



PKI for Healthcare Interoperability

Shared Need

- Multiple IHE domains need common PKI lifecycle capabilities
- DEV has specific Gemini SDPi / IEEE SDC requirements

Generic, cross-domain PKI capabilities

- Enrollment / re-enrollment
- Issuance, renewal, rotation, replacement & revocation
- Trust anchors, identity authentication & proof of possession
- Authorization, auditability & testable conformance

Gemini SDPi / IEEE SDC specialization

- SDC Participant and SDC Network semantics
- Mediator, managed and ad-hoc operating models
- SDPi/SDC-specific OIDs, EKUs, capability authorization and device approval
- SDC-specific enrollment, renewal, and revocation

OR.NET has drafted an SDC-specific PKI architecture covering RFC 7030 enrollment, device approval, SDC certificate semantics, and revocation. SDPi will integrate.

Recommendation

- ITI defines the reusable base.
- DEV adds an SDPi / SDC named option for specific requirements.