

MagiCtwin



Did you ever worry about the access and availability of your industrial network? What are the effects if this network is taken over or shut down by hackers?

MagiCtwin is the solution to protect the Smart Industry and vital infrastructure against attacks from the outside so that you are sure that your industrial network is protected.

Easy to integrate and to manage, only one traffic direction due to the 'air gap', specific proxies for optimal security by two NextGen firewalls.

MagiCtwin has it all!



Next Generation SCADA security

 **Compumatica**
SECURE NETWORKS

English

Cybersecurity with a personal touch



“Separation of industrial and office networks”

// MagiCtwin

In the smart industry (Industry 4.0), industrial systems and sensors are at the heart of organizations. Organization’s main concern is that these systems have to be operational 24 hours 365 days a year. They are so important and may not be out of service for more than 5 minutes. Security comes after operational results and that makes the systems and sensors more vulnerable to attacks.

With the use of MagiCtwin these problems belong to the past. Additional security will no longer influence the 100% availability. Indeed, the OT network could be fully separated from the IT network. Depending on the needs of the customer the MagiCtwin is available in an one-way, controlled two-way network communication or a virtual diode functionality.

MagiCtwin consists of one device with two compartments, which are completely separated from each other. Both compartments are designed to work independently from one another and have their own motherboard, power and network connections. The MagiCtwin is available in two

different models MagiCtwin Diode or MagiCtwin Firewall2 and both models are suitable in a virtual environment.

MagiCtwin Diode

The MagiCtwin Diode is a classic data diode, where only one-way traffic is possible. By having one-way network communication, the OT and IT network could be fully separated and there is no traffic possible from the IT to the OT network.

Virtual Diode

The MagiCtwin Diode is suitable to run on a virtual machine, which is a unique way of secure transferring data (f.e. files) from one virtual datacenter to another. The TX side receives data from all sensors in the network, collects and transfers the data to the RX side, which could be located in another datacenter. Users of the receiving datacenter, log-in to the FTP-server to receive the files or data is pushed to the datacenter.

MagiCtwin Firewall2

With the use MagiCtwin Firewall2 two-way network communication is possible. However, thanks to both

firewalls, it could be fully regulated. With a double firewall, specific protocols could be allowed, while others will be blocked.

Virtual Firewall2

The MagiCtwin Diode is suitable to run on a virtual machine, which is a unique way of secure transferring data (f.e. files) from one virtual datacenter to another. Instead of using a TX and RX side, the Firewall2 uses a button to force the software to allow only one-way communication without changing any protocol(s).

NextGen Firewall

With the NextGen application layer 7 Firewall all IP packets will first be checked, before they are allowed in the network. The firewall combines user friendliness with high security due to the principle of ‘everything which is not allowed, is strictly forbidden’.

Customer industries

- Healthcare
- Military
- Government
- Transport & logistic
- Factories (Smart Industries, Industry 4.0)
- Electric Power Industry



// Features

Special proxies

MagiCtwin contains proxies which are specifically developed for industrial environments. These proxies are part of the internal NextGen firewalls.

OT versus IT

With the two compartments, the MagiCtwin could be used to separate IT and OT networks from each other. This is limited to one-way traffic or regulated two-way traffic.

Network completely shielded

With MagiCtwin the Process Control Systems (PCS) are protected against attacks from the outside. The 'air gap' only allows one-way traffic which ensures that the PCS systems are not reachable from the internet.

Security principle firewall

Security is for Compumatica of ultimate interest. Misconfiguration with security leakages as a result is excluded because the NextGen firewalls in default modus know the following principle 'Everything not explicitly allowed is strictly forbidden'.

FTP Servers

Both sides of the diode contain a FTP server to collect, store and transfer files.

Sustainable solution

With multifunctional applications, MagiCtwin is a sustainable solution. MagiCtwin could be installed in many ways and has a long life time. MagiCtwin is suitable for industrial and office environments.

Secure is really secure

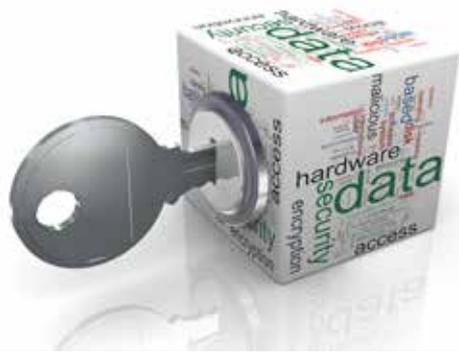
All traffic through the MagiCtwin is inspected. The integrity is guaranteed by AIDE (Advanced Intrusion Detection Environment). Even the smallest manipulation is detected and reported.

Proven technology

The firewall technology in the MagiCtwin has been in use for more than 15 years. MagiCtwin has a long lifetime and is a reliable and sustainable solution.



"Suitable for critical infrastructure or Smart Industries."



*“MagiCtwin
is 100 %
free from
backdoors.”*

// Certified and trusted solution

The NextGen firewall is based on the CompuWall technology. The CompuWall is approved and certified by the Dutch and European government for restricted use.

MagiCtwin is developed by Compumatica in the Netherlands and Germany and doesn't contain any backdoors. Nobody has access to the key material except the customer. To confirm this statement every customer is allowed to have a look into the source code.

// Compumatica

Compumatica secure networks is a manufacturer of high level security solutions for encryption and securing networks. Compumatica has more than 20 years' experience in the cybersecurity market and has a complete and modern product portfolio using new technologies.

Compumatica develops, produces and implements solutions with a high security grade without backdoors. During the development process of the solutions, security is the main focus besides simple implementation and integration, easy management and usability for the end user.

Every single product goes through a quality assurance phase in which it is subject to a long-term test. Long product life times with updates and upgrades are guaranteed for each solution.

With our slogan “Cybersecurity with a personal touch” we point out that customers are our first priority. Do you have questions, do you need support, do you want to upgrade products to the latest solutions, or do you have special demands? We are pleased to help you.



Petra van Schayik
CEO Compumatica

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