Install in a convenient DIN panel
2. Connect the twisted shielded cable controller serial network to the RS-485 port
3. Use BusAdapter for controllers not provided with RS-485 serial port
4. Terminate the RS-485 network
5. Provide 24V power supply
6. Connect a PC with USB cable and access “192.168.254.254” on the web browser
7. Manage administrators accounts
8. Auto-discover controllers for quick initial configuration

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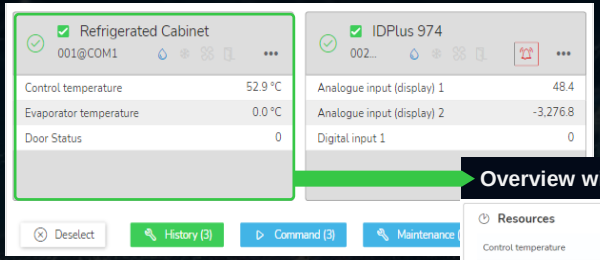
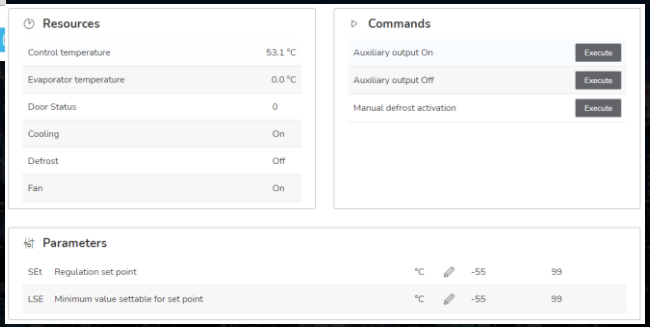
Intuitive navigation of all functionalities

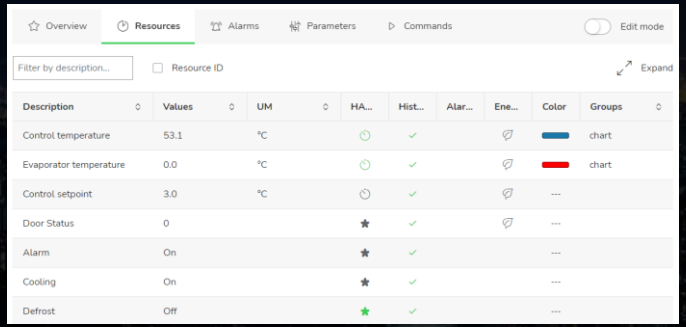
EQUIPMENT

Real time view with equipment Cards



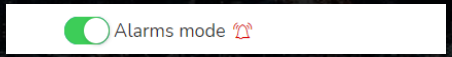
Overview with most used parameters and commands → **All real time values, parameters, commands**





Single and multiple equipment contextual operation:

- commands
- historical charts & tables
- maintenance mode & off-line



- confirm alarms

HACCP

HACCP 24h dashboard

HACCP report scheduling

HISTORY

Alarm history → Alarm detail

View saved charts and reports

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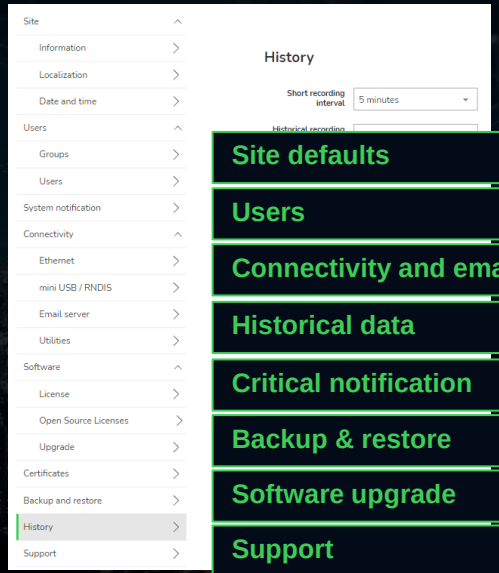
All configuration easily accessible

SYSTEM

All general setting and information



- Site defaults
- Users
- Connectivity and email
- Historical data
- Critical notification
- Backup & restore
- Software upgrade
- Support

Context based configuration

EQUIPMENT

- Auto-discover controllers, add, remove, edit equipment and resources
- Create and edit Alarm Categories with notification emails and TelevisOut
  Create and edit time slots for Alarm Categories
- Create, edit Virtual Alarms,
- Set HACCP resources, History resource groups and chart colors
- Create and edit historical report Tables and Charts

HACCP

- Schedule HACCP report

HISTORY

- Manage saved reports
- Schedule reports delivery

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Cybersecure and sustainable

Refrigeration Expert XP is designed according to Schneider Electric cybersecurity standards implementing specific security features:

- All functionalities accessible via HTTPS
- Strong password management
- SSL certificate management
- Secure Boot and software signature
  - only original Eliwell software and upgrades can be installed and executed by Refrigeration Expert XP
- TPM module
  - secure storage of network keys and credentials
- Schneider Electric microprocessor
  - hackers cannot access product information

Refrigeration Expert XP is designed according to Schneider Electric sustainability guidelines:

- Future proof thanks to upgradable software
- Compact, to reduce use of raw material
- Sustainable packaging
- Environmental data available

Green Premium™

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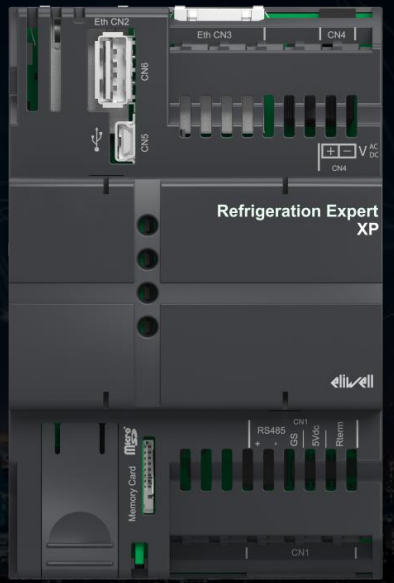
Plan your installation and accessories

Power supply

Alarm output

Controllers

Connectivity for notification, reporting and remote access



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RXB01000E0000

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Choose an appropriate power supply

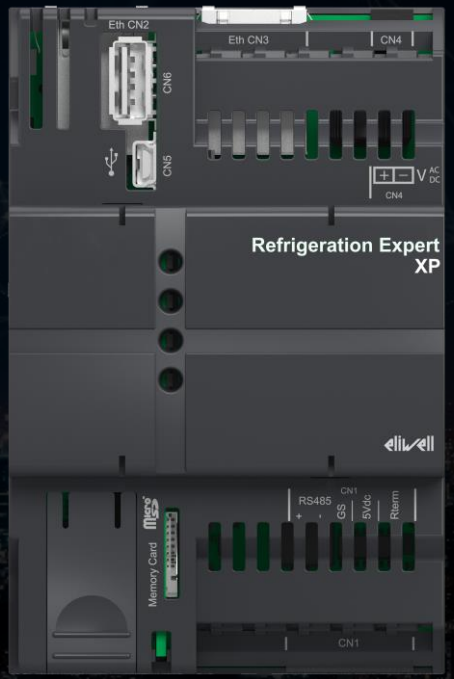
Power supply:
24 Vac ± 10 % 50/60 Hz
20...38 Vdc (UL/CSA) - 24 Vdc (IEC)

Power draw (maximum):
8 W / 11 VA

Suggested 24V power supply for Refrigeration Expert XP

Schneider Electric POWER SUPPLY
24V 0.6A MODULAR
ABLM1A24006

To increase system reliability and never miss a notification, consider installing an UPS (Uninterruptable Power Supply) for both Refrigeration Expert XP and the 4G modem / router where present.



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Alarm module for local notification with telephone dialer, lamp, siren

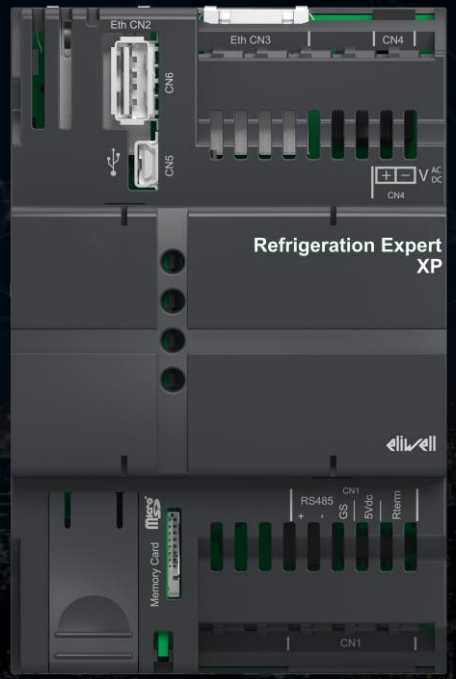
TelevisOut 100-240Vac
TAMOD602RS700

Refrigeration Expert XP

- manage multiple TelevisOut
- With configurable Alarm Categories, differentiate alarm outputs based on severity

Only TelevisOut modules can be used as Alarm Outputs.

Outputs are immediately available in Alarm Category configuration as soon as a TelevisOut is configured in the serial network.



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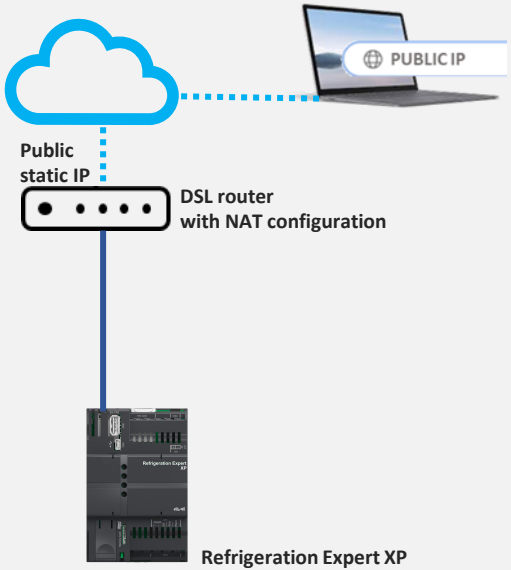
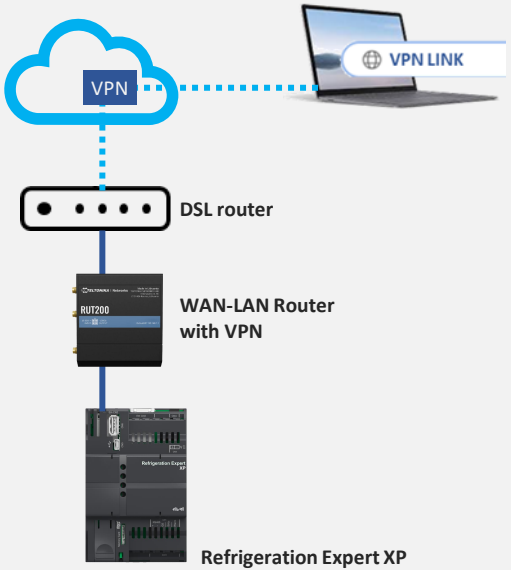
Internet and remote connectivity options

DSL line with public static IP

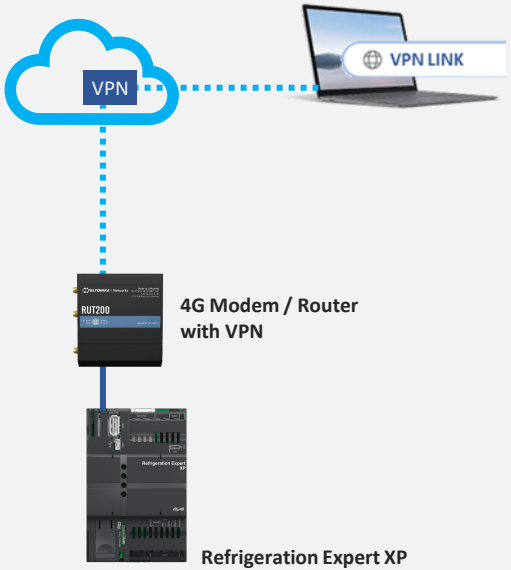


Contact IT administrator for NAT configuration.

DSL line



4G connectivity



Router and VPN Service are not included in Refrigeration Expert XP.
Contact Eliwell Refrigeration Expert Centre for recommended solution and support.

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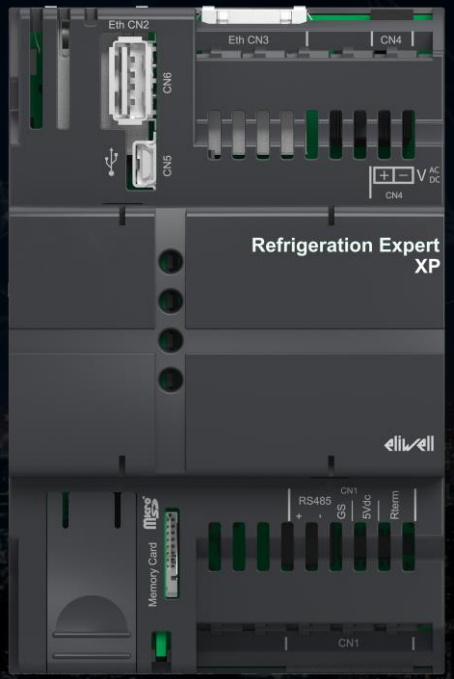
Suggested Modem / Router. 4G, dual Ethernet and WiFi

Teltonika
ROUTER 4G LTE W/ANT PSU RUT 200
SAM4GW000AA00

Multiple options

- Access Internet via 4G and WAN-LAN routing
- Use WiFi as an Hotspot to enable local access

Eliwell
Refrigeration Expert Centre
provide support and managed VPN service for Teltonika routers supplied by Eliwell.



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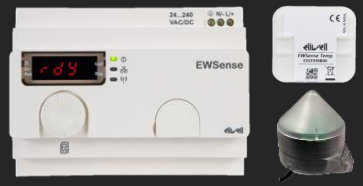
Controls and input modules application examples

Temperature monitoring and alarms of cold rooms and refrigerated cabinets



EWSense

EWSense Gate ZBRN12	ESG0010700
EWSense 2 x RJ45 serial cable 1m	ESARJC200
EWSense Repeater ZBRA12	ESR0012700
EWSense Temp	ESST010B00

Monitoring, alarms and remote management of cold rooms and cabinets controls

ColdFace AIR

IDNext AIR

Wide range of models available. See «Refrigeration Expert Driver List» for full listing

Temperature, humidity, pressure monitoring and alarms for cold rooms, cabinets, condensing units, compressor racks

TelevisIn

TelevisIn 100-240Vac	TAMID152RS700

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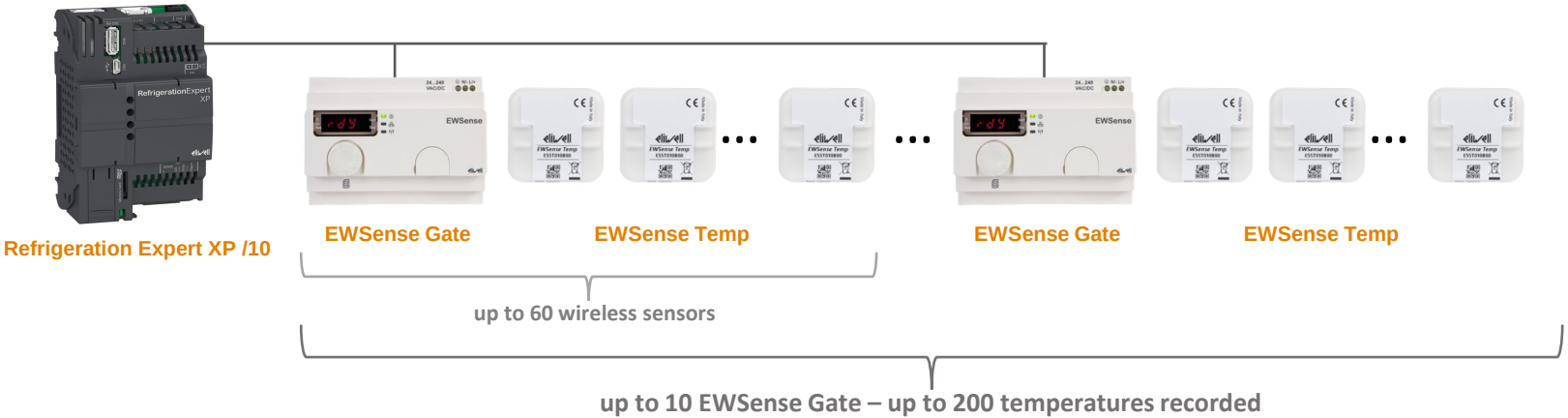
Temperature monitoring and alarms for cold rooms and cabinets



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Monitoring, alarms and remote management of cold rooms and cabinets

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Monitoring and alarms for condensing units or racks, with cold rooms and cabinets

Refrigeration Expert XP /10

ColdFace AIR

IDNext AIR

TelevisIn

other controllers

temperature / humidity / pressure / digital input

up to 10 controllers / modules – up to 200 resources recorded

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Compact yet powerful

Ready to use

Flexible

Intuitive

Accessible

Secure

Sustainable

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