OAGIS at SonyEricsson

- CPFR case study and SOA / BPM enablement -

Rolf Bardh
Sony Ericsson
Head of Business Process Integration
Content

1. OAGIS role in the B2B / Integration architecture
2. The CPFR case
3. OAGIS as an enabler for SOA and Business Process Management
4. Q&A
Role of OAGIS in architecture

The OAGIS BOD bus

- Allows exposing (all) applications to new applications/B2B channels simply by defining new BOD to/from ASBO transformations specific for the new application/B2B protocol.
Nouns and verbs used

• Used nouns
  • CarrierRoute
  • ConfirmWIP
  • CurrencyExchangeRate
  • InventoryBalance
  • InventoryConsumption
  • InventoryCount
  • Invoice
  • PaymentStatus
  • PlanningSchedule
  • PurchaseOrder
  • ReceiveDelivery
  • SalesOrder
  • Shipment

• Verbs
  • Acknowledge
  • Notify
  • Process
  • Show
  • Sync
The CPFR case

CPFR pilot early ’06
• Using prototype tool based on Excel / Netconnect (bach upload into planning tool )
• Test of CPFR in structured manner integrated into our S&OP process
• NOT capable to scale beyond pilot mode (10 customer relations)!

During the pilot, customer requested Rosettanet based B2B choreography
• A scalable CPFR solution was under design but judged 8-12 months away….
We did have operational and proven B2B platform for RosettaNet PIPs up and running
• but ONLY for **inbound** supply chain

What to do?

Could we meet the new customer request by using the existing RosettaNet solution?
• Connecting the pilot CPFR tool to our outbound supply chain PIPs
• Creating a long term sustainable and cost efficient CPFR solution – reusing existing assets
The initial CPFR solution

<table>
<thead>
<tr>
<th>Customer</th>
<th>Send</th>
<th>Receive</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMC Integration platform</td>
<td>PIP</td>
<td>PIP</td>
</tr>
<tr>
<td>SEMC pilot CPFR tool (batch upload)</td>
<td>Load</td>
<td>Export</td>
</tr>
<tr>
<td>Repository</td>
<td>Receive</td>
<td>Send</td>
</tr>
</tbody>
</table>

- Send
- Receive
- Translate
- Receive
- Translate
- Receive
- Send
- Export
The enhanced CPFR solution - OAGIS

Customer

SEMC Integration platform

SEMC RosettaNet PIP-based tool

Stays the same!

New!

Receive
Load

Send
Export
Benefits

The approach allowed for
• Meeting customers requested time plan and work out process at low cost and with high flexibility to change

• Building knowledge and testing assumptions before proceeding to next level of major investment in rigid long term tool

OAGIS step supported
• "Black box B2B development" where mature IC platform could establish structured long term B2B even though business application was at immature prototype stage

• Moving towards yet not defined final solution and B2B standard preference of different customers might change. This protected B2B ability securing reusability no matter what business application and EDI standard to support
Role of OAGIS in SOA & Business Process Management

- A common business and IT language when modeling business processes enabled for technical automation / implementation using, e.g. BPEL
- Activities in BPMN define services in a SOA where OAGIS defines the application neutral information model as XML schemas defining the service contract using, e.g. WSDL
Pros and cons

• Pros
  • High-quality message definitions covering many needs
    • Covering instant needs
    • Known to also cover future needs
  • Increased productivity and quality when developing integrations whilst lowering cost
  • Easier to framework handling of common structures
    • E.g., developing common transformations for sub-structures reused between BOD/noun definitions
  • Reuse of lower-layer components when developing customized BOD/noun definitions which guarantees a consistent definition of information elements

• Cons
  • Large and complex schema structures
    • Application development frameworks sometimes have difficulties in interpreting schemas
Lessons learned

- Governance of BOD usage and information model important
  - Centralized governance body identifying and/or modifying BOD usage

- Schemas supply some semantics, additional semantic descriptions required
  - E.g., a required delivery date on line item level overrides required delivery date on header level

- Versioning important
  - Semantic versioning
    - E.g., an element not previously used has semantics in next version although no structural changes to schema
  - Syntactic versioning
    - Changes made to schemas to cater for SEMC specific elements
  - Overlaying is favored
    - Allows consistent self-describing schema definitions to be developed
    - Allows SEMC to control namespace in order to use schema versioning also for semantic changes
Q&A

• Q&A