



SIEMENS
Ingenuity for life

It's time to move
to a new era.
Sitraffic smartTL Connect

Siemens, S.A.

Mobility Division
Intelligent Traffic Systems
Rua Irmãos Siemens 1
2720-093 Amadora
Portugal

© Siemens 2016
All rights reserved
Printed in Portugal
Sitraffic is a registered trademark of Siemens.

The information in this document contains general descriptions of the technical options available. The required features should therefore be specified in each individual case at the time of closing the contract. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action and integrate each component into a holistic, state-of-the-art security concept. Third-party products that may be in use should also be considered.

The era of Digitalization in Mobility

Technology is at the edge of development and solutions can be tailored for every challenge. This is the time! The stakes have never been higher. That's why we strive to upgrade our products, customize them to fit our customer's needs and deliver the best offers, according to their expectations.

We present to you the Sitraffic smartTL Connect, a solution developed to fulfill a specific need: some cities have different controllers spread in several locations. Because they don't have the same communication protocol it isn't possible to have all the information in one base. The Sitraffic smartTL Connect solves this challenge by allowing our Sitraffic smartGuard to connect virtually with any controller, regardless its original specifications or brand.

This solution was developed to answer a customer's challenge: to find a way to connect our cloud based central system to all of his devices with low downtime, keeping the possibility of reverting the process and compatibility with several different types of devices. In the search for a solution, we identified a wider range of possibilities and applications worldwide.

Ideally, any traffic controller should be able to communicate with any central system. But that is not the reality today. – With Siemens Sitraffic smartTL Connect it is now possible to connect virtually any third party controller with Siemens Sitraffic smartGuard, our cloud based traffic control center.



Sitraffic smartTL Connect System Architecture – Our device (MCR module) allows bidirectional communication between Sitraffic smartGuard and third party controllers, through a secured mobile network connection (GPRS/3G/4G).

Simple installation, as easy as plug & play.

Sitraffic smartTL Connect allows you, through Sitraffic smartGuard, to monitor and control the field devices regardless of the manufacturer offering operational basic functionalities such as:

Monitor Controller's state:

- Normal mode;
- Safety mode;
- Offline;
- Power-off mode.

Control Features:

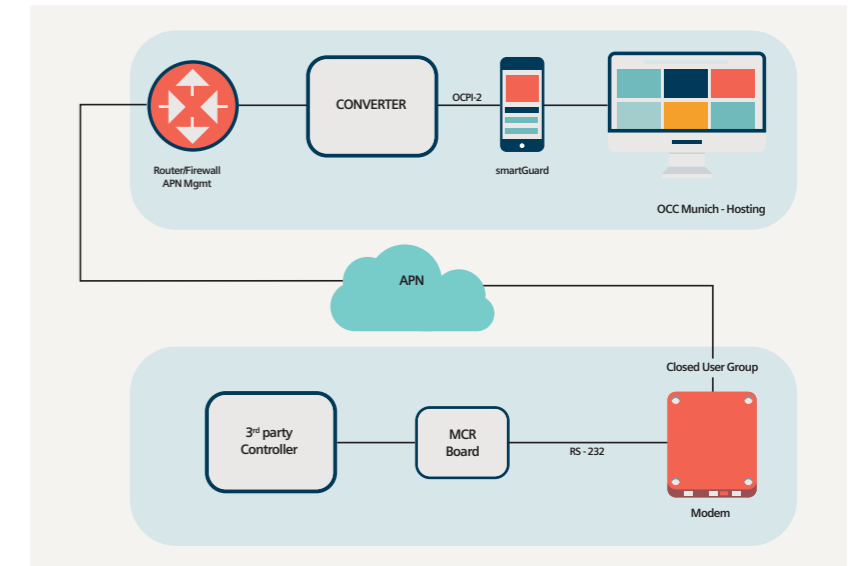
- Change between operational modes (normal and safety);
- Remote reset.

Advantages:

- Support to surveying processes, providing visibility on the operational performance of the installed base;
- Quickly deployment of Sitraffic smartGuard with already existing infrastructure;
- Enables immediate monitor and control features, while replacing older field devices;
- Increases productivity;
- Reduces maintenance costs.

In Siemens, we know about protection of investment. We deliver solutions that last. With Sitraffic smartTL Connect we also enable you to combine old & new, enabling investment protection combined with technological evolution, so our cities are better prepared for the challenges of today, tomorrow and beyond.

Unobtrusive functionality does not interfere with the controller's normal operation, although some control features might be limited depending on controller's model.



System Architecture Picture

Sitraffic smartTL Connect

Basic Data	Sitraffic smartTL Connect
Supply Voltage	85-264 VAC (includes 24VDC replaceable power supply)
Ambient Temperature limits	-20° to 60°
Max. Power Consumption	6 W
Inputs	J1 – Power supply 230VAC J2 – Monitor Grid Power Supply (Power Off) J3 – Monitor the Status of the controller (Normal/Safety) J4 – Monitor door status (open/close) 24VDC J5 – Monitor Power off (Circuit breaker off)
Outputs	J6 – Change the controller status (dry contact 24VDC) J7 – Spare output (dry contact 24VDC) J8 – Remote control for Circuit Breaker 230VAC
Modem	3G modem
Interfaces	USB for configuration using a configuration tool
Control Centers	Sitraffic smartGuard Sitraffic Scala
Monitoring functions	Normal mode Safety mode – Yellow flashing No communication Power off mode Grid power off Door Open
Types of Control	Change between operational modes (normal and safety) Remote reset
LEDs outputs for information	LED1 – Power supply - Green LED2 – Communication - Blue LED3 – Intermittent state of Intersection- Yellow LED4 – USB communication (Tx) - red LED5 – USB communication (Rx) – green