Who should read this paper

To operate business-critical applications over the Internet, enterprises need high-level, certificate-based security provided by a public key infrastructure (PKI). This white paper introduces Digicert® PKI Platform, an outsourced offering that enables enterprises of any size to rapidly and confidently deploy PKI services.
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Executive summary

To operate business-critical applications over the internet, enterprises need high-level, certificate-based security provided by a public key infrastructure (PKI). PKI protects applications that demand the highest level of security, enabling online banking and trading, Web services based business process automation, digital form signing, enterprise instant messaging, and electronic commerce.

In addition, it protects firewalls, virtual private networks (VPNs), directories, and enterprise applications. The PKI should offer comprehensive functionality, integrate easily with internal and external applications, scale to millions of users, operate flawlessly 24 hours a day, seven days a week, and ensure military-grade physical security. In addition, it should allow enterprises to easily create communities of trust with partners, customers, and suppliers.

In selecting a PKI to provide these critical capabilities, enterprises must choose between deploying PKI software in-house or outsourcing PKI services to a reliable provider. In-house deployments often have inherent drawbacks— proprietary software, limited physical security, and poor redundancy—that impede successful PKI implementation. Outsourced PKIs offer a number of advantages, including lower cost of ownership, rapid deployment, and reduced risk.

DigiCert® PKI Platform, is an outsourced offering that enables enterprises of any size to rapidly and confidently deploy PKI services. It alleviates the burden of planning, building, and maintaining a PKI, while allowing enterprises to maintain internal control over digital certificate issuance, suspension, and revocation. Using the DigiCert PKI Platform, enterprises can securely move valuable data online to lower costs, streamline processes, and strengthen relationships with partners, customers, and suppliers.

Protecting information assets

As financial institutions, manufacturers, government agencies, healthcare organizations, and other enterprises leverage the Internet to link business processes, streamline communications, and conduct commerce, the protection of information assets has become a vital, yet increasingly complex, component of online data exchange. Enterprises not only must safeguard sensitive information and maintain the trust of online trading partners, but also must comply with government and industry regulations related to online data.

Meanwhile, virus distribution methods have evolved, the hacker arsenal has grown, and technological advances, such as wireless communications, have created parallel environments that must also be protected. In protecting information assets, enterprise security is now expected to provide gate-keeping functions such as data protection and network isolation, as well as facilitative functions, such as exposing enterprise data to outside applications, connecting users for extended collaboration, and enabling online transactions and communications.

Introducing enterprise PKI

Meanwhile, virus distribution methods have evolved, the hacker arsenal has grown, and technological advances, such as wireless communications, have created parallel environments that must also be protected. In protecting information assets, enterprise security is now expected to provide gate-keeping functions such as data protection and network isolation, as well as facilitative functions, such as exposing enterprise data to outside applications, connecting users for extended collaboration, and enabling online transactions and communications.
Issuance of a certificate requires verification of the user’s identity, usually by a registration authority (RA).

An enterprise PKI uses digital certificates to protect information assets via the following mechanisms:

- **Authentication**: Validates the identity of machines and users.
- **Encryption**: Encodes data to ensure that information cannot be viewed by unauthorized users or machines.
- **Digital signing**: Provides the electronic equivalent of a hand-written signature; also enables enterprises to verify the integrity of data and determine whether it has been tampered with in transit.
- **Access control**: Determines which information a user or application can access and which operations it can perform once it gains access to another application; also called authorization.
- **Non-repudiation**: Ensures that communications, data exchanges, and transactions are legally valid and irrevocable.

**Critical factors in running an enterprise PKI**

In selecting an enterprise PKI solution, enterprises must consider the following factors, which span PKI technology, infrastructure, and business practices:

1.2.1. **Cloud deployment**

In the cloud scenario, an enterprise can manage users directly in the cloud through DigiCert PKI Manager. Users can be managed through bulk operations as well as individually. The cloud service has a pass code distribution mechanism for authenticating the users before issuing certificates.

- **PKI functionality**. For strong security, easy administration, and hands-on control of certificate management, an enterprise PKI must be based on a modular design that includes reliable, high-performance support for certificate issuance and lifecycle management, protocols and processing capabilities for diverse certificate types, comprehensive administration functions, records retention, directory integration, and key management.

- **Ease of integration**. To minimize costs, leverage existing investments, and ensure compatibility in diverse environments, enterprises should choose a PKI that integrates easily with all the new and legacy applications it is intended to support. The PKI should not lock end users into proprietary PKI desktop software. In addition, it should be able to accommodate the varying desktop policies of not only internal IT departments, but also partners, suppliers, and customers.

- **Availability and scalability**. The PKI must be available to its user community around the clock. In addition, it must be able to scale to millions of users, if necessary, to keep up with enterprise growth.

- **Security and risk management**. To preserve trust and minimize financial and legal liability, enterprises running an Internet-based PKI must safeguard the PKI infrastructure, private keys, and other valuable assets from not only network-based attacks, but also threats to the physical facility housing the assets.

- **Expertise**. To ensure that the PKI is properly deployed, maintained, and protected, enterprises should employ security professionals who are extensively trained in PKI.

- **Scope of operation**. To maximize return on investment (ROI), promote collaboration, and ensure business agility, enterprises investing in PKI should ascertain that the offering can be easily enabled to operate across intranets, extranets, instant-messaging communities, Webservices networks, Internet marketplaces, VPNs, and other communities of interest.
These factors, which are strongly influenced by the PKI deployment model chosen, determine the success or failure of an enterprise PKI and impact an enterprise's immediate and long-range plans for the exchange of high-value data.

**Two models for PKI deployment**

When deploying a PKI, enterprises must choose between purchasing standalone PKI software for in-house deployment or outsourcing an integrated PKI platform. Besides their differing capabilities to meet the challenges discussed in the preceding section, the two approaches vary in their total cost of ownership (TCO), time to implementation, likelihood of success, use of in-house talent, degree of risk, and brand value.

**In-house deployment of stand-alone PKI software**

In an in-house deployment, an enterprise purchases standalone PKI software and creates a stand-alone PKI service. In this scenario, the enterprise assumes 100 percent responsibility for provisioning, deploying, and maintaining the PKI itself as well as all the surrounding technology, including systems, telecommunications, and databases. The enterprise is also responsible for providing a secure facility. A secure facility must have physical-site security, Internet-safe network configurations, redundant systems, disaster recovery, viable PKI legal practices, financially sound liability protection, and highly-trained personnel. If any of these components is weak, the enterprise may be compromised.

Regardless of the in-house PKI’s capability to address critical success factors, adoption of PKI-enabled services by partners, customers, and suppliers may be hindered by lack of confidence in the unproven PKI or unfamiliarity with the enterprise itself. In addition, non repudiation—the capability to provide third-party auditing and corroboration of transactions—may not exist in an in-house implementation, further diminishing the PKI’s value. Finally, the process of planning, purchasing, implementing, deploying, and testing an in-house PKI can take many months, delaying the deployment of strategic business initiatives as well as the return on existing investments.

**Outsourced deployment to an integrated PKI platform**

In an outsourced deployment to an integrated PKI platform, an enterprise delegates PKI construction, deployment, and maintenance to a trusted third party whose services include certificate processing, root-key protection, and security and risk management.

Because it is their core business, integrated PKI platform providers can devote a greater percentage of their resources to state-of-the-art PKI technology, security, and training than is feasible for most enterprises. In addition, security practices, procedures, and infrastructure have been tested over time. This accelerates deployment and helps ensure that the PKI operates at the highest levels of availability and security.

Because billing for outsourced services is based on flat rates, number of digital certificates issued, or a combination of the two, the enterprise can predict costs more accurately and simply add PKI capability as business expands. An important differentiator among outsourced PKI platforms is the enterprise’s capability to control and execute its security policies with respect to user authentication and certificate lifecycle management.
The DigiCert value proposition

DigiCert operates infrastructure that enable businesses and individuals to find, connect, secure, and transact across today’s complex global networks. As an industry leader in Internet security and PKI, DigiCert builds state-of-the-art integrated PKI service platforms for enterprises of all sizes. Real-world experience serves as the foundation for the design and support-readiness of our PKI Platform. By leveraging DigiCert expertise and infrastructure, enterprises alleviate the burden of building, deploying, and maintaining an in-house infrastructure while retaining complete control over certificate lifecycle management, including issuance, renewal, and revocation. Enterprises can rapidly secure web services, instant messaging, online forms exchange, legacy, and other applications, yielding faster return on investment and enabling an agile response to evolving business strategies.

The DigiCert PKI Platform meets all the critical requirements of a successful PKI deployment, while providing the following advantages:

• **Lower TCO.** DigiCert invests millions of dollars in building, maintaining, updating, securing, and externally auditing its PKI platforms, as well as in staffing its operating centers. By leveraging the DigiCert PKI Platform, enterprises save significantly on secure facilities, infrastructure, and staffing. In fact, TCO of an in-house PKI system is greater than outsourcing to DigiCert, even if the insourcer’s software costs are zero.¹

• **Rapid deployment.** Because the platform, policies, and procedures are already in place, DigiCert PKI Platform can be implemented in less than one-third the time of a typical in-house, software-based PKI.

• **Proven success.** The DigiCert PKI Platform is based on a proven back-end infrastructure, helping to ensure the implementation’s success.

• **Minimum impact on staff.** Day-to-day operation and maintenance of the PKI is handled by DigiCert security professionals, allowing in-house IT resources to focus on core business.

• **Strong security.** DigiCert leverages military-grade facilities and industry-leading certificate practices to ensure the highest level of security.

• **Brand value.** By using a recognized, trusted brand, enterprises more easily gain the confidence of suppliers, partners, and customers.

The following table summarizes the fundamental differences between standalone PKI software and The DigiCert PKI Platform.

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¹ - “Reducing Complexity and Total Cost of Ownership with DigiCert PKI Platform,” DigiCert, 2018
<table>
<thead>
<tr>
<th>Success factor</th>
<th>PKI functionality</th>
<th>Standalone PKI software</th>
</tr>
</thead>
<tbody>
<tr>
<td>PKI Functionality</td>
<td>Fully-featured PKI, proven in world’s largest 24/7 PKI service centers. Leveraged experience from hundreds of enterprises.</td>
<td>Enterprise designs, builds, and deploys supporting infrastructure, and assumes 100 percent of the implementation risk. Software vendor has no PKI operating experience.</td>
</tr>
<tr>
<td>Ease of integration</td>
<td>Seamless integration with standard best-of-breed applications, including standard Web browsers, mail clients, and enterprise applications.</td>
<td>Requires proprietary client software for all users and applications.</td>
</tr>
<tr>
<td>Availability and Scalability</td>
<td>Contractually guaranteed PKI backbone services and disaster recover. On-demand scalability. Leveges high-capacity, fault-tolerant infrastructure</td>
<td>Enterprise provides 100 percent of services infrastructure and disaster recovery. Assumes 100 perfect of the operational risk. Redundancy difficult. Scalability limited.</td>
</tr>
<tr>
<td>Security and Risk Management</td>
<td>Contractually guaranteed PKI backbone security. Mature, industry-leading certificate practices. Externally audited.</td>
<td>Enterprise provides 100 percent of services infrastructure; must design own operational policies and practices; assumes 100 percent of risk</td>
</tr>
<tr>
<td>Personnel</td>
<td>Rigorous screening process. Highly-trained security professionals; core focus is security and PKI; up-to-the minute knowledge base and skill sets</td>
<td>Personnel must receive regular training to keep up with evolving technology, standards, and risks. In-experience may slow deployment, cause downtime, and create gaps in security</td>
</tr>
<tr>
<td>Scope of operation</td>
<td>International network of CAs. Enterprise can select private and/or public trust networks (largest in world)</td>
<td>Private cross-certification only. Enterprise builds 100-percent custom solution each time. Partners assume 100 percent of risk</td>
</tr>
</tbody>
</table>
Elements of enterprise PKI

The DigiCert approach to enterprise PKI distinguishes itself from the build-it-yourself approach by giving enterprises control over policy and day-to-day decision-making but delegating back-end processor tasks to DigiCert. To explain the DigiCert difference, the following sections discuss the complete PKI solution in terms of the critical success factors already identified: functionality, ease of integration, availability and scalability, security and risk management, expertise, and scope of operation.

Managed PKI functionality

At the core of PKI lies software and hardware that implement CA and RA functions, enrollment processes, certificate renewal and status verification services, directory and application interfaces, private-key management, and so on.

This technology must support strong security, high availability, and multiple application interfaces. Most importantly, it must have a modular design, permitting PKI functions to be distributed between enterprise premises and a supporting, secure data center.

The DigiCert Trust Network, on which the DigiCert PKI Platform is based, is robust and comprehensive. It supports the PKI service-center needs of enterprises, commercial CAs, and Web sites worldwide, satisfying the most stringent security, commercial, legal, and best-practices requirements.
The DigiCert Trust Network architecture is comprised of the following module families:

- **End-User Enrollment Pages.** Provides localizable and brandable enrollment pages for end-user registration and other end-user services such as certificate renewal.

- **Managed PKI Control Center.** Provides inhouse certificate-management functions, such as certificate issuance approval, revocation approval, and general administration functions; can be fully automated.

- **CA Control Center.** Enables enterprises to establish local CA policy, such as certificate content rules and administration authorizations.

- **Certificate Processing.** Includes certificate issuance, certificate lifecycle compliance and protocol support, premium validation services such as online certificate status protocol (OCSP), cryptographic key management, records storage, and other core functions.

- **Certificate Manager.** Allows enterprises to choose the types of certificates to be issued, for example, SSL, S/MIME, IPSec, or other standard X.509 certificates.

- **Key Management Services.** Provides maximum-security generation, backup, and recovery of user-key pairs; includes dual-key (separate key pairs within a single application) support.

- **Enterprise Integration.** Provides interfaces to enterprise databases to support automated certificate issuance and other administration functions, automated posting of certificates to enterprise directories or databases, and access to certificate revocation information by enterprise web servers.

- **Application Integration Toolkits.** Enables commercial application vendors and enterprises to enable PKI-ready applications.

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### Ease of integration

One of the biggest challenges in a PKI deployment is PKI-enabling applications, both within and outside the enterprise. The architecture that the PKI vendor uses, proprietary or standards-based, influences the ease and cost of integration.

- **Proprietary.** Proprietary PKI software is installed on every desktop. Applications that use the PKI require a proprietary software interface from the PKI vendor, making it costly, complex, and usually not feasible to extend applications to other areas of the intranet or to partners, customers, and suppliers. In addition, upgrades to any application may be incompatible with the existing PKI.

- **Standards-based.** Native applications interface to the PKI using industry-standard interface protocols or tailored standards-based interfaces provided through PKI application vendor partnerships. No proprietary PKI software is needed on the desktop. DigiCert uses a standards-based approach to PKI and works with over 100 independent software vendors to provide built-in support for managed PKI; applications are PKI-enabled as shipped from these vendors. To further ensure seamless operability with virtually any application, the Platform also includes easy-to-use application programming interfaces (APIs) for PKI-enabling customer written applications.

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### Availability and scalability

A PKI supporting mission-critical applications must be available around the clock and must be able to smoothly scale to support large numbers of users and applications.
Availability

To ensure continuous availability, the DigiCert PKI Platform has a fully redundant infrastructure with guaranteed 24 hours a day, seven days a week service levels for all critical components. Backup disaster recovery sites operate 24/7 in geographically separate locations. By contrast, standalone PKI products frequently are not designed for redundancy, predisposing them to unplanned downtime. In addition, disaster recovery capabilities may be limited, unless arrangements are made for a separate secure location.

Scalability

DigiCert digital certificate issuance has been proven, under real-world conditions, to scale smoothly from hundreds to millions of users. Standalone PKI software is known to encounter scaling limits at the tens of thousands due to lack of a transaction-optimized architecture and scaling and resiliency limits with database and directory systems.

Protecting root and private keys and providing continuous service are two critical aims of enterprises deploying a PKI. To ensure strong security and 24/7 availability, an enterprise must have airtight physical security and sound certificate practices. However, physical security is one of the largest expenses in a PKI deployment and well-designed certificate practices require a mature, carefully-delineated approach to security and risk management.

DigiCert makes significant investments in security technology and offers an industry-leading certificate practices statement that ensures a level of security exceeding the capabilities of most enterprises operating standalone PKIs. Leveraging the DigiCert PKI Platform, enterprises can alleviate not only the costs, but also the risks of establishing and operating a high-security, high-availability facility.

Physical security

Because software-based cryptography implementations are prone to tampering or misuse, a fundamental requirement of a CA supporting business-critical application is that it employ hardware cryptographic modules for certificate signing. In addition, root keys (which provide the basis for linking together multiple CAs) require special precautions. Their private key must be stored in a secure, offline hardware unit; multiple key shareholders must be employed to enable the key for signing; and all processes must be tightly controlled and audited. Besides the specific mechanisms used to protect keys, the facility housing critical PKI functions must be impenetrable. In addition, it must have redundant power, redundant heating, air conditioning, and ventilation (HVAC), and specialized fire systems to prevent heat and water damage.

DigiCert locates critical PKI functions in a secure data center operated by DigiCert or an affiliate on a 24/7 basis. To ensure the highest levels of security and availability, all PKIs implemented through the Platform employ hardware- based cryptography, highly screened and trained personnel, a military-grade secure facility, and a rigidly audited system of procedural controls. Round-the-clock service levels are supported.

Customer practices support

To guarantee non-repudiation and win the trust of partners, customers, and suppliers, enterprises must have well-defined, audited processes for cryptographic PKI management, day-to-day operations, and record keeping. This is particularly important when enterprises use PKI-based digital signatures to electronically sign electronic transactions, documents, and other information. In this case, sound practices and independently audited processes are essential to ensure that transactions are legally binding.
DigiCert is a world leader in the development of PKI practices, with audited business processes that meet the most stringent industry standards. DigiCert’s Certification Practices Statement (CPS), which delineates the practices underlying the DigiCert Trust Network public CA services, is recognized as the most comprehensive document of its type and is used internationally as a foundation for enterprise PKI practices.

DigiCert practices include witnessed and audited processes for CA key establishment and management, and rigid multiparty controls over all key materials. DigiCert undergoes an annual, independent security audit against established WebTrust™ for CA and SOC2/SOC3 security guidelines, and has been approved to issue certificates consistent with the policies and procedures defined by the Department of Defense. DigiCert processes are certified by KPMG® in accordance with AICPA SOC2/SOC3.

Expertise

Proper planning, implementation, and maintenance of a PKI require highly-trained personnel with hands-on experience. To assemble a security team for an in-house PKI deployment, enterprises must divert development and IT staff from their core strengths, train existing personnel for the job, and/or screen and hire new resources. Once the PKI is deployed, ongoing staff training is necessary in order to keep current on rapidly changing security trends and technology. Overall inexperience, unfamiliarity with specific technology, and untested security policies may expose an in-house deployment to delays, unexpected downtime, and flawed security.

By outsourcing PKI deployment to DigiCert security professionals with in-depth experience, enterprises minimize personnel costs, reduce risks, and speed deployment. As the leading provider of Internet trust services, DigiCert has extensive experience developing, implementing, and maintaining a PKI. The DigiCert PKI team focuses solely on security and PKI, and its skill set is updated constantly to incorporate state-of-the-art technology and security practices.

Scope of operation

PKI can potentially span communities of any size, from enterprise extranets that include select partners, to industry-specific web services networks that span multiple enterprises, to global communities that include all comers, for example, instant messaging. DigiCert facilitates the development of communities beyond the intranet through broad community enablement and cross-certification.

Broad community enablement

While some enterprises require closed, private PKIs, others want their certificates to be recognized and trusted by out-of-the-box commercial web browsers or other desktop applications. This greatly facilitates the establishment of extended PKI communities by eliminating the need for special software installation or configuration in the desktop systems of organizations that are not under the administrative control of the PKI-operating enterprise. The DigiCert PKI Platform gives enterprises the option of establishing an isolated private PKI, a community or industry-wide PKI, or a PKI linked into the DigiCert Trust Network. The Network is a global, cross-certified PKI operated by DigiCert and its worldwide affiliates. Root keys of the DigiCert Trust Network are pre-installed in all major commercial desktop products, including Microsoft® and Mozilla clients, allowing the certificates issued in the PKI to be immediately recognized by the users of these products. With an in-house PKI, community building can be unwieldy, involving manual exchange and installation of cross-certificates or root keys.
Cross-certification

Cross-certification is the process whereby one CA issues a certificate for another CA, allowing certificate chains to link PKI communities that may span multiple enterprises. Cross-certification involves more than just issuing a certificate. It is a special business arrangement, involving agreements on issues such as security practices and liability apportionment.

DigiCert has built numerous multi-enterprise cross-certified CA structures, linking groups of financial institutions, commercial CAs, and other enterprises worldwide. In addition, the DigiCert PKI Platform is certified by the Federal Bridge Certificate Authority (FBCA), allowing government agencies to securely exchange information. DigiCert can help enterprises establish and/or integrate cross-certification practices and agreements that address the security requirements of all participants. With a standalone PKI software product, enterprises must develop and execute cross-certification processes on their own.

Features summary

DigiCert is one of the only vendors in the PKI space offering a complete enterprise PKI solution — based on the PKI service-platform concept.

The following table summarizes some major features of the DigiCert offering.

<table>
<thead>
<tr>
<th>PKI component</th>
<th>DigiCert approach</th>
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<tbody>
<tr>
<td>Cryptographic hardware for certificate signing</td>
<td>All CAs use hardware cryptography, FIPS 140-1 level 3 endorsed (avert risks of tampering and disclosure of private CA key inherent in software cryptography)</td>
</tr>
<tr>
<td>Root-key protection</td>
<td>Root keys always network isolated and in secure facility; activation by regimented, audited secret sharing (averts risks of penetration and disclosure of private information by intruders/administrators if private root key held in online operational environment)</td>
</tr>
<tr>
<td>User-key management</td>
<td>User encryption keys backed up at enterprise full key histories; strong protection using distributed-key recovery technology</td>
</tr>
<tr>
<td>dual-key support</td>
<td>Supports single- or dual-key pairs for any application (dependent on application requirements and capabilities)</td>
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<tr>
<td>Revocation</td>
<td>Certificate revocation lists issued regularly; revocation enabled for Web servers and standard browsers; support OCSP</td>
</tr>
<tr>
<td>PKI Component</td>
<td>DigiCert Approach</td>
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<td>-------------------------------------</td>
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<tr>
<td><strong>Ease of integration</strong></td>
<td></td>
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<tr>
<td>Standards-based vs. proprietary PKI</td>
<td>Standards-based PKI; no proprietary software on desktops; 100+ ISV partners; 120+ applications enabled</td>
</tr>
<tr>
<td>Directory/Database technology</td>
<td>Enterprise choice of LDAP, X.500, SQL, or legacy DBMS; no directory schema restrictions</td>
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<tr>
<td><strong>Availability and scalability</strong></td>
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<tr>
<td>Redundancy</td>
<td>Guaranteed 24/7 service levels redundant servers database ISPs telecommunications</td>
</tr>
<tr>
<td>Disaster recovery</td>
<td>Guaranteed 24/7 disaster-recovery backup at remote secure site</td>
</tr>
<tr>
<td><strong>Security and risk management</strong></td>
<td></td>
</tr>
<tr>
<td>Facility security</td>
<td>Fortified construction, five-tier security, dual biometric access control, 24-hour monitoring, motion detect, network security audit</td>
</tr>
<tr>
<td>Personnel security</td>
<td>Investigative screening, specialist training, retraining</td>
</tr>
<tr>
<td>Independent audit</td>
<td>Independent SOC2/SOC3 audit by KPMG®</td>
</tr>
<tr>
<td>Customer practices support</td>
<td>Enterprise CA may join STN with proven established practices, or may establish own practices; DigiCert offers practices consulting and/or CPS</td>
</tr>
<tr>
<td>Non-repudiation</td>
<td>Evaluated/Audited cryptographic materials management and secured-records retention provide independently verifiable evidence for dispute resolution</td>
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</table>
### PKI Component

<table>
<thead>
<tr>
<th>Expertise</th>
<th>DigiCert Approach</th>
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<tbody>
<tr>
<td>Dedicated staff</td>
<td>Highly screened and trained security professionals focus solely on security and PKI</td>
</tr>
<tr>
<td>State-of-the-art skill set</td>
<td>Refresser courses and ongoing updates to maintain proficiency</td>
</tr>
</tbody>
</table>

### Scope of operation

| Global community enablement | Enterprise has option of joining PKI structure with roots pre-installed in all commercial web/mail clients |
| Cross-certification        | Can cross-certify enterprise Managed PKI CA into established Trust Network or private network; can cross-certify private Mozilla® or Microsoft® certificate server; cross-certification includes all phases, including support for practices establishment |

**Conclusion**

As the role of internet security has evolved to include gate-keeping functions as well as network facilitation, protecting information assets has become more costly and complex. The foundation for providing application and network security in this dynamic environment is PKI. Because a successful PKI requires state-of-the-art technology, sophisticated certificate practices, and highly-trained personnel, in-house deployment of PKI services involves significant investments of time and money. In addition, enterprises deploying standalone, in-house PKIs often cannot provide the same levels of security as service providers dedicated solely to PKI and security.

The DigiCert PKI Platform is an outsourced offering that alleviates the burdens and risks of building, deploying, and maintaining an in-house PKI while allowing enterprises to maintain internal control over vital aspects of security such as certificate issuance, suspension, and revocation. By leveraging DigiCert industry-leading technology and expertise, as well as its comprehensive certificate practices statement, enterprises not only reduce costs, speed time to deployment, and strengthen security, but also win the confidence of partners, customers, and suppliers who recognize and trust the DigiCert name.
For more information, contact a PKI expert 1.801.770.1736 or email pki_info@digicert.com.