

boss

Supervisors for small, medium and large sites

with built-in Wi-Fi, accessible from all mobile devices

boss range

- Completely browsable from mobile devices, from commissioning to daily access for system maintenance;
- Built-in Wi-Fi to create a network and allow the supervisor to be accessed from the user's devices without requiring other network infrastructure.
- Built-in 4G modem on boss-micro for sending emails / instant messages / SMS without needing to use the building's IT infrastructure to connect to the Internet



Energy saving & system optimisation

Algorithms for analysis and comparison, developed exploiting CAREL's experience, to facilitate and guide users in optimising energy consumption.



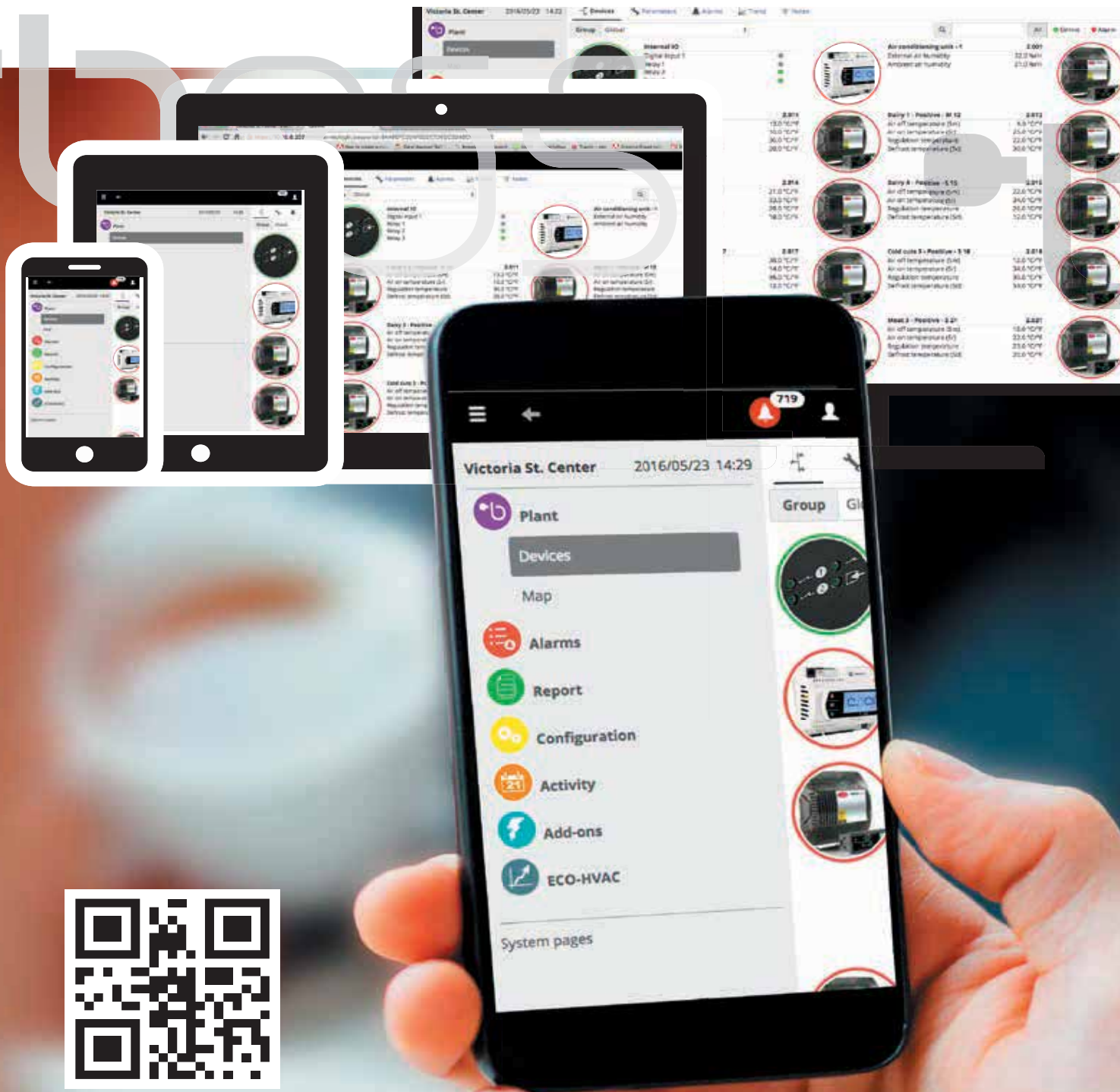
Secure data & browsing

HTTPS protocol for secure data transfer over the web from boss to an external device.
Customised operating system to guarantee system reliability.



Intuitive & customisable interface

All the information is available to the user in just a few simple clicks, including system configuration and device management.



boss always in your pocket

Responsive web pages offer the possibility to access all boss pages for both programming and everyday operations using mobile devices. The graphics automatically to the device they are displayed on (computers with different screen resolutions, tablets, smartphones), minimising the need for the user to resize the pages and scroll the contents.

centralised management

boss permits automatic data and alarm synchronisation with RemotePRO, so as to keep the situation on all connected systems under control from just one interface. Centralised system management also increases reliability, through alarm analysis and scheduling of service. It also allows increased energy efficiency by comparing energy consumption and performance between the different sites and identifying possible cost reduction actions.

remote service

Access to typical operating system functions, such as printer driver installation, copying files, etc. is also available via a web interface, another first for a supervisory system. This means that remote service operations can be performed by authorised personnel without needing to travel on site, as is required with other supervisory systems.

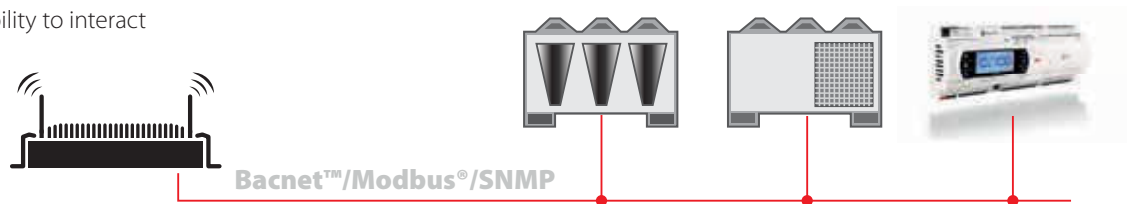
Protocols and connectivity

Management of Modbus®, BACnet™ and SNMP protocols for third-party device integration.

Third-party device integration

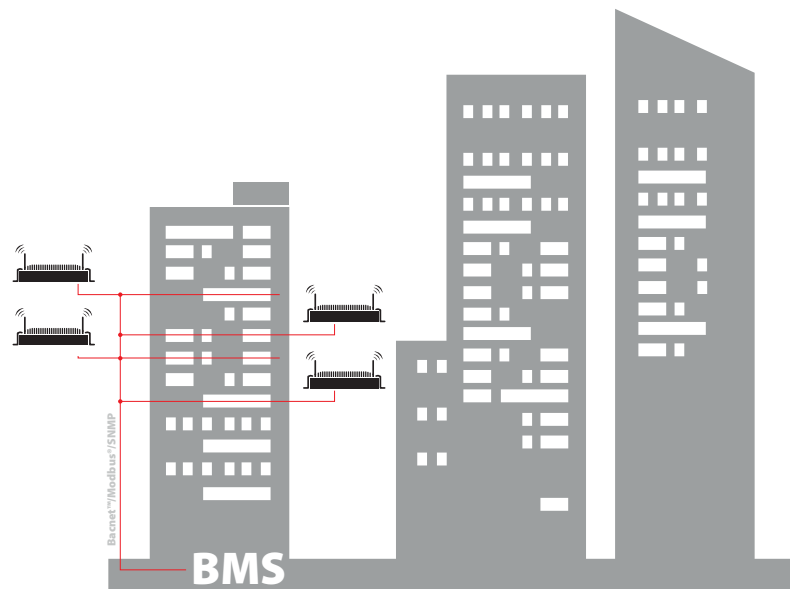
Management of these three protocols offers high potential for integration with third-party devices. The SNMP manager and BACnet™ Client protocols, available both in MS/TP and IP modes, as well as the Modbus® protocol in RS485 and TCP modes, offer the possibility to interact

with the widest range of devices on the HVAC/R market



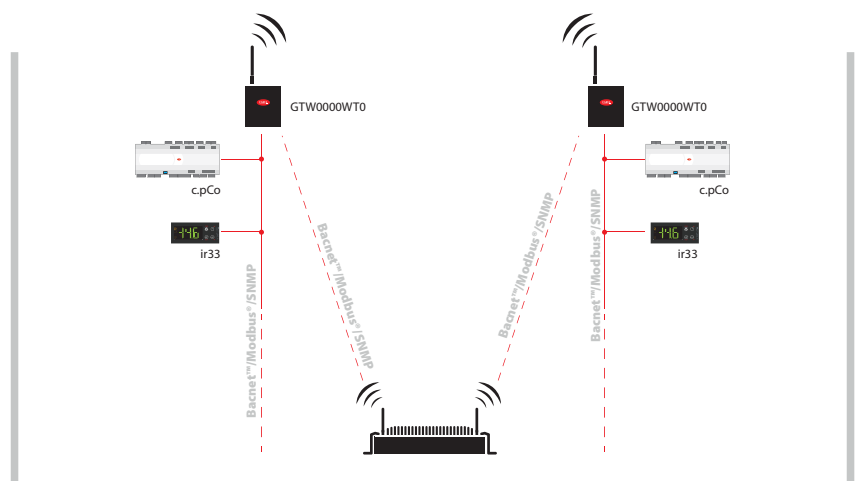
Integration into BMS systems

In addition to Client mode, the SNMP, BACnet™ and Modbus® protocols are also available on boss in Server mode, the BACnet™ protocol is also available on boss in TCP/IP Slave mode, allowing boss to be integrated into a higher-level BMS, sharing the values of interest for overall building management (e.g. unit status, alarm status, ON/OFF controls,...)



Wireless field connectivity

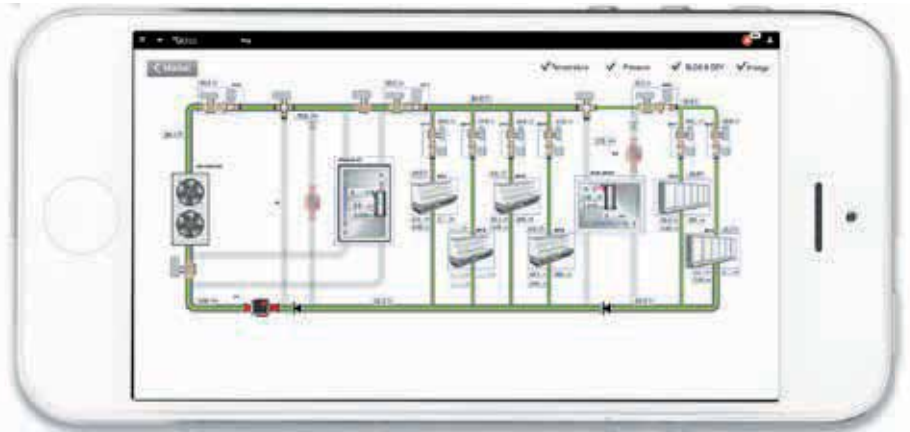
If Modbus RTU devices cannot be connected directly to the boss/boss-mini RS485 network due to installation constraints, these can be integrated into the boss system via its Wi-Fi network, using the WiFi-Modbus gateways (GTW0000WT0). Nonetheless, when a wired connection is available, this is the preferred option due to its reliability.

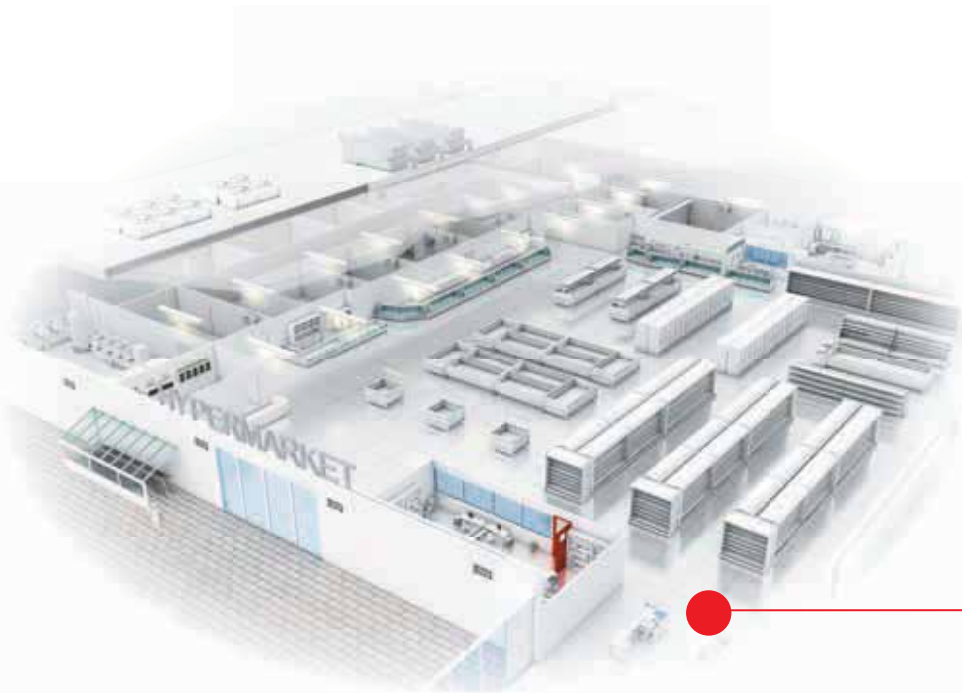


Customised graphics

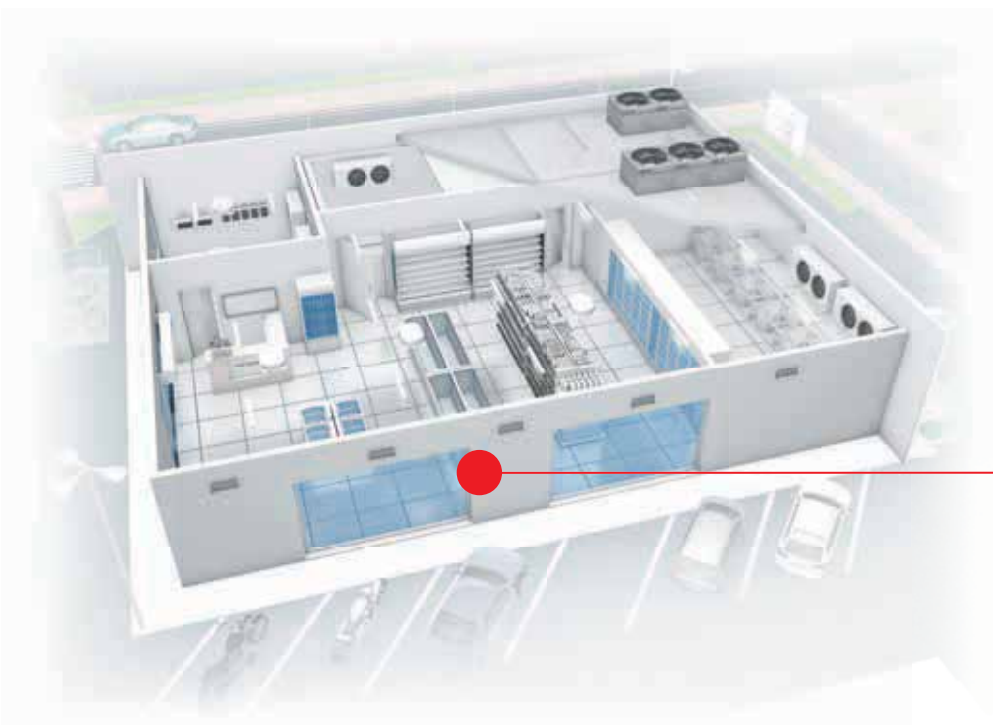
User interfaces that can be customised according to the way in which information is managed by different users

With the c.web tool, system status and the main variables relating to each controller can be represented using customised graphics. Indeed c.web offers several powerful features, such as the creation of vectorial images that can adapt to all screen sizes on both desktop and mobile devices without losing resolution, the possibility to develop customised animated widgets in just a few clicks, and the reusability of graphic libraries developed for one project inside another.

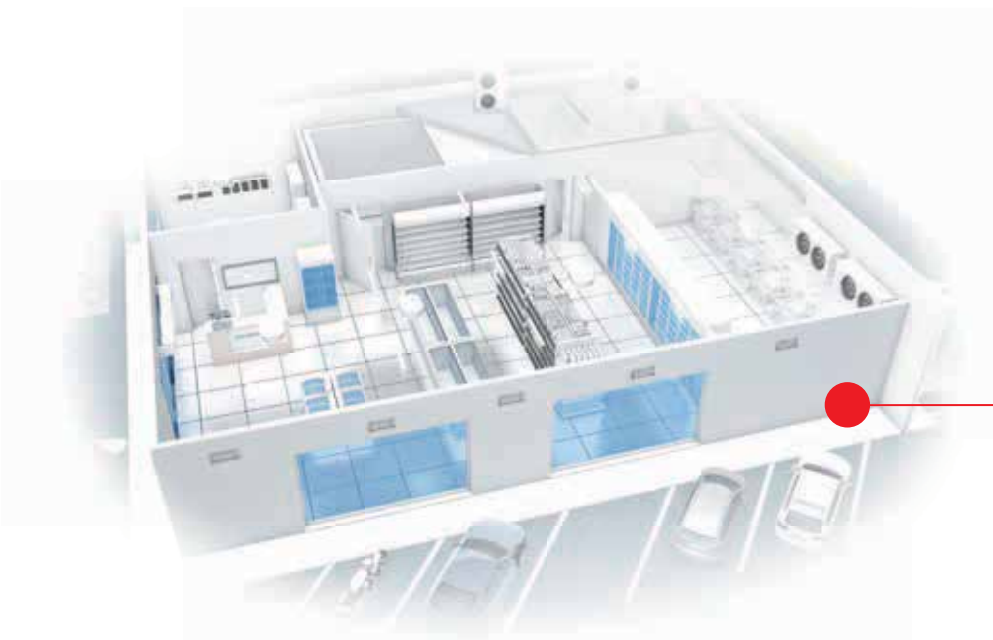




Up to 300 devices



Up to 50 devices



Up to 15 devices

Refrigeration applications

Optimisation of retail systems

In addition to all the functions of a standard supervisor, boss all includes functions for managing refrigeration units and interaction between units, meaning not only is the system controlled, but also optimised in terms of thermodynamic performance and energy consumption.

CAREL's extensive and in-depth knowledge of these applications has also led to the development of user interfaces that are configured based on the type of user (i.e. installer, maintenance personnel, system manager) and the type of use, so as ensure simpler and faster commissioning.

