Sitraffic 3S

Ecosystem for efficient networking of infrastructure and road users – at the highest level of safety and security

The Sitraffic One solution and Sitraffic 3S ensure SIL3, the highest safety integrity level that traffic systems can reach.

We are living in an increasingly digitalized society. This development is accompanied by a growing risk of cyber attacks. For municipalities and the economy in general, this presents a major problem since cyber attacks can result in loss of trust, damage to the public image and enormous costs. This is why information security is becoming ever more important in virtually all sectors, including traffic control as one of the areas evolving towards comprehensive digitalization. Since traffic involves public safety, all systems used have to meet the highest safety and security standards.

Growing risk of security vulnerability

While highly secure IT systems are no guarantee of general safety, a low level of IT security increases the risk of safety-critical incidents such as outages of traffic signal systems. The potential points of attack multiply with progressive digitalization and rising complexity of transport infrastructure systems: data exchange between control centers, link-up of field equipment, access facilities for remote maintenance, combination of IT components of different life expectancies, etc.

Sitraffic 3S stands for safety and security in road traffic systems

Siemens combines decades of experience in developing traffic control systems with comprehensive expertise in the field of IT security. With Smart Security, Siemens offers single-source IT security technology that covers products, systems and operation. This also does away with the need to pass sensitive data to third parties. As all-encompassing security strategy for all ITS systems, Siemens has developed Sitraffic® 3S.

Safety and security from the start

Our approach accommodates individual customer requirements, incorporates IT security measures already during the planning phase and includes consulting services that help customers to quickly detect and close any new IT security gaps that may emerge after implementation: with a special focus on full data protection, operational availability and system integrity in order to protect public safety and security as well as the operating organization's image.

siemens.com/mobility

Sitraffic 3S stands for ...

... Safety
Siemens ITS systems help protect both road users and the environment. The Sitraffic One solution and Sitraffic 3S ensure SIL3, the highest safety integrity level that traffic systems can reach.

... Security
Optimum protection also against future hazard scenarios – for more than a decade, Sitraffic Canto has been synonymous with security in digital data exchange between controllers and control centers.

... System
Sitraffic 3S combines safety and security in a single system as a prerequisite for progressive networking, for instance between infrastructure and road users. The ISO/IEC 27001 certification of product, system and service portfolio ensures that all IT security technologies always comply with the latest technical standards.

ISO/IEC 27001 certification

SIL3 certification

Security Safety System

Sitraffic 3S – always at the cutting edge of technology

There is no such thing as total IT security, except maybe for a very limited amount of time. Hence, anybody who wants to keep their IT secure needs to keep abreast of developments. This is made possible by our SIL3-certified products, continuously evolving system solutions and system maintenance contracts as well as comprehensive consultancy services. Siemens is your ISO/IEC 27001-certified partner for IT security in road traffic engineering – and Sitraffic 3S is Siemens' advanced IT strategy that will keep your systems optimally protected against cyber attacks.

Why is information security of rising importance around the world?

Costs of Cyber crime*

Minimum: 375 billion

Worldwide: 400 billion

Maximum: 575 billion

* Estimated costs in US dollar
Source: CSES/McAfee 2014: Net Losses – Estimating the Global Cost of Cyber Crime

Damage to a company's public image, loss of trust and enormous costs: cyber crime is among the major problems facing the economy. Due to the incredibly rapid changes in the threat level for IT systems, there is a growing focus on the issue of cyber security.**

** See also:
BSI Magazine 2016/2, Federal Office for Information Security (BSI), Germany

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DNV·GL
INFORMATION SECURITY MANAGEMENT SYSTEM
ISO/IEC 27001