

April 24, 2009

Fiorano ESB



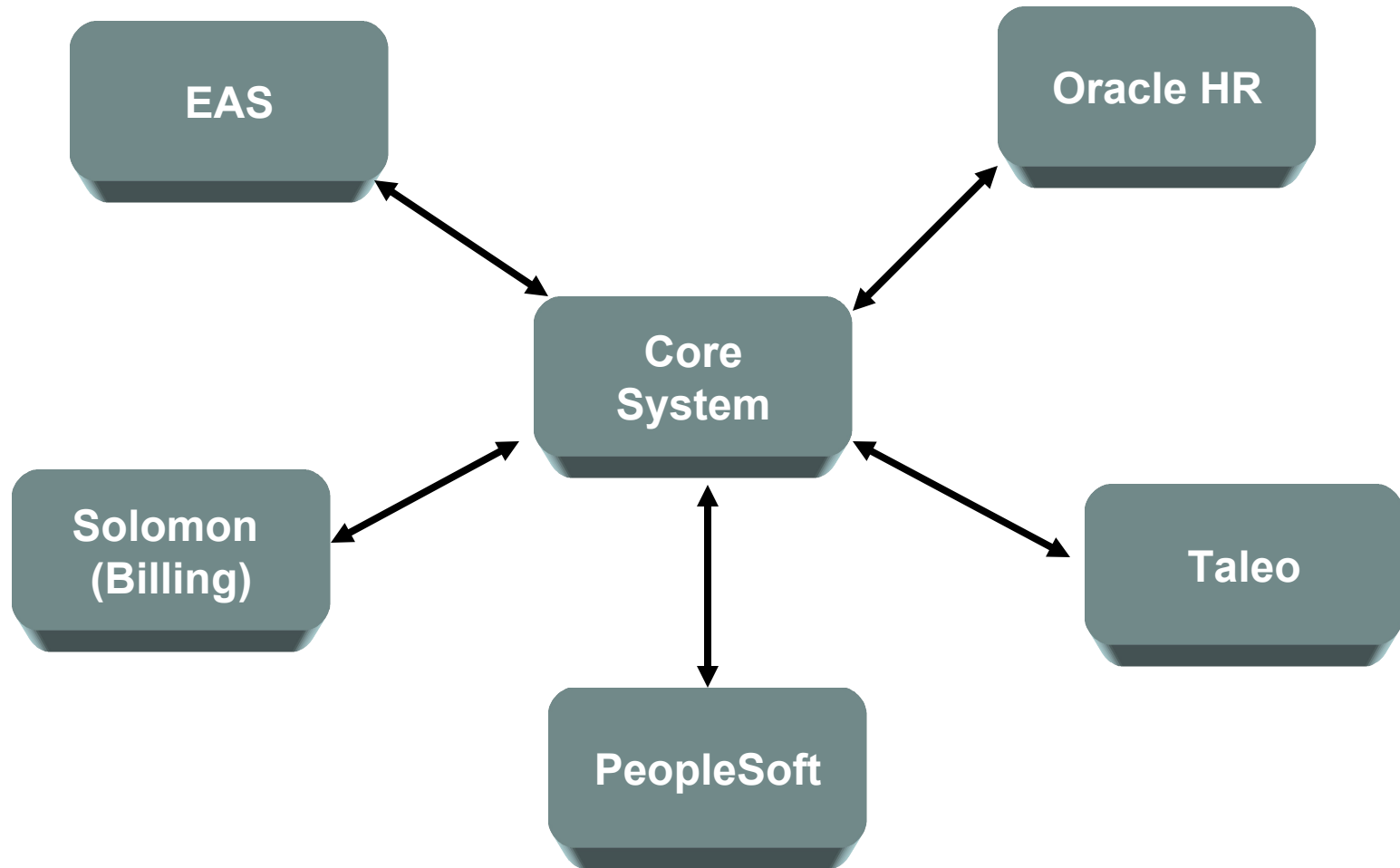
April, 2009
Andrei Solntsev



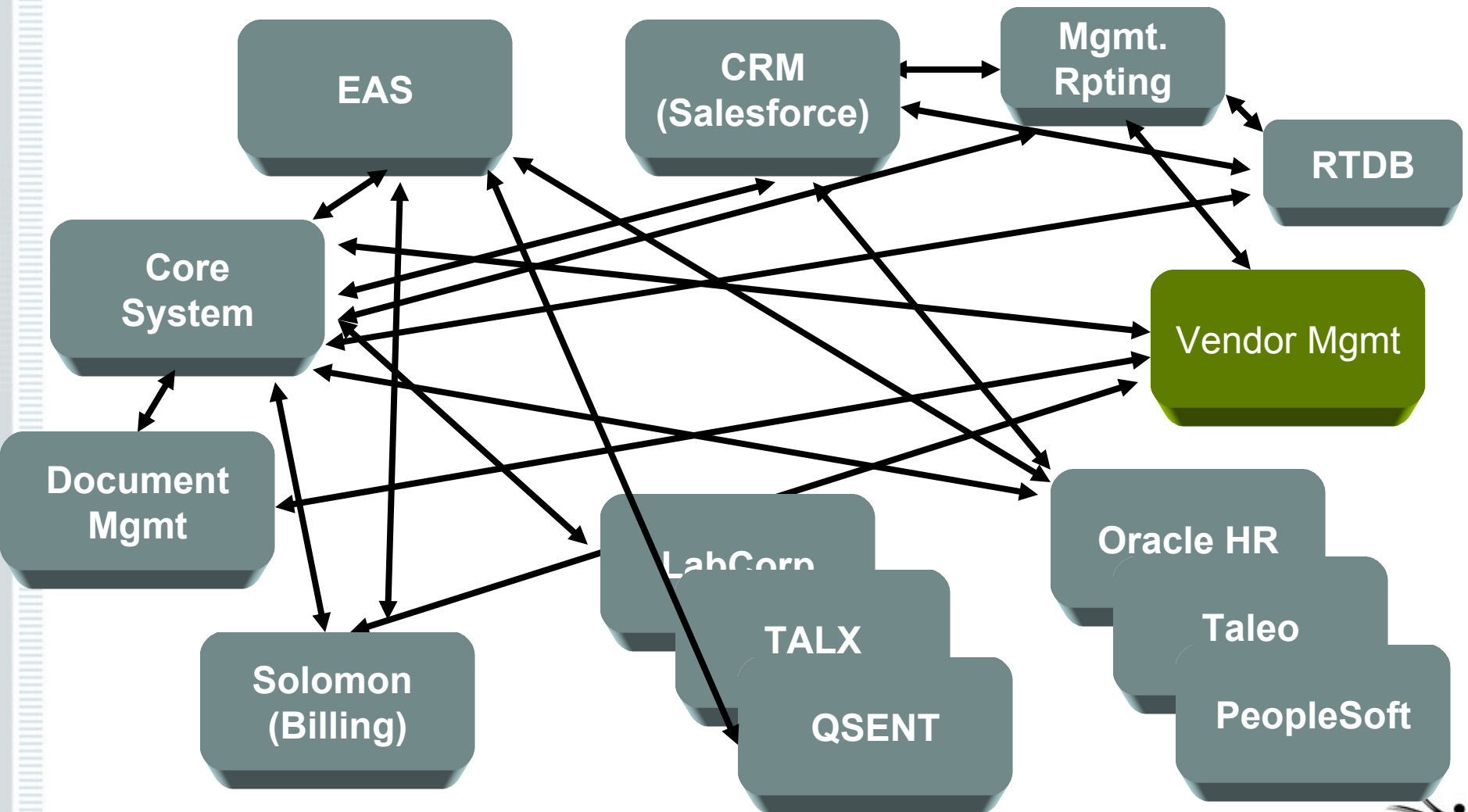
Agenda

- Intro
- Why Fiorano?
- Examples
- Outcome
- Q&A

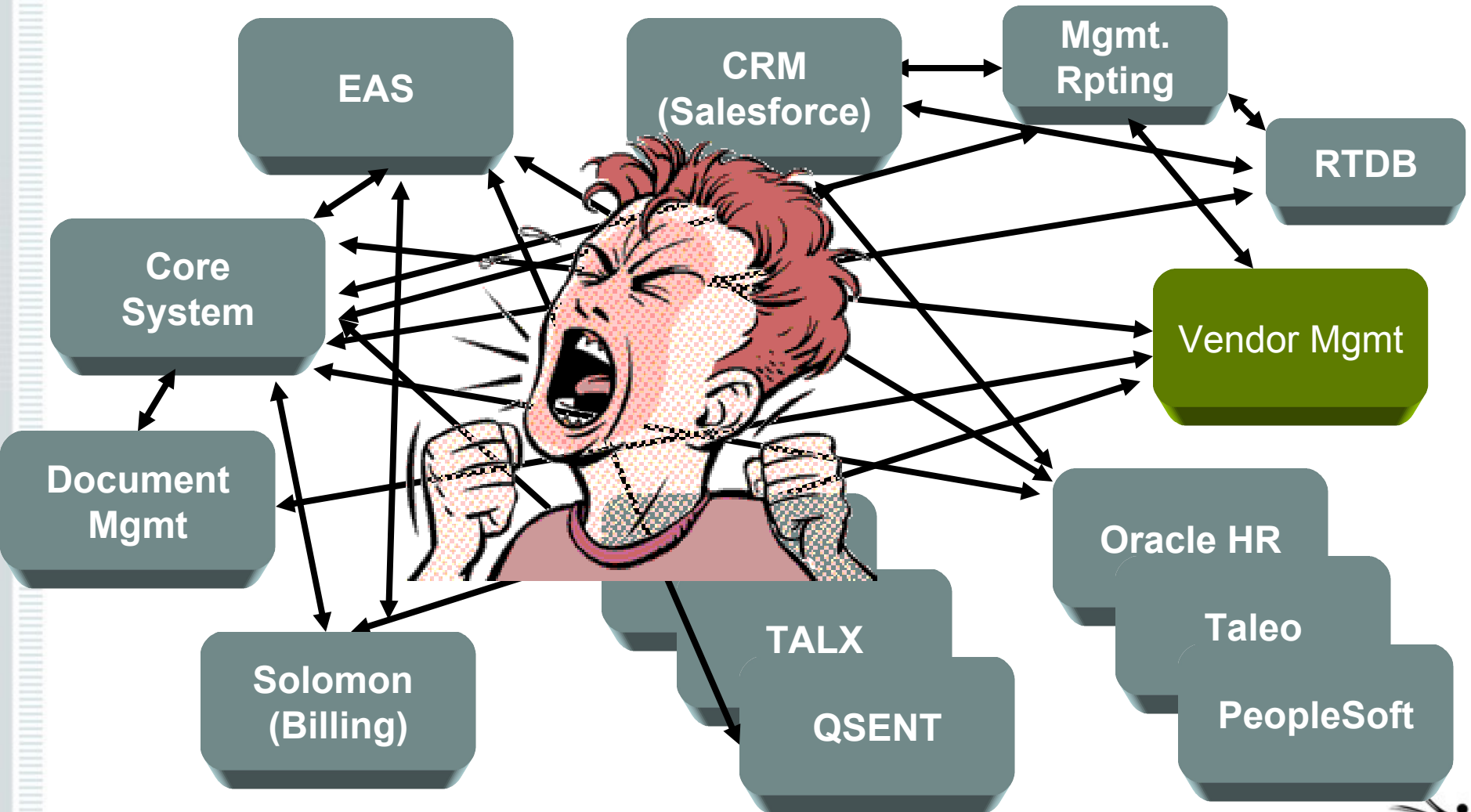
Living without an ESB - Today



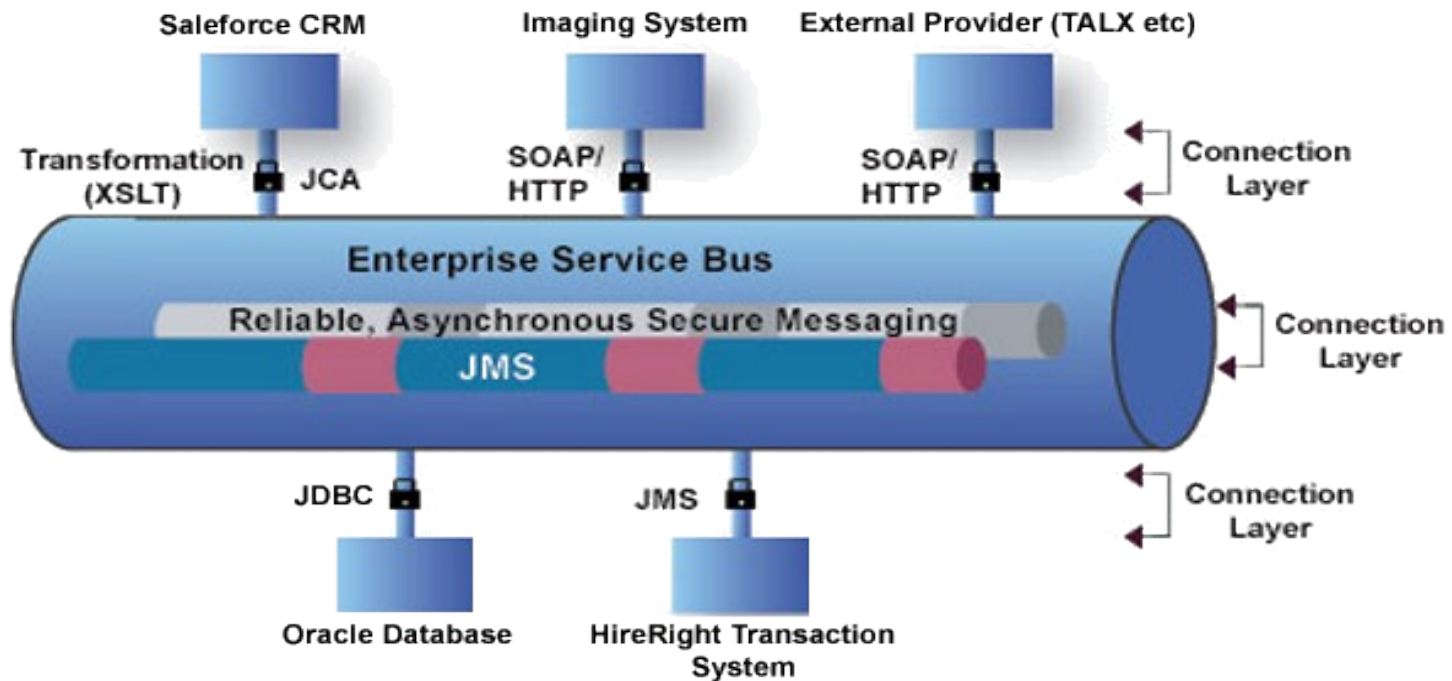
Living without An ESB - Tomorrow



Living without An ESB - Tomorrow



ESB is Communications Conduit for All Systems



Agenda

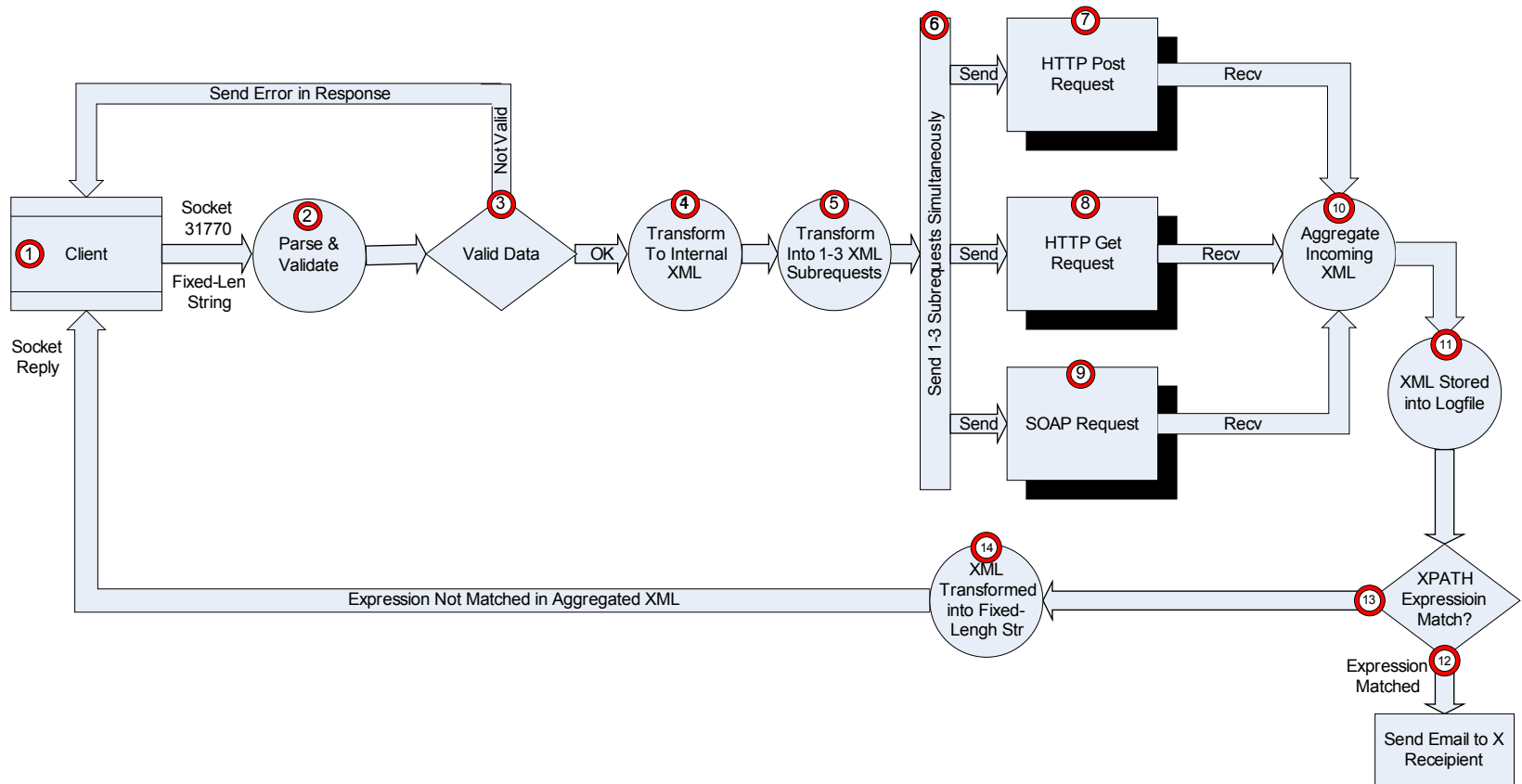
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ESB Vendor's Considered (year 2005)

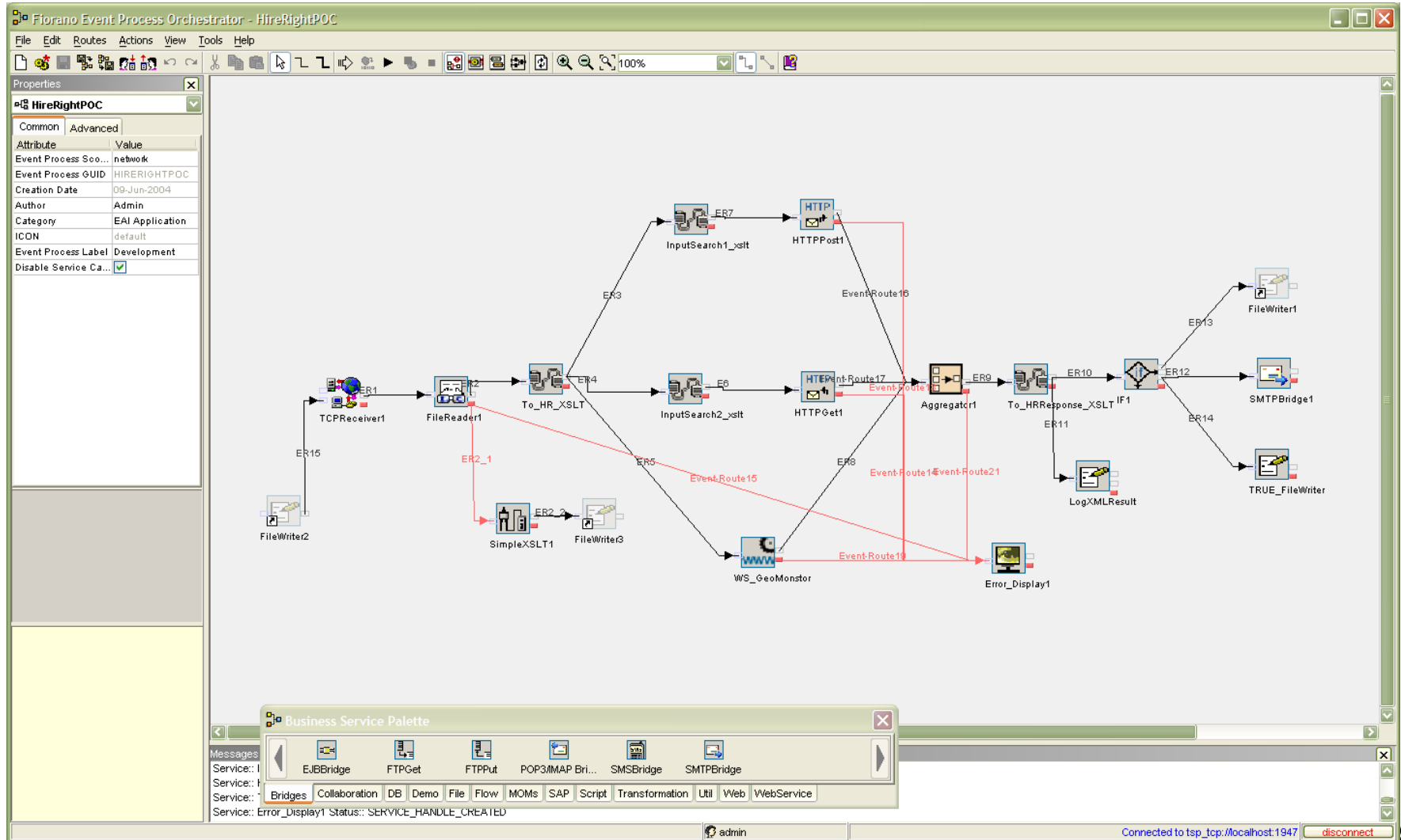
| VENDOR | PRODUCT |
|--------------------|---|
| Fiorano Software | Fiorano ESB |
| Magic Software | iBolt |
| Oracle Corporation | Oracle Integration. -Current Oracle product is inferior. -BPM tool just acquired. |
| Sonic Software | Sonic ESB Sonic Orchestration Server |
| Tibco | No response. |
| SeeBeyond Software | eGate Integrator eVision Studio |

Colored rows indicate vendors selected for Proof of Concept

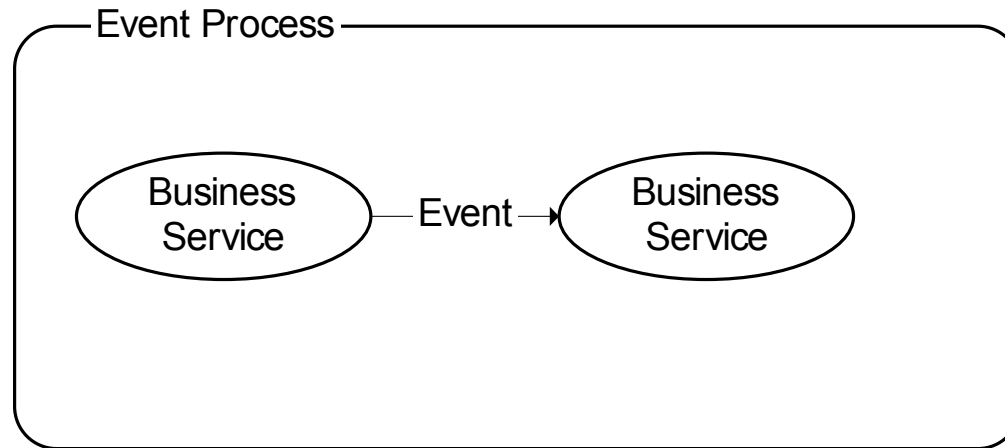
Proof of Concept



The Final Choice – Fiorano ESB



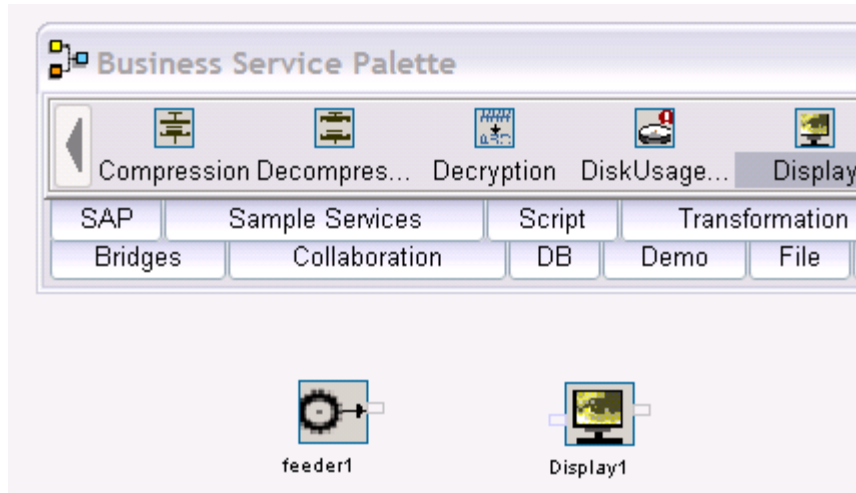
Fiorano ESB basic concept



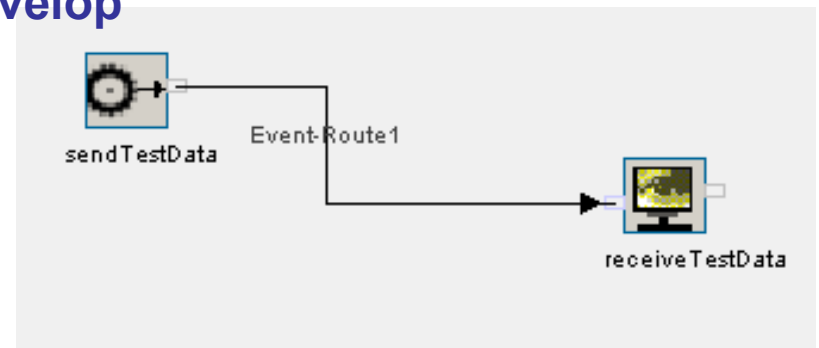
- Fiorano ESB uses **Event Process** abstraction. It consists of different **Business Services** and links between them – **Events**.

In this case Business Service is a “black box” that can perform defined functionality and has specified interface.

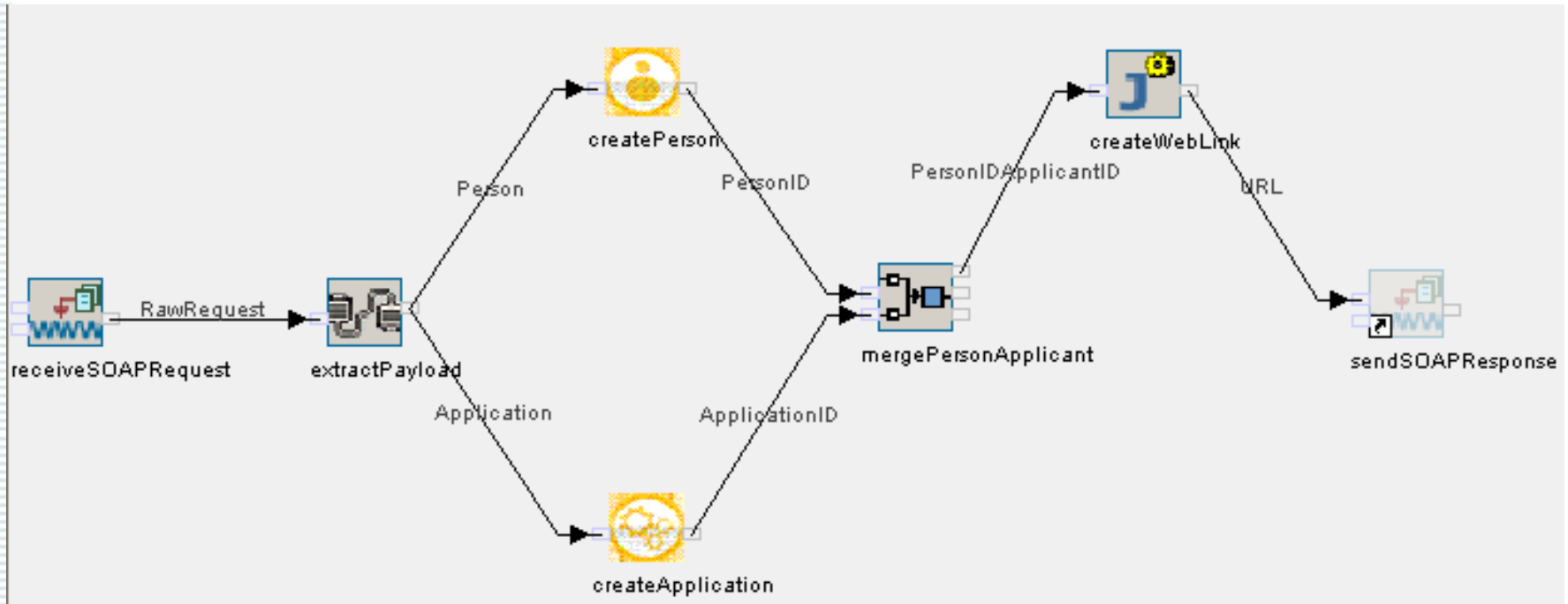
Create new event process



Develop



Typical ESB Event Process



Fiorano ESB consist of:

- MQ - Communication bus (JMS based),
- SP - Enterprise Server, and
- TPS - Peer servers

Business Services created by Fiorano

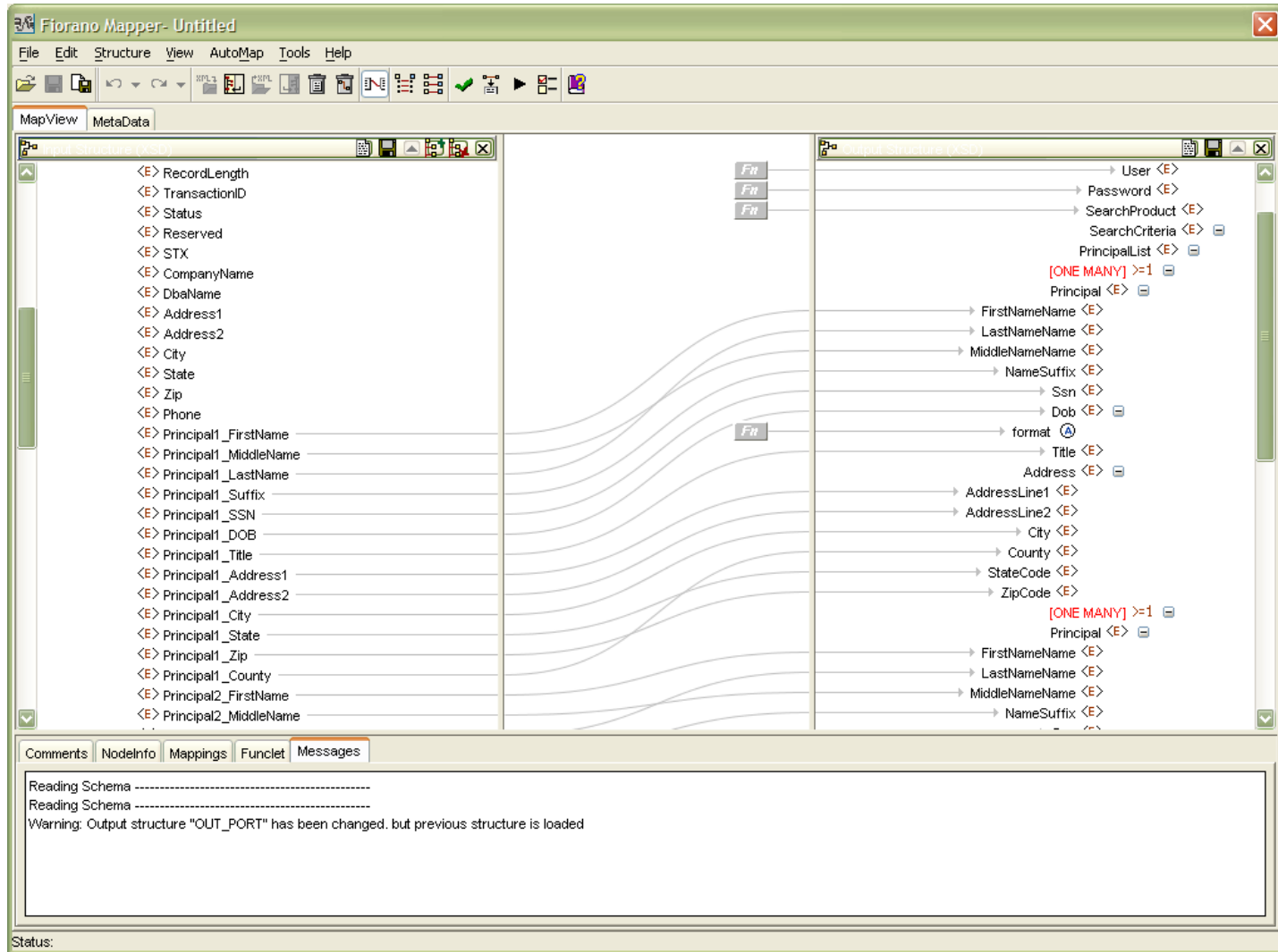
The following services are ready to use:

- Bridges (FTP, POP3/IMAP, SMTP, EJB)
- DB (ex: run custom PL/SQL statement)
- File System (read/write files)
- Flow (IF, JOIN, Split, Sleep, Timer)
- Messaging (MSMQ, JMS, WebSphere)
- Web (HTTP GET/POST, HTTP receiver, SOAP stub)
- Script (JS, Perl, Python)
- Transformation (XSLT, ...)
- Utilities (Compression, Crypto, Feeder, Display, XML verification)

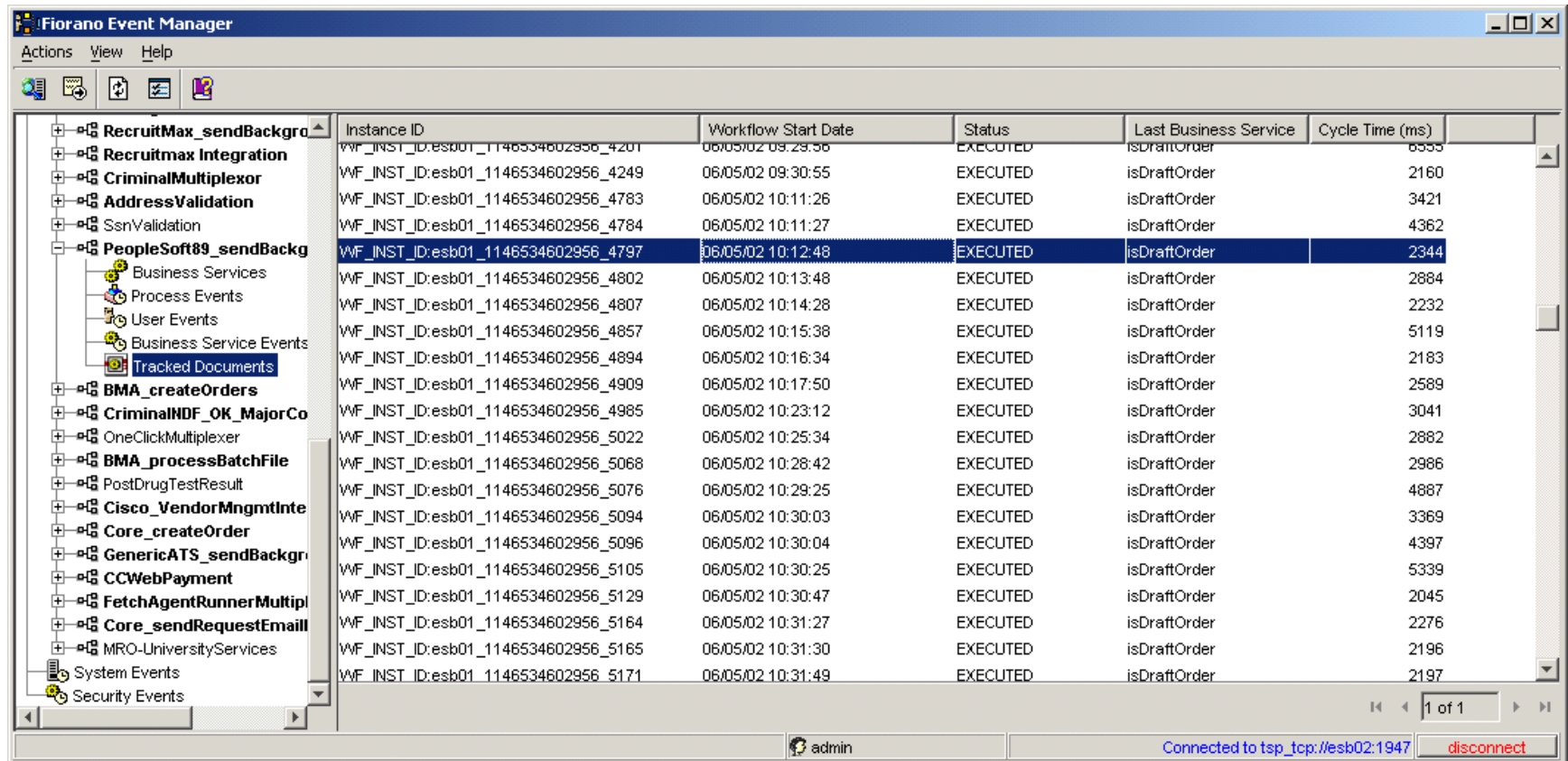
We are creating our own business services called

- **HireRight Business Components**

Fiorano: visual XML mapper



Fiorano: Visual event tracking



The screenshot shows the Fiorano Event Manager application window. The title bar reads "Fiorano Event Manager". Below the title bar is a menu bar with "Actions", "View", and "Help". Under "Actions", there are icons for a list, a refresh, a search, a print, and a help icon. The main area is divided into a left sidebar and a main table. The sidebar contains a tree view of event categories: "RecruitMax_sendBackgro", "Recruitmax Integration", "CriminalMultiplexor", "AddressValidation", "SsnValidation", "PeopleSoft89_sendBackg", "Business Services", "Process Events", "User Events", "Business Service Events", "Tracked Documents", "BMA_createOrders", "CriminalINDF_OK_MajorCo", "OneClickMultiplexer", "BMA_processBatchFile", "PostDrugTestResult", "Cisco_VendorMngmtInte", "Core_createOrder", "GenericATS_sendBackgr", "CCWebPayment", "FetchAgentRunnerMultipl", "Core_sendRequestEmail", "MRO-UniversityServices", "System Events", and "Security Events". The main table displays a list of workflow instances with the following columns: "Instance ID", "Workflow Start Date", "Status", "Last Business Service", and "Cycle Time (ms)". The table contains 20 rows of data, all with a status of "EXECUTED". The row for "WF_INST_ID:esb01_1146534602956_4797" is highlighted. At the bottom of the window, there is a status bar showing "admin" and "Connected to tsp_tcp://esb02:1947" with a "disconnect" button.

| Instance ID | Workflow Start Date | Status | Last Business Service | Cycle Time (ms) |
|-------------------------------------|---------------------|----------|-----------------------|-----------------|
| WF_INST_ID:esb01_1146534602956_4201 | 06/05/02 09:29:36 | EXECUTED | isDraftOrder | 6353 |
| WF_INST_ID:esb01_1146534602956_4249 | 06/05/02 09:30:55 | EXECUTED | isDraftOrder | 2160 |
| WF_INST_ID:esb01_1146534602956_4783 | 06/05/02 10:11:26 | EXECUTED | isDraftOrder | 3421 |
| WF_INST_ID:esb01_1146534602956_4784 | 06/05/02 10:11:27 | EXECUTED | isDraftOrder | 4362 |
| WF_INST_ID:esb01_1146534602956_4797 | 06/05/02 10:12:48 | EXECUTED | isDraftOrder | 2344 |
| WF_INST_ID:esb01_1146534602956_4802 | 06/05/02 10:13:48 | EXECUTED | isDraftOrder | 2884 |
| WF_INST_ID:esb01_1146534602956_4807 | 06/05/02 10:14:28 | EXECUTED | isDraftOrder | 2232 |
| WF_INST_ID:esb01_1146534602956_4857 | 06/05/02 10:15:38 | EXECUTED | isDraftOrder | 5119 |
| WF_INST_ID:esb01_1146534602956_4894 | 06/05/02 10:16:34 | EXECUTED | isDraftOrder | 2183 |
| WF_INST_ID:esb01_1146534602956_4909 | 06/05/02 10:17:50 | EXECUTED | isDraftOrder | 2589 |
| WF_INST_ID:esb01_1146534602956_4985 | 06/05/02 10:23:12 | EXECUTED | isDraftOrder | 3041 |
| WF_INST_ID:esb01_1146534602956_5022 | 06/05/02 10:25:34 | EXECUTED | isDraftOrder | 2882 |
| WF_INST_ID:esb01_1146534602956_5068 | 06/05/02 10:28:42 | EXECUTED | isDraftOrder | 2986 |
| WF_INST_ID:esb01_1146534602956_5076 | 06/05/02 10:29:25 | EXECUTED | isDraftOrder | 4887 |
| WF_INST_ID:esb01_1146534602956_5094 | 06/05/02 10:30:03 | EXECUTED | isDraftOrder | 3369 |
| WF_INST_ID:esb01_1146534602956_5096 | 06/05/02 10:30:04 | EXECUTED | isDraftOrder | 4397 |
| WF_INST_ID:esb01_1146534602956_5105 | 06/05/02 10:30:25 | EXECUTED | isDraftOrder | 5339 |
| WF_INST_ID:esb01_1146534602956_5129 | 06/05/02 10:30:47 | EXECUTED | isDraftOrder | 2045 |
| WF_INST_ID:esb01_1146534602956_5164 | 06/05/02 10:31:27 | EXECUTED | isDraftOrder | 2276 |
| WF_INST_ID:esb01_1146534602956_5165 | 06/05/02 10:31:30 | EXECUTED | isDraftOrder | 2196 |
| WF_INST_ID:esb01_1146534602956_5171 | 06/05/02 10:31:49 | EXECUTED | isDraftOrder | 2197 |

Fiorano key features

- Visual orchestration
- Visual XML mapping
- Visual event tracking
- Visual studio for custom components
- ...



Fiorano: after marriage

Slow

Resource-consuming

Bugs

Portable? – not so easy



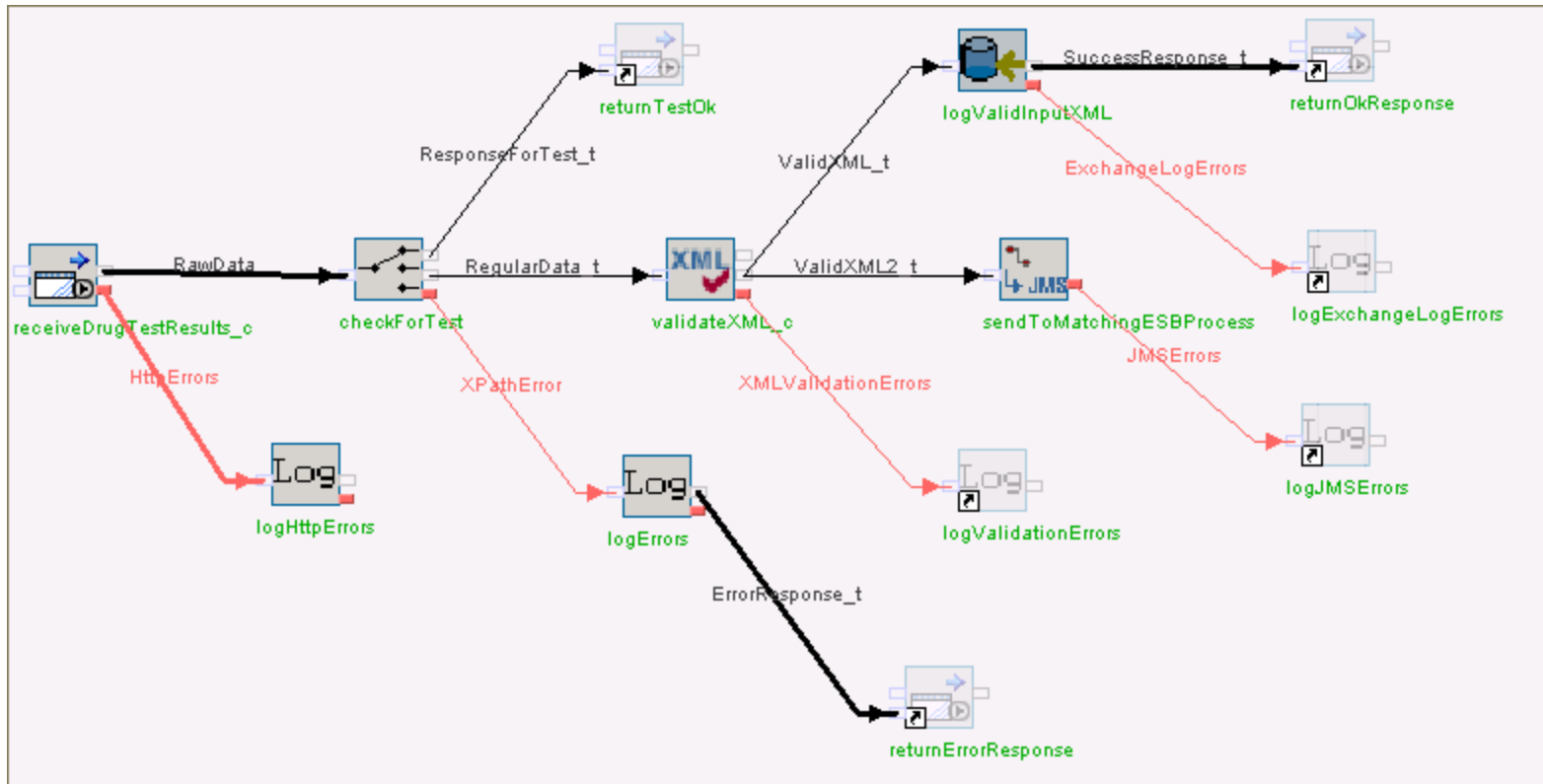
Folklore:

- To ESB to not to ESB
- Fiorano in panic
- port :2016
- ... Queue

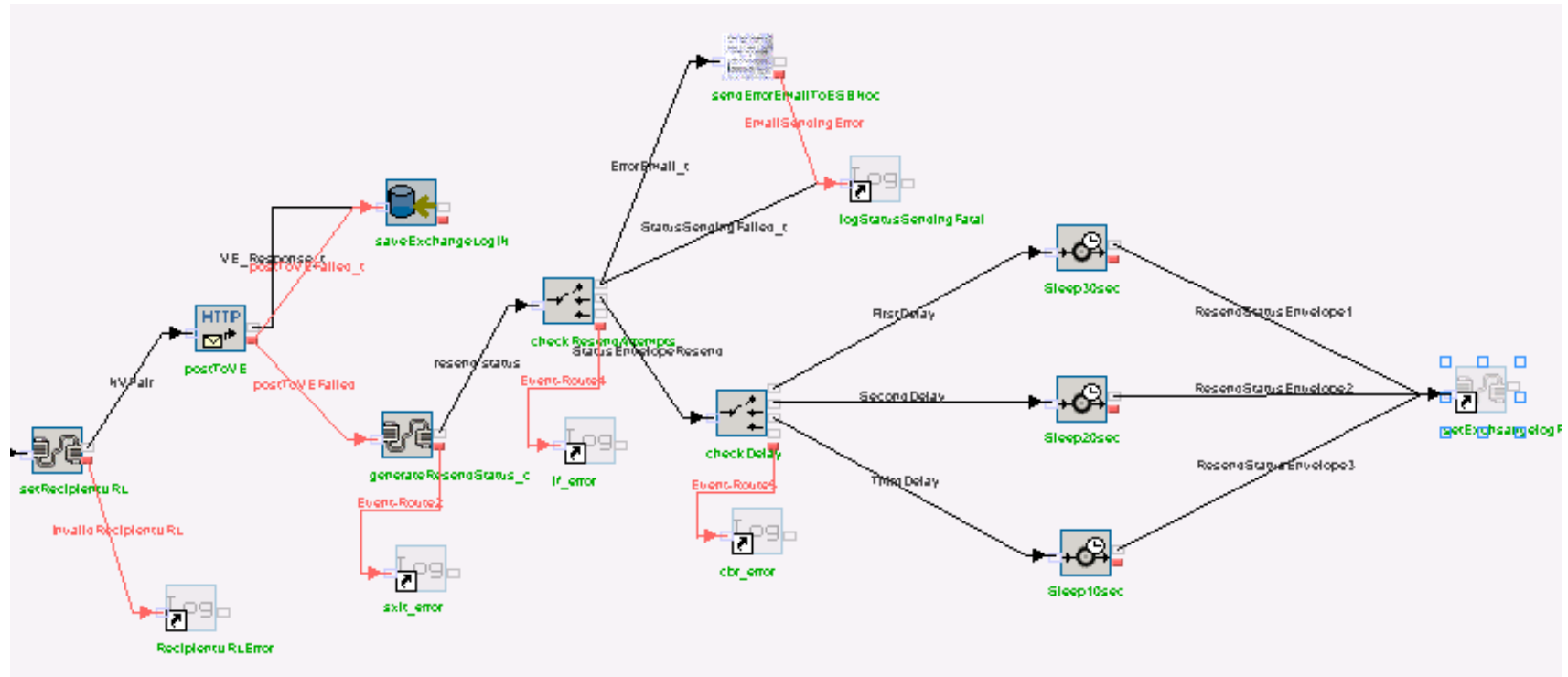
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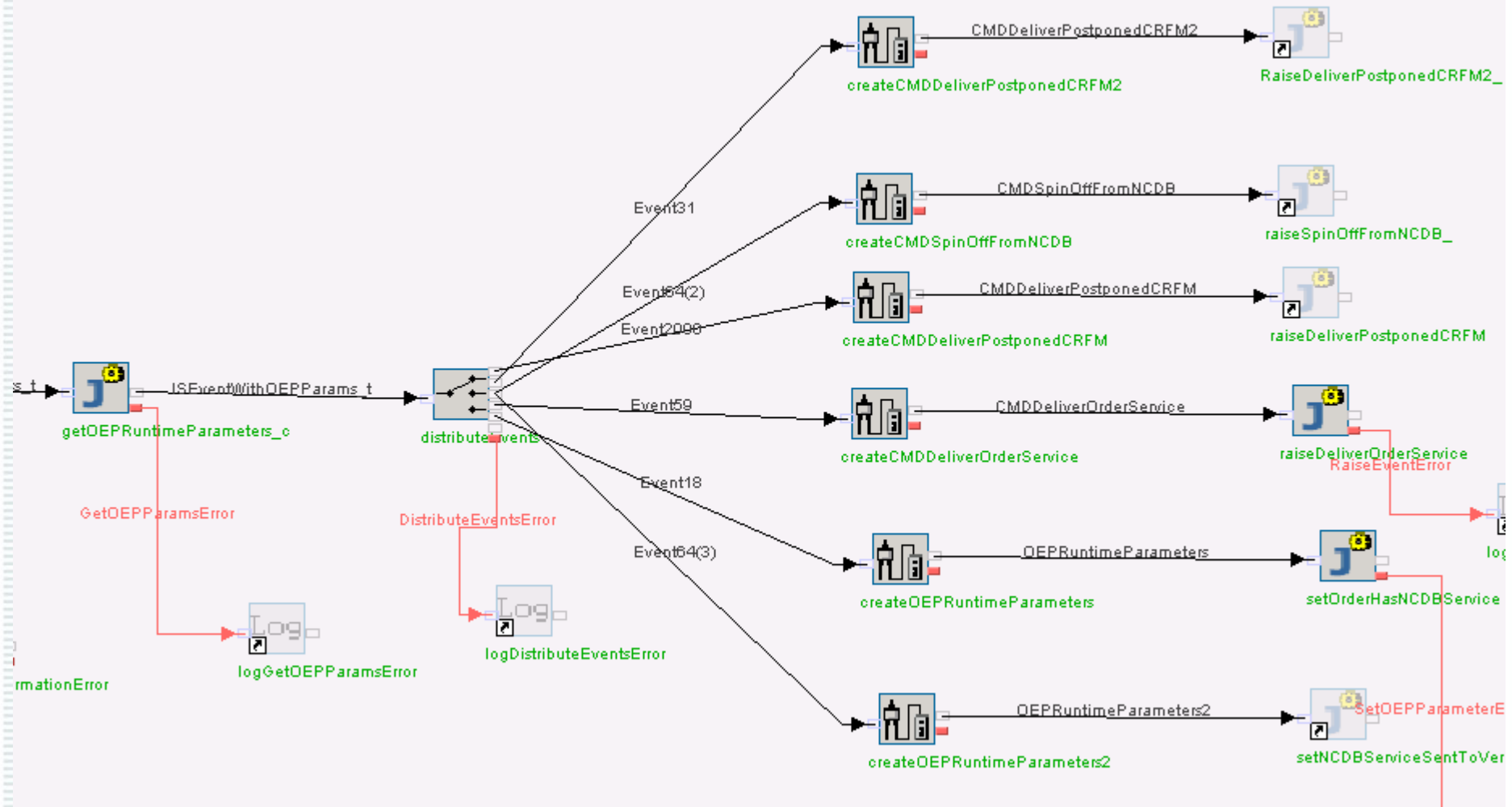
Example 1: Typical process



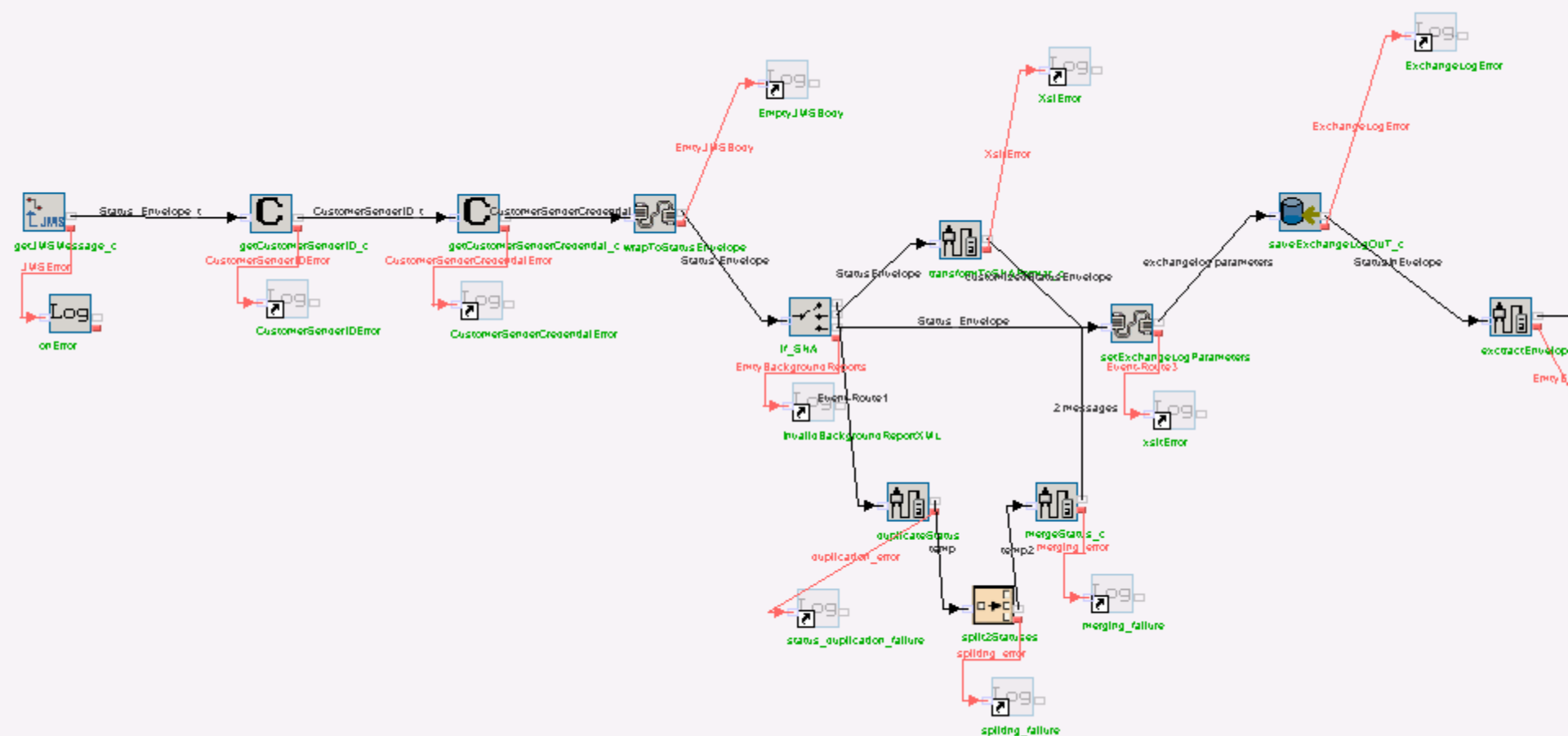
Example 2: Visual loops



Example 3: business rules?



Example 4: Visual hardcode ☺



[illegible]

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Outcome

- Great idea
- Great tool to learn thinking
- Suits well for fast and easy integration solutions
 - when developers work independently
 - For Chinese developers
- Not suitable for high performance
- Problematic for team work

Q & A

