Retail (SHAW) Due Date Change End-to-End Architecture **Check Eligibility, Customer Agreement Update Case Status** & Approve DD Change Request Case **Case Status: Exception Case Status: Approved** Case Sub Status: Update DD Change Error Case Sub Status: **DD Change Status Update Process DD Change** CEP Error Handling: **Invoke DD Change API** 1. Invoke Re-Processing Re-Process DD Change Complete DD Change Case Status: InProcess **Update Case Status** Case Sub Status: **Case Status: Resolved** Case Sub Status: **DD Change Request** ACK: 202 **DD Change Status Update CEP Callback** 1. Enqueue DD Change Request 1. Prepare CEP Callback API Request 2 Log & Audit DD Change Request 2. Invoke CEP Callback API 3. Send ACK 202 to CEP **ILNS Business Error** ILMX Response **ILNS Processing ILMX Processing** 1. Deduce ILMX Input Data using ILNS Response 1. Prepare ILNS Request 2. Prepare ILMX Request 2. Invoke ILNS API on zOS Connect ESP 3. Invoke ILMX API on zOS Connect 3. Pass ILNS Response to ILMX Processing 4. Pass ILMX Response to CEP Update Process ILNS Response 5. If Batch is Locked, Invoke ILBF to Freeup Batch Number & Re-**System Error Handling:** Invoke ILMX. 1. Retry N Times in Exponentially Decaying Intervals **System Error Handling: Business Error Handling:** 1. Retry N Times in Exponentially Decaying Intervals 1. Retry for Recoverable Errors (Online Activity) **Business Error Handling:** 2. Transform ILNS Error Code & Respond to CEP 1. Retry for Recoverable Errors (Online Activity) 3. Return ESP level Processing Errors to CEP 2. Transform ILMX Error Code & Respond to CEP 3. Return ESP level Processing Errors to CEP **DD Change Microservice** ILNS API Response ILMX API Response ILMX API Request ILNS API Request ILBF API Request **ILNS API ILBF API** ILMX API 1. Lookup TSO User, IMS User 1. Lookup TSO User, IMS User 1. Lookup TSO User, IMS User, Batch No, Terminal ID 2. Prepare & Invoke ILBF Transaction to 2. Prepare ILNS Transaction Request 2. Prepare ILMX Transaction Request 3. Invoke ILNS Transaction on IMS (Shaw) Free Batch Number 3. Invoke ILMX Transaction on IMS (Shaw) 3. Invoke ILBF Transaction on IMS (Shaw) 4. Transform IMS Response to ESP Format 4. Transform IMS Response to ESP Format 4. Transform IMS Response to ESP Format **ILNS** Request **ILNS** Response ILMX Request **ILMX** Response **ILBF** Request **ILMX Transaction ILNS Transaction ILBF Transaction** 1. Execute ILMX Transaction 1.. Execute ILNS Transaction 1. Execute ILBF Transaction IMS (Shaw) 2. Respond with Success/Error Code 2. Respond with Account Details 2. Respond with Success/Error Code Online Txn DB Mainframe