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Baltimore | **UniCERT**TM
the world's leading PKI

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global e|securityTM

Authentication

Security Services

Identity

Entitlements Credentials

Digital Signatures

Authorization



Baltimore UniCERT™

Bringing Real Business On-Line

The Internet is now forming a key part of organizations' operating strategy. Although most companies accept that the Web can drive massive cost savings and significantly improve service capabilities, they are also aware that important business processes cannot be brought on-line without proven e-security controls. In order to facilitate real e-business, organizations must establish the same core foundations for business that exist in the physical world – namely security, identity and trust.

Baltimore UniCERT is widely acknowledged as the world's leading Public Key Infrastructure (PKI) product, and has been deployed to secure the widest range of commercial activities in the digital world. Providing the same tenets of trust that exist in physical world business transactions (Privacy, Integrity, Authentication and Non-Repudiation), UniCERT addresses core security concerns associated with the Internet, and allows organizations to move key processes on-line via a range of channels such as intranets, extranets, e-mail and VPNs.

Assign Unique Digital Identities

Baltimore UniCERT is the most critical element at the heart of a PKI. Leveraging digital certificate technology, UniCERT uniquely identifies individuals operating in an electronic environment and enables users to digitally sign any electronic transaction. The ability to digitally sign transactions uniquely binds users to specific messages or instructions, and offers strong non-repudiation controls for organizations deploying new web-based initiatives.

Making PKI Work for You

A PKI needs to form a transparent sub-strata of an organization's operations, and provide the infrastructure and services necessary to support the dynamic requirements of banks, governments, and general business corporations. Working with your organization's existing IT infrastructure, UniCERT is flexible enough to incorporate new business opportunities, open enough to integrate with new applications, and scalable enough to manage demand as new e-business initiatives evolve.

Meeting the Security Challenge in the Digital World

Policy Driven

Different business processes require different levels of assurance. For example, a bank-to-bank transaction requires a significantly higher level of assurance than standard e-mail services. UniCERT enables the run-time establishment and enforcement of multiple security policies at company, departmental or individual levels. Certificates are issued in accordance with rules defined by policies, which dictate everything from registration details to certificate use, to the various levels of associated trust derived from the certificate.

Scalability

Baltimore UniCERT is designed to scale from small installations running on single PCs to large systems distributed across global enterprises. As an organization's PKI requirements grow in line with demand, and become more sophisticated, UniCERT offers advanced technology components that create a complete, robust and scalable security solution. UniCERT is designed to handle the issuance of tens of millions of certificates if required, and the product's unique cloning capabilities provide unprecedented performance, availability and resilience for your PKI.

Flexibility

Baltimore UniCERT is extremely flexible and easily adapts to the wide variety of PKI requirements including country, organization, and application-specific issues. Every aspect of UniCERT's interactions can be configured, including extensive registration options, certificate distribution methods, algorithm selection, directory and hardware support. The product can also be leveraged as a hosted, in-house or hybrid deployment.

Security

A Certificate Authority (CA) is the cornerstone of a PKI. It provides the ultimate point of trust, and therefore it is imperative that the CA module itself is secure. UniCERT is the world's first PKI to achieve ITSEC E3 accreditation and supports the use of smartcards and FIPS-140-1 level 4 hardware security modules. In addition, the UniCERT design provides for the signing of data in the internal database and in audit logs - providing comprehensive internal controls to ensure confidentiality, integrity and availability at all times.

Openness

A PKI system needs to interoperate with an organization's global business requirements and, to be of maximum benefit, must interoperate with a wide range of products such as PKI enabled applications, directories and cryptographic hardware. Baltimore Technologies has adopted a threefold approach to provide an open structured architecture:

- Implementation of all relevant industry standards, (e.g., X.509, PKIX, SCEP)
- Support for commercially prevalent applications (e.g., Netscape, MS Internet Explorer, MS Windows 2000 applications)
- Providing a wide and open interface to third party products

Globalization

One of the core value propositions of on-line business is globalization. A business that makes the move to the Internet is immediately exposed to a vast number of markets across the world. To assist in building a globally-distributed secure infrastructure, UniCERT's core capabilities include advanced support for diverse languages, including Indian and Chinese dialects. In addition, every message and log can be localized with a minimum amount of work.

UniCERT@Work

Addressing Tangible Business Needs

UniCERT is leveraged across the world to cut internal operating costs, and extend web-based security services to employees, partners and customers. While UniCERT is the technology of choice to secure highly sensitive information, it is also used to secure more 'common' day-to-day business communications. Companies deploy UniCERT because they have specific business issues which they need to address; both in general enterprise environments and specific vertical scenarios. Common issues include:

- Need to exchange sensitive or valuable information electronically
- Need to leverage the Internet to cut communication costs
- Need to leverage the Internet to improve service capabilities
- Need to uniquely identify users in the digital world
- Need to establish a legally-binding method of trading with new or existing business partners

Whether you are looking to secure B2B transactions, personalize access to specific digital resources, safeguard e-mail messages, or secure VPN services within your organization, UniCERT delivers.



Meeting Industry-specific Challenges

Irrespective of industry, UniCERT delivers the same comprehensive yet flexible security controls for any web-driven initiative. Baltimore UniCERT has a proven track-record in a wide range of industries, and has been successfully deployed to address a broad range of vertical challenges.

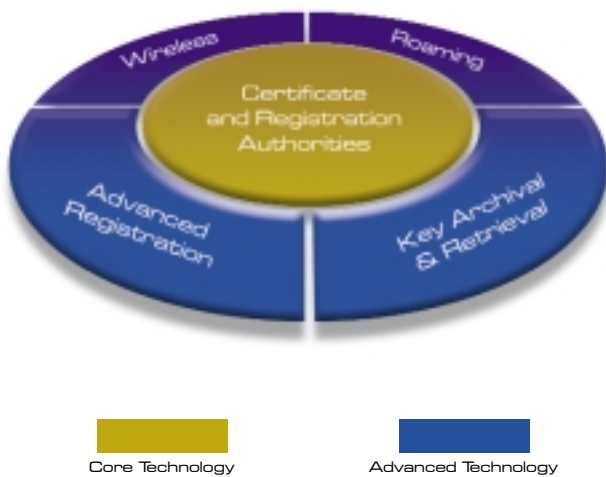
In the **government** sector, for example, UniCERT has been used to secure sensitive resources, set-up digital identity schemes and roll-out e-Tax services to business and citizen communities. In **healthcare**, UniCERT has been used to secure mail messages between key healthcare parties, and ensure authorized access to patient information. In **financial services**, the widest range of financial data and processes have been secured, such as Internet banking and corporate funds transfers between partners. In the **manufacturing** industry, UniCERT has been deployed to cut supply chain headaches and create genuine e-collaboration frameworks on a global scale.

Packaged Solutions Save Time and Money

Companies need e-security, but how do they deal with the maze of vendors, technologies, and deployment options to address specific business requirements? UniCERT meets this challenge with packaged technology solutions consisting of best-of-breed components and vendors, established and tested architectures and dedicated implementation guides. Baltimore's range of UniCERT-driven solutions incorporate leading 3rd-party technologies, such as Windows 2000 desktop applications, save time and money for the customer, and enable PKI functions to be quickly deployed throughout the organization.

Baltimore UniCERT™ Technology

Baltimore UniCERT has been fundamentally designed to complement the way your organization does business. Flexible in nature and modular in design, the UniCERT product comprises a comprehensive suite of components which can be dynamically deployed to meet existing and future demands.



UniCERT Core Technology

UniCERT Core provides everything required to deploy and manage a world-class PKI. Designed to implement flexible security solutions that complement the way your organization does business, UniCERT Core easily evolves to meet your changing requirements such as integration of new applications, addition of new users, interoperability with partner organizations, and changes in corporate structure.

Certificate and Registration Authorities

- Register and approve each and every user
- Divide your PKI into workable operational domains (to complement the way your organization does business)
- Tightly integrate new and existing directories with your PKI
- Manage certificate requests via email, VPN, face-to-face and the Web
- Manage day-to-day administration duties through intuitive GUI interfaces
- Support the use of smartcards and USB Tokens as required

UniCERT Advanced Technology

UniCERT Advanced comprises state-of-the-art modules designed to address specific needs of large enterprises and service providers. Delivering world-class technology to manage intricate industry and organizational challenges, the UniCERT Advanced suite delivers:

Advanced Registration

Certificate requests can be automatically registered and issued according to policy. Organizations can bulk issue certificates and smartcard service bureaus and wireless management systems can also be fully integrated with your PKI.

- Automated registration of users
- Bulk registration of users
- Wireless registration of users
- XKMS-based registration and validation of users

Roaming

Using this technology, organizations can enable end-users to digitally sign transactions from almost any Internet browser without the use of hardware tokens such as smartcards.

- Complete mobility for employees, partners and customers
- Reduce management and deployment costs
- Security is totally transparent to the end-user

Key Archival/Retrieval

Organizations can archive and retrieve a copy of a user's private encryption key. This represents an important safeguard against the loss of valuable information should decryption keys become corrupted, lost or misplaced.

- Securely store copy of users' private keys
- Permits the retrieval of keys at a later date should they become corrupted/mislaid
- Non-repudiation remains unaffected

Extended Wireless Capabilities

Organizations can establish dynamic methods of registering and provisioning users either directly, or through trusted third-parties (e.g., through end-user's mobile operator)

- Wireless e-security framework
- Industry-specific solutions for enterprises and network operators

Baltimore UniCERT™

Worldwide Recognition

Baltimore UniCERT has become one of the world's leading PKI systems used in the most demanding security environments including banking, government and e-commerce. UniCERT has been sold in over 40 countries worldwide and is marketed by Baltimore Technologies and its TrustedWorld™ Business and Technology Partners.

As a recognized leading PKI product, Baltimore UniCERT has won numerous industry awards and has been highlighted in top industry analyst reports around the world as being the ideal solution to provide a secure foundation on which to conduct on-line business.

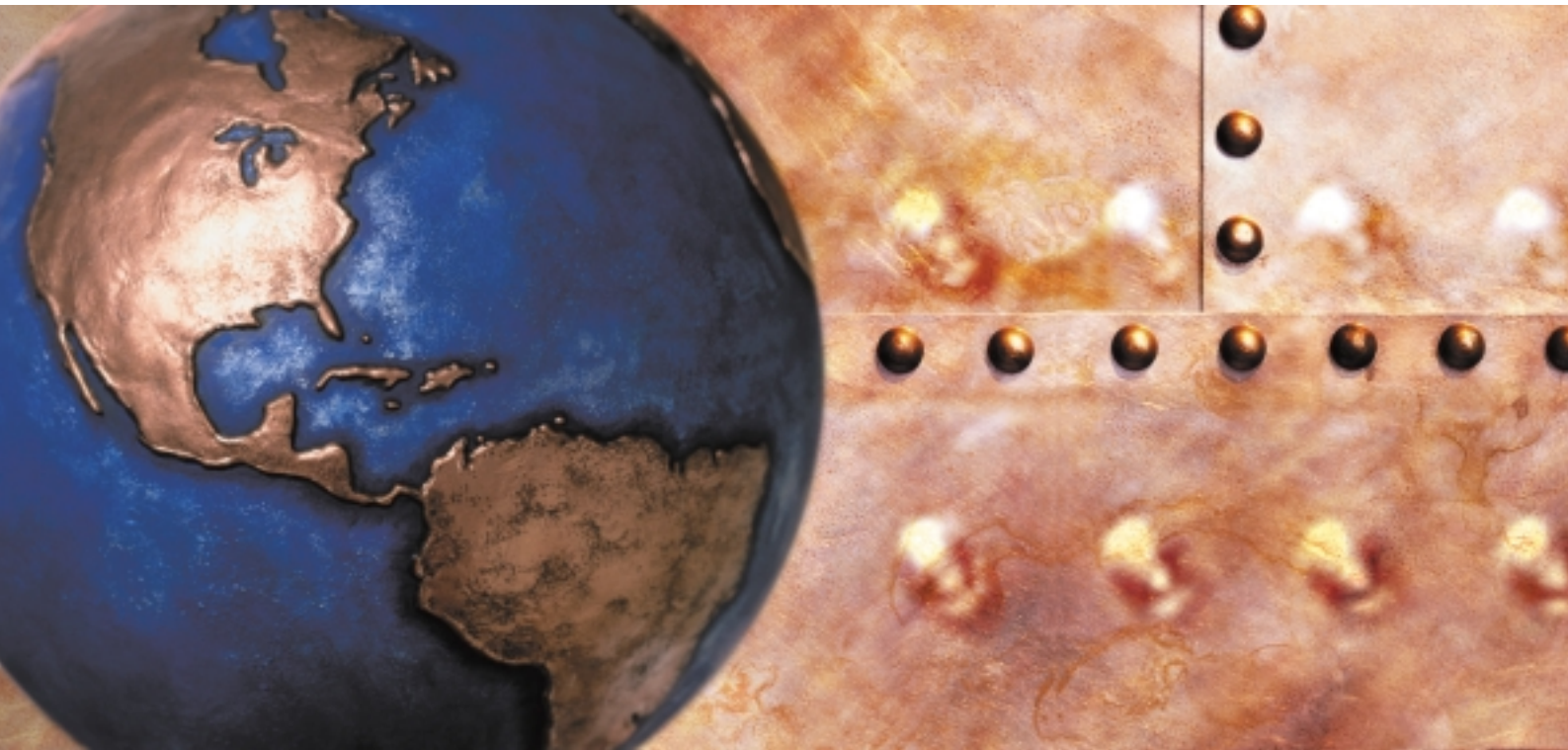
- **Baltimore Technologies Receives the NSS Gold Award** in an independent evaluation of PKI Systems. **“UniCERT provides a vastly superior out of the box experience. Overall we found UniCERT to be hard to beat in terms of value for money, features, flexibility and ease of use.”** Bob Walder, Director, The NSS Group.
- **“Info Security News Magazine” gave UniCERT five stars**, its highest rating possible in an independent review of PKI technology. UniCERT was described in the final verdict as having an **“Excellent graphical management interface; very flexible and easy to customize.”**
- **Baltimore UniCERT named European IT Prize winner.** Baltimore Technologies was chosen from over 300 company submissions by independent experts from 16 European countries. UniCERT won this award based on its technical capability in conjunction with its market domination as the preferred Certification Authority for both national and enterprise level deployment.
- **Aberdeen Group Profile Highlights Baltimore UniCERT's Leading Position in Global e-Security Market.** **“While Baltimore can stand alone as one of the best-of-breed suppliers of PKI, cryptographic technology, and professional services, its focus on simplicity, ease-of-use and customization is currently unique among suppliers of certificate-based solutions.”**
- **The Radicatti Report.** **“Mid-size to large organizations who are looking to deploy PKI should evaluate Baltimore UniCERT as their platform of choice. Baltimore's experience in building massive CAs for the commercial third party vendors shows experience in working with scaling issues.”**
- **Baltimore Technologies Wins Frost & Sullivan Customer Focus Award.** **“Baltimore clearly differentiates itself as a market winner through its ability to provide highly scalable, standards driven products such as Baltimore UniCERT, a Certificate Authority system which offers users greater compatibility with applications in multi-vendor environments,”** said Kumar Gangwani, information technology analyst for Frost & Sullivan.





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