

# Symantec™ WiMAX Public Key Infrastructure Service for Service Providers

## Data Sheet: Authentication

WiMAX™ is a collection of integrated wireless broadband technologies and products built around the harmonized IEEE 802.16e/ETSI HiperMAN standard. Ensuring secure communication over WiMAX-based networks is a critical success factor for the growth of the WiMAX ecosystem. Seamless security that is transparent to the end user is also crucial for widespread adoption. Security solutions based on Public Key Infrastructure (PKI) are particularly well-suited in addressing these business needs.

PKI platforms are based on a trusted Certification Authority (CA) that issues, renews, revokes, and manages digital certificates used for valid identification. PKI delivers strong authentication, also known as two-factor authentication (2FA) to ensure that valid devices are properly authenticated for access to a service. Strong authentication provides an additional layer of protection beyond traditional access methods, such as the relatively vulnerable user name/password. Solutions using PKI digital certificates are also relatively transparent as they can be embedded on devices and do not require interaction from the end user to authenticate identity.

### Symantec™ WiMAX Public Key Infrastructure Service

Symantec™ WiMAX Public Key Infrastructure (PKI) Service for service providers is a hosted solution that is managed by Symantec and enables secure communication over WiMAX-based wireless networks.

### The sole provider of WiMAX Server PKI for service providers

Formed in 2001, the WiMAX Forum® is a non-profit organization whose goal is to accelerate the introduction of WiMAX-based systems into the marketplace by promoting conformity and interoperability with the WiMAX standard. The WiMAX Forum has selected Symantec as the sole provider for its Server PKI for service providers. Symantec was chosen because of its record of successfully delivering military-grade PKI solutions to thousands of enterprise and government customers around the world. By leveraging Symantec's expertise and extensive PKI infrastructure, service providers benefit from Symantec's significant investments and PKI knowledge while retaining complete control over digital certificate lifecycle management, including issuance, renewal, and revocation.

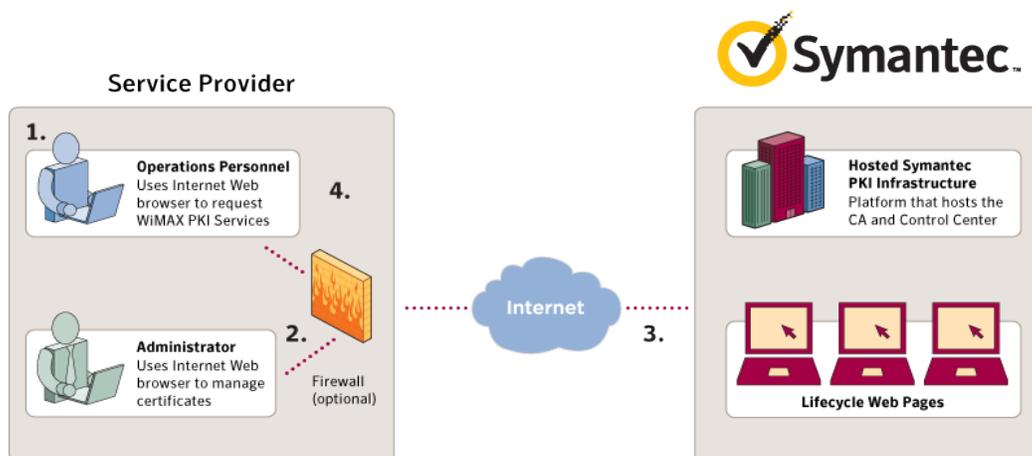


Figure 1: WiMax PKI Service is fully hosted by Symantec

1. A Certificate Signing Request (CSR) is entered by authorized operations personnel.
2. The administrator approves the request.
3. A digital certificate is issued and a notification is emailed back to the requestor.
4. The requestor logs into a Symantec-hosted portal to securely acquire the digital certificate.

### A proven PKI platform for service providers

Over 200 million devices worldwide depend on Symantec's PKI-based digital device certificates to secure access to services, making Symantec the leader in powering trust in communities such as the WiMAX ecosystem. Symantec WiMAX PKI Service delivers:

- **Scalability**– WiMAX PKI Service is capable of supporting millions of end user PKI-based WiMAX digital certificates on a global scale.
- **Reliability**– WiMAX PKI Service is derived from Symantec's PKI infrastructure that has been delivering hosted and managed security to thousands of commercial and government customers since it went into operation in 1995.

Its architecture is a combination of highly integrated hardware, software, and processes that are protected in a secure data facility.

### Features and benefits

Feature	Benefit
Hosted certification authority (CA)	Symantec hosts and operates a CA that enables enterprises to achieve lower total cost of ownership than standalone in-house PKI implementations, and has the following functionality: <ul style="list-style-type: none"> <li>• Generation of CA key pairs.</li> <li>• Activation and deactivation of CA certificates.</li> <li>• Maintenance of Certificate Revocation Lists (CRLs).</li> <li>• Supports validation of status using Online Certificate Status Protocol (OCSP) standards.</li> </ul>
Mission-critical reliability	Employs the same PKI technology that is used throughout its military-grade public key infrastructure and Network Operations Centers. <ul style="list-style-type: none"> <li>• Supports 24x7x365 monitoring, management, and escalation across the globe with full disaster recovery.</li> <li>• Certified annually by KPMG® as part of a SAS-70 security audit. A regular WebTrust® audit of Symantec's PKI infrastructure is also conducted.</li> </ul>
Scalable	Architected to support the highest volume and peak load requirements in the industry. <ul style="list-style-type: none"> <li>• Overall system architecture is designed to support the issuance and management of over 100 million certificates per year.</li> <li>• Symantec diagnostic procedures, security practices, operational policies, and infrastructure have been tested and proven over time and designed with scalability in mind.</li> </ul>
Future-ready	Symantec has a strong commitment to open standards, innovative technology, and strategic collaborations to enable the flexibility needed to evolve with the changing technology landscape. <ul style="list-style-type: none"> <li>• Supports standard certificate types, including: S/MIME, SSL, and IPSec, as well as PKI industry standards such as X.509 v3, LDAP, and PKCS #7, PKCS #10, and PKCS #12.</li> <li>• Symantec's open approach to security enables organizations to operate freely in diverse environments, and maximize return on, and preservation of, existing investments.</li> </ul>
World-class service	Symantec provides binding service-level agreements that include high-security facilities with: <ul style="list-style-type: none"> <li>• Highly trained, trusted personnel.</li> <li>• Redundant systems.</li> <li>• 24x7x365 customer support.</li> <li>• Disaster recovery.</li> <li>• Full audit and archiving.</li> </ul>
Leverages proven PKI platform	Symantec operates the largest and most comprehensive PKI solutions available on the market today, and has been doing so since 1995.

## **More Information**

### *Visit our website*

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## **About Symantec**

Symantec is a global leader in providing security, storage, and systems management solutions to help consumers and organizations secure and manage their information-driven world. Our software and services protect against more risks at more points, more completely and efficiently, enabling confidence wherever information is used or stored. Headquartered in Mountain View, Calif., Symantec has operations in 40 countries. More information is available at [www.symantec.com](http://www.symantec.com).

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