Alpha Presentation
Secure Application Layer API Proxy

The Capstone Experience

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Project Overview

• Translation
  ▪ Translate requests from REST to SOAP
  ▪ Translate responses from SOAP to REST

• Authentication
  ▪ Signed JSON Web Tokens
  ▪ VIP Certificates

• Testing
System Architecture

- Client
- Proxy (REST)
- VIP (SOAP)

REST API Request → Proxy Certificate → SOAP API Request

REST API Response ← Proxy

SOAP API Response ← VIP
Login Screen

Username: teamsymantec

Password: ***************

Forgot your password?

Enabled by: Symantec. Validation & ID Protection

See Help for assistance.
If you don't have your sign-in information, contact your administrator.
Entering One-Time Password (OTP)

Security Code Verification

Please enter Security Code from your VIP credential.

Security Code: 645943

Don't have VIP two-factor authentication? Download the app.
Translation Process

Please enter Security Code from your VIP credential.

Security Code:

Don't have VIP two-factor authentication? Download the app.

Converting to SOAP...
Final JSON Body

```json
{
  "credentialIdField": "SYMZ86142563",
  "credentialTypeField": 0,
  "credentialTypeFieldSpecified": true,
  "transactionIdField": null,
  "pushDetailIdField": null,
  "authContextIdField": null,
  "requestIdField": "1234567890",
  "statusIdField": "AAA",
  "statusMessageIdField": "Success",
  "detailIdField": null,
  "detailMessageIdField": null
}
```
What’s left to do?

• Endpoint translation
  ▪ Finish developing endpoints
  ▪ Document endpoints

• Client side authentication

• Testing
  ▪ Automated integration tests
  ▪ Automated performance testing
  ▪ Unit testing
Questions?