ECLIPSE STARDUST – A BPM SUITE WITH 1,500+ WORLDWIDE INSTALLATIONS IN THE FINANCIAL INDUSTRY

Eclipse Banking Day October 31, 2014

Dr. Marc Gille Product Management SunGard Infinity

STARDUST ORIGIN – CARNOT, SUNGARD, INFINITY

- SunGard is a leading provider of services and systems for the financial industry.
- Infinity Process Platform (IPP) is a 14-year old mature BPM product, based on the CARNOT Process Engine.
- IPP is SunGard's strategic platform for BPM, Workflow, Document Processing and Integration.
- IPP is used in more than 60% of products/solutions of SunGard business units.
- More than 1.600 production deployments worldwide
 - > 10,000 users
 - > 1,000,000 processes/day
 - > 300,000 documents/day
- Low-latency profiles with > 10,000 processes per second.
- Ranked #2 in Vision in Gartner MQ for BPMS in 2007
- IPP has been made available to the Open Source Community via Eclipse Stardust (<u>www.eclipse.org/stardust</u>).



OPEN SOURCE BPM



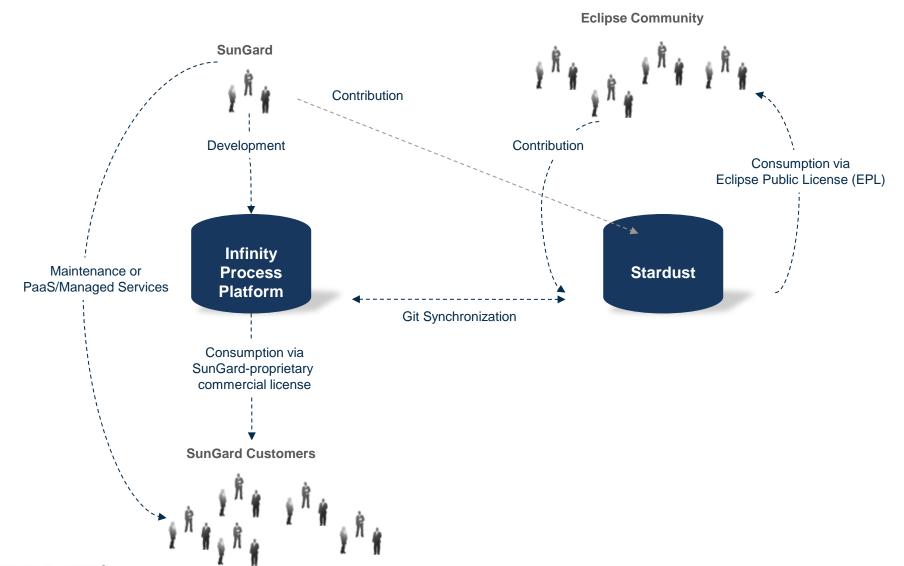
LEADING OPEN SOURCE BPMS

	Stardust	jBPM	Bonita	Activiti
Lines of Code	2,244,289分	2,197,294分	2,080,210	367,563 企
Person Years	636	628	589	84

Source: http://www.ohloh.net/ (Now Open Hub, data from 10/22/14)

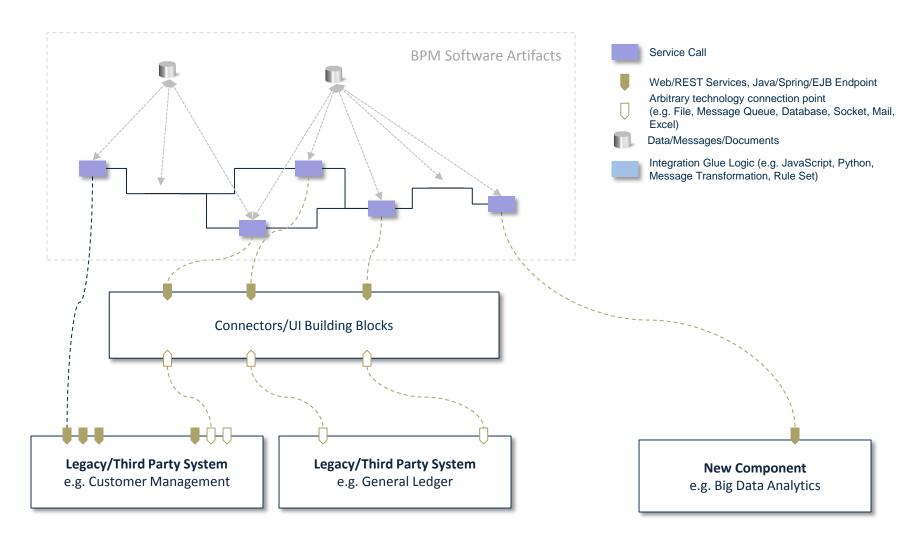


STARDUST ECOSYSTEM

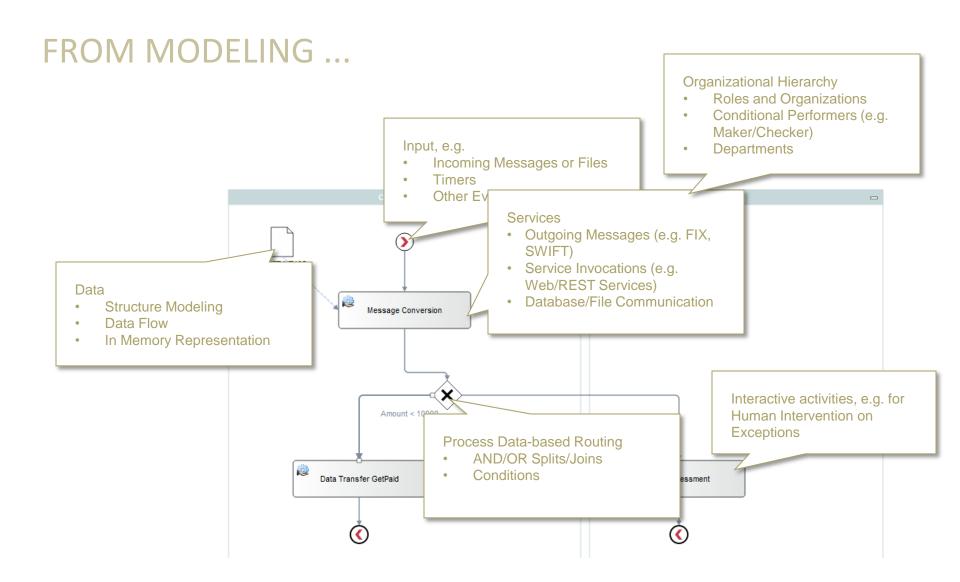


STARDUST APPROACH

GENERAL SOLUTION SCENARIO

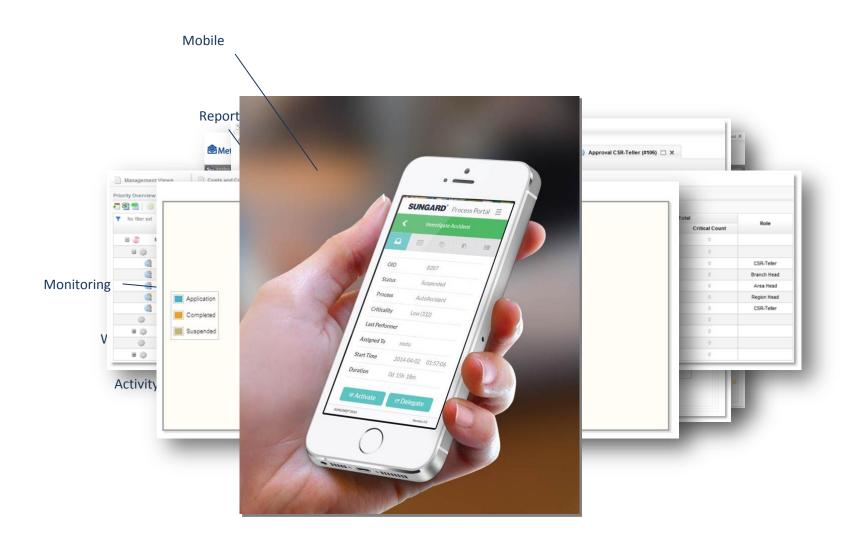








... TO EXECUTION



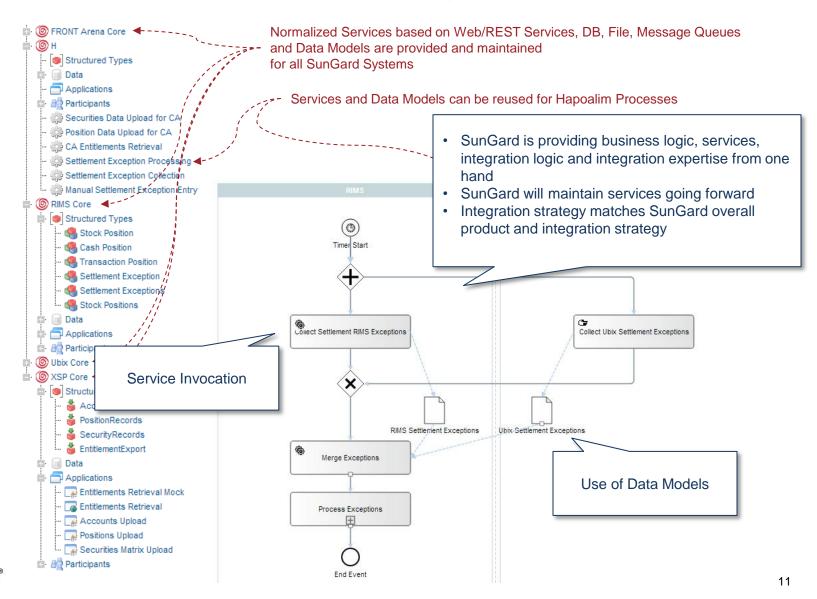


A REAL WORLD SCENARIO



Sungard Investments in Connectivity

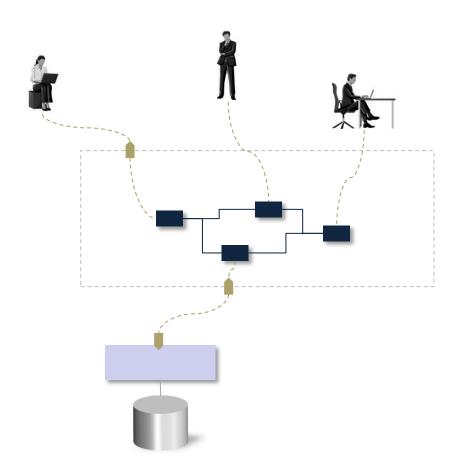
SUNGARD



STARDUST USAGE SCENARIOS



INTERACTIVE WORKFLOW



Requirements

- Modeling of organizational structure
- Connectivity to User Management/Single Sign-On
- Configurable UI
- Large Number of parallel Users

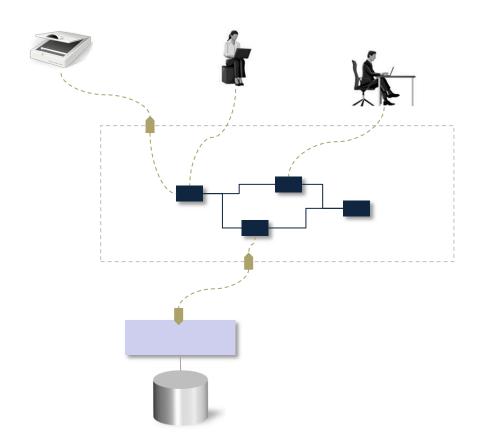
IPP Solution

- Department Concept
- LDAP/SAML
- UI Mashups
- · Custom Views/Skinning
- Reporting
- Simulation

- CSS Versicherungen, CH
- Degussabank, Frankfurt
- Postfinance, CH
- Heineken, NL
- SEB, LIT
- CITIC Trust, China
- UMB, USA
- Commerzbank/Dresdner Bank



DOCUMENT PROCESSING



Requirements

- Document Storage
- Document Viewing
- Links between Processes and Documents

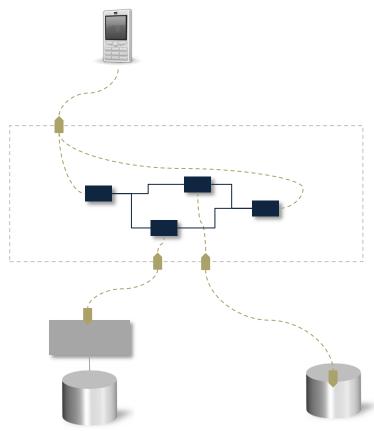
IPP Solution

- Document Repository
- TIFF-Viewer and Editor
- Server-side PDF-Viewer
- Document Types and Metadata
- Document Security

- Schweizer Bundesbehoerde, CH
- Japan Post, Japan
- Japan Postal Bank,, Japan
- · State Street Bank, USA
- Key Bank, USA
- UMB, USA
- Liberty, South Africa



DATA EXTRACTION AND TRANSFORMATION



Requirements

- Receive request for data gathering from multiple systems
- Data retrieval from these systems
- Data transformation, normalization and merge
- Return data
- Possibly high record volume (~ 100.000)

IPP Solution

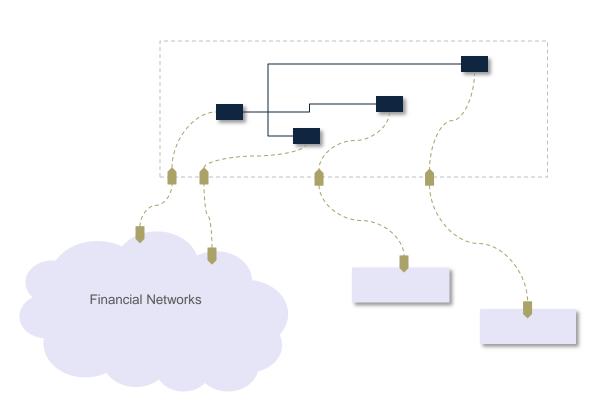
- Simple message transformations via drag & drop
- Complex message transformation with JavaScript
- Out-of-the-box connectivity to RDBMS, Files etc.
- Well-defined Connector structure to be used for custom connectors (e.g. to OMNI)
- · Parallel data gathering via process topology

- Citibank, USA
- UMB, USA
- Fidelity Investments, USA

e.g. Relational Database



MESSAGE PROCESSING



Requirements

- Connectivity to financial networks and protocols (FIX, SWIFT, XML)
- Grouping of messages
- Correlation of messages (e.g. for cancellation)
- Content-based routing
- Message Multicast
- Low(er) latency

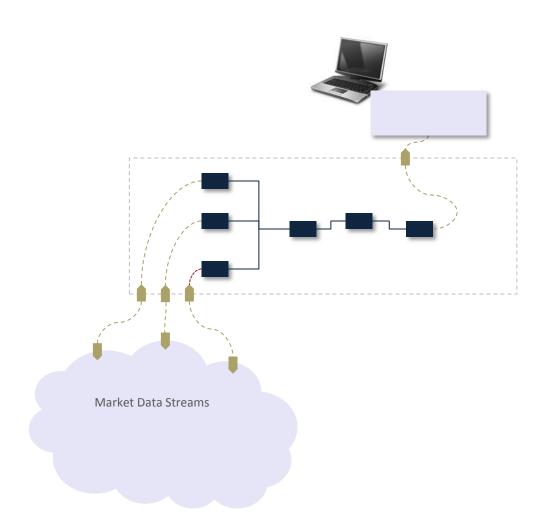
IPP Solution

- FIX and SWIFT connectivity
- Message transformation to normalized format
- Caching and JMS channeling for sequencing
- · Routing via transition conditions
- Transient processing/write-behind for highest throughput/lowest latency

- SWIFT, Belgium
- · Credit Suisse, Switzerland



EVENT PROCESSING



Requirements

- Different incoming market data streams (e.g. Market Map, Bloomberg, Reuters)
- Normalization of content
- Client push

IPP Solution

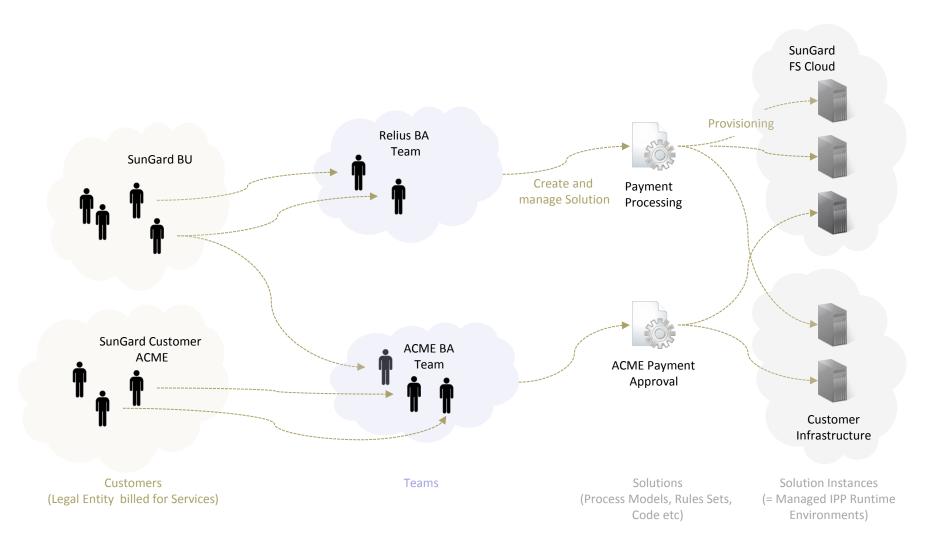
- FIX and SWIFT connectivity e.g. market data streams
- Correlation of messages arriving in time window via caching
- Message transformation to normalized format
- Rules for golden copy creation
- Client push via publish/subscribe via REST Push and
- HTML messaging

- SWIFT, Belgium
- Credit Suisse, France
- Goldman Sachs, USA



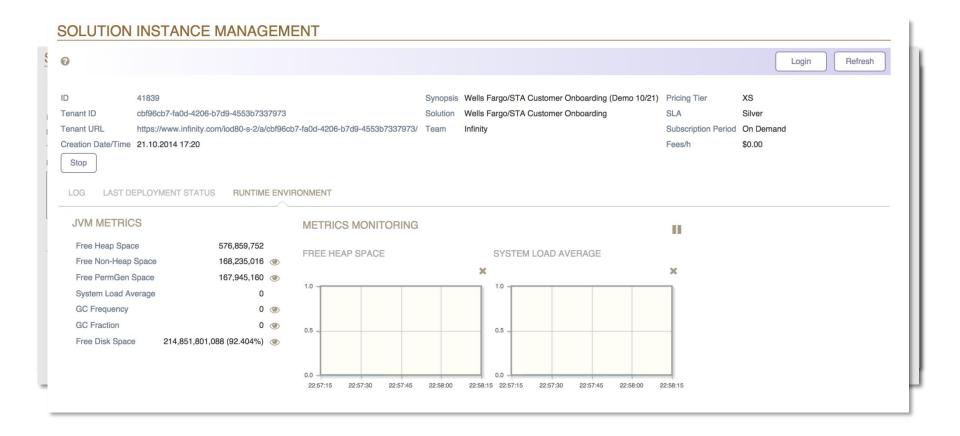
BPM-AS-A-SERVICE

INFINITY ON DEMAND ECOSYSTEM





SOLUTION CREATION AND PROVISIONING FLOW





Questions



