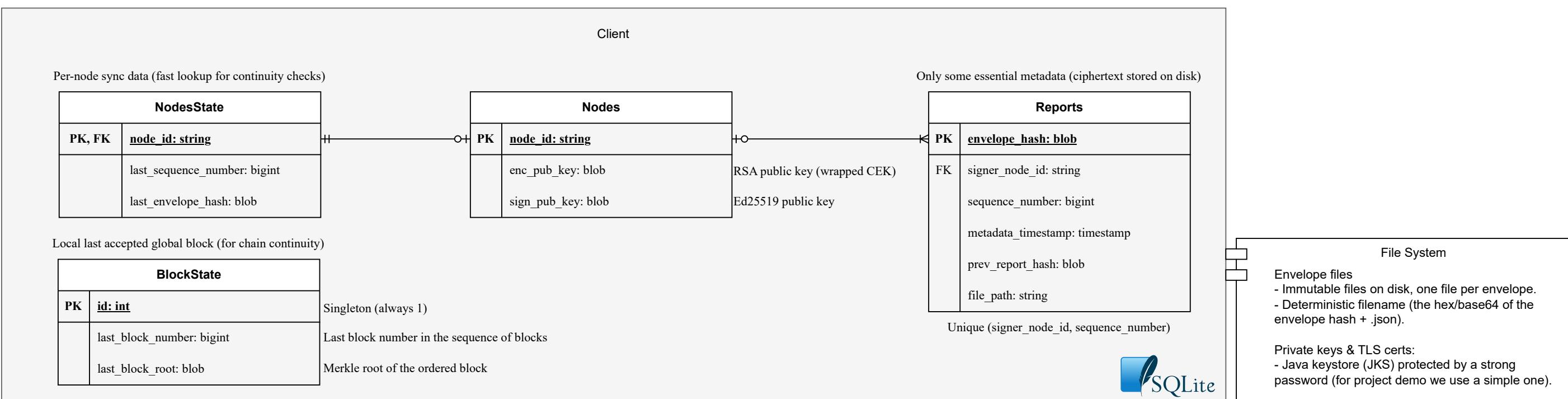


Envelope (what nodes store/send)

```
{
  "metadata": {
    "report_id": "abc123",
    "metadata_timestamp": "2025-10-28T12:00:00Z",
    "report_creation_timestamp": "2025-10-28T10:00:00Z",
    "sequence": 42,
    "prev_hash": "b64url(SHA256(previous_envelope))",
    "signer": { "kid": "nodeA", "alg": "Ed25519" }
  },
  "key_enc": {
    "wrap_alg": "RSA-OAEP-SHA256",
    "key_per_node": [
      { "node": "self", "wrapped_cek": "b64url(...)" }, // because this node still needs to decrypt it
      { "node": "nodeB", "wrapped_cek": "b64url(...)" },
      { "node": "nodeC", "wrapped_cek": "b64url(...)" }
    ]
  },
  "report_enc": {
    "alg": "AES-256-GCM",
    "nonce": "b64url(encNonce)",
    "ciphertext": "b64url(...)",
    "tag": "b64url..."
  }
}
```



Inner plaintext payload (encrypted with CEK)

```
{
  "report": {
    "report_id": "abc123",
    "report_creation_timestamp": "2025-10-28T12:00:00Z",
    "reporter_pseudonym": "shadow_fox",
    "content": {
      "suspect": "john_doe",
      "description": "Alleged involvement in organized crime",
      "location": "Tokyo, Japan"
    },
    "version": 1,
    "status": "pending_validation"
  },
  "signature": "b64url(Ed25519(( report || metadata )))"
}
```