

# Managed PKI as a Service Enterprise Control and Automation

## Secure Enterprise Networks, IT Systems and IoT Devices

HID HydrantID’s cloud-based services provide critical public key infrastructure (PKI) necessary to secure communications between machines, network and mobile devices, virtual servers, and the Internet of Things (IoT), inside the firewall or out. With HydrantID, enterprises can achieve security best practices related to PKI encryption and authentication while reducing operating costs and complexity with one simple subscription fee.

PKI has the advantage of being a foundational security technology that has been implemented for decades in a wide variety of use cases. This longevity in the market has driven commercial computer hardware, operating system and application providers to enable PKI-specific features in those products. In addition, most enterprises have a strong ecosystem of PKI certificate-aware products already deployed in their infrastructure. HydrantID’s automation connectors enable these systems to access HydrantID’s PKI as a Service to automate certificate deployment.

HydrantID’s PKI as a Service includes three components to unlock automation and enterprise controls.

### Managed Private PKI:

Using Managed Private PKI, enterprises can secure authentication and communications between machines, devices, IoT and virtual servers. HydrantID’s cloud-based service eliminates operational complexity and dramatically reduces costs related to operating and deploying an organizational private PKI.

#### SOLUTION BENEFITS

- Dramatically reduce costs and complexity associated with CA management
- Obtain an industry best practices PKI (Trust) infrastructure along with related operations and security
- Reduce operational and compliance risks
- No vendor lock-in cancel and roots and/or ICAs provided as applicable

HydrantID Service	Features
<b>Dedicated Issuing CA Service</b>	<ul style="list-style-type: none"> <li>• Provides unique trust anchor at the issuing CA level and management of all on-line ICA services</li> <li>• Management of all certificate validation systems</li> <li>• Works well for organizations that don't need their own off-line root or CPS</li> <li>• Provides full turnkey service including private root key generation ceremony and custody management of all off-line key material</li> </ul>
<b>Private Root PKI Service</b>	<ul style="list-style-type: none"> <li>• Management of all online issuing CAs</li> <li>• Management of all certificate validation systems</li> <li>• Perfect for large organizations with unique trust models and PKI hierarches</li> </ul>

## Enterprise Management and Automation:

Access your managed PKI as a service via HydrantID’s enterprise SaaS portal with complete policy control, delegated administration, on-demand auditing and reporting. Automate and scale certificate provisioning, for mixed IT environments through HydrantID’s service support for Microsoft Autoenrollment and standards-based certificate management protocols and third party management systems.

### SOLUTION BENEFITS

- Significantly reduce operating costs, security and compliance risks
- Outsource the complexity of running a best-in-class PKI without losing control of your trusted digital assets
- A unique dedicated customer management process and security model ensures only authorized access to root key material and no vendor lock-in
- One simple annual subscription fee for the operation of your PKI solution(s) gets you what you need, when you need it, at dramatically reduced costs
- No complex certificate-based pricing or credits to manage
- New services can be added at any time for predictable, all-inclusive pricing with no surprises

HydrantID Service	Features
<b>PKI as a Service</b>	<ul style="list-style-type: none"> <li>• Design of private trust hierarchy architecture(s) and implementation</li> <li>• Turn-key root key generation ceremony processes and documentation</li> <li>• Off-line root key custody management</li> <li>• Management of on-line issuing CA(s) signing, operations, documentation and security processes</li> <li>• M of N security control model of off-line assets</li> <li>• Off-line and on-line key material BCP and disaster recovery process</li> <li>• Management of all certificate validation processes including HA implementation and highly scalable OSCP and CRL processes</li> <li>• HSM operations and HA model for continuous operations</li> <li>• Web-based certificate management portal supports both private and trusted certificate services</li> <li>• Automation support for MS autoenrollment and other standards-based certificate management protocols such as SCEP, EST, and ACME as well as API support</li> <li>• Guidance and support for current PKI migration to HydrantID managed service, as well as guidance and recommendations for migration of CA key material obtained in acquisitions</li> <li>• Trusted certificate services including OV, EV, Wildcard and SAN certificates as well as client certificates such as S/MIME and code signing</li> </ul>
<b>Digital Certificate Automation for every system and device</b>	<ul style="list-style-type: none"> <li>• Active directory domain computers and servers</li> <li>• Network routers, firewalls and other devices</li> <li>• Smartphones, tablets and other user devices</li> <li>• MacOS computers and OSX Profile Manager</li> <li>• IIS, Linux and Apache Web and App Servers</li> <li>• Application integrations</li> <li>• Internet of Things devices and gateways</li> </ul>

**Trusted Certificate Services:**

HydrantID’s Trusted SSL/TLS and client offering provides organizations the ability to obtain all digital certificate needs in real-time, for one simple subscription fee. No per certificate, per SAN, certificate type, validity term pricing or credits to manage.

**SOLUTION BENEFITS**

- Significant cost savings and simplified procurement process with simple subscription fee
- No managing certificate credits or unplanned budget issues
- Secure more systems quickly with on-demand certificate issuance at no extra charge
- No per certificate or certificate type pricing

HydrantID Service	Features
<p align="center"><b>Subscription-based SSL/TLS Service</b></p>	<ul style="list-style-type: none"> <li>• Enterprise class management portal provides delegated authority with centralized policy control</li> <li>• Any certificate type, including SANS, wildcard and EV</li> <li>• Flexible expiration dates up to two years</li> <li>• Unlimited sub-domains</li> <li>• May place on unlimited servers</li> <li>• Optional API and automation support</li> </ul>

**About HydrantID**

HydrantID provides encryption and authentication services to help companies secure computer and network devices, IoT systems and e-commerce transactions. HydrantID focuses on helping companies achieve industry best practices related to authentication and encryption, while reducing operating complexity and costs. HydrantID’s cloud-based, PKI as-a Service offering allows organizations to obtain authentication and encryption services on-demand, in real time. An industry-leading fixed-price subscription model eliminates financial and operational barriers that start-ups and Fortune 500 companies alike face in creating strong security practices.



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