Help needed!
Top PKI deployment and management challenges

#1 challenge for 7 years in a row

71% No clear ownership

51% Insufficient resources

46% Insufficient skills
Who’s in charge here?

For the 7th straight year, “no clear ownership” is the top challenge in deploying and managing PKI.
How PKI is driving the connected world

Top applications for PKI credentials

- TLS/SSL certificates for public-facing websites and services: 81%
- Private networks and VPN: 67%
- Email security: 55%
- Enterprise user authentication: 53%
- Public cloud-based applications and services: 52%
- Device authentication: 50%
PKI possibilities are endless, but your resources aren’t

46%
46% say their organizations lack the skills needed to utilize PKI

41%
Only 41% of organizations have PKI specialists on staff
More certificates, more problems

The average number of certificates is up 50% since 2019, yet with a PKI skills shortage, is there a management issue?

*Average number of certificates issued by organization
PKI capabilities become business possibilities. Are you ready?

The top challenges to enable applications to utilize PKI

- Existing PKI is incapable of supporting new applications: 55%
- Insufficient skills: 46%
- No ability to change legacy apps: 43%
- Insufficient resources: 38%
- No pre-existing PKI: 36%
- Too much change or uncertainty: 36%
Plan for the unplanned
The top areas expected to experience the most change and uncertainty

- New applications (e.g., Internet of Things): 41%
- External mandates and standards (GDPR, CMMC, Fed IoT, etc.): 37%

The top area for the 4th straight year
Evolving for the connected world
The most important trends driving the deployment of applications using PKI

<table>
<thead>
<tr>
<th>Trend</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet of Things (IoT)</td>
<td>47%</td>
</tr>
<tr>
<td>Cloud-based services</td>
<td>44%</td>
</tr>
<tr>
<td>Consumer mobile</td>
<td>40%</td>
</tr>
<tr>
<td>Regulatory environment</td>
<td>24%</td>
</tr>
<tr>
<td>Consumer-oriented mobile applications</td>
<td>20%</td>
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</tbody>
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The rise of machines and clouds
The top trends driving the deployment of applications using PKI

The top trend for two years in a row

Internet of Things (IoT) 47%
Cloud-based services 44%
Who’s ready to comply?
The most important security certifications when deploying PKI infrastructure

- Common Criteria EAL Level 4+: 63%
- FIPS 140-2 Level 3: 62%
- Regional standards, such as digital signature laws: 25%
PKI is the pulse of enterprise IT

Average number of distinct applications using PKI continue to rise for organizations with internal CAs

2019: 8.52
2020: 8.60
2021: 9.12
Diversified PKI deployment
The most popular methods for deploying PKI

- Internal CA: 62%
- Externally hosted private CA - managed service: 44%
- Public CA service: 31%
- Private CA running in a public cloud: 23%
- Business partner provided service: 15%
- Government provided service: 9%