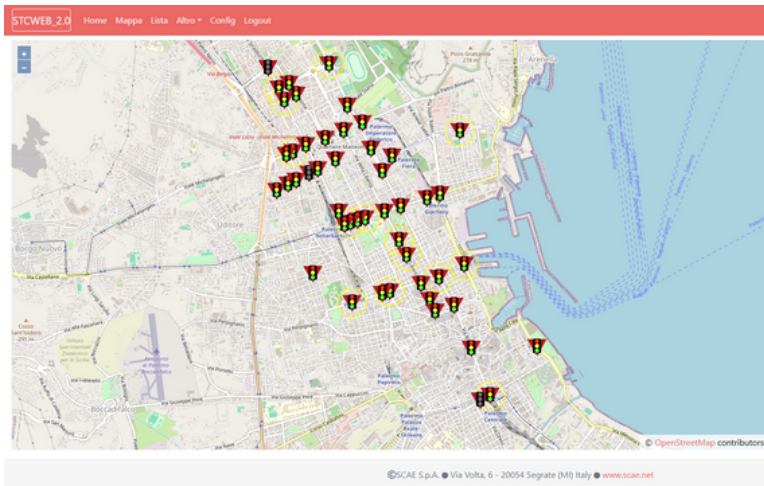# STCWEB 2.0
Traffic Supervision and Control System

Applications

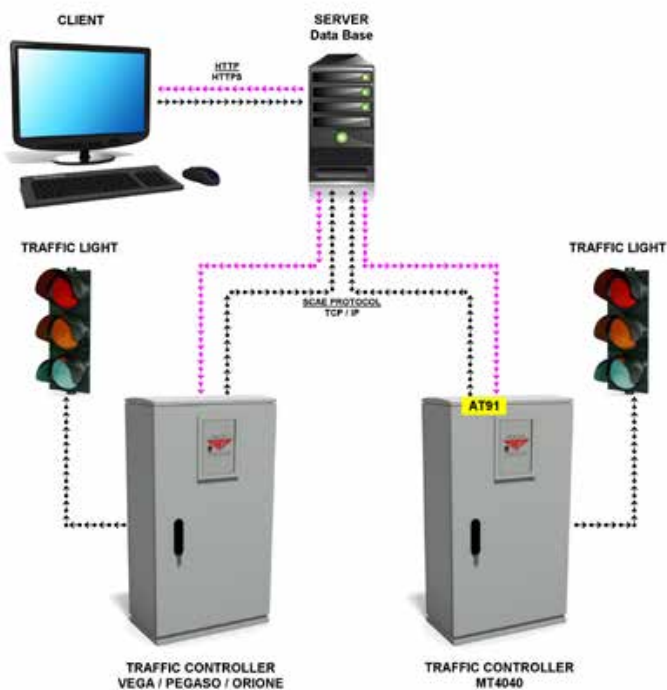The STCWEB Traffic Supervision and Control System allows users to:

- Manage the entire network of traffic controllers quickly and easily through a web-based interface.
- Benefit from a multi-user, multilingual graphical interface.
- Remotely monitor and control all traffic control units.
- Maintain synchronization between consecutive intersections (green wave).
- View animated and interactive maps of intersections, real-time statistics, and live monitoring of traffic controller status: signals, sensors, timing plans, phases, and much more.
- Receive automatic alerts when a system enters an alarm or fault condition (via email, SMS, etc.).
- Collect traffic data from each intersection and generate historical archives.
- Remotely program traffic controllers (upload and download configuration files, logs, and traffic data).

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System Architecture

Traffic Controllers and Client devices must be able to communicate with the Central Server. Therefore, they must either be located on the same subnet as the Central Server or have an active Internet connection.

System Features

The STCWEB software requires a Central Server running Windows Server 2008 / Windows 7 or later versions. Clients can operate on any operating system (Windows, Mac OS, Linux). However, remote programming specifically requires a client device running a Windows operating system.
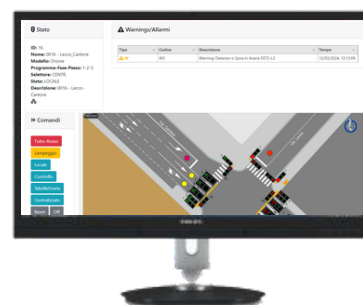
The system's Human-Machine Interface is fully web-based and designed for intuitive, user-friendly operation:

- Regulator icons displayed on the map instantly provide key information about the status of each controller.
- The Traffic Controller page displays: status information, statistics, remote control panel, animated intersection map, and much more.
- Creation and export of traffic data graphs by controller, sensor, and time interval.
- Monitoring, control, configuration, and statistics — all accessible via your web browser.
- Access from any operating system and any device equipped with a web browser (smartphone, PC, tablet). The user interface is modern, web-based, and easy to use.
- Fully configurable system.
- Integration with IP cameras.
- Command dispatch via remote control panel.

System Functions

The system provides the following core functionalities:

- Remote monitoring and control of the entire network of Traffic Controllers.
- Remote configuration and programming of Traffic Controllers.
- Exploration of the controller network through an interactive map.
- Traffic plan selection based on calendar and traffic algorithms.
- Web-based visualization of signal timing diagrams.
- Operator-friendly interface for intuitive use.
- High level of integration with other tools and systems.
- Real-time monitoring of the full operational status of each intersection.
- Automatic alarm notifications via SMS and/or email.
- Traffic data collection and generation of historical archives.
- Download of operational logs and diagnostics from controllers.
- Creation and export of reports in PDF format.
- Upload/download of files to and from traffic controllers (logs, statistics, configuration files, etc.).

Advantages

- STCWEB is a user-friendly system.
- Accessible from any web browser.
- Fully web-based architecture.
- Intuitive and easy to use for operators.
- High level of integration with other tools and systems.