

# MiniCRL

CoreStreet's MiniCRL: the digital certificate validation solution for tactical, "broadcast only," and network constrained environments.

## Overview

A digital certificate provides a secure way to authenticate the identity of a person or computer. Unfortunately, authentication does not determine whether the certificate itself is still valid, or whether its associated roles and privileges are still current. A relying party must check for status changes and revocation to implement a truly secure Public Key Infrastructure. This validation check must be both fast and secure to support a Public Key Infrastructure (PKI) environment effectively.

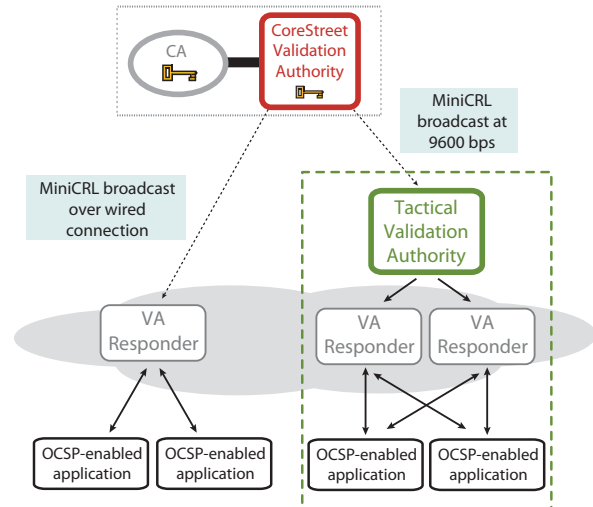
In tactical, bandwidth-constrained environments, a full Certificate Revocation List (CRL) may require several hours of download time, which is wholly unacceptable in locations of this nature. Moreover, without the ability to reliably receive CRLs, tactical settings are forced to use inferior security measures – opening the door to security breaches.

CoreStreet's MiniCRL offers a unique way to validate digital certificates in drastically low-bandwidth environments. The technology combines 30:1 compression with "segmented validation" to offer secure certificate validation in situations where such levels of security were previously unattainable.

Furthermore, MiniCRLs are digitally signed, making them unspoofable and tamper-evident – ensuring that the information is always accurate and true.

The MiniCRL approach offers all of the security and management simplicity of traditional CRLs, while allowing full transmission of the revocation list using only 3% of the bandwidth of a X.509 CRL.

This high compression makes MiniCRLs ideal for "broadcast only" environments where security and secrecy are of the highest priority. For locations of this nature, it is imperative that visibility be minimized. In the past, such environments have been relegated to inferior security measures because certificate validation was impossible. With MiniCRL an entire



6 megabyte CRL can be compressed and transferred at 9600 bps in under 1 minute, enabling digital certificate validation in even the most difficult settings.

MiniCRL technology is currently available only from CoreStreet.

## Key Features

CoreStreet's MiniCRL is a unique technology for validating digital certificates. The advantages of MiniCRL include:

- **Reliable** Each MiniCRL is digitally signed prior to transmission. As a result, the receiving responders can be unprotected - preserving continuous security in the most challenging of environments.
- **Secure** MiniCRLs bring the highest level of security to some of the least secure locations. The result: universally protected assets.
- **Comprehensive** Unlike other approaches, due to high compression, each transmitted MiniCRL contains data pertaining to all certificates.