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Federal PKI Graph

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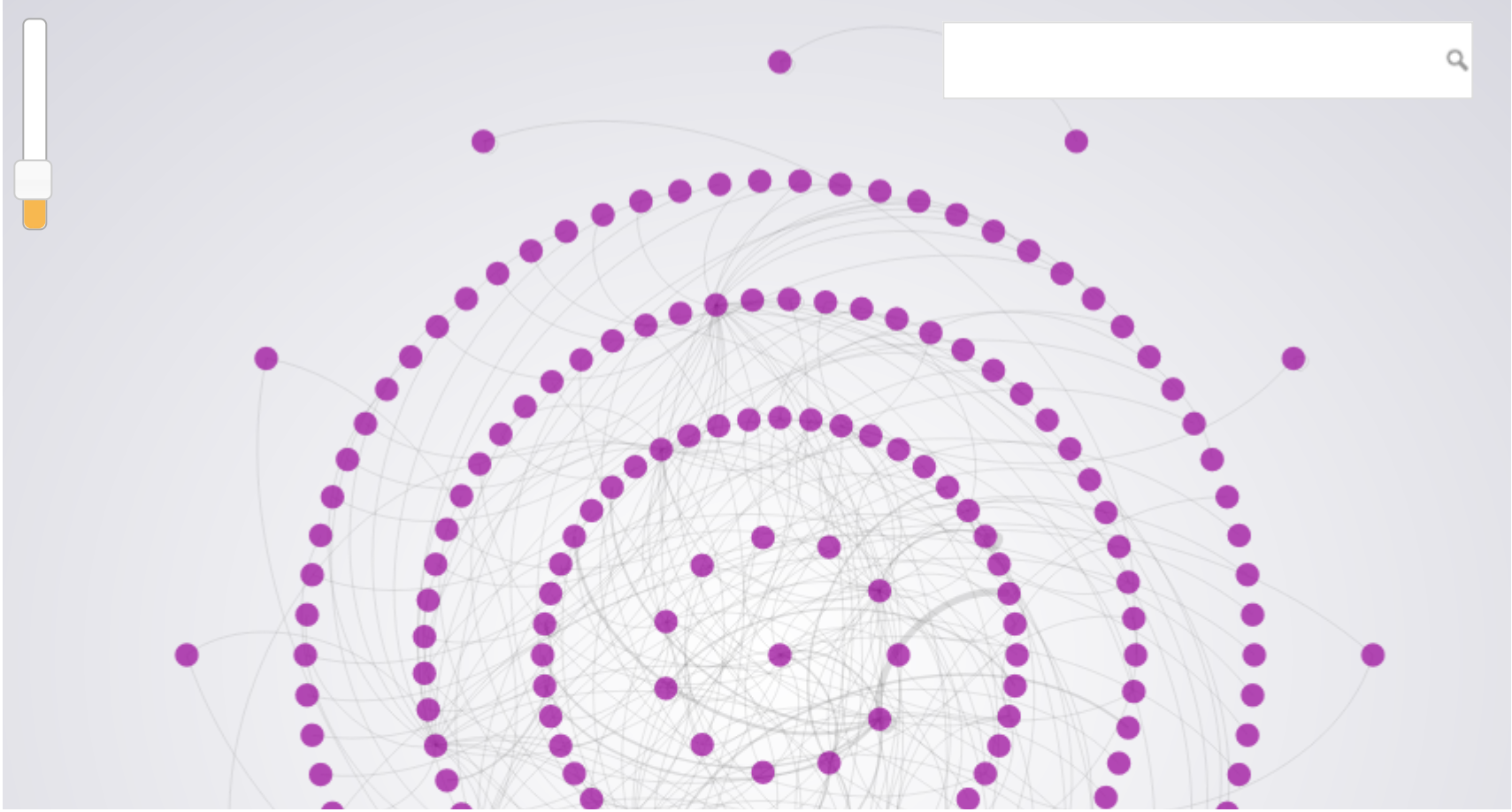

The FPKI Graph displays the relationships between the Certification Authorities in the Federal PKI (FPKI) ecosystem. It graphically depicts how each Certification Authority links to another, through cross certificates, subordinate certificates, or Bridge CAs.

The Federal Common Policy Certificate Authority (CA) (*"COMMON"*) is shown at the center of the Graph, and the rings of dots represent the outbound CAs.

- Click on any dot in the Graph to see a CA's inbound and outbound *CA* certificates.
- *Inbound* means the CA certificate is signed by the *Inbound* CA.
- *Outbound* means the CA has signed the *Outbound* CA certificate.
- The *Search* function is on the upper right-hand corner.
- The *Zoom* scroll bar is in the upper left-hand corner.

You cannot download the certificates from the Graph. To download the certificates, you need to retrieve the certificates from the Authority Information Access (AIA) or Subject Information Access (SIA) URIs. (See below for

more information on AIAs and SIAs.)

How the FPKI Graph Works

The Graph uses information published in each CA certificate's AIA and SIA extensions. This is public information: all CAs in the FPKI are required to publish and maintain their AIA certificate bundles.

All CA and End Entity certificates that have a certificate path (trust chain) to COMMON will have an AIA extension in their public certificates. An AIA extension contains a URI where you can find the certificate(s) used to sign that CA or End Entity certificate.

Most CA certificates will also have an SIA extension with a URI to the CA certificates that have been issued ***by that CA***. For example, you can find the SIA for COMMON at http://http.fpki.gov/fcpca/caCertsIssuedByfcpca.p7c.

- To use this SIA, retrieve the file (.p7c) using the link above and open it.
- You will find a dozen or more certificates that are issued by COMMON (Root) to other intermediate or issuing CAs.
- The SIA URIs from each of these certificates can then be retrieved to find the next set of signed certificates.

Acknowledgment

The FPKI Graph was built by using the same tools and code as the Berkley ICSI SSL Notary.

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Feedback? Create an issue on the code repository or email us at fpki@gsa.gov.

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