



Mowali Update

January 2019



Outline

- Mutual TLS Connectivity – Certificate Handling
- OAuth & JWS
- Backend Configuration
- Golden DFSP Simulator



Mutual TLS Connectivity

- Current Setup
 - DFSP to Switch (External WSO2 Gateway)
 - Switch public server certificate exchanged with DFSPs
 - DFSP Client Certificate exchanged with Switch and configured in Switch Gateway
 - Switch to DFSP – Callbacks (Internal WSO2 Gateway)
 - DFSP public server certificate exchanged with Switch and configured in Switch Gateway
 - Switch Client certificate exchanged with DFSP
- Challenges
 - Certificate Handling in WSO2, using keystores and trust-stores – No Better UI
 - A better CA Handling
 - Certificate Expiry issues



OAuth & JWS

- OAuth
 - FSP Specific profile is created in Gateway
 - This creates a FSP specific Consumer Key and Secret that is private to DFSP
 - Using Consumer Key and Secret, FSP obtains an Oauth Token that is provided in any requests that are submitted to Switch
- JWS
 - For API Confidentiality and Non-Repudiability
 - FSPIOP-Signature Header used
- Challenges
 - Each DFSP needs to maintain public certs for all the peer DFSPs – A Central Repository
 - Custom mediation flows per DFPS in WSO2 Gateway for OAuth- Not Scalable



Configuration in Backend Services

- FSP Account based on currency is created
- Net Debit Cap limits, initial position values, Threshold Percentage for NDC Approach are configured for FSP
- FSP Callback endpoints are configured
 - Success notifications
 - Error responses/notifications
- Recommendation
 - A Self-Service Portal



Golden DFSP Simulator

- Implementation of Security
 - mTLS, OAuth, JWS
- Functional implementation
 - Parties, quotes, transfers endpoints
 - Including error endpoints
- Locally Downloadable
 - A DFSP able to test it locally against their implementation

