

Implementation Considerations # {#implementation-considerations}

Security Considerations ## {#security-considerations}

Attestation Certificate and Attestation Certificate CA Compromise ###
{#attestation-certificate-compromise}

credentialId Unsigned

Security Considerations for Authenticators

Attestation Certificate Hierarchy

Security Considerations for Clients

Browser Permissions Framework and Extensions

Security Considerations for Relying Parties

Cryptographic Challenges

Security Benefits for WebAuthn Relying Parties

Considerations for Self and None Attestation Types and Ignoring Attestation

Privacy Considerations ## {#privacy-considerations}

De-anonymization prevention measures

Anonymous, scoped, non-correlatable public key credentials

Authenticator-local biometric recognition

Privacy Considerations for Authenticators

Attestation Privacy

Privacy Considerations for Clients

Registration Ceremony Privacy

Authentication Ceremony Privacy

Privacy between operating system accounts