DATASHEET

Management software CONTEG Pro Server

CONTEG

MANAGEMENT SOFTWARE

CONTEG PRO SERVER

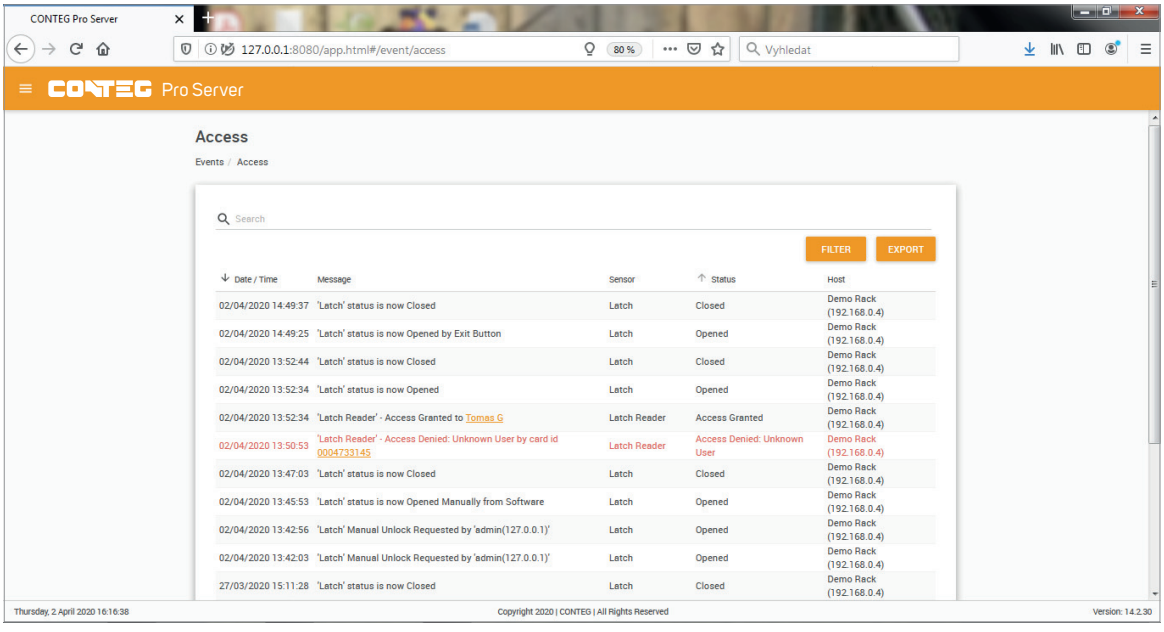
CONTEG Pro Server (CPS)—software application for central management, oversight over the monitored environment and access using RAMOS hardware. Provides the user the ability to track the status of the environment and security of the data center/server rooms anytime, anywhere. The application is used to manage the physical infrastructure—allows setting user access rights, controlling cameras and sensors in the environment and locally and remotely monitors integrated IT devices (PDUs, UPSs, IP cameras, etc). CPS is also capable of sending notifications about alarms by SMS, MMS, e-mail or via various events. The application can even function in multi-tenant mode, which enables setting up access rights for specific users so that they can only see and make changes in those parts of the system that are relevant to them.

MAIN ADVANTAGES

- Free of charge with the purchase of any product from the RAMOS family: RAMOS Ultra, RAMOS Ultra ACS, RAMOS Plus, RAMOS Plus GSM, RAMOS OptimaX, RAMOS OptimaX GSM
- Ability to manage the entire system via a web browser using HTML5 user interface on a smart phone, tablet or computer
- Access control—setup of unique access rights for each user, creation of groups, search in the history
- Camera monitoring—support for IP cameras with ONVIF protocol for online monitoring and record-keeping
- Environmental monitoring—sensors, detectors
- Ability to set notifications via a number of types of events/actions/alarms
- Supports direct integration of third-party network devices via SNMP and Modbus TCP
- Fully adjustable mapping function including the ability to specify areas, countries, buildings, rooms, etc. Also features an integrated graphics editor for creating maps.
- Support for calculations via virtual sensors
- Capacity and performance planning and management of devices installed in racks

Access Control—the CPS application allows:

- Defining access rights and user access restrictions for secured sections of the data center/server room.
- Viewing access history for individual doors or users.
- Sending warnings about unauthorized access attempts.
- Synchronizing video recordings with alarms or actions.
- Setting rights for individual users to control which parts of the application they have access to and can make changes in—applies to multi-tenant mode.



Video Monitoring

- CPS allows recording, saving and viewing a live feed from multiple IP surveillance cameras with ONVIF protocol.
- The video recordings can be initiated and interlinked with output from sensors and monitoring devices (smart cards, network access, motion detection, door contact sensors, audio recording, infrared optical sensors).
- CPS supports a maximum of 25 IP cameras with ONVIF protocol per installation.

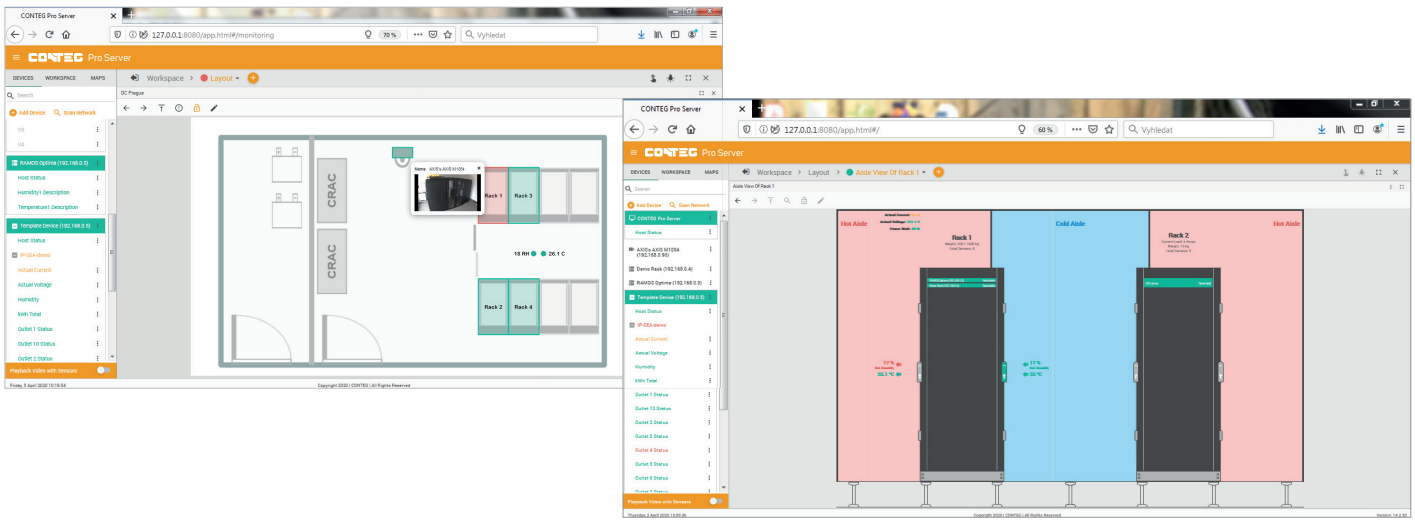
Environmental Monitoring

All monitoring devices connected to the application, whether they are sensors, detectors, readers, door contacts, or cameras, can be placed into any visual map and onto the corresponding objects using a custom icon. The map can be created directly in the application or uploaded in JPEG, GIF or BMP format.

The application also allows creating rack maps, where the administrator can place IT devices into their specific U positions and link them to their specific monitored parameters. Rack maps allow inputting load-bearing capacities and energy consumption of individual IT devices in the rack, including definition of the maximum number of installed devices. Current values are automatically calculated and displayed along with status on the object in the map, which also enables multi-layered overviews.

Thanks to a graphical display of the physical infrastructure and IT equipment of the data center/server room, you can easily:

- Monitor all critical parameters (temperature, humidity, air flow, water leakage, power, door contact status).
- Gain an overview of available capacity (space, power, cooling, weight, network connectivity).
- Search for information about installed IT equipment (manufacturer, date of installation, warranty period, software updates, servicing, etc).



Monitoring of Energy Consumption

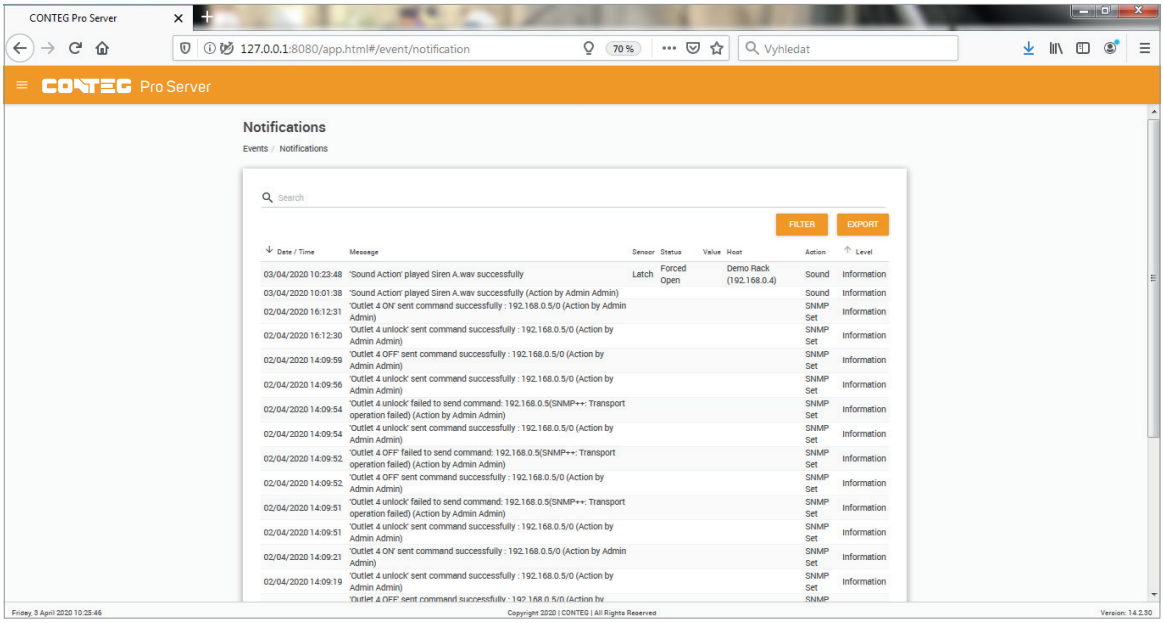
CPS monitors cooling devices, generators and UPSs. It can immediately and clearly display measured power consumption of individual components, which is then used when calculating energy efficiency in data centers (PUE coefficient).

Options for Sending Critical Alerts, Notifications and Setting Actions

CPS is capable of alerting the user in real time to impending critical situations, changes in the environment and intrusion, which helps cut down the time needed for repairs, increases efficiency and maximizes uptime. The application allows the user to create their own hierarchy of alerts from individual devices and to perform various actions:

- Send notifications and alerts via e-mail, SMS, MMS, phone call, SNMP Trap
- Perform FTP uploads
- Activate sirens and alarm lights
- Use custom scripts or commands via SNMP and Modbus TCP
- Play sound or generate a voice message
- Remotely turn devices on/off
- Control relays
- Display Windows Alerts

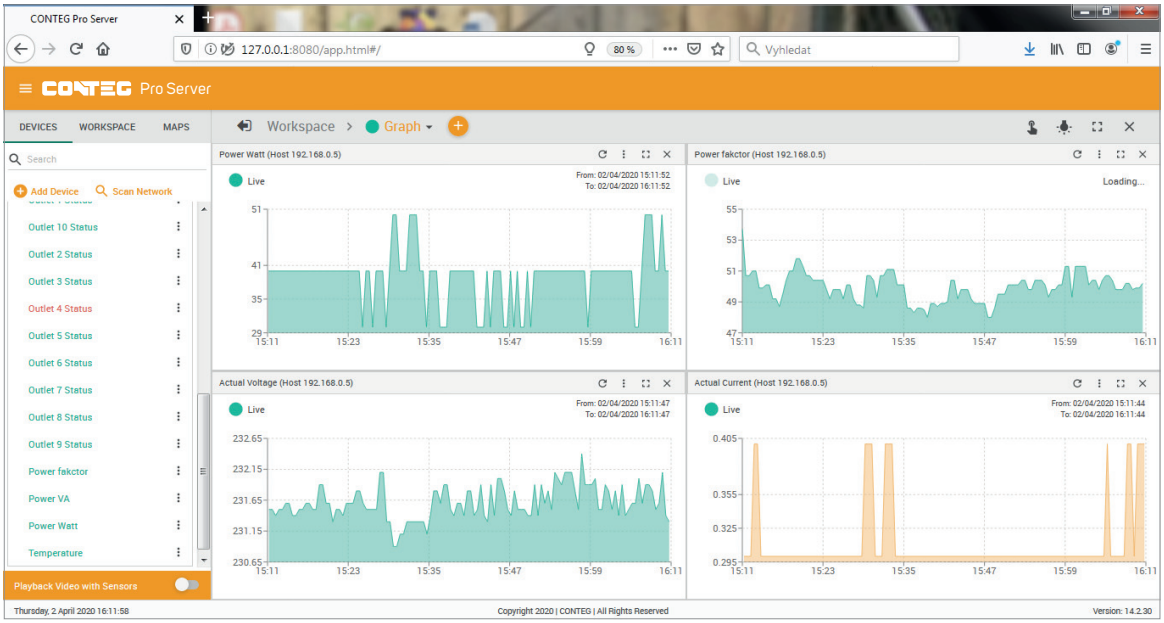
A modem connection is required to send SMS, MMS and make phone calls.



Analyses and Overviews

CPS saves data from the monitored environment into a central database where all events and critical alerts can be sorted by type, date, device, user or group. The user thus has access to both current and historical data about any device or group of devices.

Advanced Reporting feature provides a wide range of reports specific to that user's system; those can then be exported into CSV format for further analysis.



Specifications

CONTEG Pro Server software can be installed onto any server with Windows 7 OS or higher. Third-party devices can be integrated using Modbus TCP or SNMP, while cameras can be integrated via ONVIF. The base units communicate with the server via LAN or WAN. Data from remote monitored environments without cable connection can be sent to the server using a cellular radio network and VPN connection with a 3G/4G mobile data modem, using the necessary hardware

Access via web browser—CONTEG Pro Server is available anywhere and anytime on a smart phone, tablet or PC via HTML5 user interface; Chrome or Firefox browser is recommended.

Minimum hardware specifications for installation:

CPU	Dual-Core CPU is recommended Intel Xeon 3050 2.1 GHz or higher AMD Opteron 1218 2.6 GHz or higher
RAM	1 GB (2 GB or more and dual-channel recommended)
Network	Ethernet 100/1000baseT (1 Gbit recommended)
GPU	Integrated or discrete, 1024 × 768 minimum , 16bit colors.
Hard Disk	Minimum 100 Gbyte free (depends on the number of servers, cameras, rules and logging settings), NTFS file system (on Windows) Recommended: 7200 RPM or faster SATA/SAS HDDs and RAID1/RAID5
Operating System	Windows 7 64 bit or Windows Server 2008 R2 Recommended: Windows 10 64 bit or Windows Server 2016 Note: Windows Server Core versions are not supported

License

The software is installed onto a single server and its functions are unlocked using a software license code (SLC).

Code	Description *
RMS-CPS-VS	Adding one virtual sensor license to CONTEG Pro Server
RMS-CPS-VS-25	Adding 25 virtual sensors license to CONTEG Pro Server
RMS-CPS-IP-CAM	Adding one third-party IP Camera (1-year license) to CONTEG Pro Server
RMS-CPS-TMPL	Adding one network device (configured via template) license to CONTEG Pro Server
RMS-CPS-CTP	Adding one CoolTeg Plus unit (communicate via Touch-Display) license to CONTEG Pro Server

* Licenses are activated for a period of 5 years.

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