ValiCert Validation Authority™

The market-leading and proven solution for digital credential validation

"By incorporating the [ValiCert VA] into our Auction Management System, Industry Canada was able to securely complete one of the largest business-to-government e-commerce transactions ever conducted over the Internet." Industry Canada

Applications

ELECTRONIC COMMERCE
- Procurement and supply chain management
- Marketplace bid processing
- Business-to-business commerce via Identrus

FINANCIAL AND INSURANCE
- Identrus banking environments
- Equity trading
- Funds transfers
- Insurance claims processing
- Electronic bill-presentment
- Payment and warranty services

HEALTHCARE
- Prescription management
- Patient records processing

GOVERNMENT
- Tax applications
- Permit processes

Benefits
- Reduces fraud and cost of fraud
- Increases confidence in transactions
- Reduces liability
- Improves secure interaction between organizations
- Increases efficiency via one-stop solution
- Flexible—leverages existing investments
- Helps manage risk

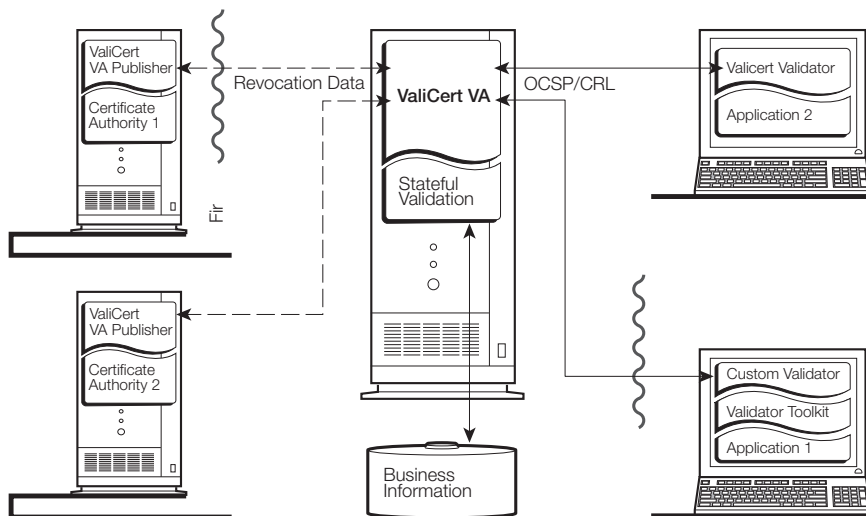**Digital certificates provide individuals and companies with virtual IDs, or credentials, for use in the electronic world.** However, like passports or credit cards, these digital credentials can expire, be revoked, or stolen. Much in the same way that a merchant needs to check a credit card before processing a purchase, companies that conduct business electronically need to confirm that a digital certificate is current and valid before allowing a transaction to occur. The ValiCert Validation Authority (VA) delivers a comprehensive, scalable, and reliable framework for validating digital certificates in real time. Additionally, it is available as a product or a managed service and can validate a certificate issued by any certificate authority (CA).

The ValiCert Validation Authority:
- Manages risk by validating a party's identity and transaction-specific authorization.
- Reduces fraud and liability.
- Facilitates compliance with operating procedures that help make transactions legally-binding.
- Is the recognized leader in this field.
- Is deployed at 85 percent of Identrus member banks.

A company that doesn't adequately validate a presented certificate may expose sensitive or valuable information, or may be liable for transactions conducted with the revoked certificate. Having the ability to validate digital certificates in real-time gives enterprises the confidence to securely exchange sensitive information or conduct business over the Internet. In addition, the ValiCert Stateful Validation™ capability checks against customized or external databases for additional permission criteria to determine if a transaction can be performed. ValiCert's proven and tested validation solution is the market leader, and is trusted by major companies and governments around the world, as evidenced by the fact that the ValiCert Validation Authority is installed at most of the world's major banks participating in the Identrus global B2B infrastructure.

ValiCert®

ValiCert VA Publisher
Certificate Authority 1
Revocation Data
ValiCert VA
OCSP/CRL
Valicert Validator
Application 2
Stateful Validation
ValiCert VA Publisher
Certificate Authority 2
Fir
Custom Validator
Validator Toolkit
Application 1
Business Information

ValiCert Validation Authority

Components of the ValiCert Validation Authority™

- ***ValiCert Enterprise VA™:*** *Robust fourth-generation VA server.*

- ***ValiCert VA Publisher™:*** *Obtains revocation data from a certificate authority (CA), or a directory server supporting LDAP, and transports it to a ValiCert VA.*

- ***ValiCert Validator Suite™:*** *Quickly and easily incorporates validation functionality into existing common applications such as Web servers, e-mail and Web browsers.*

- ***ValiCert Validator Toolkit™:*** *Easily adds validation functionality to third-party and custom applications through a variety of mechanisms, including CRLs, OCSP, and CRL(dp).*

- ***Validation Service:*** *Managed digital credential validation service outsourced to ValiCert Trust Services™ or a ValiCert Affiliate.*

Overview

The ValiCert Validation Authority™ (VA) provides all the tools necessary to host a validation solution for all digital transactions and communications from inside a company and from external sources.

Complete, One-Stop Solution

The ValiCert VA provides the only complete validation solution for large-scale organizations:

- Supports all major certificate validation protocols, including OCSP, CRL, and CRL(dp).
- Enables validation for all major application categories, including secure Web, Extranet, proxy, secure forms, secure e-mail, VPNs, commerce applications, and others.
- Unix and Windows NT/2000 support.
- Can work with all major certificate authorities (CAs).

Strong VA Security

- Supports both software and token-based hardware signing and encryption.
- OCSP requests can be digitally signed so that only authorized clients can perform validation queries.
- Requests, responses, and administration may be conducted over an SSL session.

- Different private keys can be used for signing responses, for SSL, for forwarding requests, etc.
- Supports both standard (40-bit) and strong (128-bit) encryption.

Easy Administration

- The ValiCert Enterprise VA can be administered remotely from a standard Web-browser.
- SSL-based administration for increased security.
- Optional digitally-signed XML logging provides audit trails for non-repudiation through ValiCert Digital Receipt Solutions™.

Powerful Extensibility

- ValiCert Stateful Validation allows customers or partners to apply processing and functionality to application-specific or context-specific validation scenarios, via the VA API.
- Validation capabilities can be built into existing third-party applications using the ValiCert Validator Toolkit.
- OCSP queries and responses can be redirected to other ValiCert VAs to leverage the power of a hierarchical VA network.
- Instant Revocation provides the ability to suspend certificates at the ValiCert VA.

High Reliability, Availability, and Performance

- Information can be replicated across mirrored ValiCert VAs—one ValiCert VA can act as a failover backup for another ValiCert VA.
- System performance can be scaled through load balancing across mirrored ValiCert VAs.
- ValiCert Trust Services℠ which provide outsourced, managed validation can act as an optional backup for disaster recovery.

ValiCert®

Worldwide Headquarters

ValiCert, Inc.
339 N. Bernardo Avenue
Mountain View, CA 94043 USA

Tel +1 650 567 5400
Fax +1 650 969 3554
Toll Free in U.S. 1 877 VALICERT
Europe +31 20 3120 543
Japan +81 3 5651 0384
www.valicert.com