

genua.



genubox

Secure maintenance procedures for networked industrial plants and IT systems



Remote Maintenance

Customized adaptation to individual remote maintenance situations

SecurITy
made
in
Germany

SecurITy
made
in
EU

genubox: Remote Maintenance Protection for all Target Systems

To the manufacturing industry, the rapid further development of IoT (Internet of Things) not only presents new opportunities to more effectively check and control work processes and machinery via remote access. Extensively networked target systems for remote maintenance are also well established in other areas of application: for example, they ensure the operation of HVAC systems (heating, ventilation, air conditioning) in building automation, support critical infrastructure organizations and sensitive IT systems such as SAP solutions or ensure quality assurance in the process industry.

Whether as a virtualized solution, industrial appliance or rack system: genubox protects target systems from unwanted access, espionage and sabotage in a wide variety of areas of application. The remote maintenance solution thus plays a pivotal role in ensuring optimal functionality and performance, which can positively impact the TCO (total cost of ownership) or make the working hours more efficient. genubox protects the data and communication for remote maintenance activities with regard to availability, confidentiality, and integrity. It also secures the transfer at critical network junctures. The unique solution provided by genubox: it is used as a Rendezvous Server and Service Box.



genubox is available as a virtualized solution, industrial appliance, and rack system

All maintenance connections pass through a Rendezvous Server, and it is simultaneously used as a platform for various functions. This minimizes risk when accessing remotely and increases the security and safety maturity.

All Advantages at a Glance



Comprehensive governance with complete control over all remote access processes



Flexible clustering of the target systems for different security levels



Application-specific, minimally invasive remote maintenance access without network coupling by using hardened SSH



Full control: operator approval, live view, video recording



Complies with BSI recommendation for secure remote maintenance in industry



VS-NfD-ready for use in classified networks

You can obtain more information and advice here:

www.genua.eu/genubox



Secure Maintenance of Sensitive Networks

The consequences can be devastating when hackers or malicious code are able to penetrate a LAN via the maintenance access point: from machine standstills through to endangering personnel.

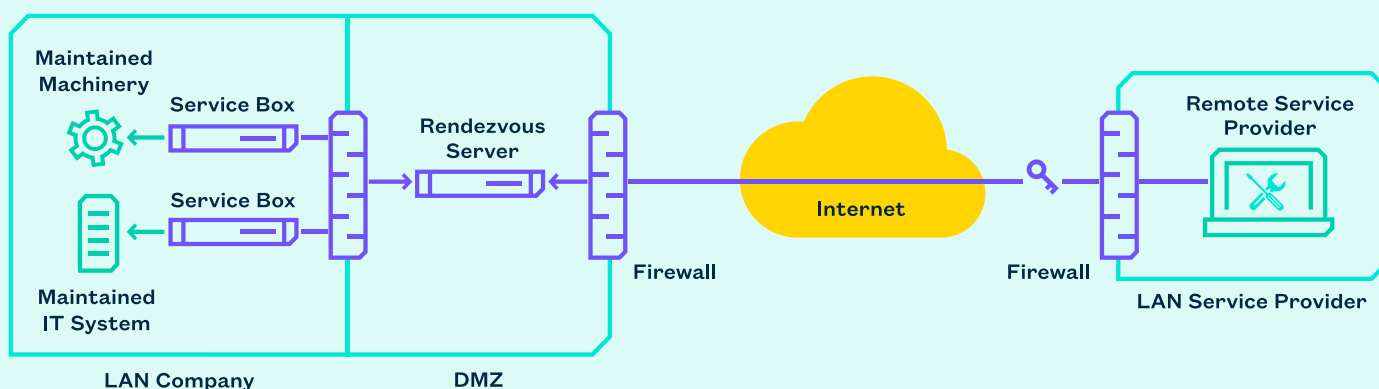
genubox ensures a high level of security for remote maintenance in IT/OT networks. As a platform, it combines remote access, encryption and firewalling in a single solution that can be centrally managed with full connection control at all times of maintenance action, access time, target, and accessing instance.

An interface to identity and access management systems enables central user and rights management. Keycloak, Microsoft Active Directory, Microsoft Entra ID (formerly Azure Active Directory), OKTA, and RADIUS are supported.

Keeping an Eye on Remote Access at all Times

In addition to access control, genubox also offers extensive monitoring functions: For example, you can follow all activities of the maintenance services live via the user interface and create video recordings for audit-optimized documentation.

You thereby always have an eye on the remote access and can easily ascertain afterwards who did what in the network and when they did it, as well as resolve critical incidences with this documentation.

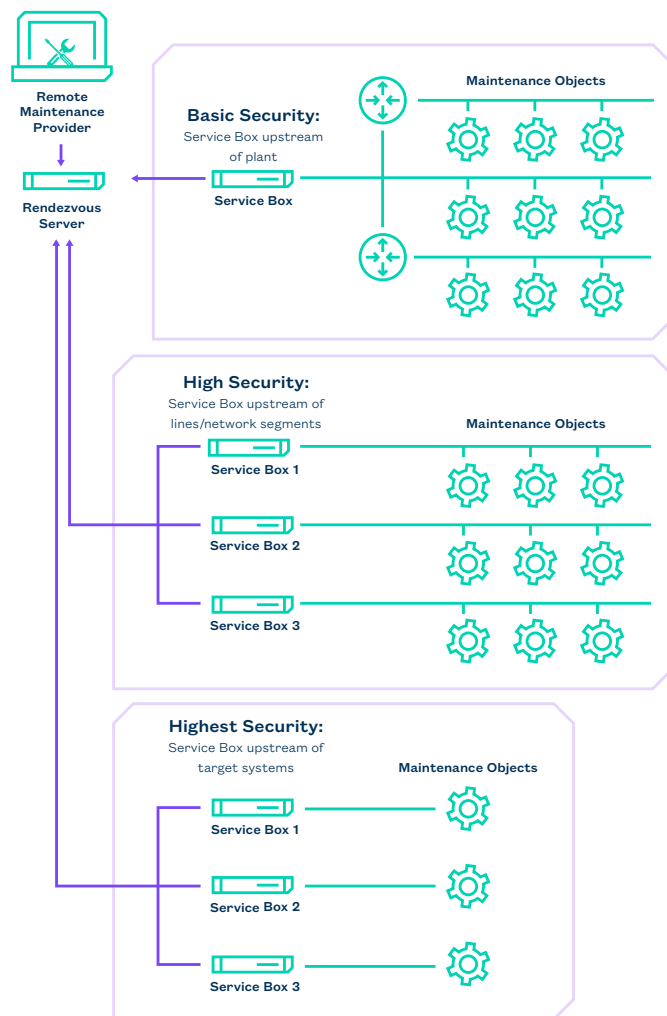


genubox as Rendezvous Server and Service Box in one solution

» Installing genubox was quite easy. Now, we have an overview of all locations and we can change filter rules across locations and dispatch updates to all genuboxes.

Fabian Friedrich, IT System Administrator,
Loh Services

Flexible Integration Concept



Isolation level examples for target system integration

User Friendly Operation

If you want to give a maintenance provider access to a target system, this can be done quickly and easily with genubox.

You can provide the maintenance provider with a configuration file for the maintenance connection using a central management solution. As soon as you set up the maintenance connection to the Rendezvous Server, the maintenance provider can access the supported target system via a standard web browser or a Windows app and carry out the maintenance work securely.

The decisive security feature of genubox: The Rendezvous Server ensures that you retain full control of maintenance access in your networks.

Simple Integration in Networks

Depending on the requirement, genubox offers numerous security variants for integration into your IT/OT infrastructure. In industry, this may be the case upstream of a plant, upstream of the lines/network segments, or right on the target systems or maintenance objects.

The application is flexible, cross-platform, and scalable – on premises, in the cloud or with rack hardware. For operation in production environments, genubox is available as a rugged industrial appliance with convenient features such as key switch and two-factor authentication.

Reasons Why

- Experts for the IT security of companies and public organizations
- Offer of a comprehensive, modular IT security portfolio
- Quality without compromise for all products, services, and processes

genua – Excellence in Digital Security

genua develops innovative, reliable as well as market-shaping products and solutions. Whether in the public sector, for the operators of critical infrastructures, in industry or in the protection of classified information: we provide answers to the IT security challenges of today and of tomorrow.

Further information:
www.genua.eu/genubox



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