

eBilling Signature Server

Version 2.8.0

Usage & field of application

The AuthentiDate eBilling Signature Server enables large-scale generation of qualified signatures for incoming and outgoing invoices in compliance with the legal requirements of the Signature Law, the current Sales Tax Law and EU Signature Directive 1999/93/EC of the European parliament and council from December 13, 1999 which does contains the regulatory framework for digital signatures.

The eBilling Signature Server is installed on dedicated hardware and integrated into the existing IT environment via standard interfaces.



Functional description

The eBilling Signature Server is a solution that works self-sufficiently for large-scale generation of qualified signatures. The system can be integrated flexibly into existing business processes, ERP environments and invoice systems via file or email-based interfaces.

The signature module that replicates a large-scale signature generation process constitutes the core component of the eBilling Signature Server. The signature module works self-sufficiently on a dedicated server and can be connected to the invoice systems of the invoice sender via standard interfaces and perfectly fits into SOA-based architectures. Consequently, a cost-intensive and time-consuming software integration process is not necessary.

The signature application component is compatible with the signature standard Common PKI version 1.1 as well as 2.0

and thus ensures maximum interoperability and standard conformity. The integrated security mechanisms enable the solution to be put into operation quickly and efficiently with minimum duty of cooperation on the part of the operator. The signature module is designed for high-volume invoicing-runs for companies of all sizes by means of signature law-compliant large-scale signing ceremony and the flexible and maximum scalable process architecture.

The dynamic, modular architecture of the eBilling Signature Server has very powerful internal process policies. These policies make it possible to replicate very different process, forwarding and processing constellations in an extremely flexible manner. Powerful policies in equal measure are at the disposal of the email and file interface as well as

for the reporting of system events. The eBilling Signature Server also has a fully developed module for the distribution or forwarding of data by email (SMTP). This module ensures the complete distribution of all data and signatures by email.



Range of functions and services

- ▶ Scalable signature generation by the parallel use of signature cards for generating qualified signatures
- ▶ Creation of logical signature card groups (client concept) which can be configured flexibly (e.g. by countries or signature cards)
- ▶ Dedicated logging files for the evaluation of invoice and transaction information
- ▶ Definition of the application environment is included in the delivery contents
- ▶ Support of alle file formats by associated signatures (PKCS#7)
- ▶ Support of integrated PDF signatures
 - Documents according to Adobe Reference Standard PDF Version 1.7
 - Documents according to PDF/A Standard Version 1b
 - Support of documents with predefined PDF-fields for signatures
 - Support of documents without predefined PDF-fields for signature by automatic creation of a new PDF-field for the signature placed on an additional page
 - Integration of client-specific logos with variable sizes and positions
- ▶ Integrated, highly flexible process-policy for individual definition, creation and adaption of process-sequences when creating signatures and/ or processing documents
- ▶ Targetgroups, -documents, -or event specific creation of signatures
- ▶ Connection to ERP or to invoice systems via file interface, email-based interfaces or SOA-based interfaces
- ▶ Authentication at protocol level (SMTP, POP3)
- ▶ Evaluation of data fields for determining the mode of dispatch and the addressee when SMTP and file are supplied
- ▶ Policy-based evaluation of processing events
- ▶ Optional: Integration of relational database systems for the storage of accounting and transaction information
- ▶ Optional: Integration of virus/malware scanners when SMTP is used as supply source

Standards and interfaces

- Signature Application Component compliant with German Signature Law (SigG)
- Based on software solution that is certified by PricewaterhouseCoopers in accordance with German Commercial Code, German Charges Regulations, German Accounting Principles etc.
- Common PKI V. 1.1, V. 2.0
- PKIX
- Data transmission:

Incoming Data	Outgoing Data
SMTP	POP3
SMTP	SMTP
SMTP	File system
File system	File system
File system	SMTP (restricted)
SOAP interface (on project basis)	SOAP interface (on project basis)

- Authentication: SMTP-Auth
- DIN NI 17.4
- SMTP (RFC 821), SMTP-Auth (RFC 2554), STARTTLS (RFC 2487), POP3 (RFC 1939), POP3S (RFC 2595)

System requirements

- Operating systems supported:
 - Redhat Enterprise Linux Version 5
 - SuSE Linux Enterprise Server 10 or 11
- Software: Java Runtime Environment Version 1.6 (32 or 64 Bit)
- Minimum hardware requirements: Intel Xeon processor 2 GHz (or comparable); min. 2GB RAM; 40GB HD
- Serial port interface chip card terminal:
 - Usage of serial RS232 interface(s) for certified chip card terminals (only for existing customers)
 - For extension of the number of available serial RS232 interfaces a multiport card DigiBoards (PCI/PCI-X interface) (only for existing customers, optional)
- USB interface chip card reader:
 - Usage of an USB interface for certified chip card terminals
 - USB Hub 7xBelking, F5U237 QDE USB 2.0 hub (or comparable)

- Chip card readers:
 - Serial: Kobil Kaan Professional
 - USB: ReinerSCT cyberJack® e-com, ReinerSCT cyberJack pinpad, Kobil Kaan Advanced
- Signature card:
 - T-Systems: T-Telesec PKS chip card (TCOS 3)
 - Swisscom signatur card, certificate class: "diamant"
 - D-Trust multiscard
- Network: Transparent TCP/IP network connection, DNS connection

Delivery content

- The software, license key and documentation are delivered by data carrier or electronically by email or FTP.
- Installation and setting up of the system, incl. the operating system, can only be carried out by AuthentiDate or by authorized partners.

Related products

- Signature Check Server
- Signature Check Webservice
- eBilling Connector for SAP

V.006