Efficient End-to-End Integration Testing
Speakers Today

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Agenda

- Introduction
- Demo
- Summary

Duration 20 minutes
XMLdation Service

is an internet based service for

Testing and Validation of XML payment transactions

and for

Simulation of payment process
Payment Validation
Account Report Simulation

- Cost savings in customer service
- Enables self service by customers
- Helps error tracking and correction
- Support for internal product creation
- Automated documentation of rules

- Facilitates real STP / STR
- No need for real bank accounts
- Same test tool for all customers
- Instant response
- Detect and fix errors also in production

Knowledge sharing
How XMLdation Supports STR and Its Fine Tuning?

STR = Straight Through Reconciliation

Debtor Agent (Payer’s Bank)

Customer Credit Transfer
  pain.001

Customer Payment Status Report
  pain.002

Account Reporting
  camt.052 / camt.053 / camt.054

Debtor (Payer)

Creditor Agent (Payee’s Bank)

Customer Direct Debit
  pain.008

Customer Payment Status Report
  pain.002

Mandate Initiation / Amendment / Cancellation
  pain.009 / pain.010 / pain.011

Mandate Acceptance Report
  pain.012

Account Reporting
  camt.052 / camt.053 / camt.054

Creditor (Payee)

Common Global Implementation – Market Practice (CGI-MP) initiative
How XMLdation Supports STR and Its Fine Tuning?

Debtor (Payer)

- Customer Credit Transfer
  - pain.001

- Customer Payment Status Report
  - pain.002

- Account Reporting
  - camt.052 / camt.053 / camt.054

Debtor Agent
(Payer’s Bank)

Creditor (Payee)

- Customer Direct Debit
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- Customer Payment Status Report
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- Mandate Initiation / Amendment / Cancellation
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- Mandate Acceptance Report
  - pain.012

- Account Reporting
  - camt.052 / camt.053 / camt.054

Creditor Agent
(Payee’s Bank)

Common Global Implementation – Market Practice (CGI-MP) initiative

Interbank Clearing & Settlement
The challenges of E2E integration testing?

• Lack of time and resources
  – Lot of bottle necks

• Using real data is must
  – Using test accounts and fake payments can create problems

• Tests have to be repeatable during implementation

• Different scenarios are needed

• R-Message testing is important part of testing process
XMLdation Live Example

Simulator
- Payment Status Report
- Pain.001=> pain.002
- Pacs.008 => pacs.008

- Camt.053
- Camt.053 with R-messages
- MT940 and visualisation
Scenario generation - Payment Status Report

- Scenarios are generated based on uploaded XML file
- Scenarios are implemented in cooperation with customer
- Possible to extend outside of payment status reports like acmt, SEPAmail
- Scenarios can be downloaded

Example Scenarios

<table>
<thead>
<tr>
<th>Source</th>
<th>Destination</th>
</tr>
</thead>
<tbody>
<tr>
<td>pain.001</td>
<td>pain.002</td>
</tr>
<tr>
<td>pain.008</td>
<td>pain.002</td>
</tr>
<tr>
<td>pacs.003</td>
<td>pacs.002</td>
</tr>
<tr>
<td>pacs.008</td>
<td>pacs.002</td>
</tr>
<tr>
<td>pain.008</td>
<td>acmt.022</td>
</tr>
<tr>
<td>pain.001</td>
<td>pacs.008</td>
</tr>
</tbody>
</table>
• Reports are generated based on XML source files
  – Up to four files
  – 1 MB
• Generates all kind reports
  – Camt.053, camt.054, camt.052
  – MT940, CSV, Coda
  – R-Message report
  – and so on
• R-Messages are trigged and generated based on source files
• Report visualization
• Possibility to download generated files
XMLdation E2E Simulator is service for *End-to-End testing and implementation*

- **Input**
  - XML and manual input

- **Output XML and others**
  - Pain.002, pacs.002
  - Camt.053, 054, 052
  - MT940, CSV etc.

- Simulator creates different response files and messages
  - Bank specific setup

- R-Message generation for exception handling
What are the benefits in using XMLdation Service?

**Cost efficiency**
- Easy and fast implementation and deployment in production
- All what user needs is internet connection and browser

**Security**
- No installations nor interfaces in core banking environment
- No client software installations to user’s computer

**Service coverage**
- Message validation and bank simulation in same Service
- XMLdation WIKI contains additional xml information
XMLdation Company
Customers and Partners
THANK YOU!

YOU CAN ALSO SEND QUESTIONS AFTER THIS WEBINAR TO XMLDATION@XMLDATION.COM
Setup: Simulator

Workshop #1
- Definition of input types (pain.001, pain.008, manual input, uploaded file, additional information)
- Definition of output types (pain.002, camt.052, camt.053, camt.054, additional MT940 Structured)
- Definition of transactions generated by bank

Implementation: (XMLdation)

Workshop #2
- Definition of scenarios
- Definitions of country specific variations
- Definition of R-messages and their reporting
- Definition of test cases and test files

Implementation: (XMLdation)

Workshop #3
- Running the test files according to test plan
- Implementing the minor changes
- Verification of the results

Training
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