



Full IP integration with PSIM-VEMS

12/01/2016

"Remote control, easy management"



Moving to IP, heading to future!

One of the most important task to carry out for CIAS was provide his products with remote set up and management functions so to help customers easily access all the sensors of the perimeter comfortably from the control room.



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"IB System was the answer"

Moving to IP, heading to future!



Thanks to a multi-year experience gained in the field of integrated complex systems, such as telecommunication networks, remote controls and alarms management CIAS breaks through the IP world with a wide range of products born to be fully integrated with all the major security equipments producers.

IB-SYSTEM rack plenty fulfilled this duty, having introduced the possibility to establish a connection among up to 128 different sensors in a single serial bus RS485, Fiber Optic or Wireless loop.

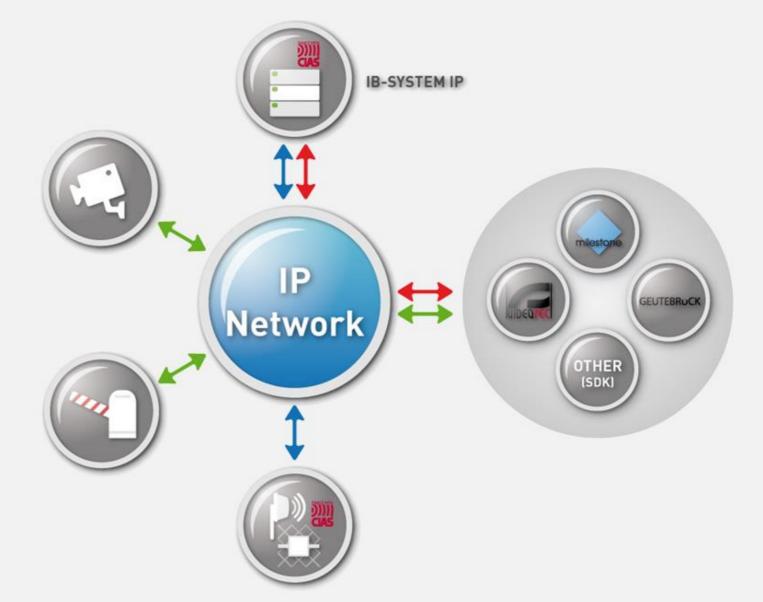


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"End to end solution"

Moving to IP, heading to future!

Fully IP integrated and managed by a unique software for an immediate response of up to 1280 different sensors.



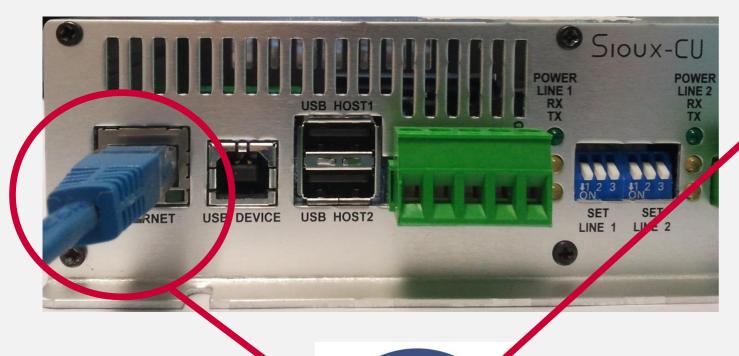


WWW.CIAS.IT

"Fully IP"

Moving to IP, heading to future!

Sioux



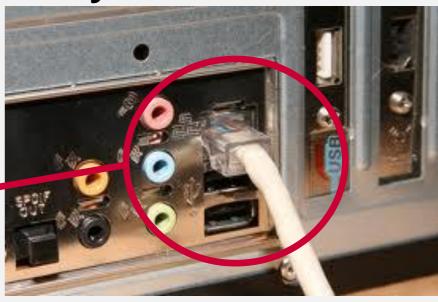




IP Camera



IB System IP



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CIAS IP SOLUTION





Innovative features





Innovative features

- No infrastructure required (using existing LAN network), TCP/IP protocol
- Up to maximum 1280 different sensors at the same time





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Innovative features





Innovative features

- Very low band occupancy: max. 20 Kbits per channel (total 12,8 Mbit)
- Maximum response time 500ms for all 1280 devices connected <u>at the same time</u>



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Innovative features

IP native



Innovative features

640 IP addresses as input channels





- 10 output groups (5 per group, for total 50 IP outputs)
 used to send different / same protocol to PSIM-VEMS softwares
- Licences available in different sizes to match any needs (8-16-24-32-64-96-128-224-320-512-704-896 and 1280 devices)

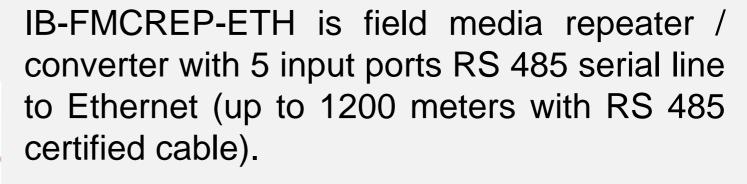


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IB-FMCREP-ETH



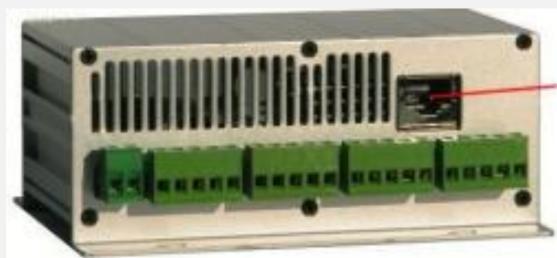
IB-FMCREP-ETH Ethernet version



It is the ideal solution to use in a Ethernet network infrastructure.

IB-FMCREP-ETH is able to collect all the status of CIAS sensors (alarm, tamper, fault, no answer) and to convert to Ethernet.

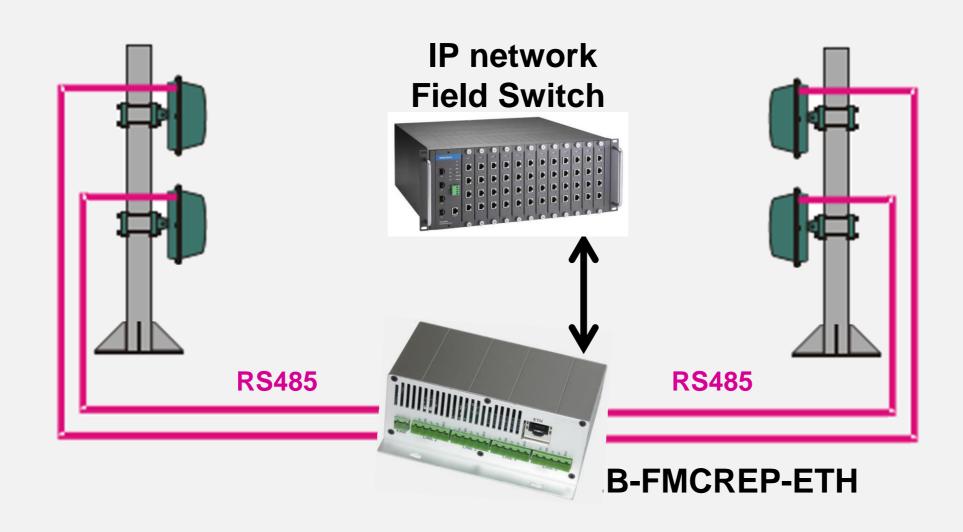
Temperature range -35°C...+65°C



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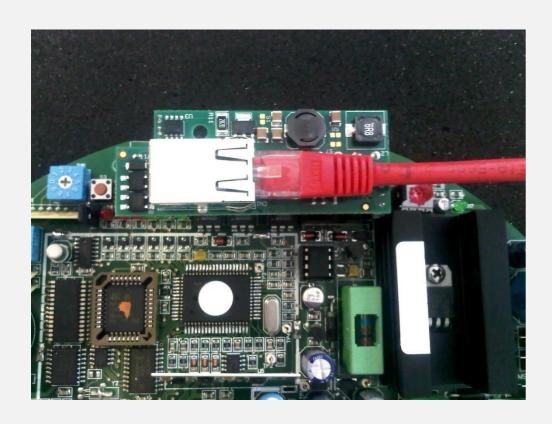
Example of field configuration





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IP-DOORWAY









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- RS 485 / LAN Interface
- It can be installed inside the sensors
- Integrated Web server
- Temperature range -35°C...+65°C

Two versions

- With external power supply 13,8 V
- PoE 802.3 af

Dedicated to digital and fuzzy logic

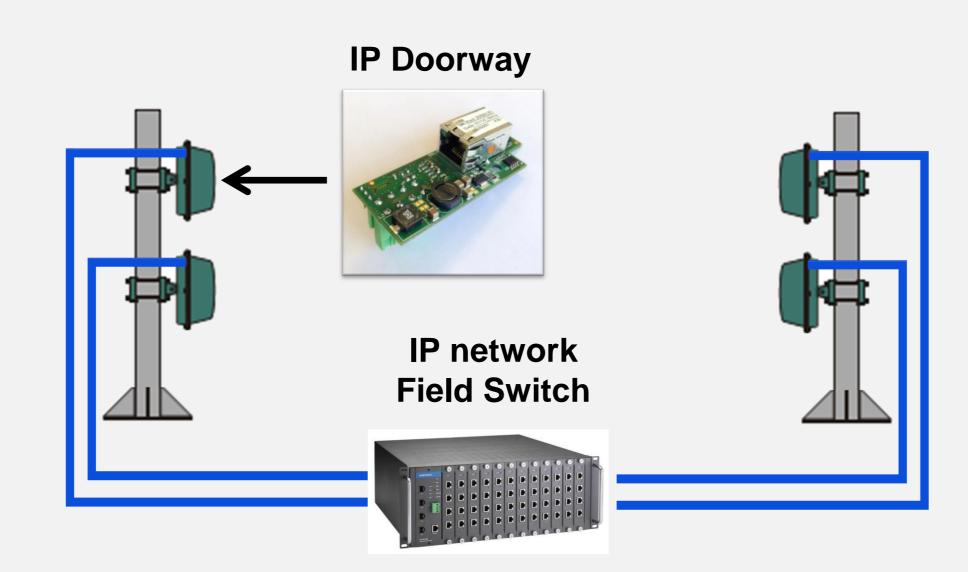
- ✓ Ermo 482X Pro
- ✓ Coral Plus
- ✓ Manta
- ✓ Pythagoras (no PoE 802.3 af)
- ✓ Murena Plus

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Example of field configuration



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Innovative features

Innovative features

Software protected by hardware keys

System fully protected by passwords









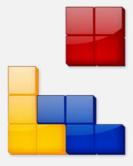
Innovative features





Innovative features

- Encrypted with signature communication for each device
- System Autoconfiguration





Full integration with TVCC IP systems

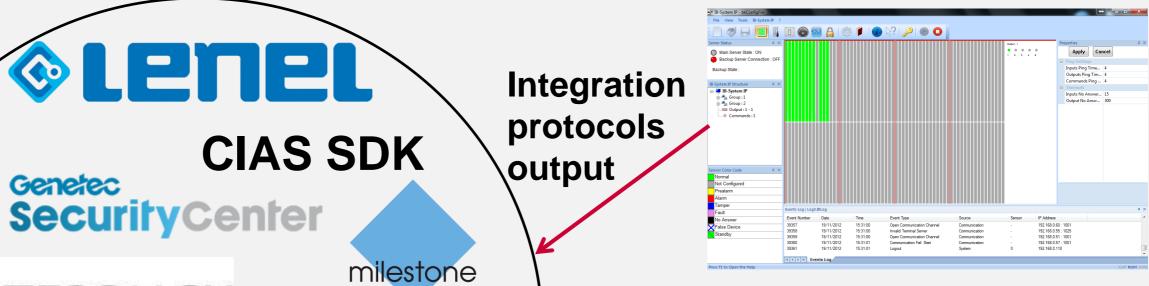




CIAS & PSIM-VEMS: integration using protocols







PSIM-VEMS Software



GEUTEBRUCK

The Open Platform Company

Cortech Developments
software integration solutions





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Innovative features

Protocols already integrated

- BACnet
- Cortech
- Genetec (Omnicast, Security Center)
- Geutebrück
- Lenel On Guard (ready Q1, 2016)
- Milestone
- Videotec

On demand any other protocol, i.e.

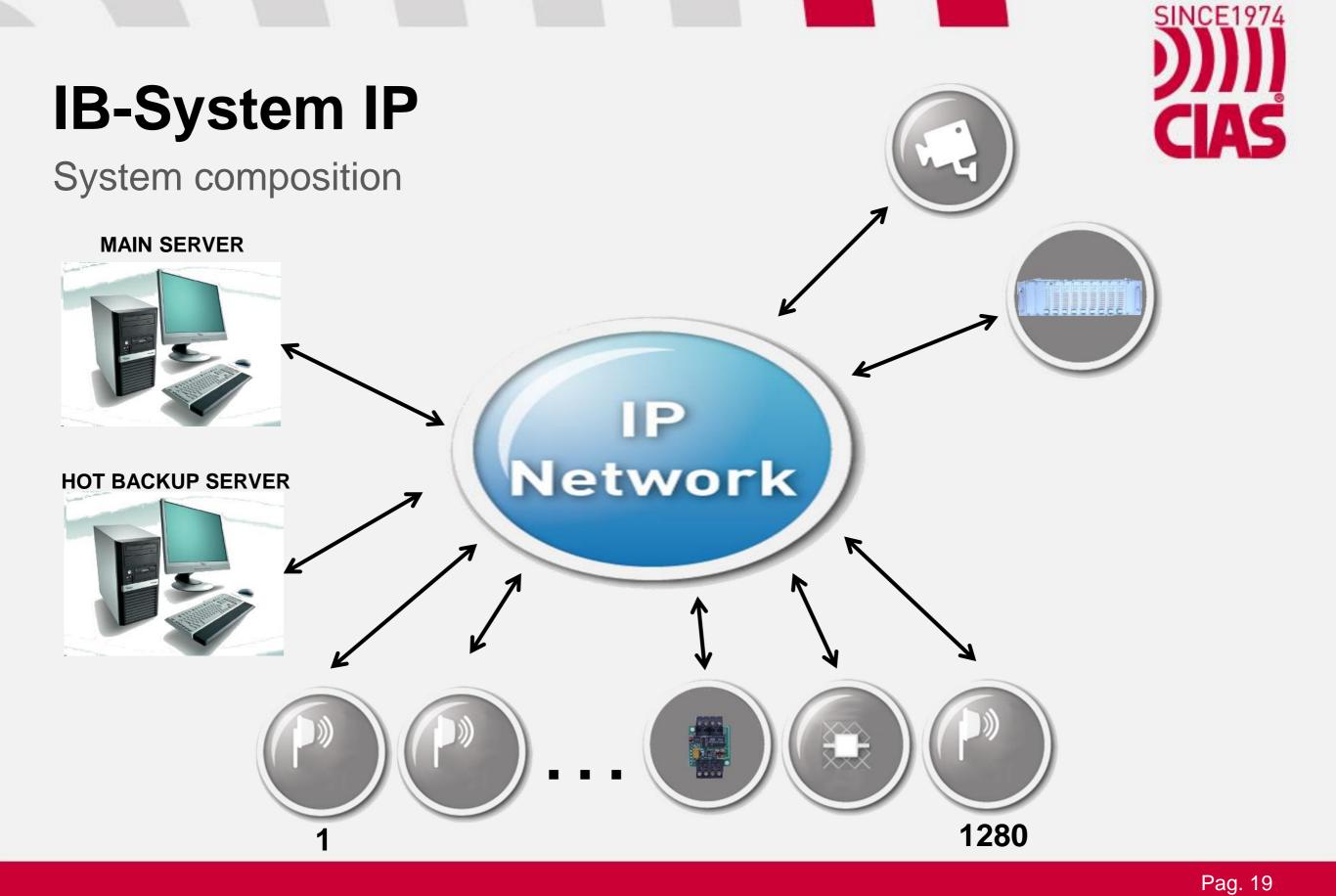
- KNX, LonWorks, OPC modbus
- At customer's choice







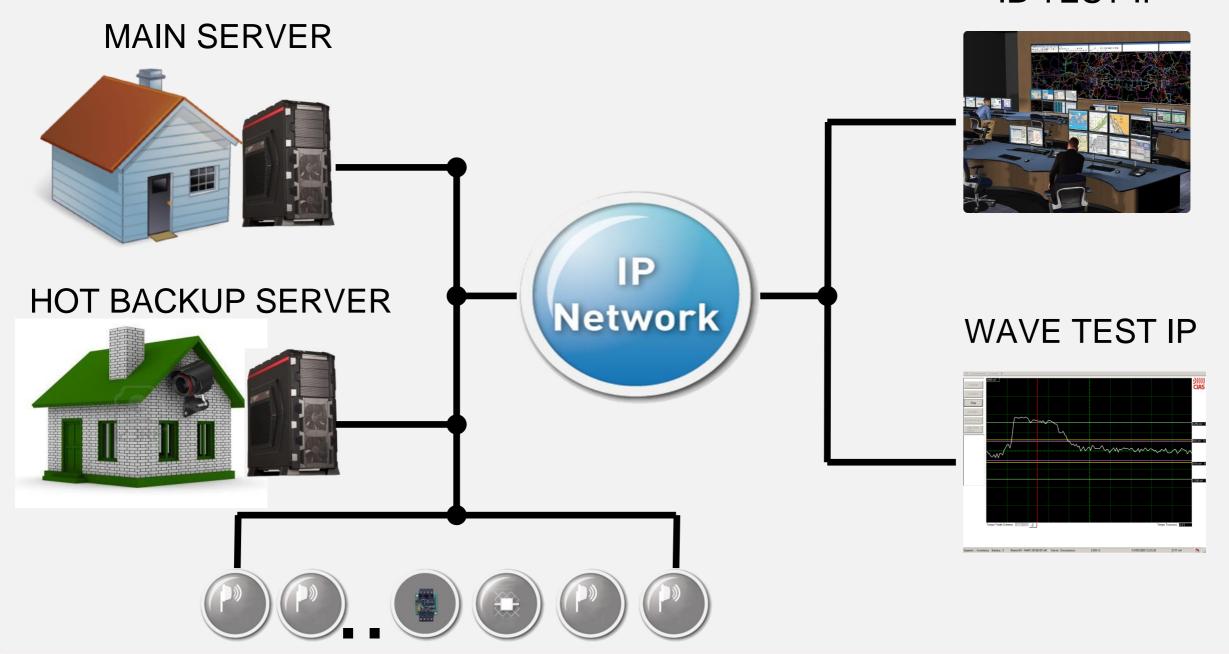
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System Composition



IB TEST IP



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System composition



IB-System IP: what's made up of?

MAIN SERVER



KEY (LICENCES) HOT BACKUP SERVER (optional)





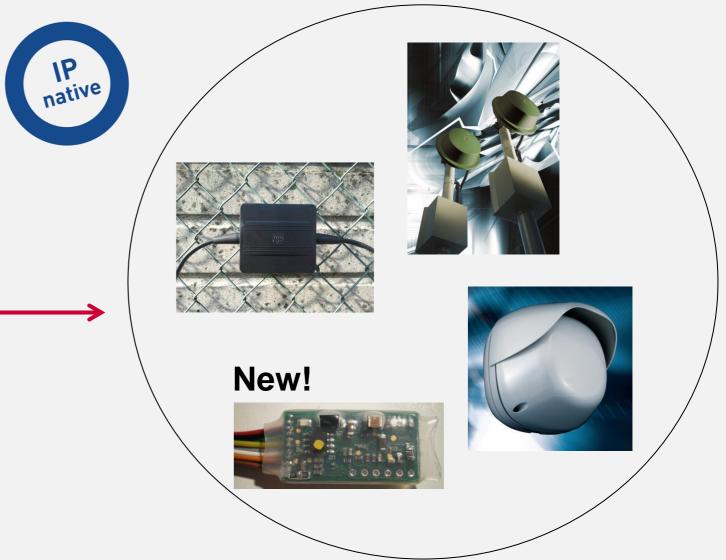
Interactions and connections



IB-System IP: which devices can interact with?

MAIN SERVER



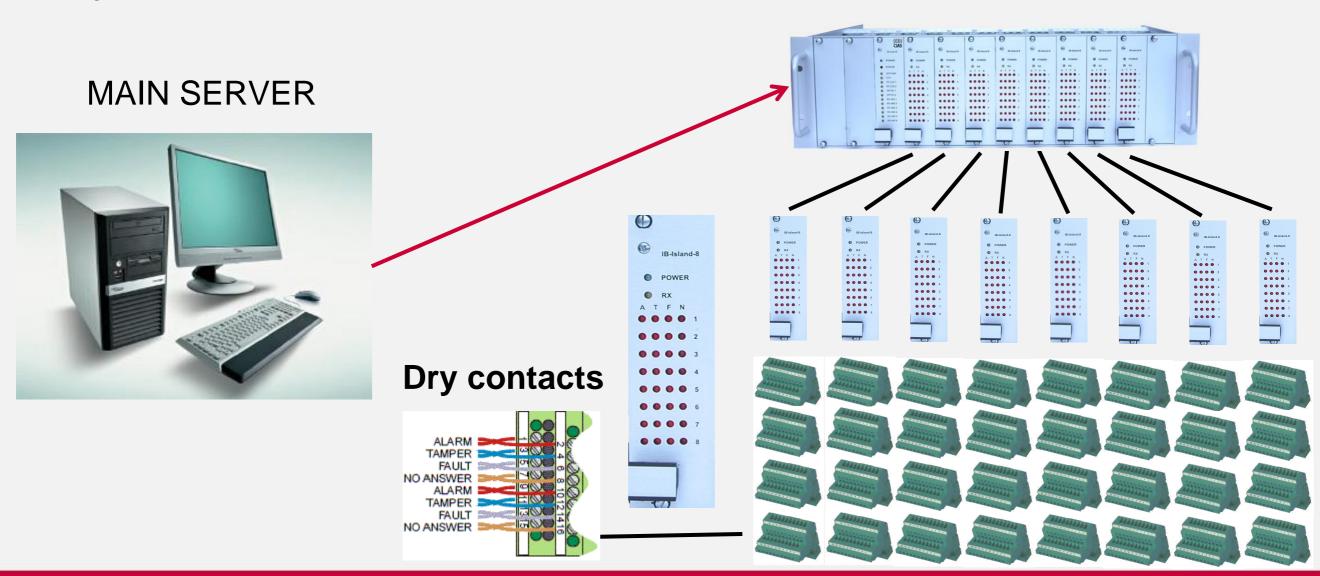


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Interactions and connections



IB-System IP: which devices can interact with?



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IP Integration Server for CIAS sensors

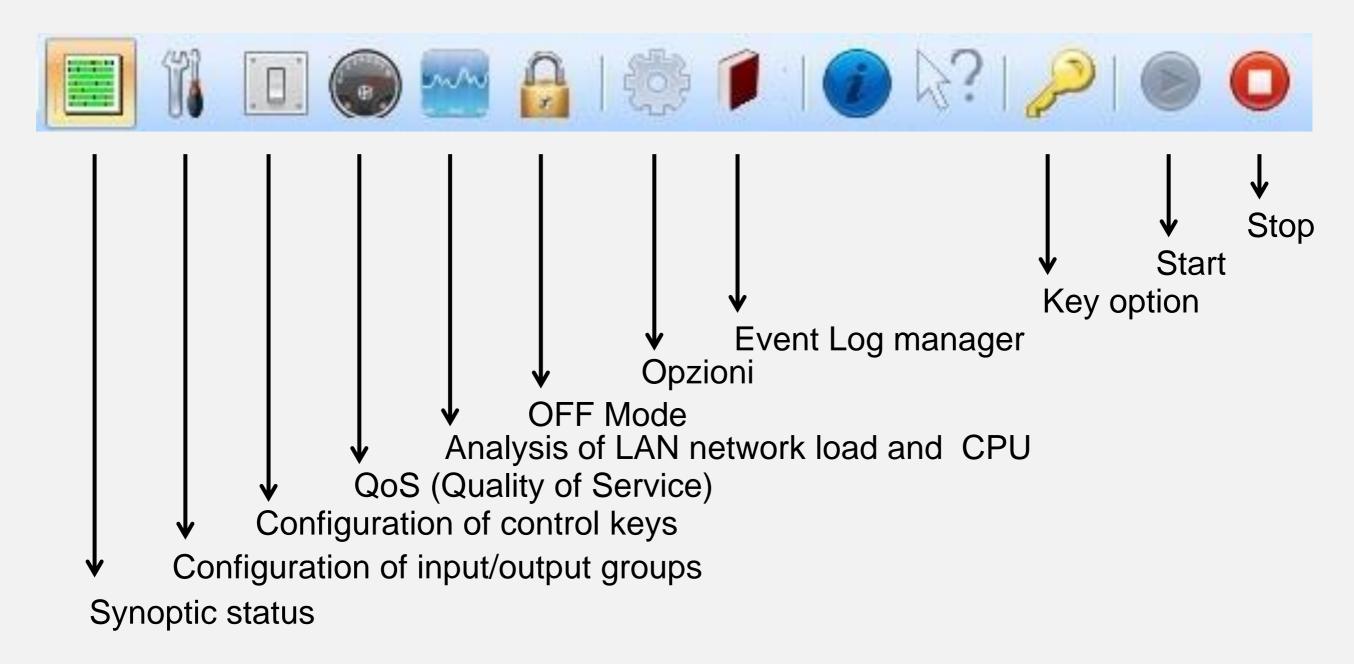


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Upper ToolBar





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39359

39360

Press F1 to Open the Help.

H → H Events Log

19/11/2012

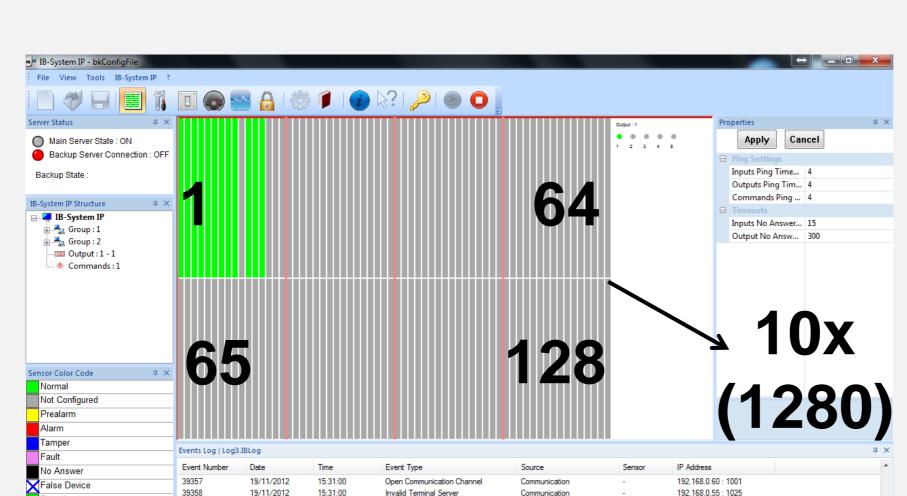
19/11/2012

19/11/2012

15:31:00

15:31:01

Synoptic status



Open Communication Channel

Communication

Communication Fail Start



Functions:

- Status of individual sensors
- Tree structure

 (inputs outputs control keys)
- Characteristic of individual sensor
- SERVER Status
- Legenda

EXTREME SECURITY WWW.CIAS.IT

192.168.0.51:1001

192.168.0.57 : 1001

192.168.0.110

Legenda

Normal

Prealarm

Alarm

Tamper

Fault

Sensor not configured

No answer

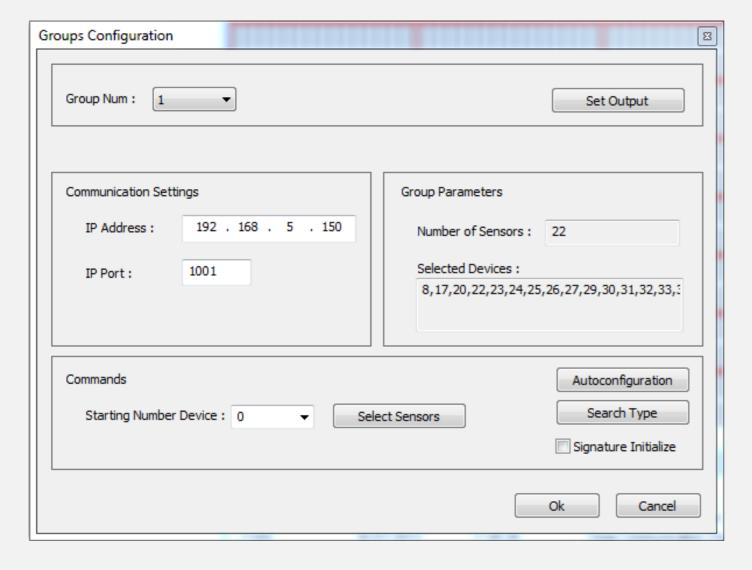
False device

Standby



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Input Groups Configuration



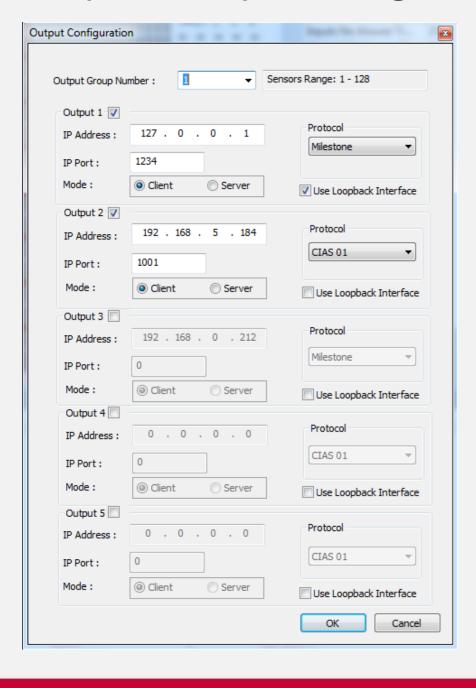


Functions:

- Configuration of structure of input groups
- Set-up of IP address
- Autoconfiguration of field
- Manual Selection of individual sensors
- Searching out for devices on field
- Signature set-up



Output Groups Configuration



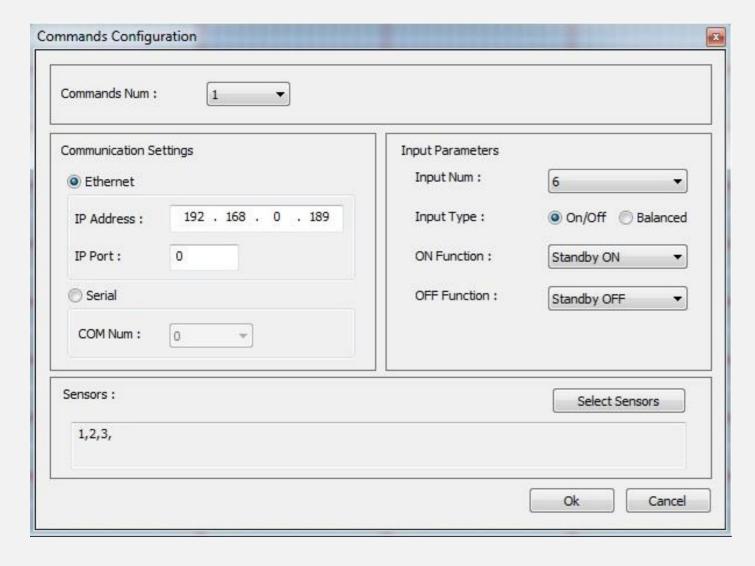
Functions:

- Configuration of output groups
- 5 outputs for each group of 128 sensors (also repeated for each group and outputs)
- IP address set-up
- Selection of output protocol
- Set-up of Client/Server
- Available protocols:
 c-one bus, CIAS 01, CIAS 02, Geutebruck
 Milestone, Videotec.



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Configuration of Control keys





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Functions:

- Kind of connection (serial/eth) for control module
- IP address set-up
- Selection of control input
- Standby key activation (ON/OFF)

QoS (Quality of Service)

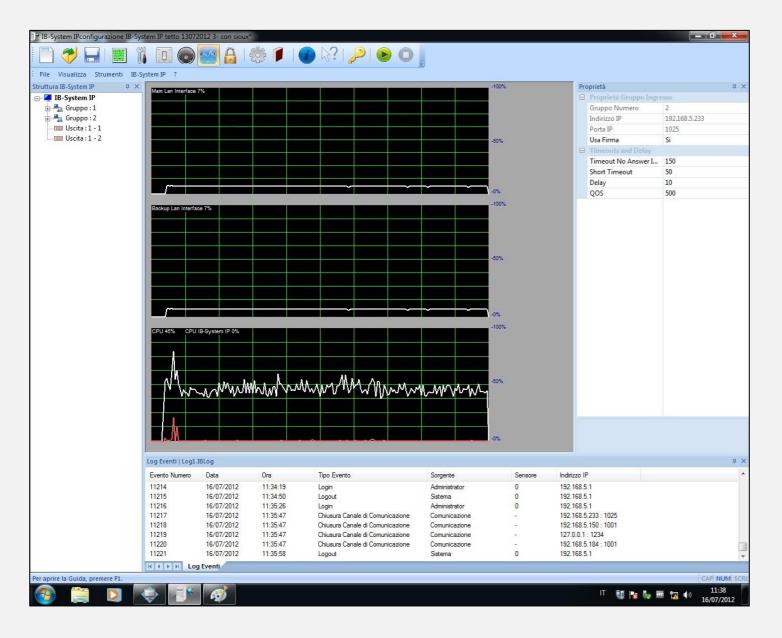
- Quality of Service is linked to each group (represented with 3 colors)
- It represents average polling time of the group

- Green = within set up time
- Yellow = up to double the set-up time
- Red = beyond the set-up time



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Analysis of LAN and CPU network load





Functions:

- It displays network load for main LAN board and for backup LAN board (optional)
- It displays CPU load for PC and IB-System IP

OFF mode



IB-System IP

15:33:52

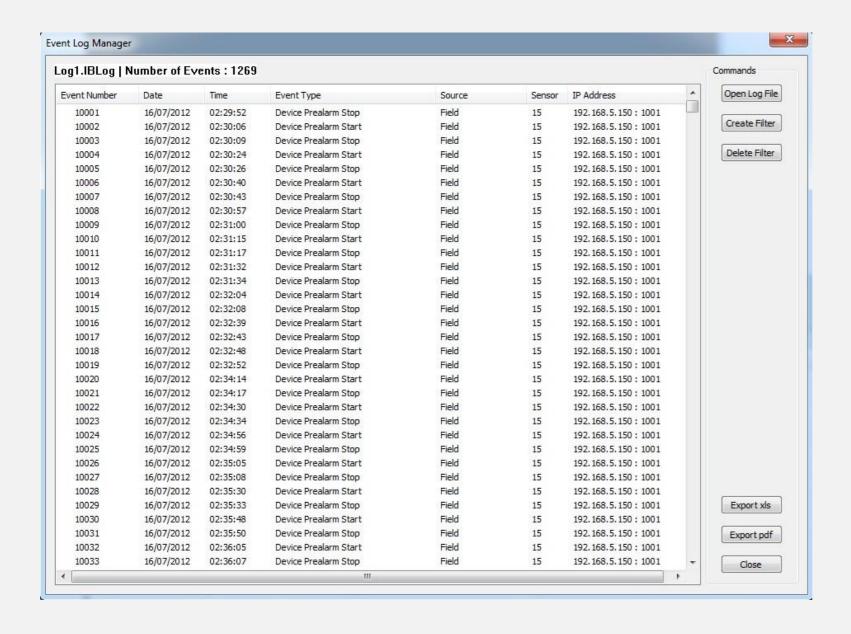


Functions:

- Default screenshot of operation mode (exit only with password)
- MAIN SERVER
- BACKUP SERVER

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Event Log Manager

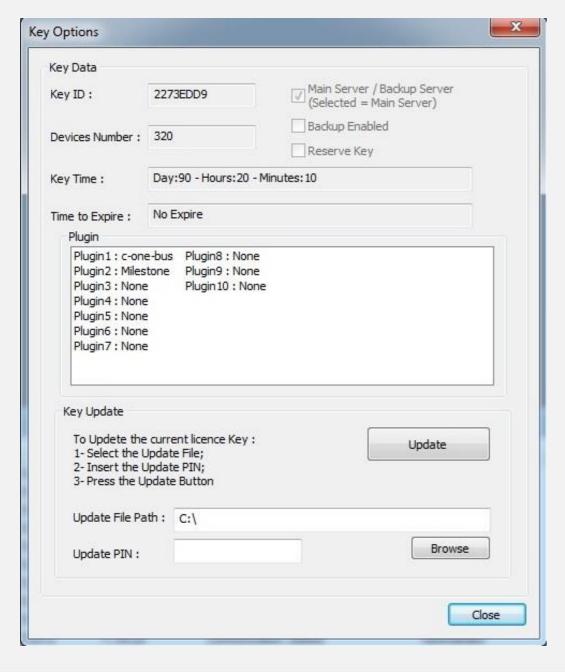




Functions:

- It displays log files
 (i.e. a file with 10,000 events)
- It allows creation of filters
- It exports logs into pdf/excel

Key Option

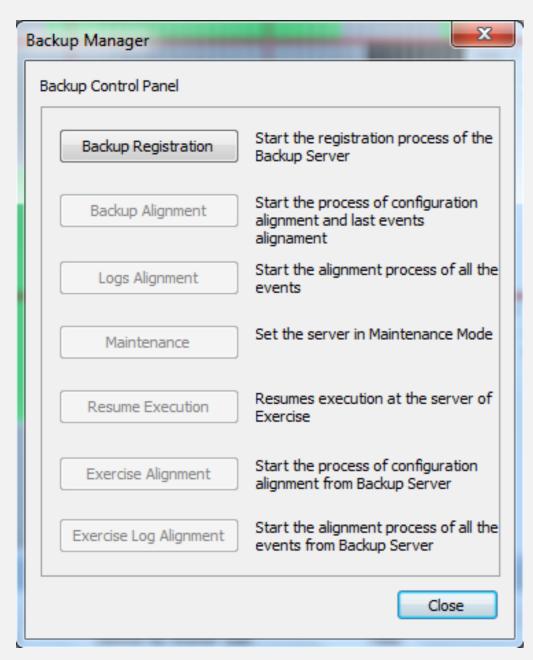




Functions:

- Informations relevant to the licence linked to hardware key
- Maximum number of devices to handle
- Operating time and time to deadline (if any)
- Main/backup or extra key
- Active plug-in
- Key updates (implementations, added sensors, plug-in)

Backup Manager

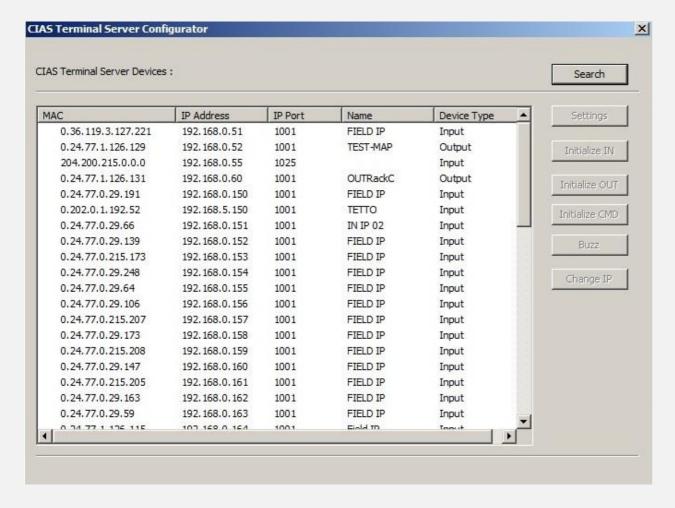




Functions:

- HOT Backup within 5 seconds from drop of MAIN SERVER
- BACKUP recording
- BACKUP alignment with SERVER (log struct)
- SERVER alignment with BACKUP (log struct)
- Maintenance Function for performing SERVER maintenance
- •Abilitazione del ripristino MAIN SERVER (Automatico o manuale)

FMCREP-ETH Configurator

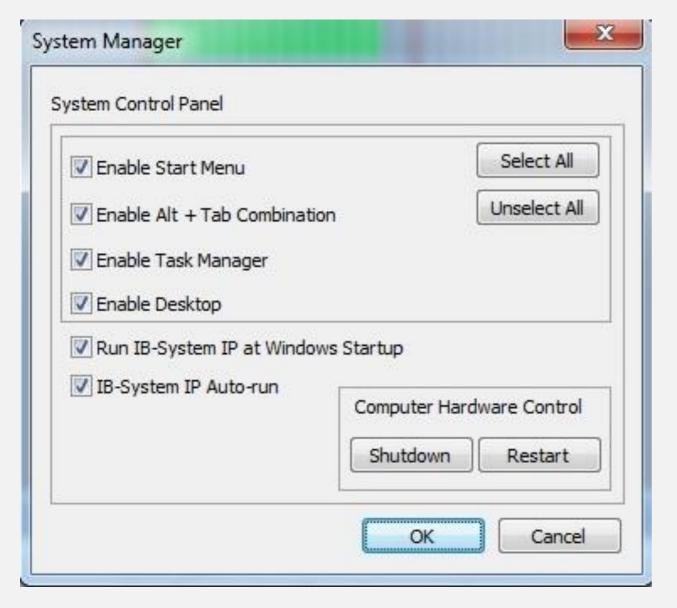




Functions:

- IP/ports address set-up
- Input/Output/Control keys set-up as device
- Buzz (network led blinking on FMCREP)
- Password set-up, name, etc.

System manager





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Functions:

- It starts/disables Windows "control" options
- It gets IB-System IP going at PC re-start (set auto POWER ON in PC BIOS and auto LOGIN user in Windows)
- Autorun of last configuration loaded at program start

CIAS SUPERVISOR

