



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

SUPCON



Networked Hybrid Control Application Expert

GCS G3/G5 system product platform

ZHEJIANG SUPCON TECHNOLOGY CO.,LTD.

306, Sarita, Jain-Temple- St.Xavier's College Road, Off. C.G.Road, Navragpura, Ahmedabad – 380009. (INDIA)
Tele: (079) 26441292, +91 9824250640, +91 9714050640 * E-mail:info@trulyengineered.com,
bhadreshnagori@gmail.com www.trulyengineered.com, www.kgcorporationindia.com,



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Networked Hybrid Control Application Expert

SUPCON

We will solve the following problems for you...

Large-scale system and a lot of distribution sites

Full redundancy applications with higher level of security

Small installation space, unattended duty, and poor environment

Complex communication requirements (optical fiber, ADSL, GRPS/3G/4G)

Smart devices of many types, and complicated access protocol

Multilevel zone control

Secure occasions with higher anti-explosion and other natures

Heating pipe network



rail transportation



environmental protection/sewage



energy harvesting



municipal monitoring



factorys' data collection



Stand-alone instrument control



digital factory



food and beverage



oil and gas exploitation



long-distance pipeline



306, Sarita, Jain-Temple- St.Xavier's College Road, Off. C.G.Road, Navragpura, Ahmedabad – 380009. (INDIA)

Tele: (079) 26441292, +91 9824250640, +91 9714050640 * E-mail: info@trulyengineered.com, bhadreshnagori@gmail.com www.trulyengineered.com, www.kgcorporationindia.com,



SARAL FILTERATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Networked Hybrid Control Application Expert

SUPCON

Product program provided to you

As the networked hybrid control products provided by Supcon, GCS G3G5 (hereinafter referred to as GCS) are dedicated to the large-scale distributed control occasions, and they can meet the monitoring demands of various large infrastructures, process industries and discrete manufacturing, such as oil and gas storage and transportation, tunnel traffic, city heat supply network, digital workshop, and other fields.

These products include the G5 medium and large hybrid control, G3 distributed series products, and the ancillary integrated monitoring software.



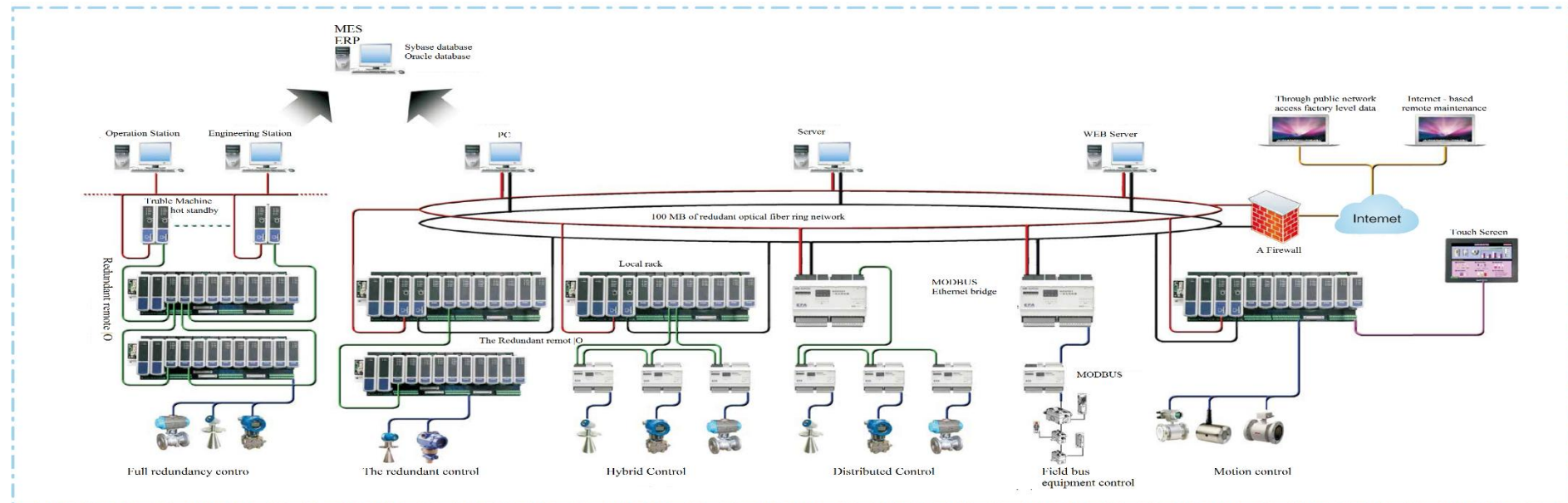
G3

- Small size and flexible installation
- High integration level and low power consumption
- Strong environmental adaptability



G5

- Full redundancy design, and the controlling operation with large capacity and high performance
- Diverse network structures and flexible heterogeneous accesses
- Strong remote extension and access capability



306, Sarita, Jain-Temple- St.Xavier's College Road, Off. C.G.Road, Navragpura, Ahmedabad – 380009. (INDIA)

Tele: (079) 26441292, +91 9824250640, +91 9714050640 * E-mail:info@trulyengineered.com, bhadreshnagori@gmail.com www.trulyengineered.com, www.kgcorporationindia.com,



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Deal with your application needs

High environmental adaptability

- The system is designed in accordance with the highest anti-interference standards in industrial environments and has passed the strict tests. Its work scope covers all temperature zones ($-40\sim 80^{\circ}\text{C}$), while the abilities of G3 anti-corrosion and of EMC third-level anti-electromagnetic interference can meet the work requirements of various harsh environments.
- Components' power consumption is ultra low (average power consumption is less than 2W), achieving the operation in the scenes with on-site solar energy or battery power supply.
- Possess a full floating mode, achieving the reliable application under the condition with poor on-site grounding.



Possess the ability of industrial-strength G3 salt fog corrosion resistance (acid, alkali)



Possess the industrial-strength anti-vibration and anti-impact ability



Possess the industrial-strength wide temperature working ability (from -40°C to 80°C)

EMC

Possess the ability of industrial-strength anti-electromagnetic interference (EMC third-level)



Alarm for abnormal environment (high temperature and high humidity)



Possess the intrinsic safety anti-explosion solution (Zone0-Zone2)



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

The perfect protection measures can ensure the absolute safety in the case of failure

In-place control components conform to FBD, LD, ST, and SFC programming under the IEC61131-3 standard.

Collaborative working of multitasks ensures the safety of the remote in-place interlocking by fast responding to the event tasks (of the millisecond level).

As to the safety under output failure, when the network communication is abnormal or the control room fails, the output safety value secures the safety of the in-place equipment; and when the system returns to normal, it will be reinstated to the operation mode.

As to the communication breakpoint resume, the process data will be recorded automatically in-place in the case of abnormal network communication. When the communication returns to normal, the lost data will be transmitted to the control center as supplementary, ensuring the integrity of the historical data.



In the case of failure,
it enters into the security status

12:00 ~ 13:20

When it returns to normal,
the lost data are transmitted to the
control center as supplementary





SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Deal with your application needs

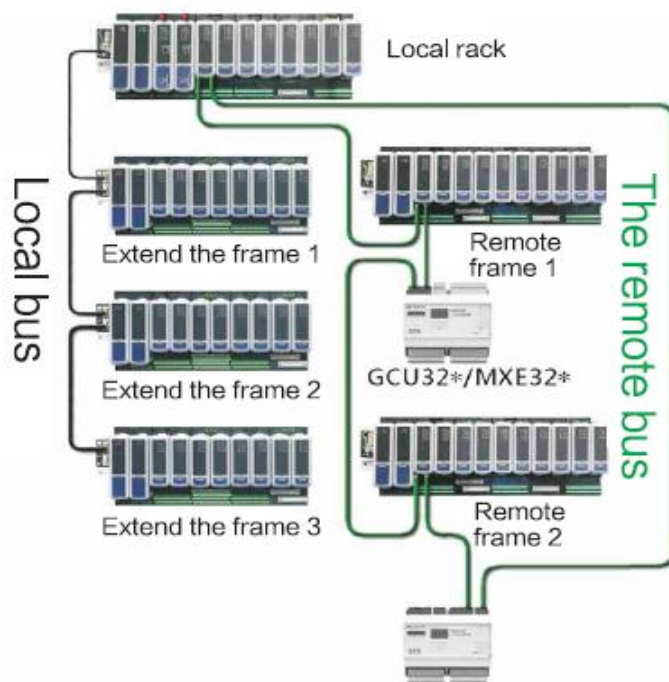
Satisfy the networking of large-scale networks, and support the communication of various heterogeneous devices

Large scale: support 250 remote distribution sites and meet the needs for future expansion on the basis of 100Mbps high-speed bus,

Reliability: support the redundancy of racks and slot positions, and the connection of the loop/linear/star network.

Low bandwidth: the data is transmitted only when any change occurs, with high compression ratio, thus to save the costs of public network communication bandwidth and traffic.

Expansibility: support GPRS/3G/4G/WIFI/ADSL and other cable/wireless public network connections.



Redundant Yu Huan nets,
free switch design

4G LTE

天翼
surfing

VPN

Wired/wireless
public network applications



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

SUPCON

Heterogeneous communications: support common ModbusRTU/TCP, ProfibusDP, HART, DNP3 and other general field bus protocols, as well as common DL/T 645–2007 energy meter and other special communication protocols.

In addition, the system also supports customized programming, and satisfies all kinds of special communication protocols as well as command accesses.



DNP



Modbus™





SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Deal with your application needs

Information security, defense in depth, and reliable barrier

Based on the industrial Ethernet international standard EPA framework, the system adopts encrypted special safe communication algorithm to ensure the data transmission to be reliable and avoid the influence of abnormal attacks on the system communication network;

Product components support the national and the general encryption algorithms (RSA, AES, etc.), which have passed the tests at the commercial password testing center of China Office of State Commercial Cryptography Administration.

It is the first domestic supplier of the control system passing international certification of Achilles L2 communication robustness, and it has obtained the qualification of information security services (engineering first-level).



Certificate of qualification of information security services (engineering first-level)



Certificate of international certification of Achilles L2 communication robustness



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

SUPCON



CE certification certificate



G3 environment anti-corrosion test report

The architecture of full redundancy ensures the system safety

The system supports the full redundancy architectures of network, controller, internal bus, communication module, and IO module.

The controller supports two kinds of redundancy modes, i.e. the redundancy between racks and of slot positions.

The system's internal bus supports two redundancy schemes, i.e. the redundancy of single loop network and of the double loop network.

306, Sarita, Jain-Temple- St.Xavier's College Road, Off. C.G.Road, Navragpura, Ahmedabad – 380009. (INDIA)
Tele: (079) 26441292, +91 9824250640, +91 9714050640 * E-mail:info@trulyengineered.com, bhadresnagori@gmail.com www.trulyengineered.com, www.kgcorporationindia.com,



SARAL FILTRATION PVT. LTD.

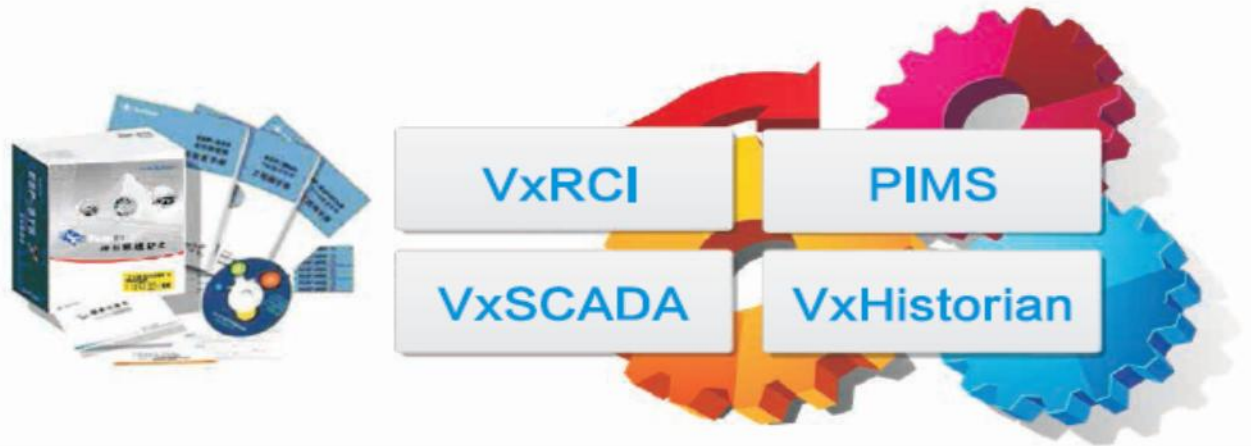
SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Deal with your application needs

VxSCADA integrated monitoring software

VxSCADA software is large-scale distributed integrated monitoring software. Based on the conventional distributed production information collecting and monitoring functions, the software introduces the concept of object-oriented configuration and supports objectification modeling and flexible script development, changing the traditional configuration development from the mode with engineering as a unit to the systematization and modularization.

This software is widely used in the digital oil field, pipeline transportation, power system and other SCADA areas.



Flexible deployment: Support the deployment of stand-alone mode and server mode, and meet the demands for flexible applications of various scales.

High safety: Support hot backup redundancy, network redundancy and real-time/historical database distributed deployment, thus to improve the system safety

The modularized design enables the user to choose the required functional modules in accordance with demands, including statements, alarms, historical database, etc.



SARAL FILTERATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

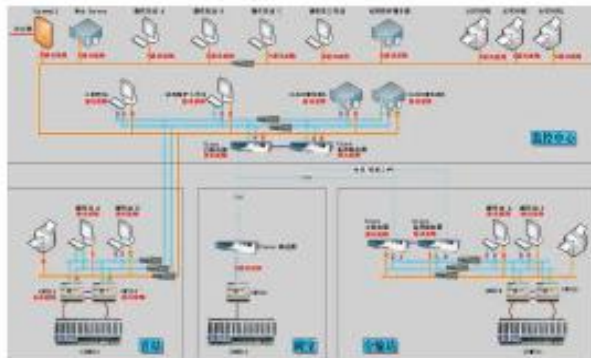
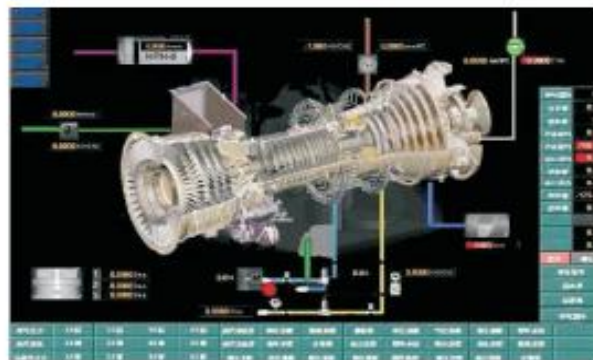
SUPCON

Customized object: Include the process information, information on fault diagnosis, flowchart templates, etc., which can be reused, and support the drawing of exquisite three-dimensional effects.

Multi-user configuration :Support simultaneous multi-user configuration on different computers, with automatic push and merging to greatly improve configuration progress of the engineering.

Online release: One-click online release after updating the configuration, with no need to stop on-site process production.

Interface opening: A variety of products and protocol-driven interfaces are integrated in the software to support various mainstream control systems of the industry (such as Siemens, Schneider, etc.) and communication protocols (Modbus, Statute 104, DNP3, etc.).





SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Deal with your application needs

Part of the performance lists

Wherein: the system has successfully implemented the following important projects:

Tianjin LNG: LNG receiving terminal in the large-scale wharf, breaking the long-term monopoly of foreign projects

Lunnan oilfield: A11 demonstration project of CNPC's oil and gas production Internet of things

Security of Tianjin airport: Security lighting control in airports has broken the monopoly of foreign products

Skid-mounted CNPC's Block Wei 202: Implementation of the first batch of shale gas exploitation project in China

Zhenhua No. 2 drilling platform: Application of VMS for the large-scale drilling platform, breaking the monopoly of foreign systems





SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

Our Vision:

To become a world-class smart enterprise



SARAL FILTRATION PVT. LTD.

SOLUTION PROVIDERS, ENGINEERS, & EXPORTERS OF PLANT & PROCESS EQUIPMENT

SUPCON-LOO-X-1602-C-0201

Our Vision: To become a world-class smart enterprise

