

# CoSERV Veraison Prototype

# Prototype API

Simple request-response over HTTP using GET

CoSERV query is in the outer-most path segment (allow caching)

Parameterised media type (profile is a CoRIM profile)

# Request

```
GET /endorsement-distribution/v1/coserv/ogB4I3R... HTTP/1.1
Host: localhost:11443
Accept: application/coserv+cbor; \
        profile="tag:arm.com,2023:cca_platform#1.0.0"
```

# Response

HTTP/1.1 200

Content-Type: application/coserv+cbor

Content-Length: 702

Date: Tue, 15 Apr 2025 10:37:28 GMT

```
{
  / profile / 0: "tag:arm.com,2023:cca_platform#1.0.0",
  / query / 1: {
    / artifact / 0: 2, / reference-values /
    / environment-selector / 1: {
      / class / 0: [
        { / class-id / 0: 600(h'7f45...') / impl-id / }
      ]
    }
  },
  / results / 2: { ... }
}
```

# New coserv-service

```
const (
    edApiPath = "/endorsement-distribution/v1"
)

func NewRouter(handler Handler) *gin.Engine {
    // ...
    router.GET("/.well-known/veraison/endorsement-distribution", handler.GetEdApiWellKnownInfo)

    coservEndpoint := path.Join(edApiPath, "coserv/:query")
    router.GET(coservEndpoint, handler.CoservRequest)

    // ...
}
```

# New VTS Service

```
service VTS {  
    // endorsement distribution API  
    rpc GetEndorsements(EndorsementQueryIn) returns (EndorsementQueryOut);  
    // ...  
}  
  
message EndorsementQueryIn {  
    string media_type = 1; // media type (including profile)  
    string query = 2;      // base64url-encoded CoSERV  
}  
  
message EndorsementQueryOut {  
    Status status = 1;  
    bytes result_set = 2; // CBOR-encoded result-set CoSERV  
}
```

# Plugins

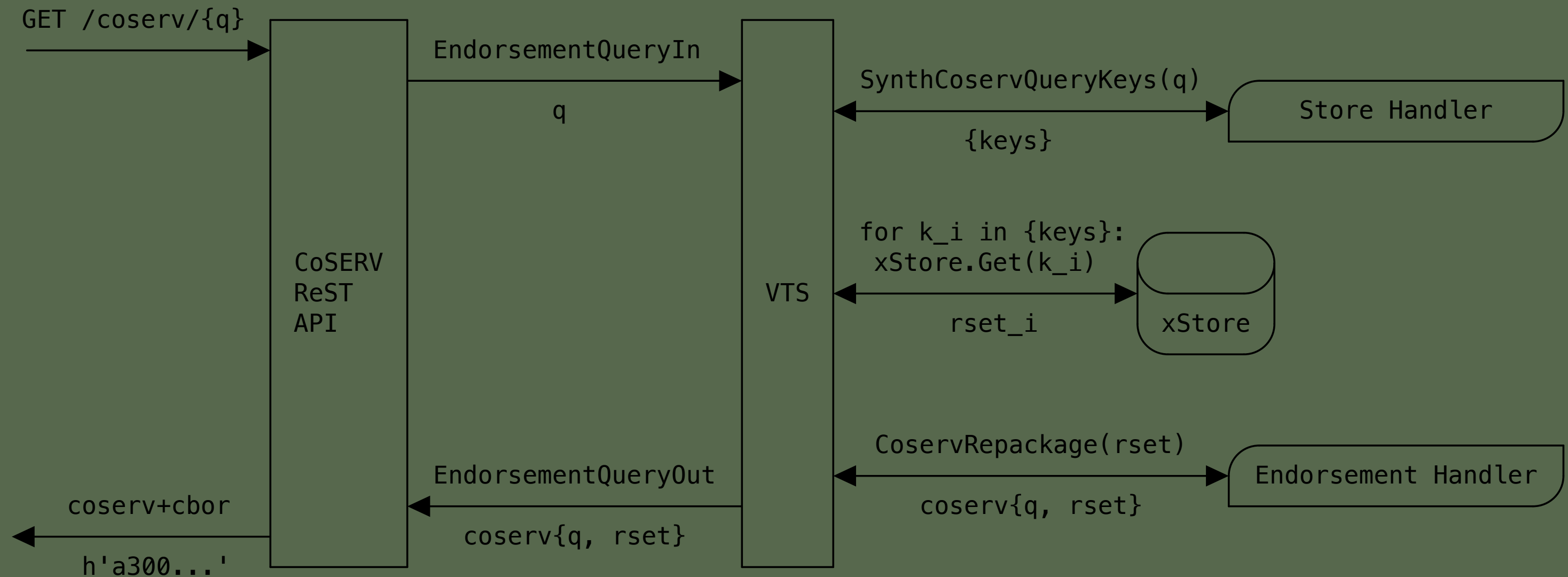
Local mode: reuses / expands Store and Endorsement<sup>1</sup> handlers

Proxy mode: new CoservProxy handler type

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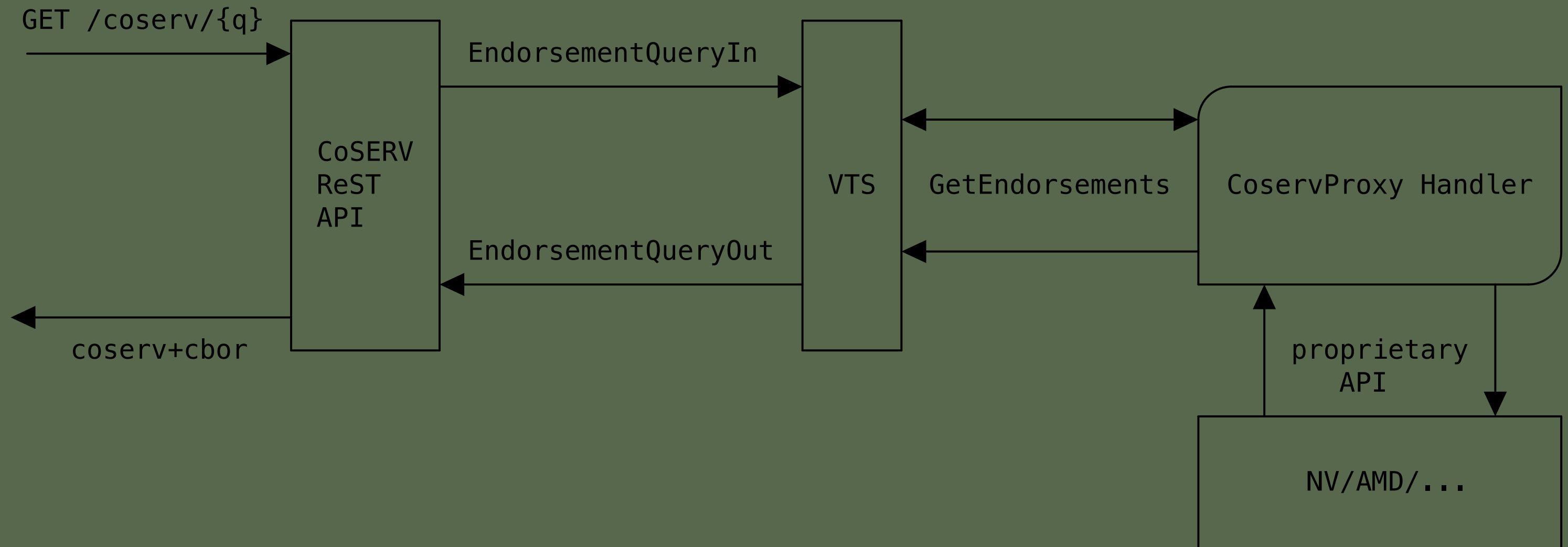
<sup>1</sup> Also, small tweak to synthesize a new key for instance queries on ingest.

# Local





# Proxy



# TODO

- Expiry timestamp
- HTTP cache control headers
- COSE signature
- Example proxy plugin (NVIDIA and/or AMD)

# Pointers

- corim git:(coserv)
- services git:(coserv)