

Z1 SecureMail Gateway

Sustainable protection for your business through centrally controlled email encryption and signature



Secure communication is a top-level priority

When it comes to email, the most important form of communication in the business world, protecting your business and meeting compliance requirements can be done both quickly and comprehensively. The greatest obstacle to using email encryption is that your contact must 'play along'. With Z1 SecureMail Gateway, you no longer need to worry about what kind of technology your recipient is using. You can securely exchange confidential emails with any contact, at any time, using any type of device.

Advantages:

- Tremendous efficiency through extensive automation
- No training required, no acceptance problems for users
- Guaranteed comprehensive compliance
- Very quick installation and integration make it ready to use
- Easy administration via web interface
- Professional manufacturer support, auditable logs

Seal of quality for genuine security

For truly secure encryption without backdoors, put your trust in IT security from Germany.



Zertificon is an official bearer of the TeleTrust IT security made in Germany seal of quality.

Real time certificate validation

The most secure encryption algorithm is useless without verification of the authenticity and validity of certificates. For searches and certificate validation, Z1 SecureMail Gateway relies on LDAP directories and OCSP interfaces in addition to Zertificon's Z1 Global TrustPoint.

Highly Scalable

Z1 SecureMail Gateway is highly scalable and designed to suit enterprises of all sizes. Possible configurations range from simple stand-alone systems for small offices to multi-tenant, highly available cluster systems for large enterprises and ASP environments which support PKIs, ERP, and netHSM integration. Optional extensions are shown overleaf.

Efficient platform

As a complete system, Z1 SecureMail Gateway operates on a virtual appliance (VMware, Xen and Hyper-V). Office 365 is also supported.

Secure communication that is highly automated:



Z1 SecureMail Gateway ...

... encrypts and decrypts emails, signs and verifies signatures

of emails and attachments in accordance with centrally managed security policies

... automatically manages

... your own certificates

- Key issuance
- Certificate procurement via various certificate authorities
- Publishing
- Renewal
- Revocation

... foreign certificates

- Directory search
- Harvesting them from email attachments
- Caching
- Real-time validation (LDAP/OCSP)
- Setting trust levels

... provides recipients without certificates with emails as encrypted PDF or HTML attachments or secure webmail accounts for confidential exchange

S/MIME & OpenPGP	Internal Certificate Management	External Certificate Management*	Password Based Encryption*
S/MIME <ul style="list-style-type: none"> opaque & attached signature sign entire email or attachment only simple & advanced SigG separate signature & encryption keys send own SubCAs common PKI-specification OpenPGP <ul style="list-style-type: none"> mime & classic mode sign entire email or attachment only separate signature & encryption keys 	<ul style="list-style-type: none"> local or imported key/cert generation on demand key/cert generation (e.g. sign and/or encrypt) automatic Certificate Authority connection (QuoVadis, TeleSec etc.) local X.509 and OpenPGP OnboardCA connection to 3rd party CAs (e.g. MS 2003 Nexus etc.) use of netHSM (Hardware Security Module) key/cert life-cycle management automatic publication of certificates in LDAP directories and Z1 Global TrustPoint XKMS interface 	<ul style="list-style-type: none"> unlimited parallel key server requests centrally configurable key server local certificate storage, shared certificate-pool real-time validation central CA and SubCA certificate management for X.509 and PGP automatic query of certificate revocation lists (CRLs) automatic OCSP-requests access to Z1 Global Trustpoint: www.globaltrustpoint.com incl. EBCA certificate pool 	<ul style="list-style-type: none"> secure web-based mailbox (Z1 WebSafe) Email as encrypted PDF (Z1 KickMail PDF) or HTML attachment (Z1 Kick-Mail HTML) multilingual user interface configurable password transmission (e.g. via SMS) configurable password policies: format, number of attempts user friendly password handling with security questions configurable quota & inactivity management automated user management team-encryption (extern to extern) can run on dedicated server
Security Policies	Multitenancy	High-availability / Scalability	End-to-End encryption*
Global Policies <ul style="list-style-type: none"> rules for tenants, domains, groups and users (internal & external) inbound/outbound mail flexible configuration for sender, recipient & content simple yet powerful rule system User Defined <ul style="list-style-type: none"> user commands in message subject MS Outlook message options RFC822 X-Header (e.g. for Notes) configurable user commands for tenants, domains, groups & users 	<ul style="list-style-type: none"> unlimited tenants individually configurable separate domain, group, user, keys & policies separate Certificate Authority or PKI (CA-Connector) separate LDAP for automatic certificate publication separate login, monitoring & alerting separate role based permissions separate archiving tenant specific corporate design virtual hosts (web-interface) 	<ul style="list-style-type: none"> HA clustering with n nodes comfortable, graphical cluster management automated synchronization of the cluster nodes SW-updates without down-time or message interruption hot standby with auto-failover load-balancing master-master clustering no single point of failure integration of 3rd party storage systems (NAS) integration of enterprise databases (Oracle etc.) 	<ul style="list-style-type: none"> Z1 SecureMail End2End: ad-hoc End-to-End communication with any recipient <i>Organizational</i> End2End with flexible re-encryption <i>Personal</i> End2End: Full S/MIME secured privacy from outbox to inbox parallel operation of <i>Organizational</i> & <i>Personal</i> End2End Integration of standard anti-spam, anti-virus and data loss prevention solutions Encrypted email storage on servers and mobile devices Full S/MIME compatibility with Notes ID, MS Outlook, Domino etc. Standard email client support. Extended features and streamlined usability with Z1 MyCrypt add-in or mobile app.
Compliance & Standards	Z1 Appliance System Security	Enterprise Integration	Operation
Public Government Standards <ul style="list-style-type: none"> GDPR, SigG/SigV KontraG, GDPDU, HIPPA, SOX Technical Standards <ul style="list-style-type: none"> S/MIME v2+v3; X.509; OpenPGP; XKMS; PKCS#7; PKCS#11; FIPS (140-2), (OpenSSL/netHSM), PEM, (OpenSSL/netHSM), PEM, DER, PKCS#10, PKCS#12 OpenSSI, SMTP, TLS, SNMP, HTTPS, SSH, SCP, NTP, LDAP(S), OCSP, HKP, SOAP Webservice; XML Crypto-algorithms: all symmetrical / asymmetrical and hash algorithms Other <ul style="list-style-type: none"> connection to De-Mail possible GOVERNNIKUS edition available 	<ul style="list-style-type: none"> hardened Linux based OS prompt OS security fixes netHSM (hardware security module) support on board firewall encrypted and authenticated admin access via HTTPS & SSH 2-factor authentication 64-bit system antispam/antivirus option 	<ul style="list-style-type: none"> ERP integration (ActiveDirectory, LotusDomino, LDAP etc.) SAP integration/interface flexible configuration of data transfer to archiving and 3rd party systems web service interface for custom ERP integration integration of qualified signature according to SigG for bulk processing database cluster SNMP management netHSM connection possible 	<ul style="list-style-type: none"> stand alone or distributed installation automated back up & restore flexible monitoring, logging and alerting of system, mail traffic and admin actions detailed overview and statistics easy installation and update procedure SNMP integration (Tivoly, Patrol, Nagios etc.) use of netHSM systems (including clustered) smooth integration of all current AntiSpam/AntiVirus systems 5*8 and 24*7 support remote & on-site support

*separate data sheet