genusphere

Facts & Features

Mobile Work

Definition

With genusphere, organizations can enable mobile users to securely access internal applications via web browser. No VPN client is required, instead – and beyond the capabilities of a traditional VPN solution – genusphere enables fine-grained control over access conditions to the target applications. It offers security features such as multi-factor authentication, Zero-Trust access control, and secure data transport. It features simple administration via Single Sign-on, access logs, and clientless access.

Typical Use

- Grant access to restrictively used applications
- Continued operation of and access to legacy web and Windows applications
- Access to special control applications of machines and systems
- Access to security-relevant admin interfaces (e.g. genugate, cognitix Threat Defender)
- Set up temporary access for external employees (e.g. for attack assessment: cyber, BSI or similar)

Reasons to Choose genusphere

- Fine-grained micro-perimeter security through application-specific, rule-based access protection
- Easy access directly on application or GUI for internal and external users via web browser (without installing VPN clients or similar tools)
- Meeting point principle with internal connection enforces Zero Trust concepts
- Flexible scalability through Kubernetes platform
- Secure communication through encryption of all data traffic
- Easy integration into IT and security infrastructure through support of existing identity providers Microsoft Entra ID (formally Azure AD) and Keycloak
- Administrators always have an overview of usage and operation through the dashboard with metrics
- Audit optimization through logging of all accesses and changes
- Dynamic adaptability through agile administration with a variety of rules, policies, sub-policies, and logical links

Service

- Customer service directly from the manufacturer
- Hotline service/update service
- Comprehensive training courses

SecurITy made in Germany

Excellence in Digital Security.

System Requirements	
OS	Ubuntu Linux 22.04 LTS and 24.04 LTS
Kubernetes	K3s 1.30.0 or higher
Browser	Chrome: 127.0 or higher, Firefox: 127.0 or higher, MS Edge: 127.0 or higher, Safari: 17.5 or higher

System Requirements (Connectors)	
OS	Linux system (amd64 compatible)
Docker	23.0 or higher

Supported Identity Providers	
MS Entra ID	Current version
Keycloak	24 or higher

Supported Protocols	
Supported application protocols via integrated html5 client	http, https, RDP, VNC, SSH

Audit Functionality	
Users	All user access to the managed applications will result in an audit log entry within genusphere
Administrators	All admin activity in the genusphere UI will result in an audit log entry including details about the change

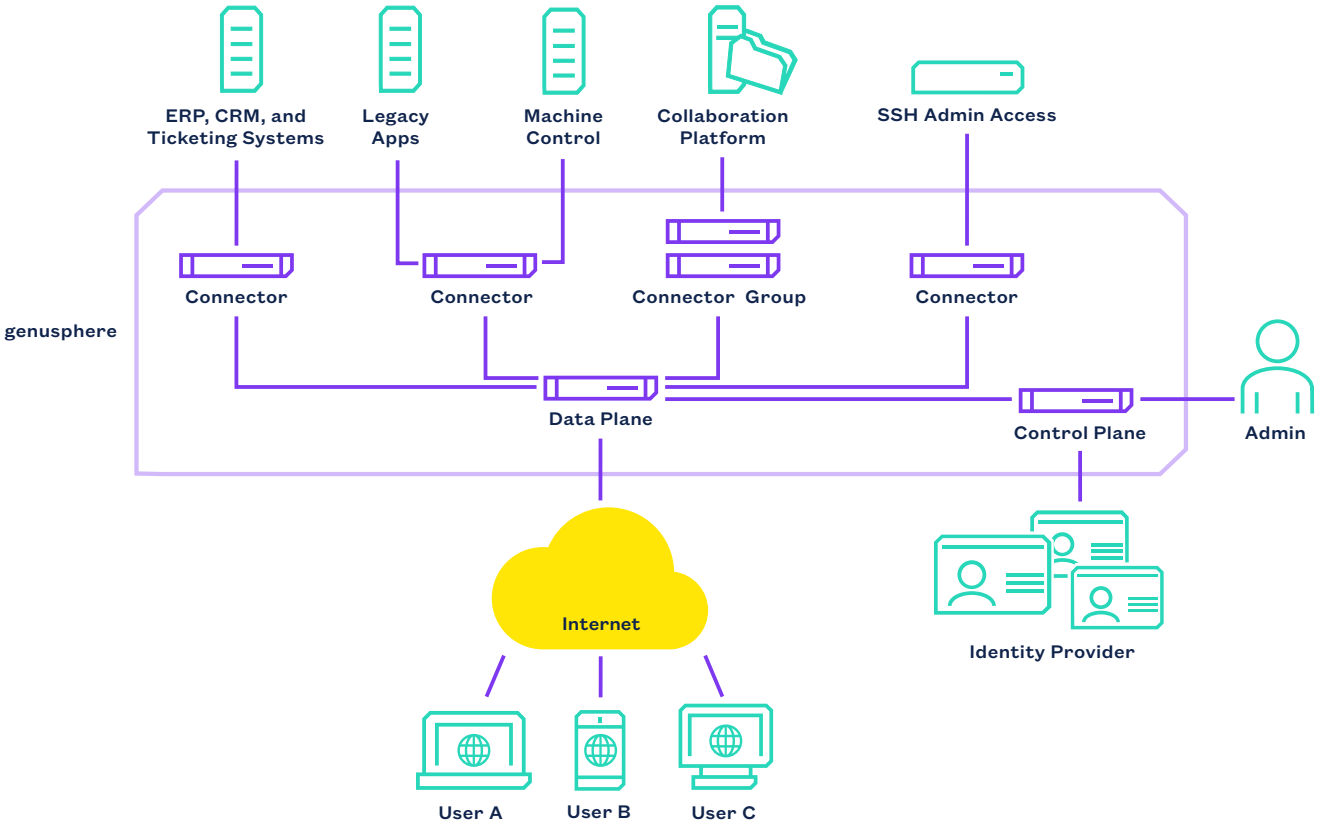
High Availability	
genusphere data plane	Active-active with load balancing
genusphere control plane	Based on the Kubernetes capabilities, the control plane immediately restarts in case of an issue
genusphere connectors	Connectors can be setup as connector groups in an active-active way. This will offer support for high availability as well as balancing the network load for high-demand applications. The customer can define per connector group how many connectors will be installed.

Monitoring	
Dashboard	Integrated dashboard provides an overview of all essential metrics and statuses; all issues are listed
Logs	All logs of the application will be written to StdOut, a Kubernetes-wide logging solution can collect and process them

Administration	
General	Web GUI with online help

More product information

Use Cases



Protecting Internal Applications

genusphere offers a fine-grained authorization management for secure remote access to internal applications. Using the connectors, the IT administration can create micro-perimeter for each application. Depending on the needed performance and the high-availability requirements, the connectors can be configured as connector group.

0225-02-E

Further Information:

www.genua.eu/genusphere

genua GmbH
Domagkstrasse 7 | 85551 Kirchheim | Germany
+49 89 991950-0 | info@genua.eu | www.genua.eu