# Strong Protection for Production Networks:

An industrial firewall ensures top-quality IT security: it allows data in the production area to be available at all times and confidentiality and integrity are always ensured. The use of industrial firewalls is recommended by leading industrial associations, such as the VDMA – they provide an effective defense against cyber attacks and malicious industrial software which can spread through a network at any time. The consequences of such an attack or infection could include malfunctioning of plant and machinery, expensive standstills, delivery problems and last but not least, damage to your reputation.

## Effective Protection through Segmentation

Production networks with a simple security architecture offer a maximum vulnerability to attackers and malicious software: all components and data in the network are endangered if the central firewall is breached.
The implementation of zones can prevent a complete production infrastructure being compromised.
Increasing the number of zones reduces the potential dangers. Security problems can be detected more easily – and the time lost, the damage suffered and the costs resulting from a compromised system are reduced. In addition, a proven risk reduction solution for your production systems improves your positions in security and supplier audits.

## Ideally Equipped with the genuwall Industrial Firewall

The genuwall industrial firewall enables you to implement highly effective barriers against attacks to your production networks (LAN, WAN and VLAN). Depending on the protection required, security zones can be configured for individual machines, complete production systems or production areas. The genuwall organizes the separation, with the firewall reliably regulating all data traffic and only allowing those connections that are explicitly wanted. It handles more than simply routing: the firewall can, for example, be

added to a network as an invisible stealth system without the need to change an IP address and then used in bridging mode to implement internal security zones. To this end it can provide DHCP, DNS and NTP services, ensuring efficient administration of your network. Source and destination NAT mean that identical IP address ranges can be easily integrated in a production network. In addition, internal network IP addresses can be hidden from the outside.

### Your benefit from genuwall:

- Highly effective protection for your production networks through security zones
- Simple Implementation of sub-networks
- Very suitable for large production infrastructures
- Support for communication and telemetry protocols such as OPC UA, Modbus/TCP and MQTT
- A scalable high availability solution that can be quickly and easily integrated
- Central, simple and time-saving administration
- IT Security made in Germany, based on a solution certified by the German Federal Office for Information Security

## Simple Integration

Industrial firewalls are installed at network boundaries between security zones. The genuwall is simple to integrate so that you have as little inconvenience as possible. A single appliance will provide a data transfer rate of up to 1 Gbit/s. Higher performance requirements can be met with clustering which, in addition, ensures high availability at important interfaces. The genuwall is available on rugged industrial hardware for use in production networks.

## Easy to Administer

The genuwall industrial firewall is administered by either the Central Management Station genucenter or a stand-alone GUI. The Management Station allows the operation of larger installations with many appliances – including networks that are distributed world-wide – and ensures that security policies, logging and bulk operations can be implemented conveniently. In addition, the centralized distribution of patches ensures that your complete system is always up-to-date. This means that you will be able to easily operate a unified security infrastructure and reliably protect all network segments. The Management Station also supports plant monitoring solutions and secure remote maintenance and thereby allows you to simply extend your industrial security to meet changing requirements as you require.

## Based on a Certified Solution

The genuwall industrial firewall provides IT security made in Germany. Based on the tried and tested genuscreen firewall, which is certified by the German Federal Office for Information Security (Bundesamt für Sicherheit in der Informationstechnik, BSI) according to the international Common Criteria (CC) standard at the strict EAL 4+ level. The genuwall provides you with a top quality security solution that won't be cracked by skilled attackers.
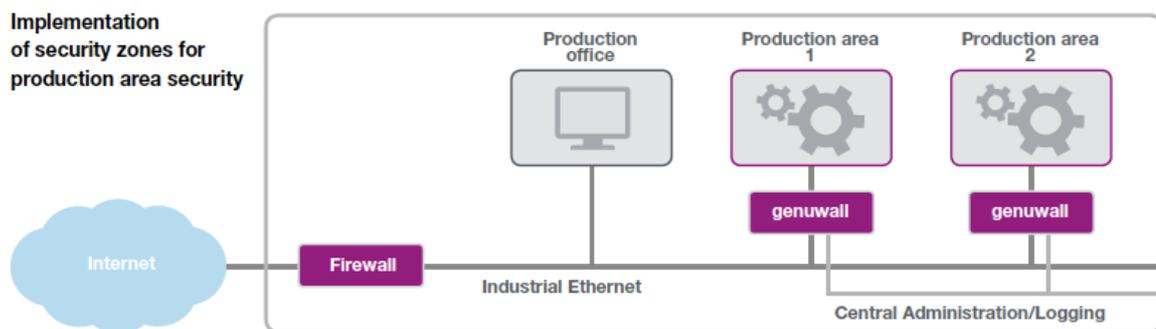


## About genua

genua GmbH is a German IT security specialist. They have been involved in securing networks and developing sophisticated security solutions since the company was founded in 1992. They offer a comprehensive portfolio:
- securing sensitive interfaces in public authorities and industry to networking highly critical infrastructure.
- reliably encrypting data communication over the internet
- remote maintenance systems for machinery and IT systems
- remote access solutions for mobile users and home offices.
- Their solutions are developed and produced in Germany and many companies and security-conscious public authorities rely on solutions from genua to protect their IT.
- genua is a member of the Bundesdruckerei Group.  Further information: www.genua.eu

## About Qgenius Cybersecurity Shield (QGCS)

Qgenius Cybersecurity Shield is Qatari iT-company and Service Provider based in Doha, with the excellent Security Solutions and Products developed and manufactured by Genua GmbH in Germany.  As an authorised Partner of Genua GmbH we provide in cooperation the leading iT-Security Solutions for Companies, Industry, Public Authorities and Government for Qatar.
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