

CoreStreet PKI Toolkit

Developer toolkit to enable certificate validation

Overview

The CoreStreet PKI Toolkits are designed for developers who are enabling applications for deployment in a Public Key Infrastructure (PKI). Part of this enablement involves adding functionality to discover, construct and validate trusted certificate paths. With the CoreStreet PKI Toolkits, developers can rapidly add this functionality to their applications.

Features

The CoreStreet PKI Toolkits support both the Online Certificate Status Protocol (OCSP) and the Standard Certificate Validation Protocol (SCVP). The PKI Toolkits are available for use in Java, C, and C++ applications. CoreStreet PKI Toolkits are:

- Fully compliant with OCSP standard, RFC 2560
- Provides access to all aspects of OCSP
- Fully compliant with the SCVP standard, RFC 5055
- Provides access to all aspects of SCVP
- Fully compliant with standard Path Validation Algorithm, RFC 3280
- Fully compliant with NIST PKITS

The CoreStreet PKI Toolkit for Java is delivered as a JAR library that can be used in conjunction with Java's built-in cryptographic support.

The CoreStreet PKI Toolkit for C operates on Microsoft® Windows® platforms and can be utilized to PKI enable any Windows based application

Download

The PKI Toolkits are available from CoreStreet. If you are interested in acquiring a toolkit, please contact CoreStreet, or your CoreStreet representative.

Support

Several forms of developer support are available on the CoreStreet website. These include instructive examples of simple OCSP and SCVP implementations and a library of documents designed to assist developers to enable certificate validation in their applications.

Testing

To facilitate testing of an SCVP or OCSP enabled application, CoreStreet provides an online validation server for use by developers. Developers can submit SCVP or OCSP requests to this server and will receive the corresponding response. This server can be used to test path discovery and validation between any two entities in the US Federal PKI.

Provided functionality

The CoreStreet PKI Toolkit contains a set of APIs to support certificate validation. Using these APIs, the developer can implement all aspects of the validation process, including:

- Discovery of trusted certification paths from local certificate stores
- Delegated discovery of trusted certification paths using SCVP
- Certificate status checking using OCSP
- Certification path validation

In addition to APIs that control individual aspects of certificate validation, the CoreStreet PKI Toolkit contains high-level APIs that automate the entire certificate validation process.