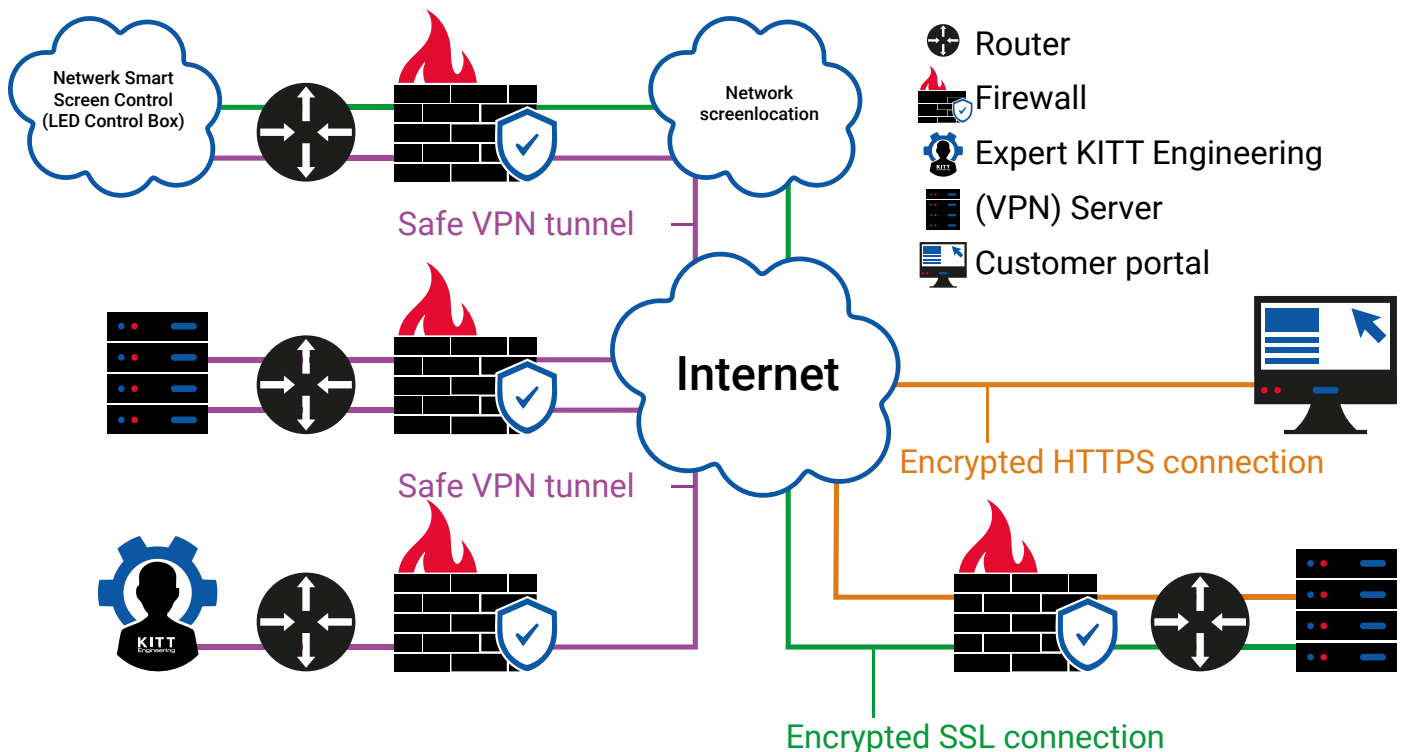


SCMS

SCMS, short for Screen Control and Monitoring System, is a system developed entirely by KITT for the reliable control and monitoring of LED screens. The system is used for advertising masts, travel information screens, and innovative screen solutions. The purpose of Smart Screen Control is:

- Optimal image quality in varying light and weather conditions
- Early detection and resolution of malfunctions, without these becoming visible to the public
- Energy-efficient management and insight into energy performance



Reliability and Safety

- ✓ Redundant light sensors for measuring ambient light.
- ✓ Checking the measured ambient light value before the value is used.
- ✓ The control and monitoring of the screen can be influenced independently of the content.
- ✓ Secure management connections via our own closed VPN network (only accessible to KITT).
- ✓ Encrypted connection between screen location and Smart Screen Server from the outset.
- ✓ System operation also guaranteed in the event of internet connection failure.
- ✓ Early detection of malfunctions before they become critical.
- ✓ Various automatic failsafe mechanisms.



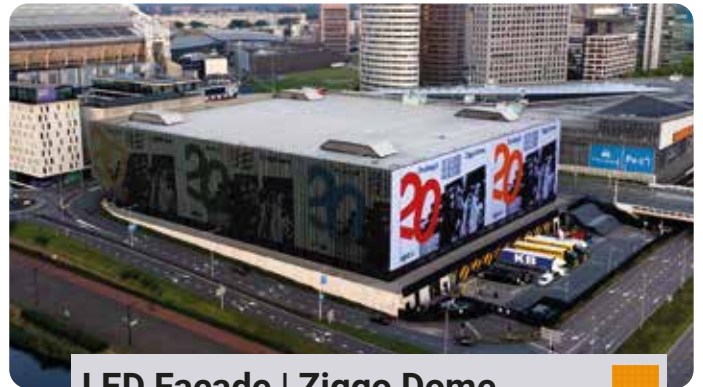
In many cases, remote intervention is possible, preventing unnecessary service visits.

SCMS In daily life

The system has been running reliably for years at locations in the Netherlands and Europe:



LED Screensn | Ocean Outdoor



LED Facade | Ziggo Dome



TBXL Screens | ProRail



LED Screens | Westfield

Insight and Reports

With the Smart Screen Web Portal, customers always have insight into:

- ✓ Real-time status and insight into the statistics of their screen(s).
- ✓ Power consumption and registrations over a longer period of time.
- ✓ Reports in PDF format that can be easily generated online by the customer.
- ✓ An online ticket system as a means of communication regarding malfunctions and maintenance.

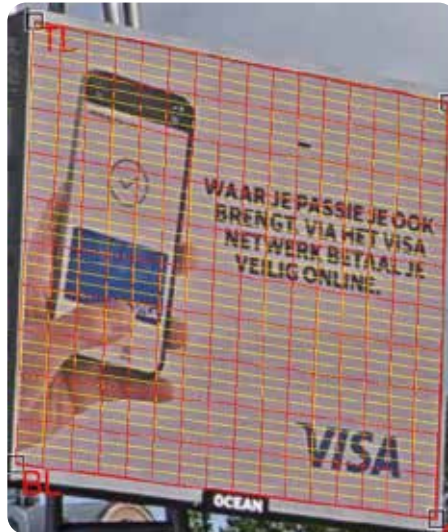
Up-to-date and future-proof

The system is constantly evolving, with improvements that respond to the latest insights and technological possibilities. For example, a user-friendly Web Portal has been developed for management, the backend has been optimized for higher performance, and energy consumption is predicted with increasing accuracy based on weather data and image content.

Further development is focused on sustainability and smart integrations. Examples include reducing energy consumption in collaboration with suppliers, local energy generation via solar panels, making existing installations more energy efficient, and linking up with the lighting of traditional advertising masts.



When a disturbance is detected on the screen, a photo of it is uploaded.



The fault location application maps the exact location of the disruption.



The disruption has been resolved by the technician.

SCMS - Practical use

The effectiveness of SCMS is clearly visualized above. A customer reports a disruption in the image, visible as a black square. This disruption is recorded in the customer portal using a so-called "ticket." The customer takes a photo of the disruption and uploads it to the portal.

Based on the photo, our fault localization application can map the disruption. The technician can work in a targeted manner on site, even if the fault is no longer visible at that moment. This promotes sustainability, as it saves travel time and resources.

As soon as a technician is at the screen, he replaces the part. The defective part is located and replaced using the data from the fault localization application, after which the open ticket is closed on the spot.



The result? No unnecessary follow-up visits, an efficiently resolved problem, and a satisfied customer.

Summary: The value of SCMS

- ✓ Prevent light pollution using our proprietary software.
- ✓ Our Smart Screen Control system uses completely secure connections.
- ✓ Early detection and fault resolution.
- ✓ Problems can often be resolved remotely.
- ✓ Energy management and clear reporting.
- ✓ Continuity, even without an internet connection.



Curious about how we can apply Smart Screen Control to your installation? Contact us and ask about the possibilities.